



**COUNTY OF HUMBOLDT**  
**PLANNING AND BUILDING DEPARTMENT**  
**CURRENT PLANNING DIVISION**

3015 H Street Eureka CA 95501  
Phone: (707)445-7541 Fax: (707) 268-3792

Hearing Date: May 5, 2016

To: Humboldt County Planning Commission

From: Rob S. Wall, Interim Director of Planning and Building Department

Subject: **Modification to the Conditional Use Permit for 2016 Northern Nights Music Festival and One-Day Event**  
Application Number 9947  
Case Numbers CUP-04-38MMMM and MON 16-002  
Assessor Parcel Number 033-271-007  
240 Cooks Valley Road

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Please contact Karen Meynell at (707) 268-3731, or by e-mail at [kmeynell@co.humboldt.ca.us](mailto:kmeynell@co.humboldt.ca.us) if you have any questions about the scheduled public hearing item.

## AGENDA ITEM TRANSMITTAL

|                                    |  |                                 |
|------------------------------------|--|---------------------------------|
| <b>Hearing Date</b><br>May 5, 2016 | <b>Subject</b><br>Modification to the Conditional Use Permit for the 2016 Northern Nights Music Festival and One-Day Event | <b>Contact</b><br>Karen Meynell |
|------------------------------------|--|---------------------------------|

**Project:** A modification of Conditional Use Permit CUP-04-38MMM on County Line Ranch (APN 033-271-007) for the outdoor music and art event known as Northern Nights Music Festival (NNMF) on the third weekend of July 2016. The project involves auxiliary activities in support of the NNMF which is held on adjacent parcels in Mendocino County (APN 053-020-10, -11, -12,-13, -14 and -16). The Applicants are currently approved for a 6,000 person three-day event by Mendocino County (CUP UM 2014-0011). The applicants propose to modify CUP-04-38MMM in order to provide supplemental parking and camping to accommodate 2,000 attendees and 2,000 vehicles, food vendors, a silent disco and to provide site access for early arrivals on Thursday, July 14, 2106. The applicant also proposes to move the date of the one-day concert previously authorized for the last weekend in August to July 2 or July 3, 2016, which is the Fourth of July holiday weekend and set the attendance of the one-day concert to 2,000 people. The term of the existing permit was set to expire in 2015 and this modification will extend the validity of the CUP for one additional year. The applicant submitted a monitoring report for the 2015 event demonstrating continued compliance with conditions of approval. The project proponent and applicant is Northern Nights Music Group, LLC. The owner of record for County Line Ranch is Outraged Orangutan, LLC.

The original EIR was certified in 1992 (SCH 92-033305), a Supplemental EIR was certified in 2006 and an additional Supplemental EIR was certified in 2008. An Addendum to the EIR was prepared in 2009 and for the 2014 and 2015 substantial conformance reviews. An additional addendum to the EIR has been prepared this year in order to address early entry into the NNMF, moving the date of the one-day concert to July 2 or July 3, 2016 and locating food and craft vendors and the silent disco in Humboldt County.

**Project Location:** The project is located in Humboldt County, in the Cooks Valley area, on the east side of US Highway 101, extending east from the intersection of the Cooks Valley Road with US Highway 101 on the property known as "County Line Ranch" (240 Cooks Valley Road).

**Present Plan Designations:** Timberlands (T) as designated in the Humboldt County Framework General Plan. Slope Stability: Low (1) to Moderate (2) Instability

**Present Zoning:** Agricultural Exclusive/Timber Production Zone (AE/TPZ)

**Assessor Parcel Number:** 033-271-007

**Case Number:** CUP-04-38MMMM, MON-16-002

**Application Number:** 9947

**Applicant**

Dr. Peter Huson  
Northern Nights Music Group, LLC  
Blap Productions  
226 Union Street, Ste 2  
San Rafael, CA, CA 94901

**Owner**

Duncan Ley  
Outraged Orangutan LLC  
2961 Mission Street  
San Francisco, CA 94110

**Agent**

**Environmental Review:** The original Environmental Impact Report (EIR) was adopted on May 14, 1992 (SCH# 92-033035). A Supplemental EIR was adopted on March 3, 2006. An additional Supplemental EIR was certified on May 2, 2008. An Addendum to the EIR has been prepared for the project.

**Major Issues:** None

**State Appeal Status:** Project is not located within the Coastal Zone.

**Modification to Conditional Use Permit for  
2016 Northern Nights Musical Festival Event and One-Day Concert**  
Case Number CUP-04-38MMMM, MON-16-002  
Assessor's Parcel Number 033-271-007

**RECOMMENDED COMMISSION ACTION:**

1. Describe the application as a part of the Consent Agenda
2. Call for public testimony regarding the agenda item.
3. If no one requests discussion, make the following motion to approve the application as a part of the Consent Agenda:

*Move to adopt the Addendum pursuant to Section 15164 of the State CEQA Guidelines and make all of the required findings for approval of the Conditional Use Permit Modification, based on evidence in the staff report, and approve the application on the Consent Agenda subject to the recommended conditions.*

**Executive Summary:**

This project involves a modification to Conditional Use Permit CUP-04-38MMM on County Line Ranch (APN 033-271-007) for the outdoor music and art event known as Northern Nights Music Festival (NNMF) on the third weekend of July 2016. The Northern Nights Music Festival is held on adjacent parcels in Mendocino County (APN 053-020-10, -11, -12,-13, -14 and -16). The applicant is currently approved for a 6,000 person three-day event by Mendocino County (CUP UM 2014-0011). The applicant proposes to modify CUP-04-38MMM in order to provide supplemental parking and camping to accommodate 2,000 attendees, 2,000 vehicles, food vendors, a silent disco and to provide site access for early arrivals on Thursday July 14, 2016. This year (2016) will be the fourth year the NNMF event will be held. Past events were largely confined to Mendocino County with parking and camping permitted on County Line Ranch. The applicant proposes to move the date of the one-day concert previously authorized for the last weekend in August to July 2<sup>nd</sup> or July 3<sup>rd</sup>, 2016, which is the Fourth of July holiday weekend and set the attendance of the one-day concert to 2,000 people. The one-day concert would allow attendees to enter the site beginning at 12pm and the event will take place between 5pm and 11:59pm. The attendees of the one day event will be allowed to camp at Cook's Valley Campground in Mendocino County. The term of the existing permit was set to expire in 2015 and this modification will extend the validity of the CUP for one additional year.

The applicant submitted a monitoring report for the 2015 event demonstrating continued compliance with conditions of approval. The attached monitoring report includes evidence of compliance in the areas of traffic, water quality and public safety. The project proponent and applicant is Northern Nights Music Group, LLC. The owner of record for County Line Ranch is Outraged Orangutan, LLC.

Previously, several rounds of Environmental review have been conducted. The original Environmental Impact Report (EIR) was prepared by Humboldt County and certified in 1992 (SCH 92-033035). A Supplemental EIR, prepared in association with project modifications, was certified on March 2, 2006. An additional Supplemental EIR was certified on May 2, 2008. An Addendum to the EIR was prepared in 2009, and an additional Addendum to the EIR was prepared for the 2014 and 2015 substantial conformance reviews. An addendum to the EIR has been prepared for this modification and is included as Attachment 5 of the staff report. The purpose of the addendum is to address the change in the date of the one-day concert, the earlier arrival date to the NNMF, and the addition of the silent disco and the food and craft vendors in Humboldt County. It has been concluded that the current project is within the scope

of the original project review and therefore should not result in new or significant environmental impacts.

**Staff Recommendations:** Based upon the on-site inspection, a review of Planning Division reference sources and a review of comments from all involved referral agencies, Planning staff believes that the applicant has submitted evidence in support of making all of the required findings for approving the Conditional Use Permit Modification.

**Alternatives:**

1. The Planning Commission could elect not to approve the project. This alternative should be implemented if the Commission is unable to make all of the required findings. Planning Division staff is confident that the required findings can be made. Consequently, planning staff does not recommend further consideration of this alternative.
2. The Planning Commission could elect to further clarify the Conditions of Approval. This alternative should be implemented if, based on public testimony or submission of additional evidence, the Commission feels further clarifications are appropriate.

**RESOLUTION OF THE PLANNING COMMISSION  
OF THE COUNTY OF HUMBOLDT  
Resolution Number 16-**

**Case Numbers CUP-04-38MMMM, MON-16-002  
Assessor's Parcel Number 033-271-007**

**Makes the required findings for certifying compliance with the California Environmental Quality Act and conditionally approves the Northern Nights Music Festival Conditional Use Permit Modification (CUP-04-38MMMM, MON-16-002).**

**WHEREAS**, Dr. Peter Huson of Blap Productions submitted an application and evidence in support of approving a Modification to Conditional Use Permit 04-38MMMM; and

**WHEREAS**, the applicant has submitted a Post Event Monitoring Report for 2015 demonstrating continued compliance with conditions of approval and mitigation measures; and

**WHEREAS**, the County Planning Division has reviewed the submitted application and evidence and has referred the application and evidence to involved reviewing agencies for site inspections, comments and recommendations; and

**WHEREAS**, the applicant is seeking to change the date of the one-day concert, allow early entry into the NNMF and locate food and craft vendors and a silent disco in Humboldt County; and

**WHEREAS**, on July 6, 2010, the Planning Commission adopted Resolution 10-23, which canceled the 2010 Reggae Rising event because the prior applicant (Dimmick Ranch LLC) failed to comply with required conditions of approval of the CUP; and

**WHEREAS**, if the applicant seeks to reinstate a full-scale multi-day event on the property they will be subject to demonstrating compliance with the terms in Resolution 10-23; and

**WHEREAS**, recommendations of approval of future multi-day events will be dependent on submittal of complete annual reports and proof of compliance with required conditions of approval and mitigation measures prior to selling tickets; and

**WHEREAS**, the approval of this project is subject to environmental review pursuant to the California Environmental Quality Act (CEQA); environmental review for the project was completed (SCH #92-033035) and an Addendum to the EIR has been prepared.

**NOW, THEREFORE**, be it resolved, determined, and ordered by the Planning Commission that:

1. The Planning Commission makes all of the findings included in Attachment 3 of the Planning Division staff report for Case Number CUP-0438MMMM, MON-16-002 based on the submitted evidence and subject to the project's existing conditions of approval.
2. The Planning Commission approves the proposed Addendum to the Supplemental EIR in Attachment 5 as required by Section 15074(b) of the CEQA Guidelines and finds that there is no substantial evidence that the proposed project will have a significant effect on the environment.

3. The Planning Commission conditionally approves the Modification to the Conditional Use Permit as recommended in the Planning Division staff report for Case Number CUP-04-38MMMM, MON-16-002.

Adopted after review and consideration of all the evidence on May 5, 2016.

The motion was made by Commissioner \_\_\_\_ and seconded by Commissioner \_\_\_\_.

AYES: Commissioners:

NOES: Commissioners:

ABSTAIN: Commissioners:

ABSENT: Commissioners:

DECISION:

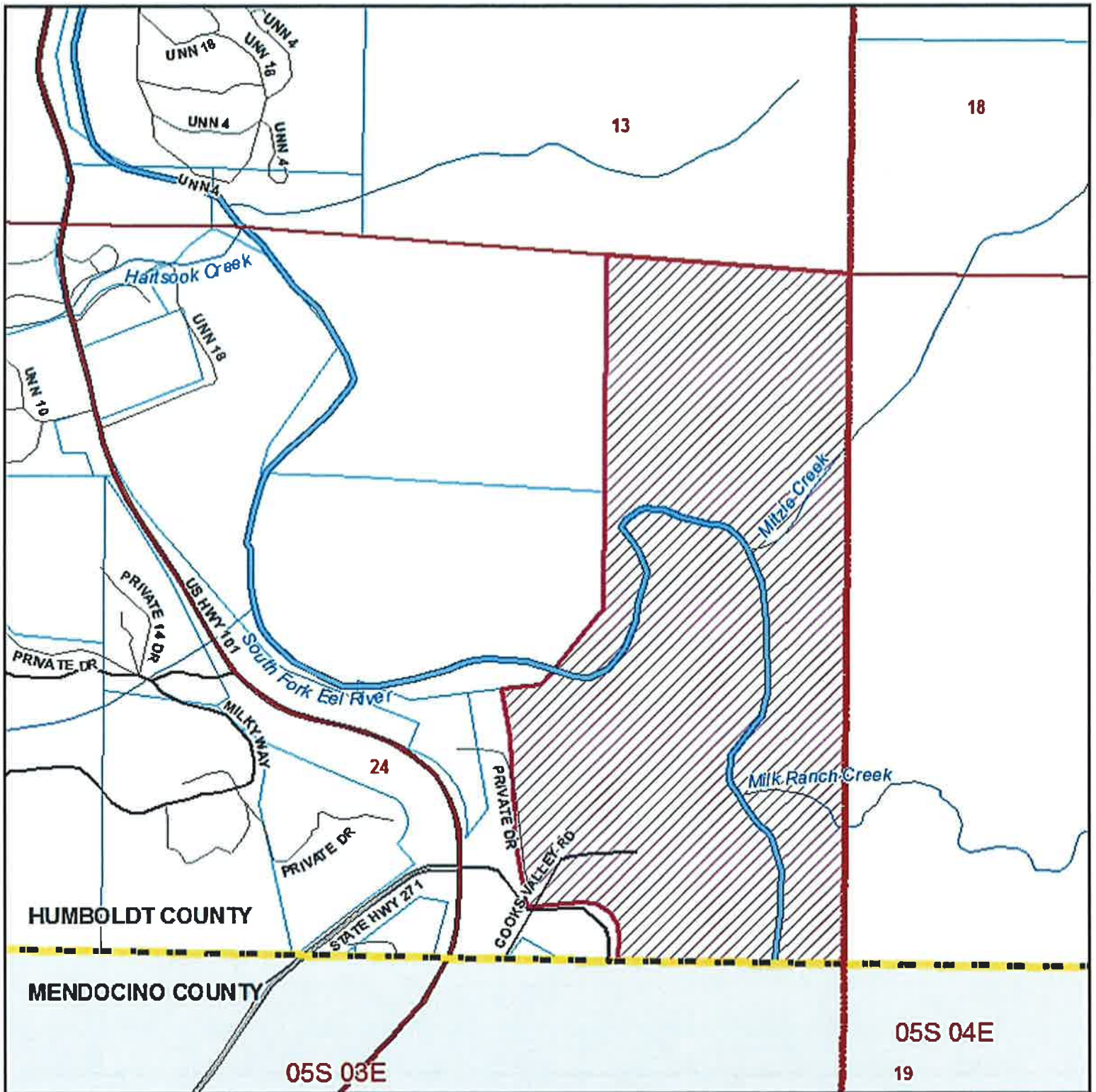
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Robert Morris, Chair

I, Suzanne Hegler, Clerk to the Planning Commission of the County of Humboldt, do hereby certify the foregoing to be a true and correct record of the action taken on the above entitled matter by said Commission at a meeting held on the date noted above.

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Suzanne Hegler, Clerk

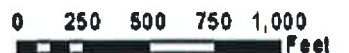


**LOCATION MAP**

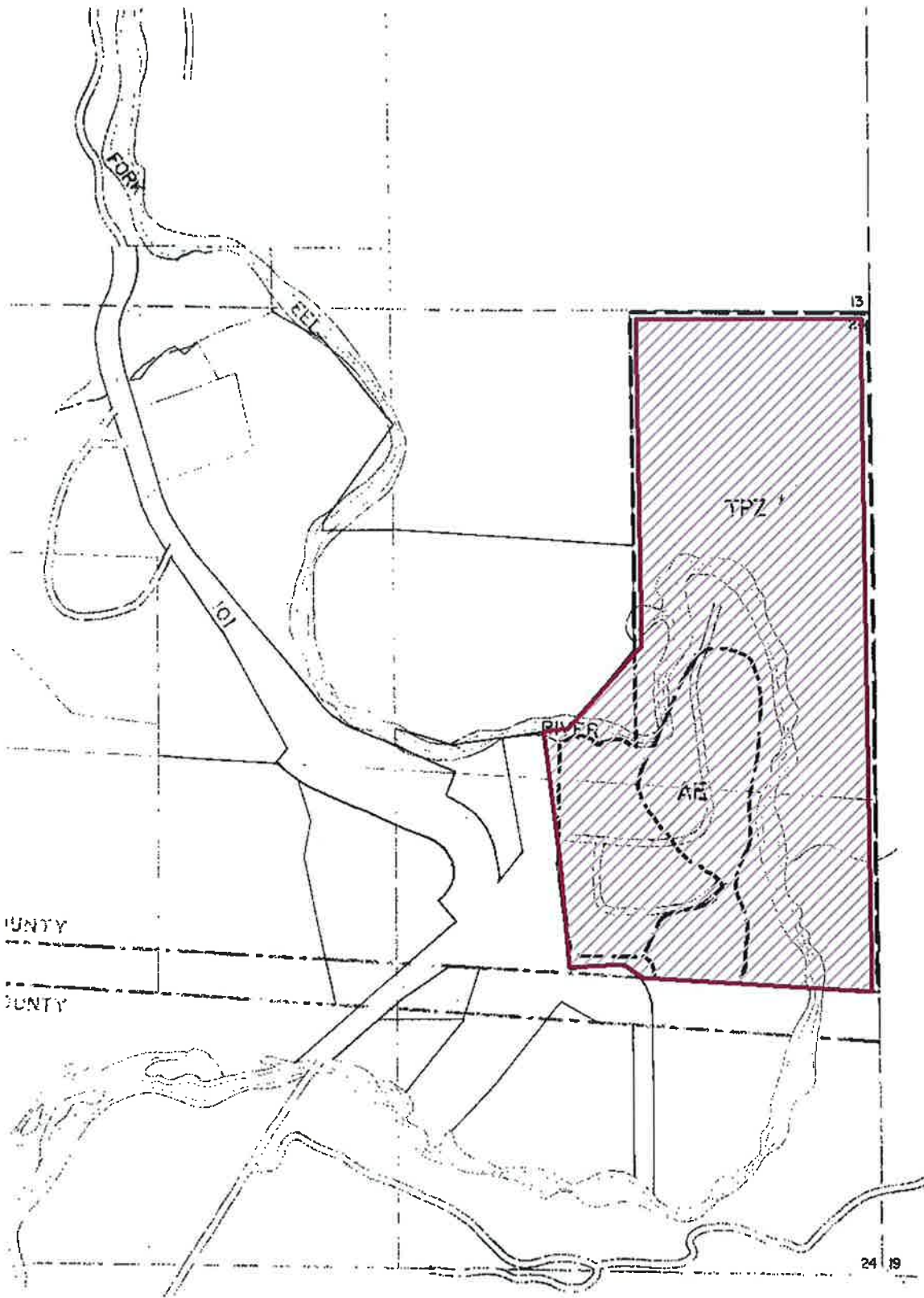
**PROPOSED NORTHERN NIGHTS MUSIC GROUP, LLC  
 CONDITIONAL USE PERMIT MODIFICATION  
 COOKS VALLEY AREA  
 CUP-04-38MMMM  
 APN: 033-271-007  
 T05S R03E S24 HB&M (Garberville)**

Project Area = 

This map is intended for display purposes and should not be used for precise measurement or navigation. Data has not been completely checked for accuracy.







**ZONING MAP**

**PROPOSED NORTHERN NIGHTS MUSIC GROUP, LLC  
 CONDITIONAL USE PERMIT MODIFICATION  
 COOKS VALLEY AREA  
 CUP-04-38MMMM  
 APN: 033-271-007  
 T05S R03E S24 HB&M (Garberville)**

PROJECT AREA = 

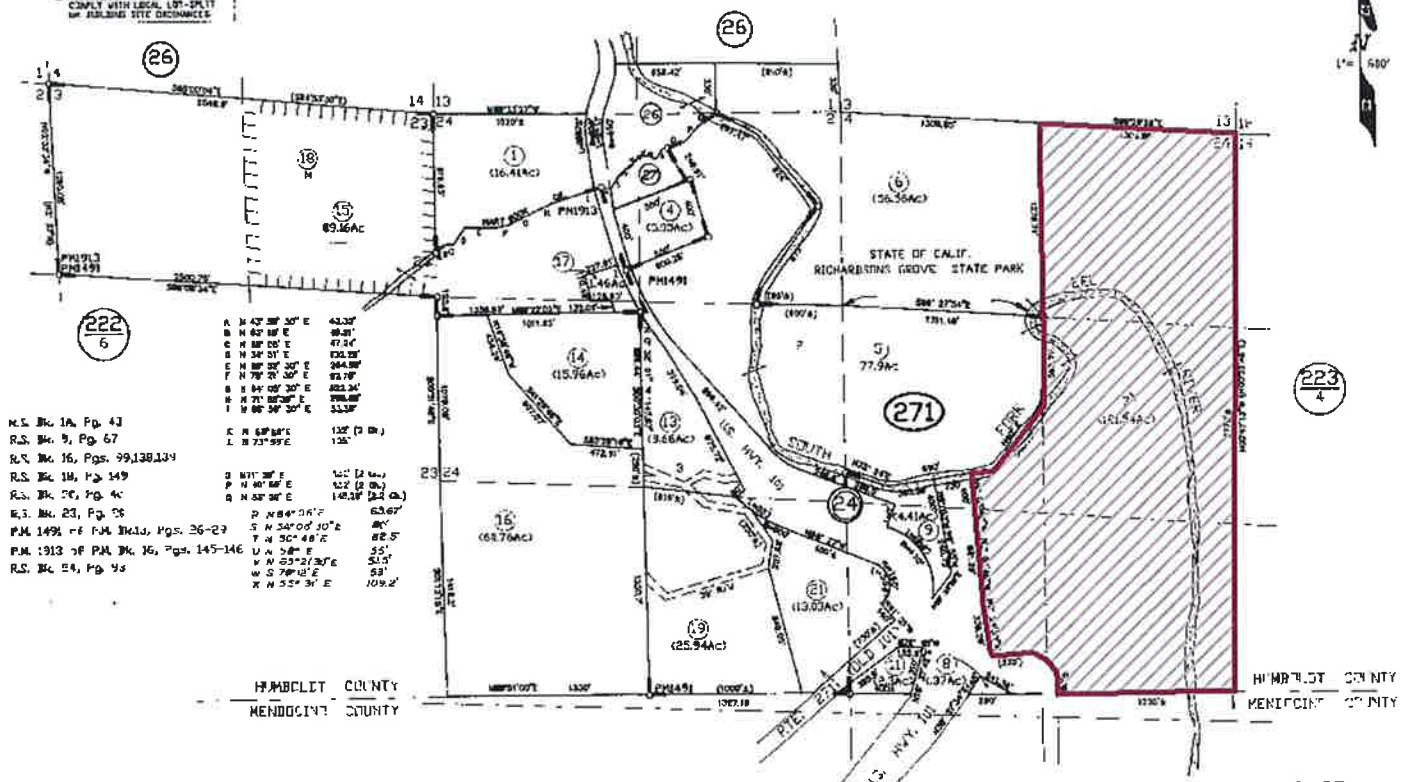


MAP NOT TO SCALE

SEC. 24 & N 1/2 OF NE 1/4 SEC.23, T.5S., R.3E. H.B. & M.

33-27

**ASSESSOR'S PARCEL MAP**  
 1. THIS MAP WAS PREPARED FOR  
 ASSESSMENT PURPOSES ONLY.  
 2. NO LIABILITY IS ASSURED FOR  
 THE ACCURACY OF THE DATA SHOWN.  
 3. ASSESSMENT PARCELS MAY NOT  
 COMPLY WITH LOCAL LOT-SPLIT  
 OR BUILDING SITE REQUIREMENTS.



- N.S. Bk. 1A, Pg. 43
- R.S. Bk. 9, Pg. 67
- R.C. Bk. 16, Pgs. 99,138,139
- R.S. Bk. 14, Pg. 149
- R.C. Bk. 20, Pg. 4
- R.S. Bk. 23, Pg. 25
- P.M. 1493 of P.M. Bk.13, Pgs. 26-27
- P.M. 1913 of P.M. Bk. 16, Pgs. 145-146
- R.S. Bk. 24, Pg. 34

|   |                 |                   |
|---|-----------------|-------------------|
| A | N 47° 28' 25" E | 42.20'            |
| B | N 62° 18' E     | 49.21'            |
| C | N 34° 31' E     | 52.28'            |
| D | N 89° 20' 30" E | 54.89'            |
| E | N 78° 21' 30" E | 59.78'            |
| F | S 84° 09' 30" E | 282.24'           |
| G | N 71° 10' 30" E | 794.89'           |
| H | N 88° 30' 30" E | 33.39'            |
| I | N 69° 30' E     | 120' (3 Bk.)      |
| J | N 73° 59' E     | 120'              |
| K | N 31° 20' E     | 120' (2 Bk.)      |
| L | N 30° 58' E     | 122' (2 Bk.)      |
| M | N 53° 30' E     | 142.28' (2.2 Bk.) |
| N | N 84° 20' E     | 63.67'            |
| O | N 34° 00' 10" E | 88'               |
| P | N 30° 48' E     | 82.5'             |
| Q | N 58° E         | 35'               |
| R | N 53° 21' 30" E | 51.5'             |
| S | W 79° 15' E     | 53'               |
| T | N 55° 31' E     | 109.2'            |

NOTE - Assessor's Block Numbers Shown in Ellipses  
 Assessor's Parcel Numbers Shown in Circles.

Assessor's Map Bk. 33, Pg. 27  
 County of Humboldt, CA.

PROJECT SITE =

**ASSESSOR PARCEL MAP**  
**PROPOSED NORTHERN NIGHTS MUSIC GROUP, LLC**  
**CONDITIONAL USE PERMIT MODIFICATION**  
**COOKS VALLEY AREA**  
**CUP-04-38MMMM**  
**APN: 033-271-007**  
**T05S R03E S24 HB&M (Garberville)**

MAP NOT TO SCALE



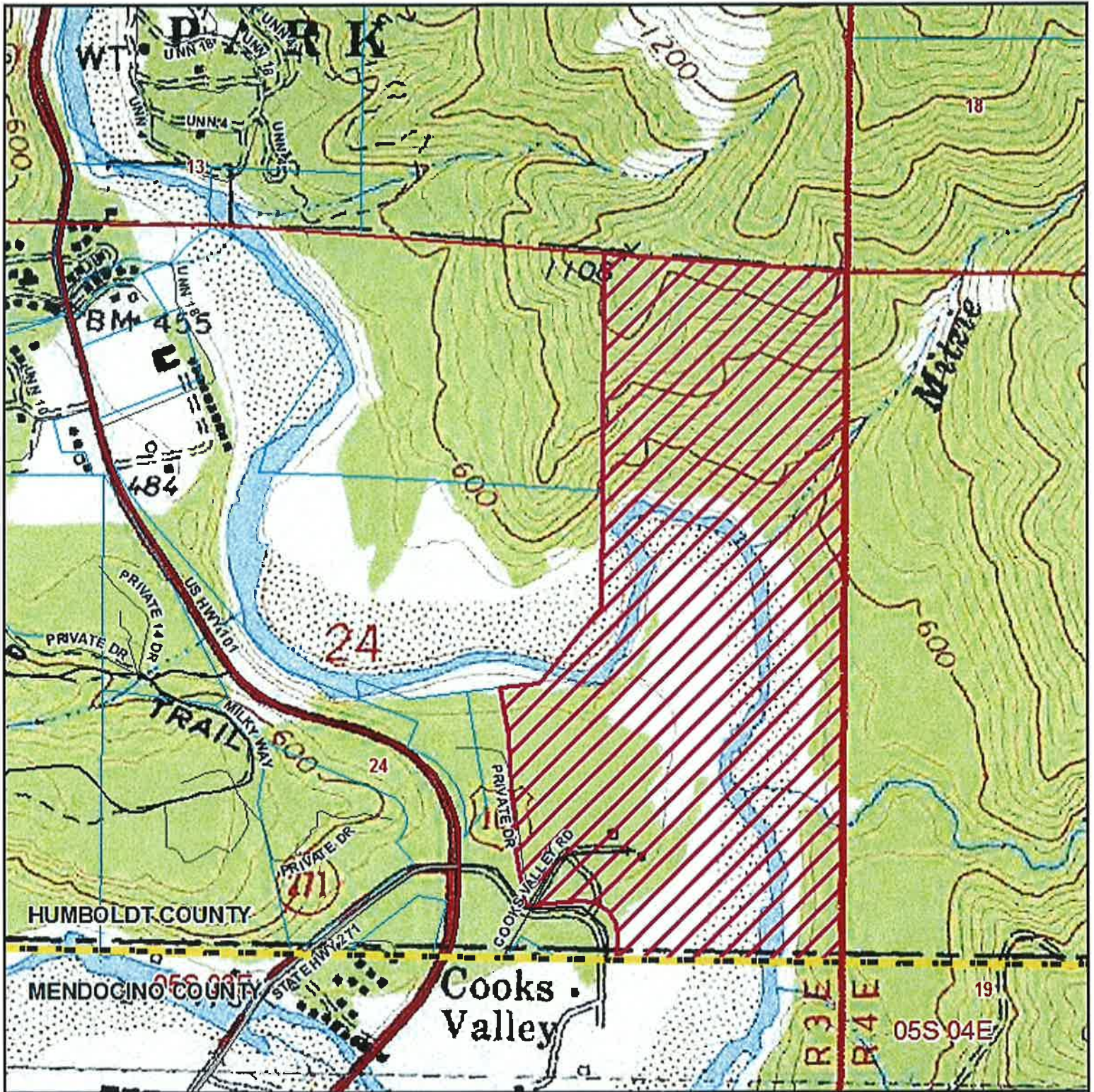
**AERIAL MAP**

**PROPOSED NORTHERN NIGHTS MUSIC GROUP, LLC  
 CONDITIONAL USE PERMIT MODIFICATION  
 COOKS VALLEY AREA  
 CUP-04-38MMMM  
 APN: 033-271-007  
 T05S R03E S24 HB&M (Garberville)**

**Project Area =** 

This map is intended for display purposes and should not be used for precise measurement or navigation. Data has not been completely checked for accuracy.





**TOPO MAP**

**PROPOSED NORTHERN NIGHTS MUSIC GROUP, LLC  
 CONDITIONAL USE PERMIT MODIFICATION  
 COOKS VALLEY AREA  
 CUP-04-38MMMM  
 APN: 033-271-007  
 T05S R03E S24 HB&M (Garberville)**

Project Area = 

This map is intended for display purposes and should not be used for precise measurement or navigation. Data has not been completely checked for accuracy.



## ATTACHMENT 1

### CONDITIONS OF APPROVAL FOR THE 2016 NORTHERN NIGHTS MUSIC FESTIVAL EVENT

Approval of the Modification to the Conditional Use Permit is conditioned on the same Conditions of Approval applied to CUP 04-38MMM, except as noted in Informational Notes 1 and 2.

#### A. Conditions of Approval

All of the Conditions of Approval applied under authorization of CUP-04-38MMM remain in full force and effect.

#### B. Informational Notes

The following Informational Notes have been added to the project Conditions to provide clarification on commitments made by the applicant and to clarify the relationship between the terms of the Modified Use Permit (CUP-04-38MMM) applicable to the current proposal.

1. The project shall be developed and conducted in accordance with the *Plan of Operations* submitted to Humboldt County by the current applicant. Where applicable, the project shall maintain conformance with the *Plan of Operations* submitted for the CUP-04-38MMM event, as referenced in Condition of Approval #1.
2. Because this project is specifically seeking the authorization of event parking and camping only, some of the conditions of approval of CUP-04-38MMM do not apply. These include the following numbered conditions: "4, 5, 6, 7, 8, 11, 13, 14, 15, 16 and 17."
3. Applicant is responsible for receiving all necessary permits and/or approvals from other state and local agencies. This includes compliance with the Department of Public Works Land Use Division's conditions of approval listed in their referral response and certification of the Neighborhood Traffic Management Plan by a licensed traffic engineer. Additionally, applicant is required to provide the Division of Environmental Health with sufficient information to demonstrate potable water will be provided to individuals at the Humboldt County campground area during the event.
4. Condition of Approval Number 10 states the requirements of the post event report. Because the current proposal is auxiliary support activities, not all requirements are applicable. Specifically, the following applies:
  - a. Provide an assessment of the effectiveness of the traffic plan, camping plan, vendor and silent disco venues and applicable mitigation measures.
  - b. Provide written correspondence from agencies participating in monitoring within Humboldt County and/or affected by parking and camping event activities (i.e. Planning Division, Division of Environmental Health, Sheriff's Office, California Highway Patrol, California Department of Transportation) Responses to all concerns and issues identified pertaining to parking and camping shall be provided, and appropriate measures to be undertaken at the following year's event as needed.

The post event report for Northern Nights Music Festival may be combined with the post event report for the one-day event.

5. The applicant shall coordinate with law enforcement personnel from the Humboldt and Mendocino County Sheriff's office(s). This includes providing financial compensation for services rendered during any oversight and management of the event. Failure to coordinate with local law enforcement may impact future permit approvals.
  
6. The water quality plan referenced in Condition of Approval Number 11 shall not apply for the 2016 event. Because the event largely occurs in Mendocino County, the approved use permit (#U 5-2013) includes a condition of approval that adequate water quality testing and analysis be conducted. Therefore, the applicant is not required to perform the additional testing as outlined in CUP-04-38-MMM. However, the applicant shall be required to expand the existing water quality testing program to the northernmost extent of County Line Ranch (APN 033-271-007) and include the results in the 2016 post event report submitted to Humboldt County.

## ATTACHMENT 2

### CONDITIONS OF APPROVAL FOR THE 2016 ONE DAY CONCERT EVENT

Approval of the 2016 Event is conditioned on the same Conditions of Approval applied to CUP-04-38MMM, except as noted in Informational Notes 1-3.

#### A. Conditions of Approval

All of the Conditions of Approval applied under authorization of CUP-04-38MMM remain in full force and effect.

#### B. Informational Notes

*The following Informational Notes have been added to the project Conditions to provide clarification on commitments made by the applicant and to clarify the relationship between the terms of the Modified Use Permit (CUP-04-38MMMM) applicable to the current proposal.*

1. The project shall be developed and conducted in accordance with the *Plan of Operations* submitted to Humboldt County by the current applicant. Where applicable, the project shall maintain conformance with the *Plan of Operations* submitted for the CUP-04-38MMM event, as referenced in Condition of Approval Number 1.
2. Condition of Approval Number 2 references a Memo submitted in 2009 by the Division of Environmental Health. Because this Condition was addressed in 2009, the current applicant is responsible for ensuring wastewater is stored and disposed of in a way that meets current Environmental Health standards. Applicant shall address this in the post-event report. Additionally, applicant is required to provide the Division of Environmental Health with sufficient information to demonstrate potable water will be provided to individuals at the Humboldt County campground area during the event.
3. Condition of Approval Number 8 references a Memo submitted in 2009 from Calfire. Because this Condition was addressed in 2009, the current applicant is responsible for ensuring current Calfire standards are met.
4. The water quality plan referenced in Condition of Approval Number 5 does not apply. Based on the annual report from the 2008 one-day event, a water quality test was not conducted as it was determined to be unnecessary. Because the event took place in the evening, patrons did not swim in the river. The same is expected for the 2016 event with the concert beginning at 5pm. Additionally, access will not be provided to attendees for recreational activities in the river and vehicles will not be parked in close proximity to the river bar. However, the post event report will need to include a discussion of whether impacts to water quality may have resulted despite these efforts.
5. Condition of Approval 14 reference the one-day event on the last weekend of August until the year 2015 for up to 5,000 attendees. This modification changes the one-day event to the first weekend in July, extends the permit until 2016 and limits attendance including all staff, volunteers and performers to 2,000 people.

## ATTACHMENT 3

### STAFF ANALYSIS OF THE EVIDENCE SUPPORTING THE REQUIRED FINDINGS

**Required Findings:** To approve this project, the Hearing Officer must determine that the applicant has submitted evidence in support of making **all** of the following required findings.

The Zoning Ordinance, Section 312-17.1 of the Humboldt County Code (Required Findings for All Discretionary Permits) specifies the findings that are required to grant a Conditional Use Permit:

1. The proposed development is in conformance with the County General Plan;
2. The proposed development is consistent with the purposes of the existing zone in which the site is located;
3. The proposed development conforms with all applicable standards and requirements of these regulations; and
4. The proposed development and conditions under which it may be operated or maintained will not be detrimental to the public health, safety, or welfare; or materially injurious to property or improvements in the vicinity.
5. The proposed development does not reduce the residential density for any parcel below that utilized by the Department of Housing and Community Development in determining compliance with housing element law (the mid-point of the density range specified in the plan designation) unless the following written findings are made supported by substantial evidence: 1) the reduction is consistent with the adopted general plan including the housing element; and 2) the remaining sites identified in the housing element are adequate to accommodate the County share of the regional housing need; and 3) the property contains insurmountable physical or environmental limitations and clustering of residential units on the developable portions of the site has been maximized.
6. In addition, the California Environmental Quality Act (CEQA) states that one of the following findings must be made prior to approval of any development which is subject to the regulations of CEQA. The project either:
  - a. Is categorically or statutorily exempt; or
  - b. Has no substantial evidence that the project will have a significant effect on the environment and a negative declaration has been prepared; or
  - c. Has had an environmental impact report (EIR) prepared and all significant environmental effects have been eliminated or substantially lessened, or the required findings in Section 15091 of the CEQA Guidelines have been made.

**1. General Plan Consistency.** The following table identifies the evidence which supports finding that the proposed project is in conformance with all applicable policies and standards in found in the Humboldt County Framework General Plan (FW).



| Plan Section(s)                           | Summary of Applicable Goal, Policy or Standard  | Evidence Which Supports Making the General Plan Conformance Finding  |
|---|---|--|
| Timber Lands §2523.1D (FRWK)              | To allow development of uneconomic or marginally viable agricultural lands.   | Site is located within the 100-year flood plain of the Eel River, surrounded by steep terrain with marginal productive soils and limited grazing potential. No portions of the site require grading or vegetation removal. The site will be cleaned after the event, and during most of the year is available for agricultural use.  |
| Land Use §2721 (FRWK) – Timber Production | Primary and compatible uses include Recreational uses under the control of the owner which will not significantly detract from or inhibit timber or agricultural production on the project site or adjoining lands. | The only parcel within Humboldt County where project activities will occur is on APN 033-271-007, which has a "Timber Production" (T) land use designation. Development of a recreational concert venue, including associated parking, camping and infrastructure, is consistent with the identified character and intended compatible uses in the T land use designation. The site is cleaned after each event, and during most of the year (October – June), the site is not being used for concert events, and is available for agricultural use. |
| Flood Hazard, §3291.3 (FRWK)              | Agricultural lands in floodplains shall be retained for agricultural uses.  | Soils and slope are marginal for cropping, grazing or timber production (see FRWK §2523.1D, above). The project is a temporary use of the floodplain area for approximately 5 days, with no structural coverage. The current proposal does not preclude agricultural use during remainder of the year.   |
| Fire Hazard, §3291.4 (FRWK)               | Implementation of recognized fire protection practices.   | The project site has a "high" fire hazard rating according to the General Plan Flooding and Fire Hazard Map. The applicant has provided an Emergency Response plan in the <i>Plan of Operations</i> for both the Northern Nights Music Festival (NNMF) and One-Day Event. In addition, Piercy Volunteer Fire Department will supervise on site fire safety support during both events.   |

| Plan Section(s)              | Summary of Applicable Goal, Policy or Standard  | Evidence Which Supports Making the General Plan Conformance Finding  |
|------------------------------|---|--|
| Noise Hazard, §3291.5 (FRWK) | Identify and evaluate potential noise problem areas.  | No amplified music is permitted or proposed to occur for the auxiliary activities in association with NNMF. However, the one-day event will include amplified music beginning at 5:00 pm and ending at 11:59 pm. Exposure to attendees is voluntary and not at severe levels. The orientation of the performance staging and speakers direct the amplified music away from Highway 101. Additionally, surrounding landforms (steep cliffs) serve to buffer and attenuate noise exposure off-site, and significant ambient noise levels pre-exist from the traffic on US 101.   |
| Solid Waste, §3291.8 (FRWK)  | Provide for healthy, safe, economical waste disposal systems; minimize environmental impact of waste handling and disposal. | <p>The NNMF site plan has identified waste and sanitary facilities that will be located in parking and camping areas. Waste will be sorted and otherwise managed at Cook's Valley Campground in accordance with the approved Mendocino County Conditional Use Permit.</p> <p>The One Day Event will have a minimum of one portable toilet for every 40-50 patrons, which will be located throughout the event area and will include handwashing stations. Additionally, waste disposal facilities will be provided throughout the event area and will be monitored by a "Green Crew" to ensure disposal facilities are properly emptied and recyclables are properly sorted.</p> <p>For both events, wastewater will be stored in tanks and hauled to an appropriate waste water facility.</p> |

| Plan Section(s)                               | Summary of Applicable Goal, Policy or Standard   | Evidence Which Supports Making the General Plan Conformance Finding   |
|---|--|---|
| Water Resources, §3361 (FRWK)                 | Regulate development that would pollute watershed areas; ensure projects located within state-designated wild, scenic, or recreational river basins are consistent with Wild and Scenic Rivers Act guidelines. | Both site plans are designed to avoid potential sources of water pollution before they enter the river. Conditions of existing use permit approval require cars to be 100 feet setback from the daily high water flow of the river. Furthermore, based on the plan of operations for both events, no parking will be allowed on the river bar. In addition to parking regulation, waste disposal and sanitary facilities will be placed throughout event sites in order to prevent inappropriate disposal of all forms of waste. Waste will then be appropriately sorted and disposed of. In addition, outreach will be conducted prior to and during the event to encourage attendees to minimize their environmental impacts on the surrounding area, including protection of water quality. Finally, the applicants have committed to restoring the sites to pre-site condition following the events. With all of these measures in place, the project should not impede or prevent the recreational enjoyment of this segment of the Eel River. |
| Sensitive and Critical Habitats, §3420 (FRWK) | To protect designated sensitive habitats and cultural resources.   | The subject parcel is located along the South Fork - Eel River and adjacent to the Humboldt Redwoods State Park. Site visits from previously approved events under CUP-04-38 by staff, State Parks, California Department of Fish and Wildlife, United States Fish & Wildlife Service, and United States Army Corps of Engineers biologists and ecologists indicated that, provided the event is conducted in accordance with the provisions within the <i>Plan of Operation</i> and approved site plans, no significant impacts to biological resources will occur as a result of this project. The proposed use is limited to auxiliary activities in support of the NNMF event, and a one-day event with 2,000 attendees. Based on the limited scope of this project in comparison to past approvals, no new impacts are anticipated.  |

| <b>Plan Section(s)</b>                                | <b>Summary of Applicable Goal, Policy or Standard</b> | <b>Evidence Which Supports Making the General Plan Conformance Finding</b>  |
|---|---|---|
| Historical and Archaeological Resources, §3510 (FRWK) | Protection of cultural resources.                     | The site is located along and adjacent to the Eel River floodplain where historical resources have been subject to past inundation scouring, and/or depositional coverage. Based on past review, it has been determined that there was a low possibility of historical resources, and further studies were not recommended. The project involves no grading, construction or other development that would disturb cultural resources. |

**2. The proposed development is consistent with the purposes of the existing zone in which the site is located; and 3. The proposed development conforms to all applicable standards and requirements of these regulations.** The following table identifies the evidence which supports finding that the proposed development is in conformance with all applicable policies and standards in the Humboldt County Zoning Regulations.

| Relevant Zoning Section(s)   | Summary of Applicable Requirement   | Summary of Evidence  |
|--|---|--|
| AE Zone, HCC §314-7.1; TPZ Zone HCC §314-7.2, Assemblages of Persons and Vehicles, HCC §314-62.1 | Assemblages of persons and vehicles are allowed in any zone provided a Conditional Use Permit is secured and the use is consistent with the General Plan. | The project application requests a modification to Conditional Use Permit 04-38-MMM for activities in support of the NNMF, and a one-day event with 2,000 attendees.   |
| Off-Street Parking Requirements, HCC §314-109  | Prescriptive requirements for the number, size and location of off-street parking spaces based upon building site footage and/or occupation.              | <p>Based on a review of the entire scope of NNMF, which includes activities in Mendocino County, parking has been calculated to accommodate one car per every two people. The same ratio is used for the one-day event.</p> <p>If considering solely activities in Humboldt County, parking has been calculated to accommodate one car for every person during NNMF. This is based on the fact that the applicant is requesting parking for 2,000 persons and camping for 2,000 persons.</p> <p>Because the EIR calculated parking demand as one car per every 3.5 people, the project can be considered to provide ample parking for both NNMF and the one-day event. However, ultimate determination of adequacy of the required spaces provided for NNMF remains the responsibility of Mendocino County, who has assumed the role of lead agency in the permitting of the NNMF event.</p> |

**4. Public Health, Safety and Welfare:** The following table identifies the evidence which supports finding that the proposed location of the use and conditions under which it may be operated or maintained will not be detrimental to the public health, safety or welfare, or materially injurious to properties or improvements in the vicinity.

| Code Section                              | Summary of Applicable Requirements  | Evidence that Supports the Required Finding   |
|---|---|---|
| Public Health, Safety and Welfare §312-17 | The proposed development will not be detrimental to the public health, safety and welfare, or materially injurious to properties or improvements in the vicinity. | All of the reviewing referral agencies who provided a response have recommended approval or conditional approval of the substantial conformance review request. The California Highway Patrol has specified that they are entering into a reimbursement contract for services during both events. The proposed use is consistent with the type of development in the area, and is consistent with the range of uses allowed under the general plan for this area. Coordination with local law enforcement is essential to holding a safe and successful event of this magnitude. The majority of the NNMF event will be conducted within the jurisdiction of Mendocino County, and as such will be within the jurisdiction of the Mendocino County Sheriff's Office. Additionally, the Humboldt County Sheriff's Office will provide necessary services which will be compensated for by the applicant. The Plan of Operation and post event report for the 2015 event both refer to positive feedback received from Mendocino County Law Enforcement and Garberville Highway Patrol. Piercy Volunteer Fire Department has approved the currently proposed project. Since these agencies will once again provide the primary support for fire, policing, and traffic control matters, staff believes that there is no evidence before the Department that the proposed use of the property under CUP-04-38MMMM will be detrimental to the public health, safety or welfare. |

**5. Impact on Residential Density Target:** The following table identifies the evidence which supports finding that the proposed project will not reduce the residential density for any parcel below that utilized by the Department of Housing and Community Development in determining compliance with housing element law.

| Code Section                               | Summary of Applicable Requirement   | Evidence that Supports the Required Finding   |
|--|---|---|
| 312-17.1.5<br>Housing Element<br>Densities | The proposed development does not reduce the residential density for any parcel below that utilized by the Department of Housing and Community Development in determining compliance with housing element law (the mid point of the density range specified in the plan designation), except where: 1) the reduction is consistent with the adopted general plan including the housing element; and 2) the remaining sites identified in the housing element are adequate to accommodate the County share of the regional housing need; and 3) the property contains insurmountable physical or environmental limitations and clustering of residential units on the developable portions of the site has been maximized. | The proposed use will have no impact on the residential density target. The County Line Ranch property is zoned Agricultural Exclusive (AE) and Timberland Production Zone (TPZ) and is already occupied by an existing residence that will remain in use. Therefore, the project will not reduce the residential density for the parcel below that utilized by the Department of Housing and Community Development in determining compliance with housing element law. |

## 6. Environmental Impact

Section 15164 of the CEQA Guidelines allows addendums to be used in lieu of a supplemental or subsequent EIR if some changes or additions are necessary but none of the conditions described in Section 15162 calling for preparation of a subsequent EIR have occurred. A subsequent EIR, in accordance with Section 15162 of CEQA, was not required for this project. The proposed project does not require any substantial revisions to the previous EIR as the proposed use for this project has considerably less environmental impacts than previous uses. The only information that has changed for this project is the change in the date of the one-day concert, the earlier arrival date to the NNMF, and addition of silent disco and food and craft vendors in Humboldt County. There are no substantial changes occurring with respect to the circumstances under which the project was undertaken. There is no substantial increase in the severity of previously identified significant effects. Additionally, there is no new information of substantial importance, which was not known at the time and could not have been known with the exercise of reasonable diligence that would require a new or additional environmental review. The mitigation measures for the previously approved EIR are still applicable for this project and would continue to substantially reduce one or more significant effects on the environment. An Addendum has been prepared for the project and is included as Attachment 5. A CD has been included as Attachment 6, which includes digital copies of the original Environmental Impact Report and Supplemental (SCH# 92-033035), prepared for the music festival and in association with subsequent modifications.

**ATTACHMENT 4**

**APPLICANT'S EVIDENCE IN SUPPORT OF THE REQUIRED FINDINGS**

**CUP-04-38MMMM Modification Request for Use of County Line Ranch for NNMF on the Weekend of July 14-17, 2016 and for a One-Day Concert on July 2<sup>nd</sup> or July 3<sup>rd</sup>, 2016**

**Appendix A: 2015 Post Event Annual Report Prepared for Humboldt County**

**Appendix B: 2016 Humboldt County Plan of Operation for NNMF and One Day Event**





**Northern Nights Music Festival  
Post Event Report  
CUP 04-38MMM/MON 15-002  
County Line Ranch, Humboldt County**

Northern Nights Music Group  
November 14, 2015

## Summary

Northern Nights Music Festival took place on July 17<sup>th</sup>, 18<sup>th</sup> & 19<sup>th</sup>, 2015 in Piercy, CA on the Mendocino/Humboldt County Line. Conditional Use Permit UM 2014-0011 was granted by Mendocino County for an event of 5,000 attendees and vehicles on two properties – Cook’s Valley Campground in Mendocino and County Line Ranch in Humboldt County. Auxiliary uses for 2,000 attendees and 2,000 vehicles On County Line Ranch were approved by Humboldt County through use permit CUP 04-38MMM/MON 15-002.

The following addresses the Conditions of Approval and Information Notes:

- 1.** The project was developed and conducted in accordance with the Plan of Operations submitted to Humboldt County.
- 2.** The following address the conditions of approval from CUP-04-38MMM that applied:
  - a. **COA #1** The project was developed and conducted in accordance with the Plan of Operations.
  - b. **COA #9** The applicants did that ensure that fire lanes are kept clear to allow for the passage of emergency vehicles throughout the event.
  - c. **COA #10** The applicant did not provide letters from the Army Corps of Engineers and the California Department of Fish and Game stating permission has been given to place a temporary bridge across the Eel River because no bridge was proposed or used.
  - d. **COA #12** All disturbed areas were stabilized and reseeded by October 15th to prevent excess soil erosion.
- 3.** All permits necessary permits and approvals from other state and local agencies were received.
  - a. Exhibit A – DHHS/DEH COA, Water Supply and Distribution Plan Post Event Summary
  - b. Exhibit B– DFW COA and Avian Study
  - c. Exhibit C – Planning Division Monitoring Report



**4.** Traffic and camping plans proved to be very effective during the event. Ingress and egress went smoothly, there was ample parking throughout the event and fire lanes were kept clear. Vehicles with any leaks were directed to parking areas away from the river. In anticipation of an increase in attendance in future years, the Northern Nights processing/box office team will be fully staffed one hour before opening of gates.

- a. Exhibit D - Encroachment Permit from Caltrans
- b. Exhibit E - Non-Opposition Letter from CHP

*I'm glad your event went smoothly from your end, and it was the same on our end. I appreciate the good working relationship we have with you and your staff ... you and your staff have proven that you can handle events like this."*

**- Commander Brett Fabbri, California Highway Patrol**

- c. Exhibit F - Non-Opposition Letter from MCSO

*"You and your staff have really done a great job with this event."*

**- Sergeant James Schnitzius, Mendocino County Sheriff Office**

**5.** The project was discussed and coordinated with both Mendocino and Humboldt Counties. Due to the project primarily being held in Mendocino County, and after discussion with HCSO, it was concluded that only MCSO would be required on site during the event.

**6.** Water quality testing results can be found Exhibit G.

Supplemental information:

- Exhibit H - Letter of Support from John Porter of Benbow Inn
- Exhibit I - Economic Impact Report



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**Northern Nights Music Festival  
2015 Potable Water Plan Post Event Summary  
County Line Ranch, Humboldt County**

**Potable Water System Monitoring Results  
Northern Nights Music Festival 2015  
County Line Ranch, Humboldt County**

This document summarizes water system details and performance as well as water quality monitoring results on County Line Ranch during the 2015 Northern Nights Music Festival 2015.

County Line Ranch is located just north of the Mendocino County line, approximately eight miles south of Garberville. The property provided auxiliary camping for up to 2000 attendees during the festival. U.S Pure Water (USPW) provided consulting and water station rental services during the event. USPW works with music festivals, private households, businesses and public agencies to provide potable water through cutting edge water system design.

On May 14, 2015 water samples were taken from the County Line Ranch well and sent to National Testing Laboratories for quality testing.

A Potable Water Plan along with the water quality results were shared with David Spinosa of Humboldt County Environmental Health on June 2015.

On July 2, 2015 the following correspondence was received from Kevin Metcalfe , Supervisor of Humboldt DHHS Public Health.

*Peter and Dave, I have reviewed the above proposal for the water supply and water treatment system. Since this is not a public water system, requirements such as continuous disinfection with a disinfectant that provides a residual throughout the distribution system does not apply. The operator is not required by law to meet the Safe Drinking Water Act, but should meet is as closely as possible within reason. My comments on the project are below:*

*7/2/15 this is an "event" water system that is not a public water supply. The applicant has proposed point of use treatment systems with cartridge filters and UV light for disinfection. The proposal is acceptable for the proposed use. The applicant will need to ensure that the equipment is installed and maintained in accordance with the manufacturer's specifications. Water samples that represent water supplied to the consumers and the effectiveness of the treatment systems shall be tested and provided to Environmental Health prior to and post the event. KMetcalfe*

*Other requirements or comments on similar projects would apply such as:*

- *Operation by a certified water treatment operator*
- *Provide a procedure manual for operation and maintenance of the system including maintenance of the UV light devices and replacement of the cartridge filters*
- *Provide a post event report with 90 days of the event(s) including the bacteriological water quality monitoring, populations served and amount of water consumed*

- *Provide an emergency plan for incidents such as failed tests, water outages, breaks in supply lines, etc.*

*Our comments, recommendations or requirements may change as use or conditions change.*

*Please let me know if you have any questions. Thank you for your interest in providing a safe water supply.*

*Kevin*

The remainder of this document provides water quality monitoring results, the event water system operation manual and emergency protocol.

# Water Quality Monitoring Results



# Informational Water Quality Report

## Watercheck w/PO

**Client:**

Oliver Kanner/Northern Nights Music Festival  
PO Box 1000  
Arcata, CA 95518

**Ordered By:**

US Pure Water Corp  
20 Galli Dr Ste E  
Novato, CA 94949  
ATTN: Michael Davis



*Quality Water Analysis*

6571 Wilson Mills Rd  
Cleveland, Ohio 44143  
1-800-458-3330

Sample Number: 854199

Location: County Line - Humboldt County

Type of Water: Well Water

Collection Date and Time: 5/14/2015 13:30

Received Date and Time: 5/15/2015 09:55

Date Completed: 5/27/2015

### Definition and Legend

This informational water quality report compares the actual test result to national standards as defined in the EPA's Primary and Secondary Drinking Water Regulations.

**Primary Standards:** Are expressed as the maximum contaminant level (MCL) which is the highest level of contaminant that is allowed in drinking water. MCLs are enforceable standards.

**Secondary standards:** Are non-enforceable guidelines regulating contaminants that may cause cosmetic effects (such as skin or tooth discoloration) or aesthetic effects (such as taste, odor, or color) in drinking water. Individual states may choose to adopt them as enforceable standards.

**Action levels:** Are defined in treatment techniques which are required processes intended to reduce the level of a contaminant in drinking water.

mg/L (ppm): Unless otherwise indicated, results and standards are expressed as an amount in milligrams per liter or parts per million.


Minimum Detection Level (MDL): The lowest level that the laboratory can detect a contaminant.

ND: The contaminant was not detected above the minimum detection level.


NA: The contaminant was not analyzed.


























 The contaminant was not detected in the sample above the minimum detection level.

 The contaminant was detected at or above the minimum detection level, but not above the referenced standard.

 The contaminant was detected above the standard, which is not an EPA enforceable MCL.

 The contaminant was detected above the EPA enforceable MCL.

 These results may be invalid.

| Status  | Contaminant                 | Results  | Units | National Standards | Min. Detection Level   |
|---|-----------------------------|--|-------|--------------------|------------------------|
| <b>Microbiologicals</b>   |                             |  |       |                    |                        |
|    | Total Coliform by P/A       | Total coliform was Present in this sample and E. coli bacteria was ABSENT. |       |                    |                        |
| <b>Inorganic Analytes - Metals</b>  |                             |  |       |                    |                        |
|    | Aluminum                    | ND   | mg/L  | 0.2                | EPA Secondary 0.1      |
|    | Arsenic                     | ND   | mg/L  | 0.010              | EPA Primary 0.005      |
|    | Barium                      | ND   | mg/L  | 2                  | EPA Primary 0.30       |
|    | Cadmium                     | ND   | mg/L  | 0.005              | EPA Primary 0.002      |
|    | Calcium                     | 25.1   | mg/L  | --                 | 2.0                    |
|    | Chromium                    | ND   | mg/L  | 0.1                | EPA Primary 0.010      |
|    | Copper                      | 0.006  | mg/L  | 1.3                | EPA Action Level 0.004 |
|    | Iron                        | ND   | mg/L  | 0.3                | EPA Secondary 0.020    |
|    | Lead                        | 0.008  | mg/L  | 0.015              | EPA Action Level 0.002 |
|    | Lithium                     | 0.003  | mg/L  | --                 | 0.001                  |
|  | Magnesium                   | 20.46  | mg/L  | --                 | 0.10                   |
|  | Manganese                   | ND   | mg/L  | 0.05               | EPA Secondary 0.004    |
|  | Mercury                     | ND   | mg/L  | 0.002              | EPA Primary 0.001      |
|  | Nickel                      | ND   | mg/L  | --                 | 0.020                  |
|  | Potassium                   | ND   | mg/L  | --                 | 1.0                    |
|  | Selenium                    | ND   | mg/L  | 0.05               | EPA Primary 0.020      |
|  | Silica                      | 21.0   | mg/L  | --                 | 0.1                    |
|  | Silver                      | ND   | mg/L  | 0.100              | EPA Secondary 0.002    |
|  | Sodium                      | 6  | mg/L  | --                 | 1                      |
|  | Strontium                   | 0.154  | mg/L  | --                 | 0.001                  |
|  | Uranium                     | ND   | mg/L  | 0.030              | EPA Primary 0.001      |
|  | Zinc                        | 0.027  | mg/L  | 5                  | EPA Secondary 0.004    |
| <b>Physical Factors</b>   |                             |  |       |                    |                        |
|  | Alkalinity (Total as CaCO3) | 140  | mg/L  | --                 | 20                     |
|  | Hardness                    | 150  | mg/L  | 100                | NTL Internal 10        |

| Status                             | Contaminant               | Results | Units    | National Standards |                  | Min. Detection Level |
|------------------------------------|---------------------------|---------|----------|--------------------|------------------|----------------------|
| ✓                                  | pH                        | 6.7     | pH Units | 6.5 to 8.5         | EPA Secondary    |                      |
| ●                                  | Total Dissolved Solids    | 170     | mg/L     | 500                | EPA Secondary    | 20                   |
| ●                                  | Turbidity                 | 0.2     | NTU      | 1.0                | EPA Action Level | 0.1                  |
| Inorganic Analytes - Other         |                           |         |          |                    |                  |                      |
| ✓                                  | Bromide                   | ND      | mg/L     | --                 |                  | 0.5                  |
| ✓                                  | Chloride                  | ND      | mg/L     | 250                | EPA Secondary    | 5.0                  |
| ✓                                  | Fluoride                  | ND      | mg/L     | 4.0                | EPA Primary      | 0.5                  |
| ✓                                  | Nitrate as N              | ND      | mg/L     | 10                 | EPA Primary      | 0.5                  |
| ✓                                  | Nitrite as N              | ND      | mg/L     | 1                  | EPA Primary      | 0.5                  |
| ✓                                  | Ortho Phosphate           | ND      | mg/L     | --                 |                  | 2.0                  |
| ●                                  | Sulfate                   | 8.9     | mg/L     | 250                | EPA Secondary    | 5.0                  |
| Organic Analytes - Trihalomethanes |                           |         |          |                    |                  |                      |
| ✓                                  | Bromodichloromethane      | ND      | mg/L     | --                 |                  | 0.002                |
| ✓                                  | Bromoform                 | ND      | mg/L     | --                 |                  | 0.004                |
| ✓                                  | Chloroform                | ND      | mg/L     | --                 |                  | 0.002                |
| ✓                                  | Dibromochloromethane      | ND      | mg/L     | --                 |                  | 0.004                |
| ✓                                  | Total THMs                | ND      | mg/L     | 0.080              | EPA Primary      | 0.002                |
| Organic Analytes - Volatiles       |                           |         |          |                    |                  |                      |
| ✓                                  | 1,1,1,2-Tetrachloroethane | ND      | mg/L     | --                 |                  | 0.002                |
| ✓                                  | 1,1,1-Trichloroethane     | ND      | mg/L     | 0.2                | EPA Primary      | 0.001                |
| ✓                                  | 1,1,2,2-Tetrachloroethane | ND      | mg/L     | --                 |                  | 0.002                |
| ✓                                  | 1,1,2-Trichloroethane     | ND      | mg/L     | 0.005              | EPA Primary      | 0.002                |
| ✓                                  | 1,1-Dichloroethane        | ND      | mg/L     | --                 |                  | 0.002                |
| ✓                                  | 1,1-Dichloroethene        | ND      | mg/L     | 0.007              | EPA Primary      | 0.001                |
| ✓                                  | 1,1-Dichloropropene       | ND      | mg/L     | --                 |                  | 0.002                |
| ✓                                  | 1,2,3-Trichlorobenzene    | ND      | mg/L     | --                 |                  | 0.002                |
| ✓                                  | 1,2,3-Trichloropropane    | ND      | mg/L     | --                 |                  | 0.002                |
| ✓                                  | 1,2,4-Trichlorobenzene    | ND      | mg/L     | 0.07               | EPA Primary      | 0.002                |

| Status | Contaminant             | Results | Units | National Standards |             | Min. Detection Level |
|--------|-------------------------|---------|-------|--------------------|-------------|----------------------|
| ✓      | 1,2-Dichlorobenzene     | ND      | mg/L  | 0.6                | EPA Primary | 0.001                |
| ✓      | 1,2-Dichloroethane      | ND      | mg/L  | 0.005              | EPA Primary | 0.001                |
| ✓      | 1,2-Dichloropropane     | ND      | mg/L  | 0.005              | EPA Primary | 0.002                |
| ✓      | 1,3-Dichlorobenzene     | ND      | mg/L  | --                 |             | 0.001                |
| ✓      | 1,3-Dichloropropane     | ND      | mg/L  | --                 |             | 0.002                |
| ✓      | 1,4-Dichlorobenzene     | ND      | mg/L  | 0.075              | EPA Primary | 0.001                |
| ✓      | 2,2-Dichloropropane     | ND      | mg/L  | --                 |             | 0.002                |
| ✓      | 2-Chlorotoluene         | ND      | mg/L  | --                 |             | 0.001                |
| ✓      | 4-Chlorotoluene         | ND      | mg/L  | --                 |             | 0.001                |
| ✓      | Acetone                 | ND      | mg/L  | --                 |             | 0.01                 |
| ✓      | Benzene                 | ND      | mg/L  | 0.005              | EPA Primary | 0.001                |
| ✓      | Bromobenzene            | ND      | mg/L  | --                 |             | 0.002                |
| ✓      | Bromomethane            | ND      | mg/L  | --                 |             | 0.002                |
| ✓      | Carbon Tetrachloride    | ND      | mg/L  | 0.005              | EPA Primary | 0.001                |
| ✓      | Chlorobenzene           | ND      | mg/L  | 0.1                | EPA Primary | 0.001                |
| ✓      | Chloroethane            | ND      | mg/L  | --                 |             | 0.002                |
| ✓      | Chloromethane           | ND      | mg/L  | --                 |             | 0.002                |
| ✓      | cis-1,2-Dichloroethene  | ND      | mg/L  | 0.07               | EPA Primary | 0.002                |
| ✓      | cis-1,3-Dichloropropene | ND      | mg/L  | --                 |             | 0.002                |
| ✓      | DBCP                    | ND      | mg/L  | --                 |             | 0.001                |
| ✓      | Dibromomethane          | ND      | mg/L  | --                 |             | 0.002                |
| ✓      | Dichlorodifluoromethane | ND      | mg/L  | --                 |             | 0.002                |
| ✓      | Dichloromethane         | ND      | mg/L  | 0.005              | EPA Primary | 0.002                |
| ✓      | EDB                     | ND      | mg/L  | --                 |             | 0.001                |
| ✓      | Ethylbenzene            | ND      | mg/L  | 0.7                | EPA Primary | 0.001                |
| ✓      | Methyl Tert Butyl Ether | ND      | mg/L  | --                 |             | 0.004                |
| ✓      | Methyl-Ethyl Ketone     | ND      | mg/L  | --                 |             | 0.01                 |
| ✓      | Styrene                 | ND      | mg/L  | 0.1                | EPA Primary | 0.001                |

| Status                    | Contaminant               | Results | Units | National Standards |             | Min. Detection Level |
|---------------------------|---------------------------|---------|-------|--------------------|-------------|----------------------|
| ✓                         | Tetrachloroethene         | ND      | mg/L  | 0.005              | EPA Primary | 0.002                |
| ✓                         | Tetrahydrofuran           | ND      | mg/L  | --                 |             | 0.01                 |
| ✓                         | Toluene                   | ND      | mg/L  | 1                  | EPA Primary | 0.001                |
| ✓                         | trans-1,2-Dichloroethene  | ND      | mg/L  | 0.1                | EPA Primary | 0.002                |
| ✓                         | trans-1,3-Dichloropropene | ND      | mg/L  | --                 |             | 0.002                |
| ✓                         | Trichloroethene           | ND      | mg/L  | 0.005              | EPA Primary | 0.001                |
| ✓                         | Trichlorofluoromethane    | ND      | mg/L  | --                 |             | 0.002                |
| ✓                         | Vinyl Chloride            | ND      | mg/L  | 0.002              | EPA Primary | 0.001                |
| ✓                         | Xylenes (Total)           | ND      | mg/L  | 10                 | EPA Primary | 0.001                |
| Organic Analytes - Others |                           |         |       |                    |             |                      |
| ✓                         | 2,4-D                     | ND      | mg/L  | 0.07               | EPA Primary | 0.010                |
| ✓                         | Alachlor                  | ND      | mg/L  | 0.002              | EPA Primary | 0.001                |
| ✓                         | Aldrin                    | ND      | mg/L  | --                 |             | 0.002                |
| ✓                         | Atrazine                  | ND      | mg/L  | 0.003              | EPA Primary | 0.002                |
| ✓                         | Chlordane                 | ND      | mg/L  | 0.002              | EPA Primary | 0.001                |
| ✓                         | Dichloran                 | ND      | mg/L  | --                 |             | 0.002                |
| ✓                         | Dieldrin                  | ND      | mg/L  | --                 |             | 0.001                |
| ✓                         | Endrin                    | ND      | mg/L  | 0.002              | EPA Primary | 0.0001               |
| ✓                         | Heptachlor                | ND      | mg/L  | 0.0004             | EPA Primary | 0.0004               |
| ✓                         | Heptachlor Epoxide        | ND      | mg/L  | 0.0002             | EPA Primary | 0.0001               |
| ✓                         | Hexachlorobenzene         | ND      | mg/L  | 0.001              | EPA Primary | 0.0005               |
| ✓                         | Hexachlorocyclopentadiene | ND      | mg/L  | 0.05               | EPA Primary | 0.001                |
| ✓                         | Lindane                   | ND      | mg/L  | 0.0002             | EPA Primary | 0.0002               |
| ✓                         | Methoxychlor              | ND      | mg/L  | 0.04               | EPA Primary | 0.002                |
| ✓                         | Pentachloronitrobenzene   | ND      | mg/L  | --                 |             | 0.002                |
| ✓                         | Silvex 2,4,5-TP           | ND      | mg/L  | 0.05               | EPA Primary | 0.005                |
| ✓                         | Simazine                  | ND      | mg/L  | 0.004              | EPA Primary | 0.002                |
| ✓                         | Total PCBs                | ND      | mg/L  | 0.0005             | EPA Primary | 0.0005               |

| Status | Contaminant | Results | Units | National Standards | Min. Detection Level |
|--------|-------------|---------|-------|--------------------|----------------------|
| ✓      | Toxaphene   | ND      | mg/L  | 0.003 EPA Primary  | 0.001                |
| ✓      | Trifluralin | ND      | mg/L  | --                 | 0.002                |

We certify that the analyses performed for this report are accurate, and that the laboratory tests were conducted by methods approved by the U.S. Environmental Protection Agency or variations of these EPA methods.

These test results are intended to be used for informational purposes only and may not be used for regulatory compliance.

***National Testing Laboratories, Ltd.***

NATIONAL TESTING LABORATORIES, LTD

6/18/2015

**2 FILTER** Oliver Kanner@gmail.com  
**NORTH COAST LABORATORIES LTD**  
 1680 West End Rd. Arcata, California 95521 (707)822-4649

Please complete the following sample information:  
 POTABLE WATER  SOURCE WATER  WASTEWATER  
 System # \_\_\_\_\_ Sampling Time 1445  
 Location Cowdrey Ave Sampled By Oliver Kanner  
 Sampling Date 6/18/15 Phone # 707-498-9314  
 Routine Sample  Repeat  Replacement  Special

Payment is due at time of service. We are pleased to accept the following (please check one):  
 Check \$ \_\_\_\_\_  Cash \$ \_\_\_\_\_  
 Visa  MasterCard  Am. Express  Discover \$ \_\_\_\_\_

If you are paying by credit card and are not submitting samples in person please use the enclosed form to provide credit card information

Attn: \_\_\_\_\_  
 Name Oliver Kanner  
 Address Po Box 1000  
 City/State/Zip Arcata, CA 95518

DATE CLIENT NOTIFIED \_\_\_\_\_ INITIALS \_\_\_\_\_  
 DATE RECEIVED/FORM FILLED \_\_\_\_\_ INITIALS \_\_\_\_\_

**For Office Use Only**

SAMPLE TEMP (C) 10.0 ONICE?  N  H / R  
 RECD BY AK TIME RECD 16:30  
 DATE RECD 6/18/15 INOC 1708 6-18-15 555  
 SAMPLE # \_\_\_\_\_ READ 1711 6-19-15 570

TESTS REQUESTED:  Presence / Absence  QUANTI-TRAY  Fecal Coliform  E.coli 2.0  
 3 x 5 MTE  HPC

RESULTS: (MPN/100ML) \_\_\_\_\_  
 ANALYST NAME: \_\_\_\_\_

Quant-Tray/2000: Total coliform \_\_\_\_\_ E.coli \_\_\_\_\_

**Bacterial Examination Report**  
 All microbiology data will be destroyed after 3 years

| MPN | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 |
|-----|---|---|---|---|---|---|---|---|---|----|----|----|----|----|----|
| 24  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |
| 48  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |
| 24  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |
| 48  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |
| 24  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |

Quality Assurance Unit

**3 UV FILTER** Oliver Kanner@gmail.com  
**NORTH COAST LABORATORIES LTD**  
 1680 West End Rd. Arcata, California 95521 (707)822-4649

Please complete the following sample information:  
 POTABLE WATER  SOURCE WATER  WASTEWATER  
 System # \_\_\_\_\_ Sampling Time 1450  
 Location Cowdrey Ave Sampled By Oliver Kanner  
 Sampling Date 6/18/15 Phone # 707-498-9314  
 Routine Sample  Repeat  Replacement  Special

Payment is due at time of service. We are pleased to accept the following (please check one):  
 Check \$ \_\_\_\_\_  Cash \$ \_\_\_\_\_  
 Visa  MasterCard  Am. Express  Discover \$ \_\_\_\_\_

If you are paying by credit card and are not submitting samples in person please use the enclosed form to provide credit card information

Attn: \_\_\_\_\_  
 Name Oliver Kanner  
 Address Po Box 1000  
 City/State/Zip Arcata, CA 95518

DATE CLIENT NOTIFIED \_\_\_\_\_ INITIALS \_\_\_\_\_  
 DATE RECEIVED/FORM FILLED \_\_\_\_\_ INITIALS \_\_\_\_\_

**For Office Use Only**

SAMPLE TEMP (C) 10.0 ONICE?  N  H / R  
 RECD BY AK TIME RECD 16:30  
 DATE RECD 6/18/15 INOC 1708 6-18-15 555  
 SAMPLE # \_\_\_\_\_ READ 1708 6-19-15 550

TESTS REQUESTED:  Presence / Absence  QUANTI-TRAY  Fecal Coliform  E.coli 2.0  
 3 x 5 MTE  HPC

RESULTS: (MPN/100ML) \_\_\_\_\_  
 ANALYST NAME: \_\_\_\_\_

Quant-Tray/2000: Total coliform \_\_\_\_\_ E.coli \_\_\_\_\_

**Bacterial Examination Report**  
 All microbiology data will be destroyed after 3 years

| MPN | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 |
|-----|---|---|---|---|---|---|---|---|---|----|----|----|----|----|----|
| 24  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |
| 48  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |
| 24  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |
| 48  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |
| 24  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |

Quality Assurance Unit

7/15/2015

oliverkammer@gmail.com

**NORTH COAST LABORATORIES LTD**  
5680 West End Rd, Arcata, California 95521 (707)822-4649

Please complete the following sample information:

POTABLE WATER    SOURCE WATER    WASTEWATER

System # \_\_\_\_\_ Sampling Time 1400  
 Location CL Sampled By Oliver Kammer  
 Sampling Date 7/15 Phone 707 498 9394

Routine Sample    Repeat    Replacement    Special

Payment is due at time of service. We are pleased to accept the following (please check one):  
 Check \$ \_\_\_\_\_    Cash \$ 45  
 Visa    Mastercard    Am. Express    Discover \$ \_\_\_\_\_

If you are paying by credit card and are not submitting samples in person please use the enclosed form to provide credit card information

Attn: \_\_\_\_\_  
 Name Oliver Kammer  
 Address PO Box 1000  
 City/State/Zip Arcata CA 95518

DATE CLIENT NOTIFIED \_\_\_\_\_ INITIALS \_\_\_\_\_  
 DATE REGULATOR NOTIFIED \_\_\_\_\_ INITIALS \_\_\_\_\_

Quality Assurance Unit

For Office Use Only

SAMPLE TEMP (°C) 2.4 ON ICE?  N  H  I  J  K

REC'D BY AKM TIME REC'D 15:40

DATE REC'D 7/15/15 INOC 1548 7-15-15 STD

SAMPLE # \_\_\_\_\_ READ 1630 7/15/15 STD

TESTS REQUESTED:      RESULTS: (MPN/100mL)      Analyst Notes:

Presence / Absence       Total Coliform <1.0      Email ASAP

QUANTI-TRAY       Fecal Coliform

3 X 5 MTF       E.coli <1.0

HPC     

Quanti-Tray/2000: Total coliform 0/1/0 E. coli 0/0

**Bacterial Examination Report**      All microbiology data will be destroyed after 6 years

| hrs | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 |
|-----|---|---|---|---|---|---|---|---|---|----|----|----|----|----|----|
| 24  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |
| 48  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |
| 24  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |
| 48  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |
| 24  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |

7/16/2015

oliverkammer@gmail.com

**NORTH COAST LABORATORIES LTD**  
5680 West End Rd, Arcata, California 95521 (707)822-4649

Please complete the following sample information:

POTABLE WATER    SOURCE WATER    WASTEWATER

System # \_\_\_\_\_ Sampling Time 1400  
 Location CL Sampled By Oliver Kammer  
 Sampling Date 7/16/15 Phone 707 498 9394

Routine Sample    Repeat    Replacement    Special

Payment is due at time of service. We are pleased to accept the following (please check one):  
 Check \$ \_\_\_\_\_    Cash \$ 45  
 Visa    Mastercard    Am. Express    Discover \$ \_\_\_\_\_

If you are paying by credit card and are not submitting samples in person please use the enclosed form to provide credit card information

Attn: \_\_\_\_\_  
 Name Oliver Kammer  
 Address PO Box 1000  
 City/State/Zip Arcata, CA 95518

DATE CLIENT NOTIFIED \_\_\_\_\_ INITIALS \_\_\_\_\_  
 DATE REGULATOR NOTIFIED \_\_\_\_\_ INITIALS \_\_\_\_\_

Quality Assurance Unit

For Office Use Only

SAMPLE TEMP (°C) 0.4 ON ICE?  N  H  I  J  K

REC'D BY AKM TIME REC'D 16:35

DATE REC'D 7/16/15 INOC 1700 7-16-15 STD

SAMPLE # \_\_\_\_\_ READ 1705 7-17-15 STD

TESTS REQUESTED:      RESULTS: (MPN/100mL)      Analyst Notes:

Presence / Absence       Total Coliform <1.0      Email ASAP

QUANTI-TRAY       Fecal Coliform

3 X 5 MTF       E.coli <1.0

HPC     

Quanti-Tray/2000: Total coliform 0/1/0 E. coli 0/0

**Bacterial Examination Report**      All microbiology data will be destroyed after 6 years

| hrs | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 |
|-----|---|---|---|---|---|---|---|---|---|----|----|----|----|----|----|
| 24  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |
| 48  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |
| 24  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |
| 48  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |
| 24  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |

The water stations served approximately 1,400 attendees during the event. Total event water consumption on County Line Ranch was 12,300 gallons.



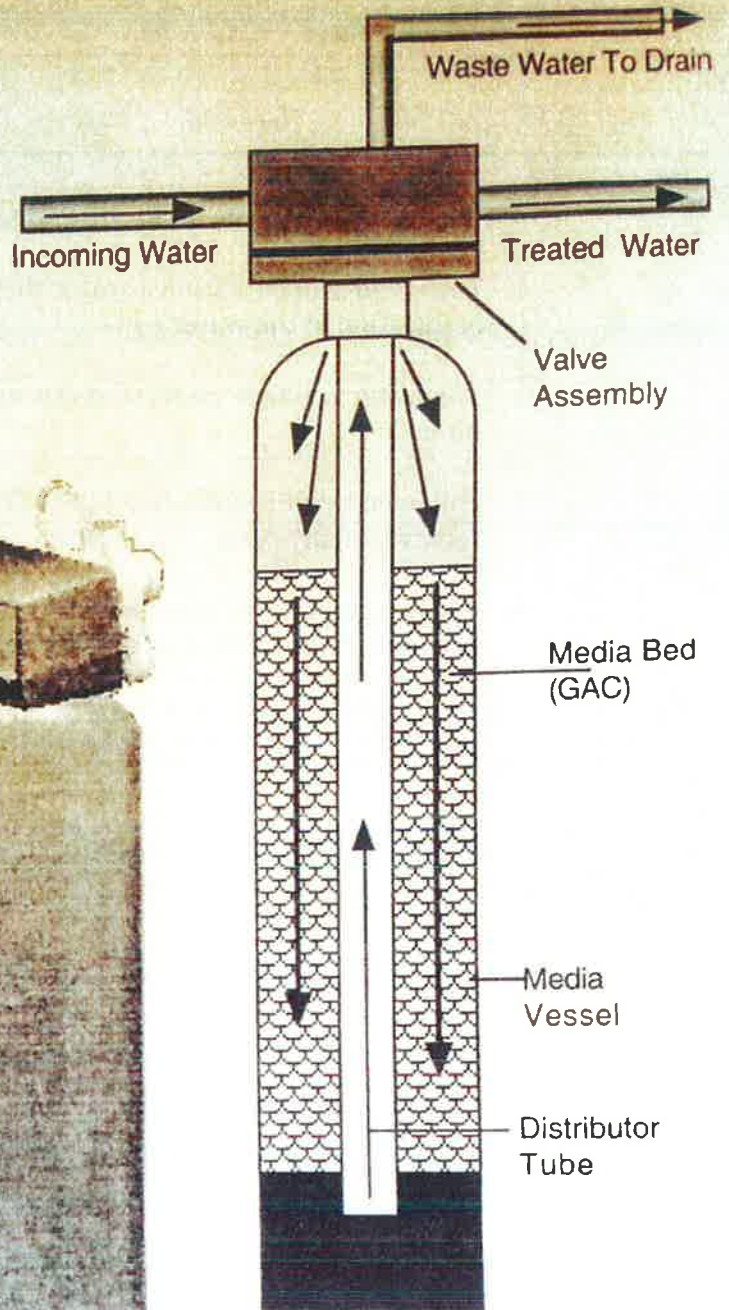
## **Water Treatment Overview and Specifications**

1. The water will flow from a spigot through a lead free hose directly to the first stage of filtration at the water bar.
2. The water will then be filtered through a GAC (Granular Activated Carbon) sediment filter.
3. Followed by a Greenblock FX20CYST Carbon Block 1 micron filter to ensure the removal of any cysts.
4. The last stage of filtration and disinfection will be via a Sterilight S5QPA UV filter, ensure further removal of bacteria pathogens.

## POINT OF ENTRY GRANULAR ACTIVATED CARBON (GAC) SYSTEM

For reduction of chlorine, chloramines, lead, rust and silt and other taste and odor concerns. Chlorine can bond with proteins in our skin, hair, and other organs, causing oxidation to our cells, dryness and brittleness. Chlorine can be inhaled by the lungs, absorbed by the skin, and consumed in the water we drink.

This unit is custom sized for you with the correct volume of media to give you the maximum contact time, the slowest thorough reduction rate possible, and a flow rate that meets your water usage needs. It treats water coming to the whole house for better water at your shower & bath, kitchen faucet, and garden.



### FEATURES AND BENEFITS

- Backwashing capability to flush out trapped particulates and re-settle the bed and avoid channeling
- More thorough "contact time" for better removal of contaminants
- No clogging, will maintain consistent flow rate throughout life of the media, unlike cartridge filters that may build up trapped particulates, slow down water flow, and need to be changed before carbon medium is exhausted.
- All systems custom designed for individual circumstances. Valve type and media volume calculated for optimum removal of contaminants.



greenblock®

# FX-CYST CARBON BLOCK FILTERS

FX  
-  
C  
Y  
S  
T

## Features & Benefits

- 1µm Nominal Filtration
- No Release of Carbon Fines
- Exceptionally Low Pressure Drop
- Manufactured from NSF Std 61 Certified Coconut Shell greencarbon™
- CYST Performance Validated by WQA\*
- NSF Certified for Material Safety - Standard 42
- Industry Leading Performance at a Competitive Price

\* *FX10CYST tested by the Water Quality Association for Cyst reduction as per NSF/ANSI Standard 53 protocols. Tested for particulate reduction Class 1 as per NSF/ANSI 42 protocols.*

**Filtrex Technologies** is proud to be the first carbon block manufacturer to use NSF61 listed **greencarbon™** developed by **Global ECOCARB Pvt Ltd**. This high performance coconut shell carbon is manufactured using a patented process that **significantly reduces harmful Green House Gas Emissions**.

**FX-CYST greenblock®** are made using high performance coconut shell greencarbon™ having more micro pores compared to other types of carbon and a unique binder system delivering a product with superior adsorption capacity and kinetic dynamics.

This combination of high performance carbon, unique binders and proprietary manufacturing processes delivers exceptionally **low pressure drop, high dirt holding capacity and excellent contaminant reduction**.

**FX-CYST greenblock®** are ideal for a wide range of POU, POE, commercial and industrial applications.

### The Filtrex Advantage

- Competitive Pricing
- WQA and NSF Certified
- Environmentally Friendly
- More Carbon Surface Area
- Industry Leading Performance



**FX - BRAND INSIDE THE BRANDS™**



greenblock®

# FX-CYST CARBON BLOCK FILTERS

## FX-CYST Standard Products

| Part Number | OD X Length                      | Nominal µm Rating | Chlorine, Taste, Odor Reduction Capacity@Flow            | VOC Capacity   | Initial ΔP (psi)@ Flow Rate gpm*      |
|-------------|----------------------------------|-------------------|--|--|---------------------------------------|
| FX10CYST    | 2-3/4" X 9-3/4"<br>70mm X 248mm  | 1                 | > 20,000 gallons @ 1gpm<br>> 76,000 liters @3.8 L/min    | >750 gallons @ 0.5gpm<br>> 2,850 liters @1.9 L/min     | 3.5psi @ 1gpm<br>(.24 bar@3.8 L/min)  |
| FX10CYST-TW | 2-3/4" X 20"<br>70mm X 248mm     | 1                 | > 25,000 gallons @ 2gpm<br>> 95,000 liters @3.8 L/min    | >1,200 gallons @ 0.5gpm<br>> 3,800 liters @1.9 L/min   | 3.5psi @ 1gpm<br>(.32 bar@3.8 L/min)  |
| FX20CYST    | 2-3/4" X 20"<br>70mm X 508mm     | 1                 | > 45,000 gallons @ 2gpm<br>> 171,000 liters @7.6 L/min   | >1,750 gallons @ 1.0gpm<br>> 6,650 liters @3.8 L/min   | 3.5psi @ 2gpm<br>(.24 bar@7.6 L/min)  |
| FXB10CYST   | 4-1/2" X 9-3/4"<br>114mm X 248mm | 1                 | > 80,000 gallons @ 3gpm<br>> 304,000 liters @11.4 L/min  | > 2,000 gallons @ 1.5gpm<br>> 7,600 liters @5.7 L/min  | 4.5psi @ 3gpm<br>(.32 bar@11.6 L/min) |
| FXB20CYST   | 4-1/2" X 20"<br>114mm X 508mm    | 1                 | > 160,000 gallons @ 7gpm<br>> 608,000 liters @26.6 L/min | > 4,000 gallons @ 2.0gpm<br>> 15,200 liters @7.6 L/min | 8.5psi @ 7gpm<br>(.60 bar@26.6 L/min) |

## Custom Products

Filtrex Technologies specializes in Custom Carbon Blocks offering OEM clients endless filtration solutions

- Custom Shapes
- Wide Range of OD, ID and Length Dimensions
- Custom End Caps with gaskets, O-ring and threaded seals
- Speciality Additives - Lead Scavengers, Antimicrobials
- Multiple Finishing Options - Sediment Wraps, Netting and End Cap Color, Packaging
- Experienced with NSF & WQA certification process for the reductions of - CL2, Particulate, VOC, Cyst & Lead.



## Material Used and Color Options

- Carbon : NSF listed 61 Coconut Shell PAC
- End Caps : Polypropylene. Green, White or Black
- Inne/Outer Wraps : Polypropylene. Green or White
- Nettings : Polyethylene. Green or White
- Gaskets : NBR
- Temperature Rating : 40° F to 180° F

## NOTES

- Performance claims are based on independent lab results and manufacturer's internal test data
- Actual performance is dependent on influent water quality, flow rates, system design and applications. Your results may vary
- Micron ratings based on 85% or greater removal of a given particle size
- Estimated capacity using 2ppm free chlorine with greater than 90% reduction
- Performance data has not been tested or validated by NSF
- Flush new cartridges until water runs clear prior to use



The FX10CYST, FX20CYST, FXB10CYST and FXB20CYST models are Tested and Certified by NSF International against NSF/ANSI Standard 42 for materials requirements only



The FX10CYST, FX20CYST, FXB10CYST and FXB20CYST models are Tested and Certified by WQA according to NSF/ANSI Standard 42 for materials requirements only

The FX10CYST is Tested by WQA for Cyst reduction according to NSF53 and for Particulate Class I reduction as per NSF42

**WARNING :** Do not use with water that is microbiologically unsafe or of unknown quality without adequate disinfection before or after the system.

**Limited Liability :** Filtrex Technologies makes no warranties of any kind, expressed or implied, statutory or otherwise and expressly disclaims all warranties of every kind, concerning the product, including, without limitation, warranties of merchantability and fitness for a particular purpose, except that this product should be capable of performing as described in this product's data sheet. Filtrex Technologies obligation shall be limited solely to the refund of the purchase price or replacement of the product proven defective, is Filtrex Technologies sole discretion. Determination of suitability of this product for uses and applications contemplated by Buyer shall be the sole responsibility of Buyer. Use of this product constitutes Buyer's acceptance of this Limited Liability.

HIGH PERFORMANCE  
**greenblock**®

Manufactured By



HRBR LAYOUT, BANGALORE 560043, INDIA  
phone : 91-80-2544-2331  
email : info@filtrextechnologies.com  
http://www.filtrextechnologies.com



Coconut Shell based NSF 61 Certified



email : info@eco-carb.com  
http://www.eco-carb.com

FX - BRAND INSIDE THE BRANDS™

TM is a registered trademark of FILTRET HOLDINGS PTE LTD, SINGAPORE

FILTRET TECHNOLOGIES PVT LTD & ECOCARB PVT LTD are companies of FILTRET HOLDINGS PTE LTD, SINGAPORE

# SPECIFICATIONS - STANDARD SYSTEMS

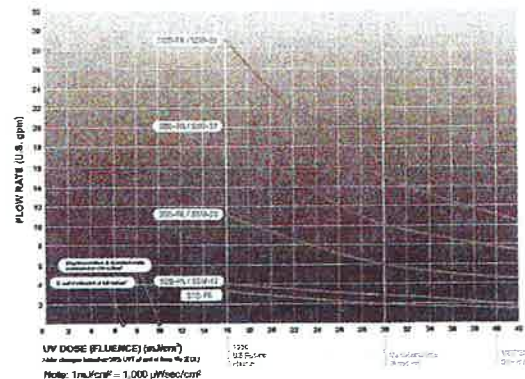
| MODEL  | S1Q-PA  | S2Q-PA/<br>SSM-17                                 | S5Q-PA/<br>SSM-24                                 | S8Q-PA/<br>SSM-37                                 | S12Q-PA/<br>SSM-39                                |
|--|---|---|---|---|---|
| <b>FLOW RATES<sup>1</sup></b>                |   |   |   |   |   |
| US Public Health<br>(16 mJ/cm <sup>2</sup> ) | 12 lpm (3.5 gpm)<br>(0.8 m <sup>3</sup> /hr)      | 15 lpm (5 gpm)<br>(1.1 m <sup>3</sup> /hr)        | 42 lpm (11 gpm)<br>(2.5 m <sup>3</sup> /hr)       | 75 lpm (20 gpm)<br>(4.5 m <sup>3</sup> /hr)       | 110 lpm (29 gpm)<br>(6.6 m <sup>3</sup> /hr)      |
| VIQUA Standard<br>(30 mJ/cm <sup>2</sup> )   | 7 lpm (2 gpm)<br>(0.4 m <sup>3</sup> /hr)         | 11 lpm (3 gpm)<br>(0.7 m <sup>3</sup> /hr)        | 23 lpm (6 gpm)<br>(1.4 m <sup>3</sup> /hr)        | 38 lpm (10 gpm)<br>(2.3 m <sup>3</sup> /hr)       | 57 lpm (15 gpm)<br>(3.4 m <sup>3</sup> /hr)       |
| NSF/EPA<br>(40 mJ/cm <sup>2</sup> )          | 5 lpm (1.5 gpm)<br>(0.3 m <sup>3</sup> /hr)       | 7 lpm (2 gpm)<br>(0.4 m <sup>3</sup> /hr)         | 17 lpm (4.5 gpm)<br>(1.0 m <sup>3</sup> /hr)      | 29 lpm (8 gpm)<br>(1.8 m <sup>3</sup> /hr)        | 42 lpm (11 gpm)<br>(2.5 m <sup>3</sup> /hr)       |
| <b>DIMENSIONS</b>                            |   |   |   |   |   |
| Chamber                                      | 39.4 cm x 6.4 cm<br>(15.5" x 2.5")                | 43.4 cm x 6.4 cm<br>(17.1" x 2.5")                | 56.1 cm x 6.4 cm<br>(22.1" x 2.5")                | 90.4 cm x 6.4 cm<br>(35.6" x 2.5")                | 95.3 cm x 8.9 cm<br>(37.5" x 3.5")                |
| Controller                                   |   |   |   |   |   |
| SSM Systems                                  | 21.1 cm x 8.1 cm x 6.4 cm<br>(8.3" x 3.2" x 2.5") | 21.1 cm x 8.1 cm x 6.4 cm<br>(8.3" x 3.2" x 2.5") | 21.1 cm x 8.1 cm x 6.4 cm<br>(8.3" x 3.2" x 2.5") | 21.1 cm x 8.1 cm x 6.4 cm<br>(8.3" x 3.2" x 2.5") | 21.1 cm x 8.1 cm x 6.4 cm<br>(8.3" x 3.2" x 2.5") |
| SQ-PA Systems                                | 18.6 cm x 8.1 cm x 6.4 cm<br>(7.3" x 3.2" x 2.5") | 18.6 cm x 8.1 cm x 6.4 cm<br>(7.3" x 3.2" x 2.5") | 18.6 cm x 8.1 cm x 6.4 cm<br>(7.3" x 3.2" x 2.5") | 18.6 cm x 8.1 cm x 6.4 cm<br>(7.3" x 3.2" x 2.5") | 18.6 cm x 8.1 cm x 6.4 cm<br>(7.3" x 3.2" x 2.5") |
| Inlet/Outlet Port Size                       | 1/4" MNPT   | 1/2" MNPT   | 3/4" MNPT   | 3/4" MNPT   | Combo<br>3/4" FNPT/1" MNPT                        |
| Shipping Weight                              | 2.7 kg (6 lbs.)                                   | 3.2 kg (7 lbs.)                                   | 3.6 kg (8 lbs.)                                   | 5.0 kg (11 lbs.)                                  | 5.9 kg (13 lbs.)                                  |
| <b>ELECTRICAL</b>                            |   |   |   |   |   |
| Voltage                                      | 100-240V/50-60Hz                                  | 100-240V/50-60Hz                                  | 100-240V/50-60Hz                                  | 100-240V/50-60Hz                                  | 100-240V/50-60Hz                                  |
| Power Consumption                            | 19 W  | 22 W  | 30 W  | 46 W  | 48 W  |
| Lamp Watts                                   | 14 W  | 17 W  | 25 W  | 37 W  | 39 W  |
| Maximum Operating Pressure                   | 8.62 bar (125 psi)                                | 8.62 bar (125 psi)                                | 8.62 bar (125 psi)                                | 8.62 bar (125 psi)                                | 8.62 bar (125 psi)                                |
| Ambient Water Temperature                    | 2-40°C (36-104°F)                                 | 2-40°C (36-104°F)                                 | 2-40°C (36-104°F)                                 | 2-40°C (36-104°F)                                 | 2-40°C (36-104°F)                                 |
| Lamp Type                                    | Sterilume™ - EX (standard-output)                 |   |   |   |   |
| Visual "Power-On"                            | Yes   | Yes   | Yes   | Yes   | Yes   |
| Audible Lamp Failure                         | Yes   | Yes   | Yes   | Yes   | Yes   |
| Lamp Replacement Reminder                    | Yes   | Yes   | Yes   | Yes   | Yes   |
| Visual Lamp Life Remaining                   | Yes   | Yes   | Yes   | Yes   | Yes   |
| Total Running Time                           | Yes   | Yes   | Yes   | Yes   | Yes   |
| Chamber Material <sup>2</sup>                | 304 SS  | 304 SS  | 304 SS  | 304 SS  | 304 SS  |
| <b>SSM MODELS ONLY</b>                       |   | SSM-17  | SSM-24  | SSM-37  | SSM-39  |
| 254nm UV Monitor                             |   | Yes   | Yes   | Yes   | Yes   |
| Solenoid Output<br>(solenoid not included)   |   | Yes   | Yes   | Yes   | Yes   |
| 4-20 mA Output                               | Yes (Optional 260134)                             | Yes (Optional 260134)                             | Yes (Optional 260134)                             | Yes (Optional 260134)                             | Yes (Optional 260134)                             |

Flow rates stated @ 95% UVT EOL

<sup>2</sup> 316 stainless steel available on request

## Replacement Parts

|   |  |
|---|--|
| <b>S287RL</b> – UV lamp for S1Q-PA              | <b>QS-012</b> – quartz sleeve for S12Q-PA/SSM-39                             |
| <b>S330RL</b> – UV lamp for S2Q-PA/SSM-17       | <b>QS-330</b> – quartz sleeve for S2Q-PA/SSM-17                              |
| <b>S463RL</b> – UV lamp for S5Q-PA/SSM-24       | <b>410867</b> – o-ring for quartz sleeves                                    |
| <b>S810RL</b> – UV lamp for S8Q-PA/SSM-37       | <b>RN-001</b> – retaining nut for all systems                                |
| <b>S36RL</b> – UV lamp for S12Q-PA/SSM-39       | <b>BA-ICE-S</b> – electronic ICE controller<br>(100-240V/50-60Hz)            |
| <b>QS-001</b> – quartz sleeve for S1Q-PA        | <b>BA-ICE-SM</b> – electronic ICE monitored controller<br>(100-240V/50-60Hz) |
| <b>QS-463</b> – quartz sleeve for S5Q-PA/SSM-24 | <b>254NM-S1</b> – UV monitor assembly for SSM series<br>(all except SSM-39)  |
| <b>QS-810</b> – quartz sleeve for S8Q-PA/SSM-37 | <b>254NM-S2</b> – UV monitor assembly for SSM series<br>(SSM-39)             |



## **Water Treatment Overview and Specifications**

1. The water will flow from a spigot through a lead free hose directly to the first stage of filtration at the water bar.
2. The water will then be filtered through a GAC (Granular Activated Carbon) sediment filter.
3. Followed by a Greenblock FX20CYST Carbon Block 1 micron filter to ensure the removal of any cysts.
4. The last stage of filtration and disinfection will be via a Sterilight S5QPA UV filter, ensure further removal of bacteria pathogens.

## Water System Operations

1. Water Source connection point:
  - The only hardware required of the venue is a standard garden hose bib (we use food grade hoses and connect just like garden hoses), or either standard size of angle stop (we use an angle stop Speedfit “break in valve” see JG Speedfit instructions).
  - Ideally we have one hose bib or angle stop per water station to help ensure adequate flow for each dispensing unit.
  
2. Water Station distance from hose bib or angle stop:
  - Adequate pressure will truly dictate the max distance that the water stations can be located from the hose bib or angle stop.
  - We will have 100’ of hose for each water station, but we recommend placement within 50’ of the hose bib or angle stop as a standard to ensure adequate pressure in most situations.
  
3. Physical dimensions of 1 spigot Water Bar w/ single filter assembly:
  - The main unit is 14.25” wide, 12” deep, and the total height including backsplash is 18.5”
  - The manifold (spigots come out of this) is 6” tall.
  - The glass filler spigot is 12.5” tall.
  - The filtration equipment fits inside of the manifold.
  
4. Physical dimensions of Porta-Gac and Polisher (Filtration equipment for 4 spigot water bar):
  - The units have four spigots each with a stainless steel filter with coconut shell carbon filtration that is compostable...the main unit rests on top of a table (the stainless steel filter is placed under the table).
  - The polisher filter is a carbon block cartridge...working on getting these to be compostable, but for now they have a plastic cartridge...this filter goes behind the spigots and backsplash
  - The stainless steel “Porta-Gac” filter is 9” diameter and 26” tall
  
5. Physical dimensions of 4 spigot Water Bar (Dispensing Equip):

- The main unit is 48'' wide and 12'' deep, the backsplash is 18.5'' tall
  - The manifold (spigots come out of this) is 6.75'' tall
  - The units have four spigots each. These may be lever activated gooseneck spigots, or push activated glass filler spigots.
  - Note the two holes in the backsplash are there to allow for easy manual transportation...two people could pick it up and carry it no problem.
5. Physical dimensions of 4 spigot Water Bar w/ removable backsplash (Dispensing Equip):
- The removable backsplash is 48'' wide, 12'' tall, 3'' deep, and fits inside of the manifold for transportation.
  - The manifold is 48'' wide, 10'' tall and 14'' deep.
  - The total height with the backsplash installed is 22''



## Set-up Procedures for Water Stations w/ Filtration

1. Locate a source for potable water (a standard hose bib or angle stop)
    - 1.1. Check that the water source has a high (adequate) rate of flow and fairly strong pressure
  2. Determine a location for the water dispenser, ideally within 50 feet of the water source
    - 2.1. Be aware of obstacles on the route for the hose: pathways, bushes, and walls
    - 2.2. Location may experience water spillage and high traffic, so place hose to minimize trip hazard
  3. Place the 4-spigot or single spigot water bar and the polisher filter on a table or counter and the Porta-GAC unit below.
    - 3.1. For removable backsplash model place manifold on table, remove the 2 screws from manifold and set aside, firmly and carefully grasp the 2 middle glass filler spigots and pull the backsplash straight back to remove it from manifold, place the backsplash onto the manifold so that the tongue slides into the groove and both holes match up with threaded holes on manifold, insert 2 screws into threaded holes and tighten until snug with a socket, or crescent wrench.
  4. The direction of the water flow is from the water source, to the Feed port of the filter on the single spigot water bar manifold, or to the feed port on the porta-GAC (stainless cylinder); from the porta-GAC to the polishing filter (blue unit); from the polishing filter to the 4-spigot Water Bar
  5. For standard hose bib connect one length of white potable water hose from the water source to the Single spigot Water bar, or Porta-GAC (Stainless canister) feed port. For Angle stop, use adapters to get the line from ¼" to 1/2", or 3/8" for Single spigot water bar as close to water source as possible, and use blue tubing to connect to Porta-GAC, or feed port in single spigot Water Bar. Refer to JG Speedfit Instructions on the JG fitting info sheet.
  6. For Single Spigot Water Bar, turn on water source, check for leaks, and open spigot. When water comes out clear, installation is complete.
  7. Note: More than one length of hose may be used to cover distance, IF water supply has a high rate of flow and strong enough pressure
  8. Use ½" blue poly tube to connect the portable GAC "Out" port to the polishing filter "In" port (The polishing filter is the smaller blue unit)
-

9. Be careful to push poly tube all the way into the fittings
  - 9.1.1.1.1. (Please see the attached info. sheet for JG quick connect fittings)
10. Use ½" blue poly tube to connect the polishing filter "Out" port to the inlet port on the ball valve feeding into the 4-spigot dispenser.
11. Run water through system until water flows free of air bubbles using the directions below.
12. Ensure that all valves are closed.
13. Open the hose bib at the water source 1/3 to ½ way. Check for leaks between the hose bib and the GAC, and fix leaks, if any.
14. Then open the stainless steel ball valve 1/3 to ½ way. It has a locking clip, so make sure to pull the clip up first to open or close the valve.
15. Using a bucket, open the flush port valve on the Porta-GAC. The flush port valve is the one NOT being used to feed the polishing filter. On the stem with two arms. Run the water until it looks clear, to flush out air and any loose carbon in the line. Slowly open the hose bib valve, as well as the stainless steel valve on the portable GAC. Run more water through the flush valve at full force, until the water runs clear.
16. Open ball valve feeding Water Bar. Open the Spigot farthest from the feed port and place bucket. Slowly open the valve that feeds the polishing filter, 1/3 to ½ way. When the water is running clear, open to full force. Close spigot on Water Bar and check for leaks.
17. Open 1 spigot at a time on the dispenser
  - 17.1. Inspect the water. It should look and taste clean. Small amounts of air in the line may make it a bit cloudy, but is not harmful. If you let a glass of water sit for 5 minutes, air bubbles should clear up.
  - 17.2. Make sure that water flow is sufficient to run 4 spigots at once. Excessive water pressure may cause splashing, and make the dispenser difficult to use. The water pressure can be lessened by adjusting any of the water valves upstream (close them slightly).

## **Polishing Filter Change Procedure**

Start by detaching the blue tubing from the fittings on the top of the filter housing assembly. The blue housing unscrews from the black top in the standard righty-tighty, lefty-loosey manner. It will be tight, so it might be advisable to tip the filter assembly on its head (the black cap) and try to hold it in place with your feet while you try to unscrew the blue housing. If it is on too tight to unscrew with your bare hands or perhaps a set of two pairs of hands is available.

Once you have opened the housing, remove the filter from the housing. Put the housing in the upright position, and put the new filter into the housing. Make sure that the o-ring is still in its slot near the top of the blue housing before screwing the housing back on. Also make sure the @2 inch black o-rings are on the top and bottom of the new filter. Make sure the ones from the old filter are not in the housing or cap. They usually come off when you pull the old filter out, but check to be sure. Put the black cap on top of the housing being careful to make sure the threads are in alignment before applying significant pressure. Tighten the housing onto the cap as hard as hand tightening will allow, but not more. If you use the wrench to tighten it, it can cause the o-ring to flatten or split.

Hook the water back up to the "in" side of the filter assembly and flush for a few minutes making sure the water runs clear on the "out" side. Hook the tubing back up to the "out" side and hook it back up to the filtration and water dispenser. If any leaks seep out of the polishing filter, tighten until they stop. If they do not, unscrew the housing again and make sure the o-ring is in place, then re-tighten. This filter should be replaced approximately every 6 months, but may be needed to be replaced sooner if the unit is heavily used.

## GAC Change Procedure

1. Open all valves on the Inlet and Outlet sides of the Port-a Gac.
2. Remove the Hose Clamp from the Stainless Steel Outlet Assembly.
3. Carefully slide apart the Stainless Steel Fitting of the Outlet Assembly. [The fitting slides apart in one direction ONLY – take care not to damage the washer that fits between the two sections]. Set the top section aside.
4. Using an adjustable wrench or channel locks, unscrew the lower section of the Outlet from the tank and set aside. Take care not to damage the threads on either the fitting or the tank.
5. Attach a hose to the Inlet side and shut the steel ball valve before turning on the water to the hose.
6. Carefully lay the tank on its side, with the Inlet port at 12 O'clock and the Outlet port at 6 O'clock – this is best done with the tank atop a table or saw-horses to provide room for the old Gac and water to flow out of the tank. Use an old Gac bag or similar type mesh bag to catch the old Gac for disposal.
7. Turn on the water to the hose, and then slowly open the Inlet ball valve to allow water into the tank. Because the feed tube runs to the bottom of the tank, you will now be forcing the old Gac out of the tank, along with water. Catch the old Gac in the mesh bag and allow the excess water to drain away. Once the water starts to run clear elevate the bottom of the tank to ensure that all of the old Gac has been washed out.
8. Shut the Inlet ball valve, turn off the water, and detach the hose from the tank. Drain any remaining water from the tank. Place the tank on top of scale.
9. Insert a wide-mouthed funnel into the Outlet port and carefully [slowly] pour 9 to 10 pounds of Gac into the tank. After adding approximately 5-6 pounds stop and gently rock the tank back and forth to level out the Gac, then add the remainder of the Gac. Remove the funnel from the Outlet port.
10. Using a paper towel or soft rag, carefully wipe the threads of the Outlet clean, both on the tank and on the outlet tube.
11. Remove any old Teflon tape from the threads of the lower section of the outlet. Wrap the threads with 5 to 6 turns of new Teflon tape and re-install the lower section to the tank. Take care not to cross-thread the tank fitting or the riser tube. Once it is finger tight, use an adjustable wrench or channel locks to snug it up, taking care not to over-tighten. Place the hose clamp on the outlet, but do not tighten at this time.
12. Re-install the top section of the outlet assembly by sliding the two sections of the fitting together, taking care not to damage the washer that fits between the two

sections. If necessary, channel locks may be used to gently squeeze the upper and lower sections flush with each other.

13. Position and tighten the hose clamp to secure the top and bottom sections together.
  
14. Attach a hose to the Inlet side, making sure that the steel ball valve is closed. Open one of the two ball valves on the Outlet, and turn on the water to the hose. Slowly open the steel ball valve until water just starts to flow into the tank, and allow the tank to slowly fill until water comes out of the Leaving side. Allow the tank to flush slowly until the water runs clear. [This may take a few minutes.]
  
15. Pressure test the tank by shutting the ball valve on the Outlet side, and open the Inlet side ball valve fully. Check all fittings for leaks, and tighten as necessary. Once you have confirmed that the assembly is tight and leak-free, close the steel ball valve on the Inlet side, and open one of the ball valves on the Outlet side to relieve the pressure. Turn off the water and remove the hose from the Port-a-Gac. Close all of the valves on the Port-a-Gac.
  
16. The Port-a-Gac is now ready for use. It is important to store the unit upright, with all of the valves, both Inlet and Outlet, closed. Always transport the unit in the upright position, and secure the unit on site to ensure that it cannot be knocked over.

## Filter Longevity

These flow rates were determined from a 3/4" hose bib with 60 psi.

From hose bib through 5 feet of 1/2" tubing: 6 GPM

Flow from GAC and polishing filter 5 feet from hose bib using 1/2" tubing: 3 GPM

Flow from GAC and polishing filter 30 feet from hose bib using 1/2" tubing: 2 GPM

Flow from dispenser through filtration from 5 feet away:

1 spigot on - 1.75 GPM per spigot

2 spigots on - 1 GPM per spigot

3 spigots on - .8 GPM per spigot

All 4 spigots on - .75 GPM per spigot

Flow from dispenser through filtration from 30 feet away:

1 spigot on - 1.5 GPM per spigot

2 spigots on - 1 GPM per spigot

3 spigots on - .75 GPM per spigot

All 4 spigots on - .6 GPM per spigot

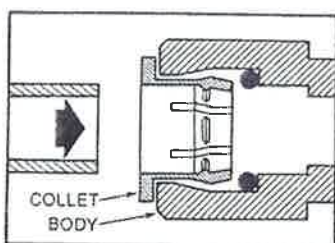
The lifespan of the filters is partially determined by the amount of usage, but time plays a major factor as well. With the GAC filter, we generally advise that the carbon be changed out 6 months to once a year. If you are using it often and filtering mass quantities of water, you might want to change it more often. The polishing filter should be changed every 6 months, but again, heavy usage may make it worthwhile to change it more often.

As far as composting goes, the GAC media should be laid out on the top of a compost heap for a few days, and then mixed in. It will become great compost. The polishing filters have plastic end caps, but are almost all carbon. Thus, they need to be thrown out, but the carbons will biodegrade.

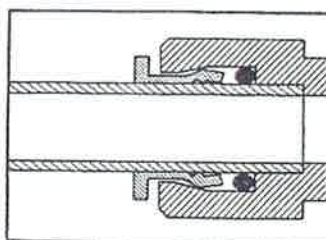
## JG Fittings

### PLASTIC TUBING

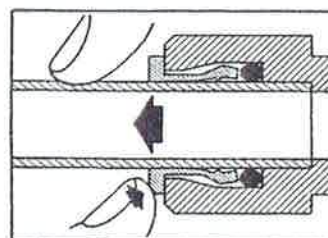
1. Cut tube ends square and straight. Do not deform the tube (i.e., cause tube to compress its diameter so it is no longer round).
2. Make sure the outer surface of the tube is clear of marks or scratches for a length equal to twice the tube diameter. This allows the "O" ring to seat properly against the tube (See Figure 3).
3. Avoid sharp changes in direction when routing the tubing. Sharp turns cause the tubing to flex and deform which reduces its flow capacity.



Push tube through Collet into Body



Tube must seat firmly at bottom of fitting



Push Collet against Body to release tube

Figure 3 How to Use Quick-Connect Fittings

### QUICK-CONNECT FITTINGS

Fittings consist of two parts: a Body and a colored Collet. The Collet color corresponds to the tubing color to be used at that connection (See Figure 3).

1. To install a tube, push it through the Collet until it seats firmly at the bottom of the fitting.
2. To remove a tube, push and hold the Collet against the Body while pulling the tube out.

**NOTE:** Systems are shipped with a plug in each fitting (prevents leakage of sanitizing fluid). Remove a plug in the same manner as a tube.



The Push-fit solution for Plumbing and Heating Systems

ANGLE STOP VALVE (ASVPP1LF & ASVPP2LF)

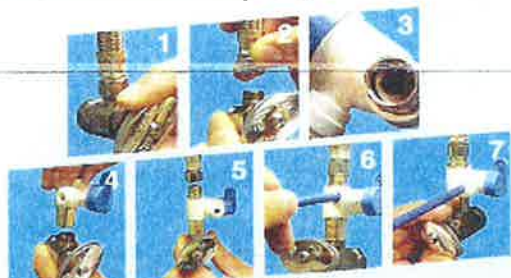
**LEAD FREE - MEETS AB1953**

#### Installation User Instructions

**Introduction:** The John Guest Angle Stop Valve connects between the supply valve and riser to the main water supply line, for applications in Reverse Osmosis, Filtration Systems, Automatic Coffee Brewers, Ice-makers, and many more.

Please read these instructions carefully before installing this product.

Please refer to the John Guest Speedfit Installation Guide and Technical Check List for all other information or visit our website at [www.johnguest.com](http://www.johnguest.com).



1. Shut off water supply at brass chrome supply valve.
2. Disconnect riser from brass chrome supply valve.
3. Ensure that the sealing gasket is fully seated into the Angle Stop Valve female thread.
4. Install Angle Stop Adapter Valve on supply valve.
5. Connect the riser to the Angle Stop Adapter Valve.
6. Fully insert tubing into the Speedfit side of the valve.
7. Open valves and check for leaks.



The Push-fit solution for Plumbing and Heating Systems

ANGLE STOP VALVE (ASVPP3LF & ASVPP3RF)

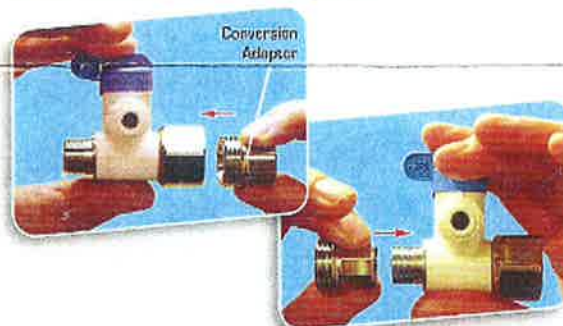
**LEAD FREE - MEETS AB1953**

#### Installation User Instructions

**Introduction:** The John Guest Angle Stop Valve connects between the supply valve and riser to the main water supply line, for applications in Reverse Osmosis, Filtration Systems, Automatic Coffee Brewers, Ice-makers, and many more.

Please read these instructions carefully before installing this product.

Please refer to the John Guest Speedfit Installation Guide and Technical Check List for all other information or visit our website at [www.johnguest.com](http://www.johnguest.com).





Conversion Adapter can be threaded either side of valve to make configurations of 1/2" x 1/2" NPS or 3/8" x 3/8" Compression.




**FOR INSTALLATION SEE OVERLEAF**

Z211693280110

## UV Light Devices

### **Safety Instructions:**

-  **WARNING** - Always shut-off water flow and release water pressure before servicing.
-  **WARNING** - to guard against injury, basic safety precautions should be observed, including the following:

1. **READ AND FOLLOW ALL SAFETY INSTRUCTIONS.**
-   2. **GROUNDING** - This product must be grounded. If it should malfunction or breakdown, grounding provides a path of least resistance for electric current to reduce the risk of electrical shock. This system is equipped with a cord having an equipment-grounding conductor and a grounding plug. The plug must be plugged into an appropriate outlet that is properly installed and grounded in accordance with all local codes and ordinances.  
**DANGER** - Improper connection of the equipment-grounding conductor can result in a risk of electrocution. Check with a qualified electrician or service personnel if you are in doubt as to whether the outlet is properly grounded. Do not modify the plug provided with this system - if it will not fit the outlet, have a proper outlet installed by a qualified electrician. Do not use any type of adapter with this system.
-   3. **GROUND FAULT CIRCUIT INTERRUPTER PROTECTION** - To comply with the National Electrical Code (NFPA 70) and to provide additional protection from the risk of electric shock, this system should only be connected to a properly grounded, grounding-type power supply receptacle that is protected by a Ground Fault Circuit Interrupter (GFCI). Inspect operation of GFCI as per manufacturer's suggested maintenance schedule.
-  4. **CAUTION** - Always disconnect power before servicing.
-   5. **DANGER** - To avoid possible electric shock, special care should be taken since water is present near electrical equipment. Unless a situation is encountered that is explicitly addressed by the provided maintenance and troubleshooting sections, do not attempt repairs yourself, refer to an authorized service facility.
-   6. Carefully examine the disinfection system after installation. It should not be plugged in if there is water on parts not intended to be wet such as, the ballast or lamp connector.
-   7. Do not operate the disinfection system if it has a damaged cord or plug, if it is malfunctioning or if it has been dropped or damaged in any manner.
-   8. Always unplug the disinfection system before performing any cleaning or maintenance activities. Never yank the cord to remove from an outlet; grasp the wall plug and pull to disconnect.
-  9. Do not use this disinfection system for other than intended use (potable water applications). The use of attachments not recommended or sold by the manufacturer / distributor may cause an unsafe condition.

**Note:** The UV lamp inside of the disinfection system is rated at an effective life of approximately 8000 hours. To ensure continuous protection, replace the UV lamp annually.



- ▲ 10. Intended for indoor use only. Do not install this disinfection system where it will be exposed to the weather or to temperatures below freezing. Do not store this disinfection system where it will be exposed to the weather. Do not store this disinfection system where it will be exposed to temperatures below freezing unless all water has been drained from it and the water supply has been disconnected.
- ▲ 11. Read and observe all the important notices and warnings on the water disinfection system.
- ▲ ● 12. **EXTENSION CORDS** - If an extension cord is necessary, use only 3-wire extension cords that have 3-prong grounding-type plugs and 3-pole cord connectors that accept the plug from this system. Use only extension cords that are intended for outdoor use. Use only extension cords having an electrical rating not less than the rating of the system. A cord rated for less amperes or watts than this system rating may overheat. Exercise caution when arranging the cord so that it will not be tripped over or pulled. Do not use damaged extension cords. Examine extension cord before using and replace if damaged. Do not abuse extension cord. Keep extension cord away from heat and sharp edges. Always disconnect the extension cord from the receptacle before disconnecting this system from the extension cord. Never yank cord to pull plug from outlet. Always grasp the plug and pull to disconnect.
- ▲ 13. The UV system is not to be used or played with by children. Persons with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, are also not to handle the UV system unless they have been given supervision or instruction.
- 14. SAVE THESE INSTRUCTIONS
- ▲ ● **Warning:** The UV light given off by this unit can cause serious burns to unprotected eyes and skin. Never look directly at an illuminated UV lamp. When performing any work on the UV disinfection system always unplug the unit first. Never operate the UV system while the UV lamp is outside of the UV chamber.

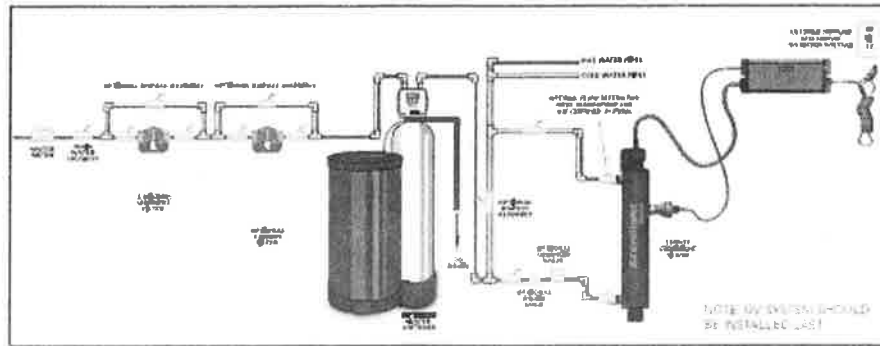
Water quality is extremely important for the optimum performance of your UV system. The following levels are recommended for installation:

- Iron: < 0.3 ppm (0.3 mg/L)
- Hardness\*: < 7 gpg (120 mg/L)
- Turbidity: < 1 NTU
- Manganese: < 0.05 ppm (0.05 mg/L)
- Tannins: < 0.1 ppm (0.1 mg/L)
- UV Transmittance: > 75% (call factory for recommendations on applications where UVT < 75%)

\* Where total hardness is less than 7 gpg, the UV unit should operate efficiently provided the quartz sleeve is cleaned periodically. If total hardness exceeds 7 gpg, the water should be softened. If your water chemistry contains levels in excess of those mentioned above, proper pre-treatment is recommended to correct these water problems prior to the installation of your UV disinfection system. These water quality parameters can be tested by your local dealer, or by most private analytical laboratories. *Proper pre-treatment is essential for the UV disinfection system to operate as intended.*

### Installing your UV Disinfection System:

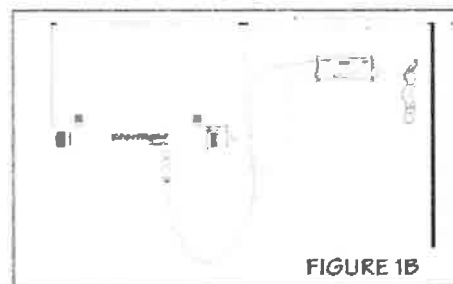
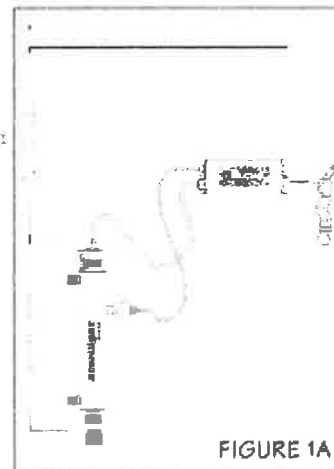
- **CAUTION**, electronic ballast must be connected to a grounded receptacle and the lamp connector ground wire connected to the stainless steel reactor chamber.
- The disinfection system is designed to be mounted either horizontally or vertically at the point-of-use or point-of-entry depending on the specific flow rate of the unit. **Note:** The ideal installation is vertical with the lamp connector on top. This is to prevent water damage from occurring on the lamp pins and lamp connector.
- The ballast should be mounted either above or beside the reactor chamber. Never mount vertically with AC connector at top of ballast to prevent moisture from running down cordage and causing a potential fire hazard. Drip loops in all cordage connected to ballast controller is highly recommended (see figure 1D).
- The complete water system, including any pressure or hot water tanks, must be sterilized before start up by flushing with chlorine (household bleach) to destroy any residual contamination (see page 6).
- For safety purposes, the disinfection system should be connected to a ground fault interrupt circuit.
- The disinfection system is intended for indoor use only, do not install disinfection system where it may be exposed to the weather.
- Install the disinfection system on cold water line only.
- If treating the entire house, install the disinfection system before any branch lines.
- A 5 micron sediment filter must precede the disinfection system. Ideally, the disinfection system should be the last treatment the water receives before it reaches the faucet.



- ▲ 1 The above picture shows the installation of a typical disinfection system and the related components that may be used for the installation. The use of a by-pass assembly is recommended in case the system requires "off-line" maintenance. If this is the case, it must be noted that the system will require supplementary disinfection of the distribution system if any water is used during this by-pass condition. In addition, during by-pass, the water will NOT be disinfected and the attached **"DO NOT CONSUME THE WATER"** tag (included with the system), should be physically installed on the by-pass assembly until such time as the system is sanitized and returned to service. Please refer to the complete disinfection procedure as outlined on page 7 of this document. If the water is to be consumed while the system is off-line, the water must be boiled for twenty minutes prior to consumption.



- ▲ 2. Select a suitable location for the disinfection system and its related components. As it is recommended to install a ground fault protected circuit (GFCI), make sure that this is taken into consideration prior to any installation. The system can either be installed vertically (inlet port at the bottom) (Figure 1A), or horizontally (Figure 1B), however the vertical installation is the most preferred method. When selecting a mounting location, you must also leave enough space to allow for the removal of the UV lamp and/or quartz sleeve (typically leave a space equal to the size of the reactor chamber itself).  
*(Note: Installation drawings show Silver "PLUS" system with UV sensor for representation purpose only)*



- ▲ 3. Mount the system to the wall using the supplied clamps. Various connection methods can be used to connect the water source to the system, however union type connectors are recommended. The use of a flow restrictor device is strongly recommended when installing your system in order to maintain the manufacturer's rated flow rate. The flow restrictor should be installed on the outlet port and is designed to be installed in one direction only. Ensure that the flow of the water matches the flow direction as indicated on the flow restrictor (Figure 1C). **DO NOT SOLDER CONNECTIONS WHILE ATTACHED TO THE SYSTEM AS THIS COULD DAMAGE THE O-RING SEALS.**
- ▲ 4. Mount the Silver ICE controller horizontally to the wall, near the reactor chamber. Ideally place the controller above the reactor and away from any water connection point, to prevent any water from potentially leaking onto the controller by means of a leak at a connection point or a "sweating" system. Make sure you allow for a "drip-loop" (Figure 1D) on the lamp, sensor and power cord, again, to prevent any water from potentially entering the controller.
- ▲ 5. Install the UV lamp and UV sensor as outlined on pages 7-9.
- ▲ 6. When all plumbing connections are made, slowly turn on the water supply and check for leaks. The most likely cause for leaks is from the o-ring seal. In case of a leak, shut water off, drain cell, remove the retaining nut, wipe the o-ring and threads clean and re-install.
- ▲ 7. Once it is determined that there are no leaks, plug the system into the ground fault interrupter, and check controller to ensure the system is operating properly. The controller is designed to detect both power to the system and lamp illumination. It is important to **NEVER LOOK DIRECTLY AT THE GLOWING UV LAMP**.
- ▲ 8. Allow the water to run for a few minutes to clear any air or dust that may be in the reactor chamber. **PLEASE NOTE:** When there is no flow, the water in the cell will become warm, as the UV lamp is always on. To remedy this, run a cold water tap anywhere in the house for a minute to flush out the warm water.

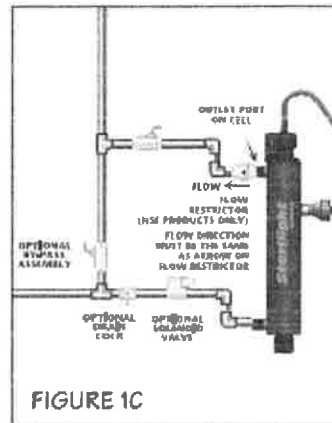


FIGURE 1C

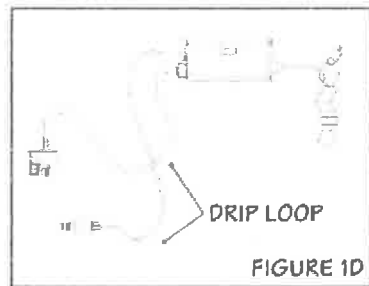


FIGURE 1D

## Disinfection Procedure:

UV disinfection is a physical disinfection process and does not add any potentially harmful chemicals to the water. As UV does not provide a disinfection residual, it is imperative that the entire distribution system located after the UV be chemically disinfected to ensure that the water is free from any bacteriological contaminants. The disinfection process must be performed immediately after the UV unit is installed and repeated thereafter whenever the UV is shut down for service, without power, or inoperative for any reason. The procedure for sanitizing the plumbing system is readily accomplished as follows:

1. Shut off the upstream water supply that feeds water into the reactor chamber and depressurize water system. Remove the pre-filter cartridge and fill the sump with 1-2 cups of household (5.25%) bleach (chlorine) – Do NOT use hydrogen peroxide. At all times during this process, make sure the UV unit (and lamp) is turned on and operational!
2. Re-pressurize water system, open each faucet and allow cold water to run until you smell chlorine, shut the faucet off and then repeat the process for each faucet, including hot water. You must ensure that all taps, including outside faucets, dishwashers, shower heads, washing machines, connections to refrigerators, toilets, etc., pass chlorinated water.
3. Once all the locations have passed the chlorine disinfection solution, you will need to leave the solution sit for a period of 20 – 30 minutes. Reinstall the pre-filter cartridge into the filter and then flush the chlorine solution from the system until no chlorine smell is detectable. Make sure that each fixture that was disinfected in step two is completely flushed of the chlorine solution as the consumption of this water is not advised due to the extremely high concentrations of chlorine. It is important to remember that in the event that a UV is briefly shut down for routine cleaning or during power interruptions where water could have passed through the system, the aforementioned procedure must also be followed.

**Note A:** The addition of chlorine (bleach) to a hot water tank that has in the past been fed with untreated raw water with high levels of other contaminants (iron, manganese, hydrogen sulphide, organics, etc.) will result in oxidation of these contaminants and may require repeated flushing of the hot water tank. This contingency must be dealt with independently under the start-up procedure for any other conditioners that may form a part of the pre-treatment for the UV unit.


**Note B:** The above procedure (Steps 1 to 3) will result in a massive chlorine residual far in excess of the 0.5 to 1.0 mg/l, typically present in municipally chlorinated water and of a magnitude consistent with the minimum 50 mg/L chlorine solution recommended for the disinfection of distribution systems known to be contaminated. Do not consume water until complete system has been flushed.


**PLEASE NOTE:** As the Silver "Plus" systems include a 254nm UV intensity monitor, it should be noted that the introduction of the bleach solution required for disinfection WILL trigger a temporary low UV condition. This is due to the fact that the bleach physically "clouds" the raw water. Once the bleach runs through the system, the alarm condition will return to normal. During this sanitization process, the audible alarm condition on the Silver "Plus" controller can be temporarily deferred by pressing the "RESET" switch for 5 seconds. By doing this, the audible alarm will be silenced and the solenoid relay will close (AC power will be provided to the normally closed (NC) solenoid, allowing water to pass through the system). The system will display **R2** on the controller LED. This condition will remain for 12 hours unless the system is manually reset as outlined on page 11 of this manual.

## OPERATION

- Always disconnect power before performing any work on the disinfection system.
- Regularly inspect your disinfection system to ensure that the power indicators are on and no alarms are present.
- Replace the UV lamp annually (or biennially if seasonal home use) to ensure maximum disinfection.
- Always drain the reactor chamber when closing a seasonal home or leaving the unit in an area subject to freezing temperatures.




### Operating & Maintenance Instructions:

 **Warning:** Always shut-off water flow and release water pressure before servicing.

 **Caution:** prior to performing any work on the disinfection system, always disconnect the power supply first.

#### UV Lamp Replacement :

**NOTE: RESET LAMP LIFE TIMER AFTER LAMP REPLACEMENT (PG 10) – refer to [www.lamprecycle.org](http://www.lamprecycle.org) for lamp disposal**

-  **1 DO NOT USE WATER DURING THIS PROCEDURE.** Lamp replacement is a quick and simple procedure requiring no special tools. The UV lamp must be replaced after 9,000 hours of continuous operation (approximately one year) in order to ensure adequate disinfection.
-  **2** Disconnect main power source and allow the unit to power down for 30 sec. Remove the lamp connector by squeezing the plastic locking tabs on the side of the connector. Remove connector and lamp from the reactor chamber and lamp connector base. Separate the lamp from the connector (Figure 2A). Do not twist the lamp from the connector, simply slide the two apart. Avoid touching the lamp on the glass portion. Handling the lamp at the ceramic ends is acceptable, however if you must touch the lamp glass, please use gloves or a soft cloth. Fully remove the lamp from the reactor chamber being careful not to angle the lamp as it is removed from the chamber. If the lamp is removed on an angle, pressure will be applied on the inside of the quartz sleeve, causing the sleeve to fracture.
-  **3.** To install a new lamp, first remove the lamp from its protective packaging, again being careful not to touch the lamp glass itself. Carefully insert the lamp into the reactor vessel (actually inside the quartz sleeve) (Figure 2B). Insert the lamp fully into the chamber leaving about two inches of the lamp protruding from the chamber. Next, attach the connector to the UV lamp (Figure 2A). The connector will only allow correct installation in one position. Ensure the connector is fully seated onto the UV lamp (Figure 2C).
- 4** Once the lamp is fully seated on the connector, slide the connector over the retaining nut and lamp. Push the lamp connector and lamp connector base together until an audible click is heard.

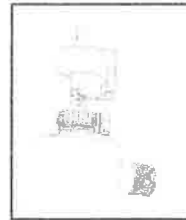


FIGURE 2A



FIGURE 2B



FIGURE 2C

### Quartz Sleeve Replacement / Cleaning:

1. If the water contains any hardness minerals (calcium or magnesium), iron or manganese, the quartz sleeve will require periodic cleaning. To remove the quartz sleeve, first remove the UV lamp as outlined in step 1.4 (page 7-8) then perform the following steps:

- a) Shut off water supply and drain all lines.
- b) Remove the lowest connection on the disinfection system and drain the UV chamber (use a small bucket under the unit to prevent a spill). Note: On S120 PA & SSM-39 systems, the reactor is provided with a 1/4" drain port. On this system, simply remove drain plug and allow water to drain into a bucket.
- c) Remove retaining nuts from both ends of the reactor chamber (Figure 3A), checking for the free floating spring inside sleeve at the opposite end to the lamp connection (do not allow quartz sleeve to fall).
- d) Carefully remove o-rings from the quartz sleeve (Figure 3A). As the o-ring may tend to adhere to the quartz sleeve, it is recommended to replace the o-rings annually. Remove quartz sleeve carefully from chamber.
- e) Clean the outside of the quartz sleeve with a cloth soaked in CLR, vinegar or some other mild acid and then rinse.
- f) Re-assemble the quartz sleeve in the UV chamber allowing the sleeve to protrude an equal distance from both ends of the UV chamber (Figure 3B).
- g) Wet the o-rings and slide onto each end of the quartz sleeve and reassemble the retaining nuts (hand tight is sufficient), slide spring into quartz sleeve. Use new o-rings supplied.
- h) Re-tighten all connections, turn on water slowly and check for leaks.
- i) Re-install the UV lamp and lamp connector as per UV Lamp Replacement instructions on page 8.
- j) Plug in ballast and verify the POWER-ON LED display is illuminated and ballast power up sequence operates.

Note: If the system is put on a temporary by-pass or if it becomes contaminated after the disinfection system, it will be necessary to shock the system with household bleach for a full 20 minutes before resuming the use of the water.

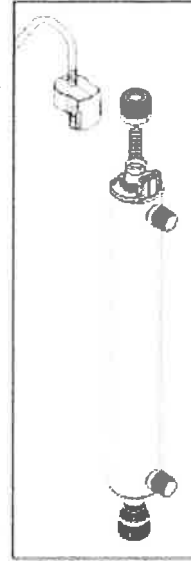


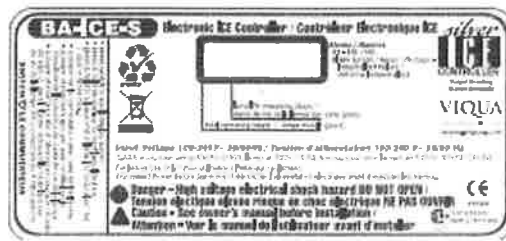
FIGURE 3A





FIGURE 3B

## Operation:

### Basic Systems incorporating BA-ICE-S controller:



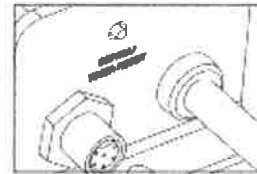
#### 1. Lamp life remaining (days):

 The controller tracks the number of days of operation of the lamp and the controller. The default screen will display the total lamp life remaining (in days). The controller will count down the number of days remaining until the lamp requires changing (365 days to 1 day). At "0" days, the controller will display  on the display and supply an intermittent audible chirp (1 second on, 5 seconds off), indicating the need to change the lamp.

**DEFERRAL** - Once the "A3" or end of lamp life message is shown on the LED screen, the audible alarm can be deferred up to 4 separate times. The delay is designed to allow you time to address the alarm while you obtain a new UV lamp. This can be done by simply depressing the timer reset button for 5 seconds, which is located on the left side of the controller. Each time the timer reset button is pressed the controller alarm is deferred seven days. Once the final 7 day deferral has been reached the alarm can only be silenced by changing the UV lamp and manually resetting the controller timer. To do this please follow the step by step instructions below:

#### **RESETTING LAMP LIFE:**

1. disconnect power supply from controller
2. disconnect lamp connector and remove expired lamp from the reactor chamber (refer to [www.lamprecycle.org](http://www.lamprecycle.org) for lamp disposal)
3. install new UV lamp and re-connect it to lamp connector (refer to page 8)
4. re-connect lamp connector to lamp connector base
5. hold down the timer reset button while reapplying power to the controller until you see "RESET" then release
6. 5 second delay will occur until you hear an audible tone & LED display will read once again





Once you hear the tone, let go of the reset button and the counter will be reset. Even though the alarm on the system can be deferred for a period of time, it is important to address each and every alarm condition as they are indicating that there is a potential problem with the system and should be remedied.

#### 2. Total days of operation:

The controller also displays the total running time of the controller. To obtain this reading, press the push-button once. The total running time of the controller will be numerically displayed in days. This information will remain displayed for ten seconds and will then revert back to the lamp life remaining default screen. It should be noted that this value cannot be reset.



#### 3. Lamp failure (blank screen):

When the system recognizes LAMP FAILURE (no current running through the lamp), the 4-segment display will be blank (no default LAMP LIFE REMAINING screen) and the system will supply an intermittent audible tone (1 second on, 1 second off). The system will remain in this state, until this condition is remedied.





**Possible causes for low UV alarm conditions:**

- a) The UV lamp has perhaps reached a level whereby it can no longer adequately provide a sufficient level of disinfection due to age (> 9000 hours). The lamp should be replaced with a new lamp from the manufacturer of the same size and type.
- b) The quartz sleeve and/or the sensor window have become stained or dirty. Mineral deposits or sediment in the water that was not detected during the original water analysis may be the cause for this (refer to page 8 for cleaning instructions).
- c) Intermittent voltage drop in the household power supply reducing the lamp output. The lamp will return to normal when the power is restored to full voltage. **Note: the monitoring system will not operate during power failures.**
- d) The quality of the influent water has changed and is no longer within the acceptable operational range of the UV system. Perform a water analysis to determine the exact constituents and concentration levels.
- e) The UV sensor is not installed correctly (see page 9).

**2. Lamp life remaining (days):**



To obtain this reading, press the timer reset button a single time and follow the steps as outlined on page 11, regarding the operation of this feature.

**3. Total days of operation:**



To obtain this reading, press the timer reset button two times in succession and follow steps as outline on page 11, regarding the operation of this feature.

**4. Lamp failure (blank screen):**



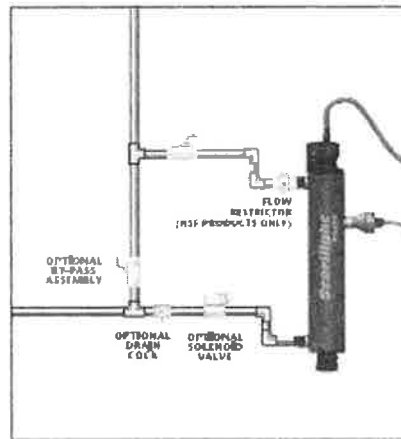
Please refer to page 10 for explanation of this feature.

**Note:** On the Silver "Plus" systems, the audible tone provided for lamp failure is a continuous alarm, rather than the intermittent (1 second on, 1 second off) condition on the basic Silver systems.

**5. Solenoid Output:**

Working in conjunction with the UV intensity monitor, the Silver "plus" controller provides a powered (line voltage) IEC solenoid output connector. (Note: this is not a dry contact). This solenoid output is protected with a replaceable 2 amp isolated fuse. Connection from this output to the solenoid can be done using the IEC solenoid power cable PN 260135. When the UV intensity monitor senses that the water is not adequately being treated and drops to 49% UV intensity or below, the internal relay is opened thereby stopping AC power flowing to the normally closed solenoid valve. The valve will remain closed (no power) until the UV level rises above 49%, at which time the solenoid will open, allowing for water to pass through.

*(To temporarily enable the operation of this solenoid output for up to 12 hours, please refer to the instructions outlined on page 12 of this manual)*



**SOLENOID INSTALLATION**

**NOTE: DURING BYPASS, THE "DO NOT CONSUME THE WATER" tag included with this manual should be placed in a prominent location and the water should NOT be consumed until the system has returned to a safe condition.**

## Troubleshooting:

| TROUBLESHOOTING GUIDE               |   |  |
|-------------------------------------|---|--|
| Symptom                             | Possible Causes   | Solutions  |
| Pressure Drop                       | Sediment pre-filter clogged   | <ul style="list-style-type: none"> <li>replace filter cartridge with appropriate 5 micron cartridge</li> <li><b>Note:</b> check source water supply as fluctuations may occur in source pressure</li> </ul>  |
|                                     | Flow regulator  | <ul style="list-style-type: none"> <li>flow regulator will result in pressure drop when approaching full flow</li> </ul>   |
| High Bacteria Counts                | Quartz sleeve is stained or dirty   | <ul style="list-style-type: none"> <li>clean sleeve with scale cleaner and eliminate source of staining problem (ie. softened hard water, see page 8)</li> </ul>   |
|                                     | Change in feed water quality  | <ul style="list-style-type: none"> <li>have source water tested to ensure that water quality is still within allowable limits for this system</li> </ul>   |
|                                     | Contamination to water lines after UV system  | <ul style="list-style-type: none"> <li>it is imperative that effluent water stream be shocked with chlorine (bleach) before water leaves UV system - disinfection system must have a bacterial free distribution system to work effectively (see page 6)</li> </ul>                |
|                                     | Possible break-through of sediment through pre-filter                                     | <ul style="list-style-type: none"> <li>have source water tested for turbidity - may need stepped filtration in order to catch all sediment entering water system (20 micron filter followed by a 5 micron filter followed by UV system)</li> </ul>                                 |
| Heated Product Water                | Common problem caused by infrequent use of water  | <ul style="list-style-type: none"> <li>run water until it return to ambient temperature</li> </ul>   |
| Water Appears Milky                 | Caused by air in the water lines  | <ul style="list-style-type: none"> <li>run water until air is purged</li> </ul>  |
| Unit Leaking Water                  | Problem with o-ring seal (on retaining nut and/or UV sensor)                              | <ul style="list-style-type: none"> <li>ensure o-ring is in place, check for cuts or abrasions, clean o-ring, moisten with water/lubricant and re-install, replace if necessary (410867)</li> </ul>   |
|                                     | Condensation on reactor chamber caused by excessive humidity & cold water                 | <ul style="list-style-type: none"> <li>check location of disinfection system and control humidity</li> </ul>   |
|                                     | Inadequate inlet/outlet port connections  | <ul style="list-style-type: none"> <li>check thread connections, reseal with Teflon<sup>®</sup> tape and re-tighten</li> </ul>   |
| System Shutting Down Intermittently | Interrupted power supply  | <ul style="list-style-type: none"> <li>ensure system has been installed on its own circuit, as other equipment may be drawing power away from UV (ie. pump or fidget)</li> <li>UV system should not be installed on a circuit which is incorporated into a light switch</li> </ul> |
| Lamp Failure Alarm on - New Lamp    | Loose connection between lamp and connector   | <ul style="list-style-type: none"> <li>disconnect lamp from connector and reconnect, ensuring that a tight fit is accomplished</li> </ul>  |
|                                     | Moisture build up in connector may keep lamp and connector from making a solid connection | <ul style="list-style-type: none"> <li>eliminate chance of any moisture getting to the connector and/or lamp pins</li> </ul>   |



## **Emergency Protocol**

### ***In the event of failed tests:***

- *Signs shall be posted on water stations stating "Not in Service"*
- *Multiple 1 Gallon jugs shall be supplied at all water stations until new test results pass.*
- *Operator shall inspect and clean all lines, fittings and spigots and re-test water and send to labs.*
- *Water stations not to be used until test results demonstrate water to be safe for use.*

### ***In the event of water outages:***

- *Signs shall be posted on water stations stating "Not in Service".*
- *Multiple 1 Gallon jugs shall be placed at all water stations until water flow is re-instated.*
- *The operator shall troubleshoot well, pump and storage tanks.*
- *Laytonville Water District will be the primary back up for providing potable water delivery during the event if total water system failure occurs.*

### ***In the event of breaks in supply lines or broken fittings:***

- *Signs shall be posted on water stations stating "Not in Service"*
- *Replacement lines, fittings and related equipment will be stored on site.*
- *Operator shall inspect lines and fittings and replace any parts that show damage.*
- *System shall flow for 5 minutes after replacement to demonstrate lines and fittings are in working order and sign shall be removed.*



**Northern Nights Music Festival  
2015 Avian Study**

The following correspondence was received from Angela M. Liebenberg of the Department of Fish & Wildlife on February 3<sup>rd</sup>, 2015 and the remainder of this document provide the required documentation:

*Dusty –*

*This is in response to the request for comments on Use Permit Modification UM 5-2013/2014, Northern Nights Music Festival. On January 20, 2015, I attended a site visit with Dusty Duley (County of Mendocino), Jen Olson (CDFW), Keith Bowman (landowner), Peter Huson (Northern Nights Music Group), and other staff.*

*The original Use Permit authorized a music festival with amplified music and temporary facilities with a maximum of 4,000 people in attendance. The Modification would allow for 5,000 attendees in 2015 and 6,000 in 2016, with an increase in parking, camping and sanitary facilities to accommodate the additional participants.*

*The Final Findings and Conditions of Approval issued by the County on May 18, 2014 included many protective measures to avoid or minimize potential impacts. Important provisions included water sampling, water use monitoring, vehicle parking protocols, and requirements for adequate water, sanitation, and solid waste facilities.*

*The following recommendations refer to Conditions in the May 18, 2014 Final Findings and Conditions of Approval:*

- a. On site, project proponents specified that the bulk of waste generated during the event would be removed within less than one week, with additional litter pick-up occurring over the course of two weeks. Condition 9 should specify this.*
- b. The first sentence of Condition 14 should be edited to read “No material with the potential to be deleterious to fish, plant life, mammals or bird life shall be placed into, or where it may pass into, any stream or watercourse.”*
- c. County staff indicated that a protocol exists for sequestering leaking or otherwise problematic vehicles. The protocol should be referred to in Condition 16 and appended to project documents.*

*I recommend that the following are included as enforceable conditions of approval of Use Permit Modification UM #5-2013/2014:*

- 1. Stabilizing areas of the gravel bar for placement of portable toilets. Work on the gravel bar shall be kept to the minimum necessary to stabilize sites identified on project maps for placement of, and access to, portable toilets and associated facilities (hand wash stations, etc.). Care shall be taken to avoid excessive compaction of the gravel bar. Work outside of these parameters, including any amount of grading, may require a Lake or Streambed*
-

*Alteration Agreement (LSAA) from CDFW. The need for an LSAA shall be determined through consultation with CDFW. Notification forms and additional information are available at <https://www.wildlife.ca.gov/Conservation/LSA/Forms>.*

*2. Portable toilets placed on gravel bar. Portable toilets shall be placed only as indicated on project maps and discussed during the site visit. If any spillage or leakage from portable toilets occurs, applicant (or designated representative) shall proceed with clean-up of spilled materials, including contaminated gravel. In the case of such an incident, applicant (or designated representative) shall follow the emergency response plan as prescribed by the County. CDFW shall be notified using forms and instructions available at <https://www.wildlife.ca.gov/Conservation/LSA/Forms>.*

*3. Nesting birds. Nesting birds or occupied nests shall not be disturbed or disrupted by project activities. Some bird species such as killdeer (*Charadrius vociferous*) are cryptic ground nesters known to utilize gravel bars for nesting activities. Riparian vegetation provides suitable habitat for a variety of nesting birds. In order to avoid potential take of the nest or eggs of any bird (prohibited pursuant to Fish and Game Code Sections 3503 and 3503.5), nest surveys shall be conducted by a qualified biologist within 14 days prior to the start of project-related activities, and within 14 days prior to the start of the Northern Nights Music Festival. (If all activities will take place within a two-week period, a single survey is acceptable.) The detailed survey results shall be submitted to the County and CDFW for review prior to commencement of site preparation activities and/or the Northern Nights Music Festival. CDFW will provide review and comment within five (5) business days of report submittal. Depending on site-specific conditions, CDFW may recommend buffers of 50 or more feet between identified nests and project activities, and/or other measures to avoid disturbance or take of nests.*

*4. Buffer. A buffer of no less than 30 feet shall be maintained between all project activities and the wetted channel of South Fork Eel River.*

*Thank you for the opportunity to comment. If you have questions or need additional information, please feel free to contact me at [angela.liebenberg@wildlife.ca.gov](mailto:angela.liebenberg@wildlife.ca.gov) or (707) 964-4830.*

*- Angela*

*Angela M. Liebenberg  
Environmental Scientist  
California Department of Fish and Wildlife  
Coastal Conservation Planning  
32330 North Harbor Drive  
Fort Bragg, CA 95437  
(707) 964-4830  
[angela.liebenberg@wildlife.ca.gov](mailto:angela.liebenberg@wildlife.ca.gov)*

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**Avian Nest Survey for Northern Nights Music Festival (July 17-19 2015)**

**By: Tony Chasar**

**mrtony123@gmail.com**

**Center for Tropical Research, Institute of the Environment and Sustainability,  
University of California, Los Angeles**

**Background:**

The Northern Nights Music Festival (NNMF) is to be held on July 17-19 on Cook's Valley Campground in Piercy, CA. Per California Department of Fish & Wildlife recommendations, an Avian Survey was conducted on July 1<sup>st</sup>, 2015 along the Eel River bar prior to commencement of festival activities.

**Methods:**

Transect surveys were conducted to locate any occupied bird nests both on the ground and in the riparian vegetation along the South Fork of the Eel River 1000 feet before and after the site area where project activity and the NNMF will take place (see Figure 1).

Transects were walked 1000 feet in either direction of the site area and visual scans were conducted searching for all avian species in the vicinity and data was collected including the species, number of individuals and behavior (see Table 1).

**Conclusions:**

On July 1<sup>st</sup>, 2015, two surveys were carried out at the site area to locate any possible avian nests. The first survey was conducted at 0700 in the morning and again at 1900. We conclude that no avian species are currently nesting in the vicinity of the NNMF site preparation activities. The same transects will be walked daily once in the morning or in the evening prior to as well as during the music event. Any and all species seen will be recorded and the data will be available on request.



**Figure 1**



**Table 1**

| Transect | Species Present   | Individuals Sighted     | Activity            | Nests |
|----------|---|-------------------------|---------------------|-------|
| A        | Swallow ( <i>Hirundo spp.</i> )<br>Turkey vulture ( <i>Cathartes aura</i> ) | 2 adults<br>1 adult     | Flying              | None  |
| A        | Common Merganser ( <i>Mergus merganser</i> )                                | 1 adult, 6<br>juvenile  | Feeding in<br>river | None  |
| A        | Common ravens ( <i>Corvus corax</i> )                                       | 2 adults                | Flying              | None  |
| A        | Crow ( <i>Corvus brachyrhynchos</i> )                                       | 1 adult                 | Vocalizing          | None  |
| B        | Song Sparrow ( <i>Melospiza melodia</i> )                                   | 1 adult                 | Vocalizing          | None  |
| B        | Crow ( <i>Corvus brachyrhynchos</i> )                                       | 2 adults, 1<br>juvenile | Perched             | None  |
| B        | Great Blue Heron ( <i>Ardea herodias</i> )                                  | 1 adult                 | Feeding             | None  |

# Exhibit C

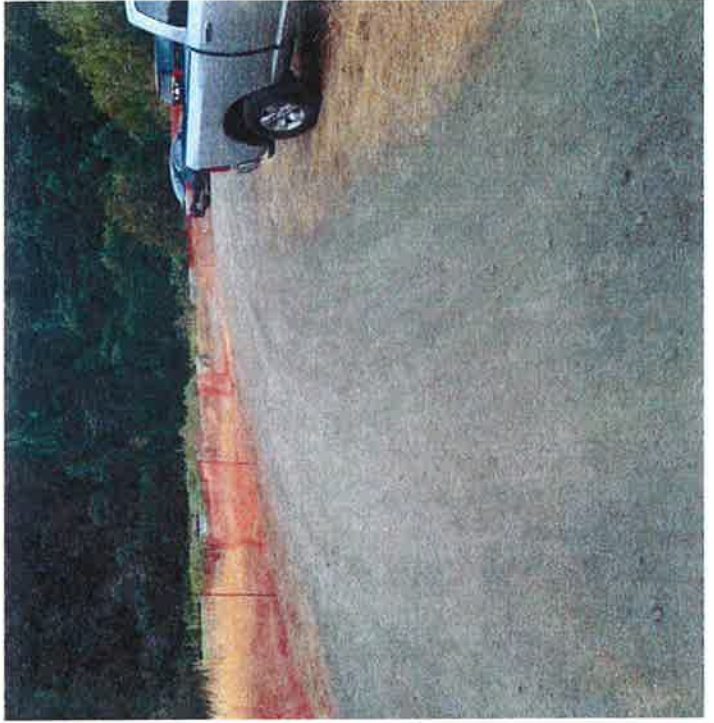


Clockwise From Top: [Image #1 & 2] Typical signage prohibiting general entry into Camping Areas within Humboldt County. All entry ways were continuously monitored by security who ensured persons had authority to enter camping area.

[Image #3] Demonstrative image of camping area within Humboldt County. Camping for staff. No general admissions. No amplified music was observed. Fencing outside of identified camping area was installed to confine camping to approved area.



Above: [Left] Typical parking layout. Note: Adequate fire lanes and all cars are independently accessible. [Right] example of sanitary facilities in parking area  
 Below: [Left] Typical example of waste disposal and sanitary facilities. Trash, recycling, portasans, handwashing facilities, water filling stations included  
 [Right] Example of fencing preventing pedestrian river access. Road is for access to additional parking areas & emergency vehicular access .





Above: [Left and Right] View of cars parked closest to river bar and adjacent Emergency Access Route (note: Countyline Safety Station was Identified, however staff neglected photograph)

Below: [Left] example of berm to prevent vehicular access to river bar (berm located outside of SMA) [Right] example of fencing to prohibit pedestrian river access



STATE OF CALIFORNIA • DEPARTMENT OF TRANSPORTATION  
**ENCROACHMENT PERMIT**  
 TR-0120 (REV 6/2012)

|                                      |                                   |
|--------------------------------------|-----------------------------------|
| Permit No.<br>0115-6-TK-0149         |                                   |
| Dist/Co/Rte/PM<br>01-MEN.HUM-101-VAR |                                   |
| Date<br><i>26 JUNE 2015</i>          |                                   |
| Fee Paid<br>\$                       | Deposit<br>\$ 820.00              |
| Performance Bond Amount (1)<br>\$    | Performance Bond Amount (2)<br>\$ |
| Bond Company                         |                                   |
| Bond Number (1)                      | Bond Number (2)                   |

In compliance with (Check one):

- Your application of \_\_\_\_\_ April 29, 2015
- Utility Notice No. \_\_\_\_\_ of \_\_\_\_\_
- Agreement No. \_\_\_\_\_ of \_\_\_\_\_
- RW Contract No. \_\_\_\_\_ of \_\_\_\_\_

**TO:** [ ] NORTHERN NIGHTS MUSIC GROUP  
 226 UNION ST. #2  
 SAN RAFAEL, CA 94901

ATTN: PETER HUSON  
 (415) 302-4688

[ ] , PERMITTEE

and subject to the following, PERMISSION IS HERBY GRANTED to:

Enter the State highway right-of-way on State Route 101 from post mile 105.0 in Mendocino County to post mile 1.0 in Humboldt County to install, maintain and remove Portable Changeable Message Signs and perform traffic control during the "Northern Nights Music and Arts Event" as per the application received by the Caltrans District 1 Permit Office and as amended by this encroachment permit and all future riders.

NOTIFY DEPARTMENT'S/STATE'S REPRESENTATIVE: The assigned Department's/ State's Representative is Kelley Schultz at telephone (707) 496-6454.

Permittee must arrange a pre-job meeting with the Department's Representative upon receipt of this encroachment permit.

This permit is valid starting Friday, July 17, 2015 and ending on Monday, July 20, 2015.

THIS PERMIT IS NOT A PROPERTY RIGHT AND DOES NOT TRANSFER WITH THE PROPERTY TO A NEW OWNER.

The following attachments are also included as part of this permit (Check applicable):

- |   |  |   |
|---|--|---|
| <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No            | General Provisions  |
| <input type="checkbox"/> Yes            | <input checked="" type="checkbox"/> No | Utility Maintenance Provisions                                      |
| <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No            | Special Provisions  |
| <input type="checkbox"/> Yes            | <input checked="" type="checkbox"/> No | Storm Water Special Provisions                                      |
| <input type="checkbox"/> Yes            | <input checked="" type="checkbox"/> No | A Cal-OSHA permit, if required: Permit No. _____                    |
| <input type="checkbox"/> Yes            | <input checked="" type="checkbox"/> No | As-Built Plans Submittal Route Slip for Locally Advertised Projects |
| <input type="checkbox"/> Yes            | <input checked="" type="checkbox"/> No | Storm Water Pollution Protection Plan                               |

In addition to fee, the permittee will be billed actual costs for:

- |   |                             |            |
|---|-----------------------------|------------|
| <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No | Review     |
| <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No | Inspection |
| <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No | Field Work |

*(if any Caltrans effort expended)*

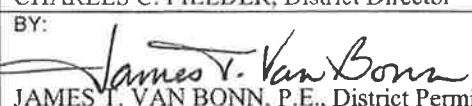
Yes  No The information in the environmental documentation has been reviewed and considered prior to approval of this permit

This permit is void unless the work is completed before July 21, 2015

This permit is to be strictly construed and no other work other than specifically mentioned is hereby authorized.

No project work shall be commenced until all other necessary permits and environmental clearances have been obtained.

|               |               |            |
|---------------|---------------|------------|
| K MICHEAL     | D PERKINS     | B CRAWFORD |
| K SCHULT+2    | J CANDALOT    | CHP        |
| SHERRIFF DEPT | W NALLY-AGENT | R MULLEN   |
| D MORGAN      | D YORK        | D CARDIFF  |
| J HOSTLER     |               |            |

APPROVED:  
 CHARLES C. FIELDER, District Director  
 BY:  
  
 JAMES T. VAN BONN, P.E., District Permit Engineer

FILE  
 Permit Writer: LF



## 2015 Traffic Control Plan

**Traffic Control Start:** Thursday, July 16, 2015 at 8:00 a.m.

**Traffic Control End:** Monday July 20, 2015 at 2:00 p.m.

### **THURSDAY JULY 16, 2015 (PRIOR TO EVENT)**

The only traffic allowed into the site on Thursday July 16<sup>th</sup> (one day prior to the event) will be staff, volunteers and vendors. No items shall be placed within the County road right of way without specific approval and issuance of an encroachment permit from the Department of Transportation. The permit should be available at the event site in the event it is requested at any time.

### **Traffic Control on US 101**

- Northbound traffic on US 101 will use the right turn lane at the intersection of US 101 and SR 271/Cook's Valley Road.
- Southbound traffic on US 101 will use the left turn lane.

### **Early Arrivals Information Campaign**

- Early arrivals shall be discouraged by prohibiting the line-up of cars along US 101 before the official gate opening to the public on Friday July 17<sup>th</sup>.
- To discourage early arrivals, the following will be used:
  - CMS signs on US 101 (See Map 1 for placement)
  - Information placed on the official event website
  - E-mails sent to attendees, event organizers, sponsors, vendors, staff, and the media.
  - Social media posts (Facebook, Twitter and/or others as appropriate)
  - Announcements on local radio stating "NN camping prohibited on Thursday July 16<sup>th</sup>"

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## **FRIDAY JULY 17, 2015 – SUNDAY JULY 19, 2015 (DURING EVENT)**

By 7:00 a.m. on Friday July 17<sup>th</sup>, put out signs, cones and have personnel in the field. Most of the traffic to the event will be paying patrons. The gates to the public will open at 8:00 am on Friday, July 17<sup>th</sup>. If there is a need to open the gates early for safety concerns then staff should be in place to handle this. All NNMF traffic on US 101 will be directed to traffic lanes on Cook's Valley Road and into the Cook's Valley Campground & County Line Ranch for processing.

### **Traffic Control on US 101 (see Map 1)**

Traffic control on US 101 in Piercy, CA in the vicinity of Cook's Valley Campground & County Line Ranch will consist of field personnel, the use of additional traffic control devices such as cones and signs, and a temporary extension of the southbound left turn lane approaching SR 271/ Cook's Valley Road.

### **Personnel**

- One person shall be placed at the intersection of US 101 and SR 271/Cook's Valley Road to direct traffic during the periods of heavy traffic. The largest concentration of traffic is expected on Friday afternoon and early evening.
- When traffic is heavy, the field personnel at the US 101 and SR 271/Cook's Valley Road intersection should ask for an additional person to assist them with traffic control at this intersection.
- Periodic monitoring of traffic should occur throughout the NNMF to see if additional personnel are needed at this intersection.
- All traffic personnel should wear a fluorescent orange vest, have a fluorescent flag, a whistle, and have a walkie talkie at all times.
- All traffic personnel should receive training on traffic safety
- Traffic personnel at this intersection should give priority to traffic movements so that traffic back-ups on US 101 are minimized in both directions.

### **Traffic Control**

- The US 101 southbound left turn pocket at SR 271/Cook's Valley Road shall be lengthened as directed by CHP, Sherriff's Department or CalTrans. This will allow for additional stacking of southbound vehicles turning left onto Cook's Valley Road.

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### Cones

- Cones will be used to discourage on-street parking and keep traffic in the proper lanes.
- Cones should be placed alongside US 101 in the northbound and southbound directions approaching the intersection with SR 271/ Cook's Valley Road.
- Cones should be placed on northbound US 101 all the way to the intersection of SR 271/Cook's Valley Road. This will encourage motorists to turn properly at the intersection and not beforehand.
- All cones shall be reflective.

### Signs

- Changeable Message Signs (CMS) should be placed as noted on Map 1, as follows:
  - On US 101 approximately 1,000 feet north of the SR 271/Cook's Valley Road intersection for southbound traffic.
  - On US 101 approximately 1,000 feet south of the SR 271/ Cook's Valley Road intersection for northbound traffic.
  - Care should be taken so that all signs are placed in a manner that is visible to motorists and well in advance of any decision making points.
  - "No Parking" signs should be placed on US 101 north and south of the SR 271/ Cook's Valley Road intersection to alert US 101 traffic that parking is not allowed on shoulders or along roadways within Cook's Valley Campground & County Line Ranch.
  - "NNMF Special Event" signs shall be placed on US 101 for both northbound and southbound traffic.
  - All traffic signs shall be clean and legible and of good quality.
  - All traffic signs shall be reflective.

### Notes

- All traffic control shall be reviewed and monitored on a 24-hour basis by a qualified professional of Stop and Go Traffic Control.
- Any necessary adjustments shall be corrected immediately.
- Any modification requested by the CHP, Sherriff's Department or CalTrans shall be performed immediately.

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- During placement and removal of all traffic devices, traffic control shall be done in accordance with the California MUTCD (Manual on Uniform Traffic Control Devices).

## **Traffic and Parking Control in Venue (see Map 2)**

### **Personnel**

On-site traffic control will allow traffic entering from 101 to move into the site and parking area without excessive delays to traffic on 101. Traffic control personnel will be assigned to effectively prohibit early arrivals from lining up along the highway the night/early morning before the event. Early arrivals will not be accommodated.

- There should be at least 8 field personnel dedicated to traffic and parking operations at any one time, indicated by the pink dots on Map 2.
- Personnel should be mobile and shift positions as needed (after the parking in GA-1 is fully loaded, then shift personnel to GA-2, and so on).
- Lead Personnel/Contacts
  - Derek Spence (Operations Manager) & Keith Bowman (Land Owner)
  - Encroachment - Wes Nally (Stop N Go Traffic) & Kelly Shultz (Cal Trans)
  - Support Leads – Shiloh (Traffic) & Sherie (Parking)
  - All personnel should have walkie talkies on them at all times (cell phone reception may not be reliable)

### **Location of primary and secondary entry/exit gates**

- The primary entrance to the NNMF is at Box Office.
- During the busiest arrival period (Friday afternoon and early evening) there should be multiple lanes approaching the Box Office to increase stacking area as well as to expedite the check-in process at the Box Office.
- Vehicles will be stopped at the Box Office to pick up their credentials and parking passes.
- Personnel assigned as "processing runners" will go to the cars with scanners to check people in.
- Vehicles will then be guided by flaggers to Parking in GA1, then GA2, GA3, etc.
- The primary exit is through GA-3 along the red dotted line and out.

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### Parking

- Parking lots should be loaded from the rear of lot first, then forward towards the lot entrance.
- Parking lots should be loaded in order, starting with GA 1, then GA 2, etc. Once a lot is full, personnel should move to the next lot, and block off access to the full lot.
- RV & Car camping parking will require a special escort from the main entrance.
- Parking management should include the use of CMS Boards, cones, arrows, field personnel, printed parking passes, and flaggers.
- Parking enforcement should include the use of "No Parking" signs, enforced by warning the drivers when needed.
- No parking should be permitted on internal roadways or in any non-designated areas.
- All cars will have parking pass with a name & number so that PA announcements can be made for warning if needed.
- Towing of vehicles can be used if the vehicle is not moved in a timely manner.

### **Emergency Vehicle Access and Loading (see Map 3A & 3B)**

- The location and access points for emergency vehicles and loading are noted on Map 3.
- The red dotted line near the entrance will have 24 hour in/out access for loading, staffing, shuttles and emergency vehicles.

### **Off-Site Parking and Shuttles**

- Shuttle service will be offered from off-site parking lots by a licensed transportation company from North of Redway to the site to provide a safe means of transportation for the local community and to encourage out-of-town attendees to utilize local travel hospitality options. The 2015 locations will be at the Benbow Inn and the Best Western Humboldt House Inn in Garberville.
- Southbound shuttle buses transporting attendees will access the NNMF site at the SR 271/Cook's Valley Road intersection and turnaround within the site near the Will Call Office.
- The shuttle buses will run continuously from:
  - 9:00 a.m. until 2:00 a.m. on Friday July 17
  - 9:00 a.m. until 2:00 a.m. on Saturday July 18
  - 9:00 a.m. until 12:00 a.m. (Midnight) on Sunday July 19

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**PERMITS**

- 8:00 a.m. until 12:00 p.m. (Noon) on Monday July 20
- Information on off-site parking for hotel guests and locals should be announced using:
  - the official event website
  - e-mails sent to attendees and the media
  - Social media posts (Facebook, Twitter and/or others as appropriate)
  - Announcements on local radio stating “Off-site parking is available at the Benbow and Best Western Hotels.”

**Re-Entry Policy**

- During the event, patrons will be allowed to leave the event only as necessary and only by vehicle.
- Patrons will be prohibited from leaving the premises as pedestrians, and this will be enforced by highway security staff and/or CHP.
- The General Store will have reasonable prices to discourage attendees from leaving the property for additional supplies.

**MONDAY JULY 20, 2015 (AFTER EVENT)**

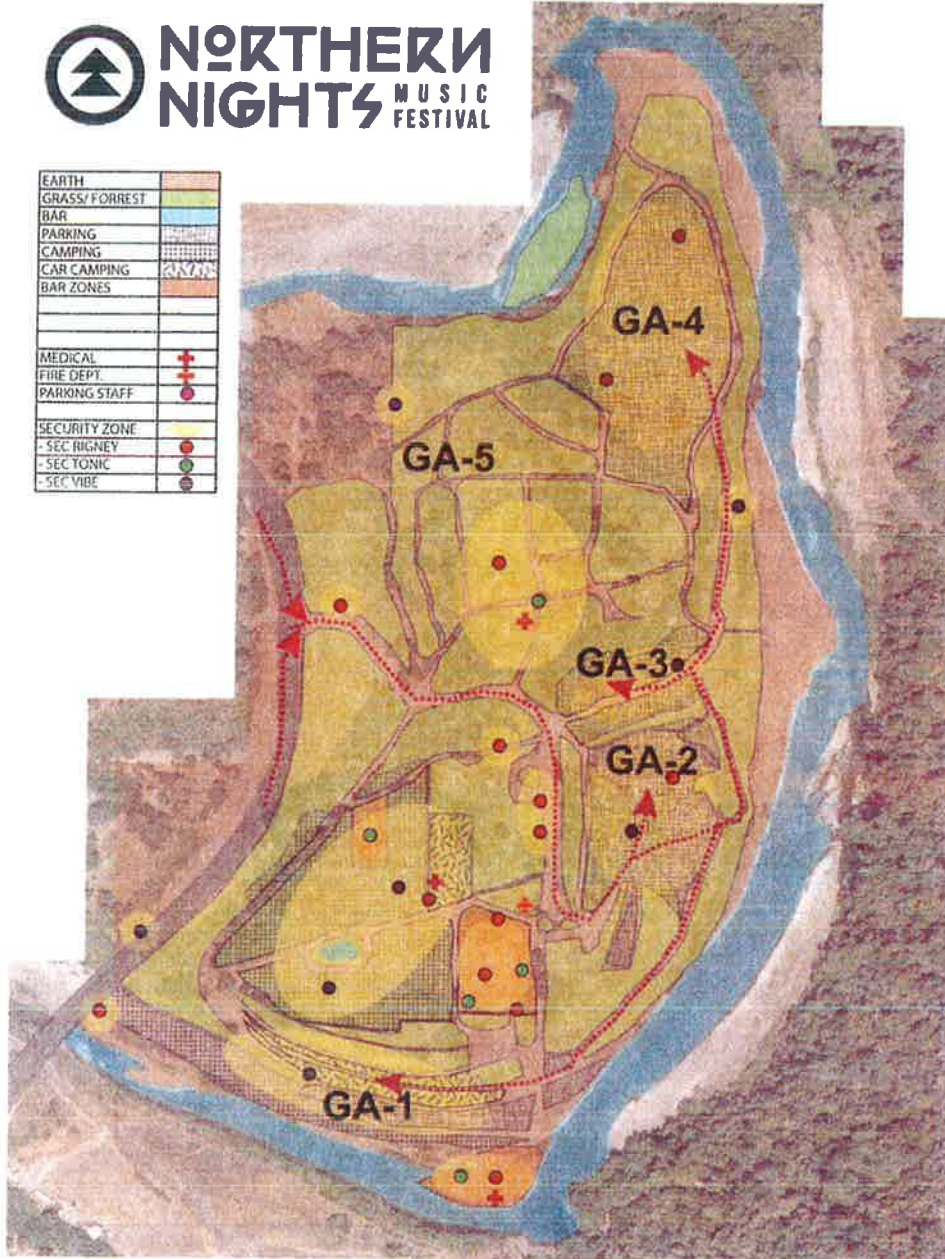
The campground shall close no later than 12:00 p.m. (Noon) on Monday July 20. All traffic control elements in the campground as well as on US 101 should be removed by 2:00 p.m.

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# MAP 2 - Traffic /Parking Control in Venue



|                |                |
|----------------|----------------|
| EARTH          | [Orange]       |
| GRASS/ FORREST | [Green]        |
| BAR            | [Blue]         |
| PARKING        | [Yellow]       |
| CAMPING        | [Light Green]  |
| CAR CAMPING    | [Light Blue]   |
| BAR ZONES      | [Light Orange] |
| MEDICAL        | [Red cross]    |
| FIRE DEPT.     | [Red cross]    |
| PARKING STAFF  | [Red dot]      |
| SECURITY ZONE  | [Yellow]       |
| - SEC HIGNEY   | [Red dot]      |
| - SEC TONIC    | [Green dot]    |
| - SEC VIBE     | [Black dot]    |



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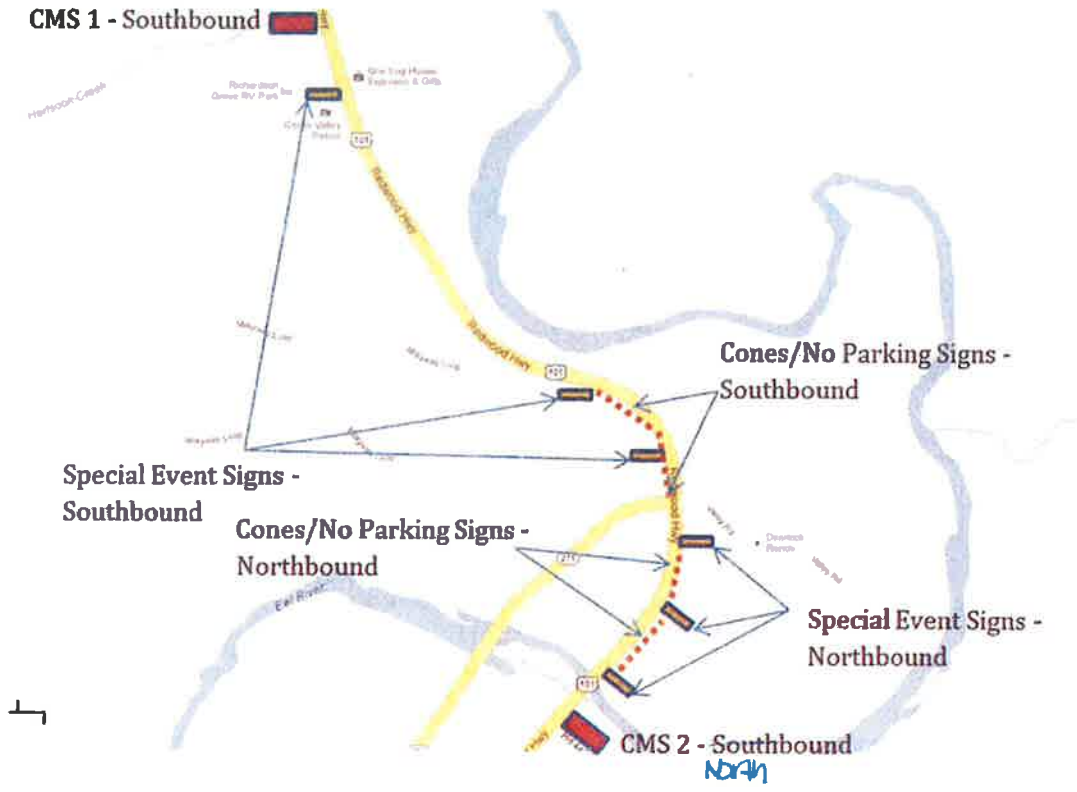
# MAP 3A - Emergency Vehicle Access and Loading – Mendocino – Cook’s Valley Campground



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# MAP 1 – Traffic Control on US 101



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**PERMITS**

## DEPARTMENT OF CALIFORNIA HIGHWAY PATROL

Garberville Area  
P.O.Box 515  
Garberville, CA 95542  
(707) 923-2155 (Office)  
(707) 923-2159 (Fax)  
(800) 735-2929 (TT/TDD)  
(800) 735-2922 (Voice)



April 20, 2015

File No.: 126.15808

Mr. Glen Anderson  
County of Humboldt  
Department of Public Works  
3033 "H" Street  
Eureka, CA 95501

Reference: The 2014 Northern Lights Music Festival

Dear Mr. Anderson:

The California Highway Patrol, Garberville Area, is aware of the Northern Lights Music Festival being held at the Cooks Valley Campground on July 18<sup>th</sup> to July 20<sup>th</sup>, 2015. This location is owned/managed by Mr. Keith Bowman. Based on the information provided to date by the Event Coordinator, Peter Huson, and conditional upon the Event Coordinator complying with all requirements of the permit process, the California Highway Patrol (CHP) is not opposed to this event. Based on past issues involving traffic, parking, camping on the state right-of-way of US-101, the CHP, Garberville Area, will be entering into a reimbursable services contract with Northern Lights Festival organizers, and Peter Huson, to provide traffic control and roving and stationary patrols on US-101 during this event.

Should have any questions or concerns, please contact me or Sergeant Randy England at (707) 923-2155.

Sincerely,

A handwritten signature in blue ink, appearing to read "B. M. Fabbri".

B. M. FABBRI, Lieutenant  
Commander  
Garberville Area

*Safety, Service, and Security*



*An Internationally Accredited Agency*



DEPARTMENT OF CALIFORNIA HIGHWAY PATROL

Garberville Area  
P.O.Box 515  
Garberville, CA 95542  
(707) 923-2155 (Office)  
(707) 923-2159 (Fax)  
(800) 735-2929 (TT/TDD)  
(800) 735-2922 (Voice)



April 20, 2015

File No.: 126.15808

Mr. Dustin Duley  
County of Mendocino  
Department of Planning and Building Services  
501 Low Gap Road, Room 1440  
Ukiah, CA 95482

Reference: The 2014 Northern Lights Music Festival

Dear Mr. Duley:

The California Highway Patrol, Garberville Area, is aware of the Northern Lights Music Festival being held at the Cooks Valley Campground on July 18<sup>th</sup> to July 20<sup>th</sup>, 2015. This location is owned/managed by Mr. Keith Bowman. Based on the information provided to date by the Event Coordinator, Peter Huson, and conditional upon the Event Coordinator complying with all requirements of the permit process, the California Highway Patrol (CHP) is not opposed to this event. Based on past issues involving traffic, parking, camping on the state right-of-way of US-101, the CHP, Garberville Area, will be entering into a reimbursable services contract with Northern Lights Festival organizers, and Peter Huson, to provide traffic control and roving and stationary patrols on US-101 during this event.

Should have any questions or concerns, please contact me or Sergeant Randy England at (707) 923-2155.

Sincerely,

B. M. FABBRI, Lieutenant  
Commander  
Garberville Area



*Safety, Service, and Security*

*An Internationally Accredited Agency*

**THOMAS D. ALLMAN**  
Sheriff-Coroner



**Captain Gregory Van Patten**  
*Field Services*  
**Captain Tim Pearce**  
*Corrections*

**County of Mendocino**  
**Office Of The Sheriff-Coroner**

---

April 29, 2015

To: Shari Schapmire  
Mendocino County Treasurer - Tax Collector

Regarding: Letter of adequacy of security for the 2014 Northern Nights Music Festival, 83950 County Road 442E, Piercy, Ca.

Mrs. Schapmire,

I am authoring this letter to inform you I have been in contact with Peter Huson, Project Engineer for the 2014 Northern Nights Music Group to be held on July 17<sup>th</sup>, 18<sup>th</sup>, and 19<sup>th</sup>, 2015. Mr. Huson has provided me letters of his intention to provide adequate security numbers. This includes the hiring of a private security firm in addition to a contractual agreement with our agency to provide Law Enforcement personnel specifically assigned to this event. The intent of this letter is to inform you the security measures planned for this event currently meet the public safety requirements of the Mendocino County Sheriff's Office.

If you should have any questions or concerns, please feel free to contact me at (707) 459-7809.

Sincerely,

Lt. Kirk R. Mason  
Mendocino County Sheriff Office  
Inland, Northern Operations

cc: Peter Huson, Project Engineer.  
Mr. Dusty Duley, Mendocino County Planning and Building Services  
Mendocino Treasurer & Tax Collector  
Event file

---

**589-A Low Gap Road**  
**Ukiah, California 95482-3734**

**707-463-4411**  
**Fax 707-468-3404**

**Results:**

North Coast Laboratories LTD, analyzed all of the water samples taken for Northern Nights Music Festival (Appendix 2).

The results have been summarized in the table below:

|                |                   | July 17 <sup>th</sup> (MPN/100ml) | July 18 <sup>th</sup> (MPN/100ml) | July 19 <sup>th</sup> (MPN/100ml) |
|----------------|-------------------|-----------------------------------|-----------------------------------|-----------------------------------|
| Total Coliform | <i>Upstream</i>   | >2419.6                           | >2419.6                           | >2419.6                           |
|                | <i>Downstream</i> | >2419.6                           | >2419.6                           | >2419.6                           |
| E.Coli         | <i>Upstream</i>   | 22.3                              | 21.3                              | 14.4                              |
|                | <i>Downstream</i> | 7.5                               | 6.3                               | 6.3                               |

**Discussion:**

Enterococci (E.coli) was detected at 22.3 MPN/100ml at the upstream location and 7.5 at the downstream location, on Friday, July 18<sup>th</sup>. On Saturday, July 19<sup>th</sup>, there was a decrease in enterococci to 21.3 MPN/100ml at the upstream location and a decrease to 6.3 at the downstream location. On Sunday, July 20<sup>th</sup>, there was a decrease of enterococci to 14.4 MPN/100ml at the upstream location and the downstream location remained the same at 6.3 MPN/100ml.

Enterococci levels at the upstream sample location were higher than levels at the downstream location and decreased throughout the festival. This could be a result of contaminants entering the river near the upstream location and then being diluted as they flowed down river. However, recreational river use at the main swimming hole increased turbidity, oxygenated the water and stirred up algae, which likely helped kill and absorb much of the enterococci bacteria. This would also support the results that indicate the upstream location had higher enterococci levels than the downstream locations.

**Conclusion:**

Water quality testing was conducted and analyzed, pursuant to permit condition UM 2014-0011, condition 12, for Northern Nights Music Festival 2015. The results illustrate that detectible levels of bacteria in the form of enterococci (E. coli) and total coliform were present during the event, but the levels were below the State of California criteria for human recreational use of 50 MPN/ml.

July 17, 2015

oliver.kunney@gmail.com

4

**NORTH COAST LABORATORIES LTD**  
 5680 West End Rd, Arcata, California 95521 707/822-4649

Please complete the following sample information:

POTABLE WATER  SOURCE WATER  WASTEWATER

System # \_\_\_\_\_ Sampling Time 0900  
 Location Eel River Sampled By Oliver Kunney  
 Sampling Date 7/17/15 Phone # 707 908 9774  
 On-line Sample   Recipient  Other

Payment is due at time of service. We are pleased to accept the following (please check one):  
 Check \$ \_\_\_\_\_ # \_\_\_\_\_  Cash \$ \_\_\_\_\_  
 Visa  Mastercard  Am. Express  Discover \$ 45

If you are paying by credit card and are not submitting samples in person please use the enclosed form to provide credit card information

Att#: \_\_\_\_\_  
 Name Oliver Kunney  
 Address Box 1000  
 City/State/Zip Arcata CA 95521

DATE CLIENT NOTIFIED: 7/17 INITIALS: AK  
 DATE REGULATOR NOTIFIED: \_\_\_\_\_ INITIALS: \_\_\_\_\_

**For Office Use Only**

SAMPLE TEMP: 10.32 ON SET:  N H/2  
 REC'D BY: AK TIME REC'D: 10:05  
 DATE REC'D: 7/17/15 INOC: 1248 7-17-15 SD  
 SAMPLE #: 1507248-02A READ: 1325 7-18-15 2AF

TESTS REQUESTED:  Turbidity  Alkalinity  Hardness  Chlorine Residual  Dissolved Oxygen  pH  Conductivity  Total Solids  Total Suspended Solids  Total Dissolved Solids  Nitrate Nitrogen  Ammonia Nitrogen  Nitrite Nitrogen  Phosphate  Silica  Sulfate  Calcium  Magnesium  Fluoride  Chloride  Sulfide  Cyanide  Iron  Manganese  Zinc  Cadmium  Lead  Copper  Silver  Barium  Strontium  Selenium  Molybdenum  Vanadium  Chromium  Manganese  Cobalt  Nickel  Boron  Bismuth  Antimony  Arsenic  Barium  Beryllium  Cadmium  Calcium  Chlorine  Chromium  Cobalt  Copper  Fluorine  Gallium  Germanium  Gold  Iodine  Iron  Lead  Lithium  Magnesium  Manganese  Mercury  Molybdenum  Nickel  Niobium  Potassium  Radium  Rubidium  Selenium  Silver  Sodium  Strontium  Tellurium  Thallium  Tin  Vanadium  Vanadium  Zinc  Zirconium

RESULTS: (MPN/100ml) 22 MPN 7.5  
 Total Coliform 22 MPN 7.5  
 Fecal Coliform 0  
 Total 7.5  
 Fecal 0

Analyst Name: ETM/1 ASAF

Quant-Tray/2000: Total coliform 48 4.8 # col 7 0

**Bacterial Examination Report**

| Str. | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 |
|------|---|---|---|---|---|---|---|---|---|----|----|----|----|----|----|
| 24   |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |
| 48   |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |
| 72   |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |
| 96   |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |

DATE CLIENT NOTIFIED: 7/17 INITIALS: AK  
 DATE REGULATOR NOTIFIED: \_\_\_\_\_ INITIALS: \_\_\_\_\_

BCF

oliver.kunney@gmail.com

3

**NORTH COAST LABORATORIES LTD**  
 5680 West End Rd, Arcata, California 95521 707/822-4649

Please complete the following sample information:

POTABLE WATER  SOURCE WATER  WASTEWATER

System # \_\_\_\_\_ Sampling Time 0900  
 Location Eel River Sampled By Oliver Kunney  
 Sampling Date 7/17/15 Phone # 707 908 9774  
 On-line Sample   Recipient  Other

Payment is due at time of service. We are pleased to accept the following (please check one):  
 Check \$ \_\_\_\_\_ # \_\_\_\_\_  Cash \$ \_\_\_\_\_  
 Visa  Mastercard  Am. Express  Discover \$ 45

If you are paying by credit card and are not submitting samples in person please use the enclosed form to provide credit card information

Att#: \_\_\_\_\_  
 Name Oliver Kunney  
 Address Box 1000  
 City/State/Zip Arcata CA 95521

DATE CLIENT NOTIFIED: 7/17 INITIALS: AK  
 DATE REGULATOR NOTIFIED: \_\_\_\_\_ INITIALS: \_\_\_\_\_

**For Office Use Only**

SAMPLE TEMP (C): 10.32 ON SET:  N H/2  
 REC'D BY: AK TIME REC'D: 10:05  
 DATE REC'D: 7/17/15 INOC: 1248 7-17-15 SD  
 SAMPLE #: 1507248-01A READ: 1329 7-18-15 2AF

TESTS REQUESTED:  Turbidity  Alkalinity  Hardness  Chlorine Residual  Dissolved Oxygen  pH  Conductivity  Total Solids  Total Suspended Solids  Total Dissolved Solids  Nitrate Nitrogen  Ammonia Nitrogen  Nitrite Nitrogen  Phosphate  Silica  Sulfate  Calcium  Magnesium  Fluoride  Chloride  Sulfide  Cyanide  Iron  Manganese  Zinc  Cadmium  Lead  Copper  Silver  Barium  Strontium  Selenium  Molybdenum  Vanadium  Vanadium  Zinc  Zirconium

RESULTS: (MPN/100ml) 22 MPN 2.3  
 Total Coliform 22 MPN 2.3  
 Fecal Coliform 0  
 Total 2.3  
 Fecal 0

Analyst Name: ETM/1 ASAF

Quant-Tray/2000: Total coliform 48 4.8 # col 15 4

**Bacterial Examination Report**

| Str. | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 |
|------|---|---|---|---|---|---|---|---|---|----|----|----|----|----|----|
| 24   |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |
| 48   |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |
| 72   |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |
| 96   |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |

DATE CLIENT NOTIFIED: 7/17 INITIALS: AK  
 DATE REGULATOR NOTIFIED: \_\_\_\_\_ INITIALS: \_\_\_\_\_

BCF

July 18, 2015

**NORTH COAST LABORATORIES LTD**  
5950 West End Rd, Arcata, California 95521 (707)822-4649

Please complete the following sample information:  
 POTABLE WATER  SOURCE WATER  WASTEWATER  
System: Est River Down Sampling Time: 0815  
Location: Est River Sampled by: Oliver Kanner  
Sampling Date: 7-18-15 Phone: 707 498 4394  
 Routine Sample  Repeat  Enforcement  Special

Payment is due at time of service. We are pleased to accept the following (please check one):  
 Check # \_\_\_\_\_  Cash \$ 45  
 Visa  Mastercard  Am. Express  Discover \$ \_\_\_\_\_

If you are paying by credit card and are not submitting samples in person please use the enclosed form to provide credit card information

Att: Oliver Kanner  
Name \_\_\_\_\_  
Address \_\_\_\_\_  
City/State/Zip \_\_\_\_\_

DATE CLIENT NOTIFIED: 7/20 INITIALS: OK  
DATE REGULATOR NOTIFIED: \_\_\_\_\_ INITIALS: \_\_\_\_\_

For Office Use Only  
SAMPLE TEMP: 6.0 in ice ON ICE?  N  H  Z  
REC'D BY: JK TIME REC'D: 1300 7-18-15  
DATE REC'D: 7/18/15 INOC: 1313 7-18-15 CAP  
SAMPLE #: 15072017-02A READ: 1320 7-19-15

TESTS REQUESTED:  Micros / Abombs  Total Coliform > 249.6  
 QUANT-TRAY  Fecal Coliform 6.3  
 T & MTF  E.coli  
 HPC

Quanti-Tray/2000: Total coliform: 49.49 E.coli: 6.3

Bacterial Examination Report

| Hour | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 |
|------|---|---|---|---|---|---|---|---|---|----|----|----|----|----|----|
| 24   |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |
| 48   |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |
| 72   |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |
| 96   |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |
| 120  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |

JK  
Quality Assurance Unit

**NORTH COAST LABORATORIES LTD**  
5950 West End Rd, Arcata, California 95521 (707)822-4649

Please complete the following sample information:  
 POTABLE WATER  SOURCE WATER  WASTEWATER  
System: Est River Up Sampling Time: 0800  
Location: Est River Sampled by: Oliver Kanner  
Sampling Date: 7-18-15 Phone: 707 498 4394  
 Routine Sample  Repeat  Enforcement  Special

Payment is due at time of service. We are pleased to accept the following (please check one):  
 Check # \_\_\_\_\_  Cash \$ 45  
 Visa  Mastercard  Am. Express  Discover \$ \_\_\_\_\_

If you are paying by credit card and are not submitting samples in person please use the enclosed form to provide credit card information

Att: Oliver Kanner  
Name \_\_\_\_\_  
Address \_\_\_\_\_  
City/State/Zip \_\_\_\_\_

DATE CLIENT NOTIFIED: 7/20 INITIALS: OK  
DATE REGULATOR NOTIFIED: \_\_\_\_\_ INITIALS: \_\_\_\_\_

For Office Use Only  
SAMPLE TEMP (C): 6.0 in ice ON ICE?  N  H  Z  
REC'D BY: JK TIME REC'D: 1300 7-18-15  
DATE REC'D: 7/18/15 INOC: 1313 7-18-15 CAP  
SAMPLE #: 15073017-01R READ: 1322 7-19-15

TESTS REQUESTED:  Micros / Abombs  Total Coliform 249.6  
 QUANT-TRAY  Fecal Coliform  
 T & MTF  E.coli 21.3  
 HPC

Quanti-Tray/2000: total coliform: 49.49 E.coli: 16.2

Bacterial Examination Report

| Hour | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 |
|------|---|---|---|---|---|---|---|---|---|----|----|----|----|----|----|
| 24   |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |
| 48   |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |
| 72   |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |
| 96   |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |
| 120  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |

JK  
Quality Assurance Unit

July 19, 2015



NORTH COAST LABORATORIES LTD  
2680 West End Rd, Arcata, California 95521 707/822-4649

DS Oliver Kanner @ gmail.com

Please complete the following sample information:

POTABLE WATER  SOURCE WATER  WASTEWATER

System # \_\_\_\_\_ Sampling Time 9:00

Location Deep Stream Sampled by Oliver Kanner

Sampling Date 7/16/15 Phone # 707/822-4649

Reverse Osmosis  Spring  Displacement  Surface

Payment is due at time of service. We are pleased to accept the following (attach check if used):

Check \$ \_\_\_\_\_  Cash \$ 25

Visa  Mastercard  Am. Express  Discover \$ \_\_\_\_\_

If you are paying by credit card and are not submitting samples in person please use the enclosed form to provide credit card information

Attn: \_\_\_\_\_

Name Oliver Kanner

Address PO Box 1000

City/State/Zip Arcata CA 95521

DATE CLIENT NOTIFIED 7/16 INITIALS OK

DATE RESULTS NOTIFIED \_\_\_\_\_ INITIALS \_\_\_\_\_

For Office Use Only

SAMPLE TEMP (C) 13.0 ON ICE?  Y  N 13.0

REC'D BY OK TIME REC'D 1:50

DATE REC'D 7/16/15 INOC DATE 7/16/15

SAMPLE # 587308-01A READ 1506 7/20/15

TESTS REQUESTED:  Quantitative  Fecal Coliform  Fecal Streptococci

RESULTS: MPN/100mL

Total Coliform > 249.6

Fecal Coliform \_\_\_\_\_

E.coli 6.3

\_\_\_\_\_

Quant- Tray/2000: Total coliform 49 48 E.coli 5 1

Bacterial Examination Report

| Time | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
|------|---|---|---|---|---|---|---|---|---|----|----|----|
| 24   |   |   |   |   |   |   |   |   |   |    |    |    |
| 48   |   |   |   |   |   |   |   |   |   |    |    |    |
| 72   |   |   |   |   |   |   |   |   |   |    |    |    |
| 96   |   |   |   |   |   |   |   |   |   |    |    |    |

BCP



NORTH COAST LABORATORIES LTD  
2680 West End Rd, Arcata, California 95521 707/822-4649

DS Oliver Kanner @ gmail.com

Please complete the following sample information:

POTABLE WATER  SOURCE WATER  WASTEWATER

System # \_\_\_\_\_ Sampling Time 9:00

Location My River Sampled by Oliver Kanner

Sampling Date 7/16 Phone # \_\_\_\_\_

Reverse Osmosis  Spring  Displacement  Surface

Payment is due at time of service. We are pleased to accept the following (attach check if used):

Check \$ \_\_\_\_\_  Cash \$ 25

Visa  Mastercard  Am. Express  Discover \$ \_\_\_\_\_

If you are paying by credit card and are not submitting samples in person please use the enclosed form to provide credit card information

Attn: \_\_\_\_\_

Name Oliver Kanner

Address PO Box 1000

City/State/Zip Arcata CA 95521

DATE CLIENT NOTIFIED 7/16 INITIALS OK

DATE RESULTS NOTIFIED \_\_\_\_\_ INITIALS \_\_\_\_\_

For Office Use Only

SAMPLE TEMP (C) 13.0 ON ICE?  Y  N 13.0

REC'D BY OK TIME REC'D 1:50

DATE REC'D 7/16/15 INOC DATE 7/16/15

SAMPLE # 587308-02A READ 585 7/20/15

TESTS REQUESTED:  Quantitative  Fecal Coliform  Fecal Streptococci

RESULTS: MPN/100mL

Total Coliform > 249.6

Fecal Coliform \_\_\_\_\_

E.coli 14.4

\_\_\_\_\_

Quant- Tray/2000: Total coliform 49 48 E.coli 10 3

Bacterial Examination Report

| Time | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
|------|---|---|---|---|---|---|---|---|---|----|----|----|
| 24   |   |   |   |   |   |   |   |   |   |    |    |    |
| 48   |   |   |   |   |   |   |   |   |   |    |    |    |
| 72   |   |   |   |   |   |   |   |   |   |    |    |    |
| 96   |   |   |   |   |   |   |   |   |   |    |    |    |

BCP

Hotel  
445 Lake Benbow Drive  
Garberville, CA 95542  
Phone (707) 923-2124 Fax (707) 923-2897



Resort & Golf Course  
7000 Benbow Drive  
Garberville, CA 95542  
Phone (707) 923-2777 Fax (707) 923-2821

May 7, 2015

**Humboldt County Planning Commission:**

The Third Annual Northern Nights Music Festival will take place again this year on July 17 to July 19 in Cooks Valley. Benbow Historic Inn and Benbow KOA support the producers of this festival, which brings new tourism clients to Humboldt County. We all know that tourism has become and will continue to be a growing industry in our county. It has been said many times that our historical resource industries of forest products and fishing have suffered over the years with the Visitor Industry continuing to grow. Our two companies have invested millions of dollars just over the past five years to improve and expand our capacities. We need events such as the Northern Nights Music Festival to attract a certain market segment, The 'Millenniums', to Humboldt. Once they arrive, companies like ours and others will be ready to take care of their lodging, camping, restaurant and other needs.

I urge you to support this event and allow it to proceed. Please feel free to contact me directly if you have any questions.

Kindest Regards

Sincerely,

A handwritten signature in cursive script, appearing to read "John E. Porter".

John E. Porter

Managing Partner

AUGUST 9th

# NNMF X USF ECONOMIC IMPACT FINAL REPORT

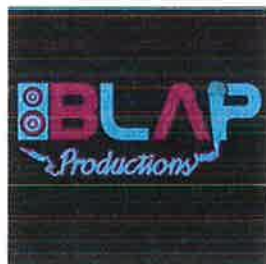


JULY 17-19 2015



**NORTHERN  
NIGHTS** MUSIC  
FESTIVAL

COOK'S VALLEY  
CAMPGROUND



UNIVERSITY OF  
SAN FRANCISCO

CHANGE THE WORLD FROM HERE

STANLEY / YOLANDA / DIMAG / JORDI



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## 1. EXECUTIVE SUMMARY

Northern Nights Music Festival has partnered with University of San Francisco to carry on an economic impact report of how the event affects the local economies of Humboldt and Mendocino Counties. The report summarizes key findings and evaluates total economic impact as a function of three subcategories defined by IMPLAN: *direct impacts* due to expenditures by the organizers and the attendees, *indirect impact* from the local economic activity the direct expenditures generates, and *induced impact*, which are the additional economic impact generated by the earnings by the event.

In the following, methods in which necessary data were obtained from local businesses, attendees, vendors, service providers, and the festival itself are presented. An analysis of the 2014 event is first summarized, followed by the framework used to properly evaluate the 2015 Northern Nights economic impact on the local Mendocino and Humboldt regions.

## 2. ABOUT NORTHERN NIGHTS MUSIC FESTIVAL

Northern Nights is a 3-day boutique camping and music festival straddling the Mendocino – Humboldt County Line at Cook’s Valley Campground. The lazy Eel River and towering Redwood forests form the picture perfect backdrop for premier musical talent on 4 stages, jaw-dropping art, thought provoking workshops, nightly burlesque, comedy, yoga, and industry-leading sustainability initiatives.

Adjacent to US Highway 101 on the border of Humboldt & Mendocino County, just 3.5 hours north of San Francisco, Cooks Valley is tucked along the Eel River under towering Redwood trees. The festival grounds feature deep swimming holes, the largest Redwood grove used for camping, and plenty of space to stretch out. Northern Nights Music Festival is a unique and safe experience for both newcomers and seasoned campers.

### 3. DEVELOPING THE NNMF “AFFILIATE PROGRAM”

The main objective of the Northern Nights Affiliate program is to create a system and set of tools for Northern Nights to be able to interact with local Mendocino & Humboldt businesses and obtain financial information that can be used to document the Economic Impact of Northern Nights Music Festival. These tools include an email template that was sent to the various businesses and an outline of what the festival can offer local business owners in exchange for their sensitive financial information. Northern Nights offered to highlight the businesses on an online map and to list them as an “official stop” along the way to and from the festival. In exchange we asked local business owners to provide us with information regarding their gross income during a typical summer weekend and how that gross differs during Northern Nights. As the relationship is new, sometimes it is best to only ask business owners for a percentage difference of their gross income, as they may not be comfortable giving exact numbers right away.

The goal is to start a long lasting and trusting relationship with these business owners so as to increase the festival’s impact on their business but also so that they continue to provide us with important economic information. Often times the business owner can also help advertise the festival themselves, whether through a poster in their window or even online on the company’s websites or Facebook pages.

Another part of the Affiliate Program that was critical to the Economic Impact Report was the development of surveys. There are several types of surveys that were developed in order to obtain the information needed to calculate Direct, Indirect and Induced Economic Impact. These include surveys for attendees, surveys for vendors, surveys for festival staff and service providers and surveys for local businesses. The questions included information on where people came from, the route and stops they took, and how frequently they visit the area and their spending habits, to name a few.

The delivery of the survey or how the survey is presented was also important as not everyone is willing to take the time to fill out a survey. For pre and post event surveys, we utilized Google's free "Forms" application, similar to what Northern Nights uses for its "Get Involved" programs. These surveys were sent out via official Northern Nights email blasts, social media posts and along with ways in which to incentivize people to fill out the surveys.

To collect information on-site, we worked in conjunction with the festival planners to create a interactive way in which the surveys can be conducted at the festival so attendees were more willing to answer the questions. So far one of the main ideas will be to conduct "Festimonials" in a "Video Booth", that will be comfortable and shaded while we ask the attendees questions. Not only will this allow us to capture the answer to the questions in live form so attendees or us don't need to write down all the information, but will also give Northern Nights footage it can use for future promotional campaigns.

Appendix A shows a draft of the email template that was submitted to BLAP Productions for review.

One of the first steps in the Northern Nights Afflicted Program was a trip with BLAP Productions from San Francisco to Piercy. Along the way, we stopped and spoke with various local businesses to discuss the program and to see how we could work together to increase awareness of both the festival and the business itself as an "on-the-way" service provider. Our team distributed Northern Nights Music Festival poster and cards to these local businesses. For the most part, the local business owners were willing to participate and this included allowing the event poster in their store, and also agreed that they will start distributing the event flyer to their customers. Besides this, our team also either get the contact intonation of the store or we leave our contact information to the store for future communication business.

During the event-hosting period, Attendees were asked to fill out on-site surveys and a total of 50 surveys were collected. Post-event surveys were designed and sent out following the event.

Through this exercise, we found that there were several improvements that can be made to maximize data collection in the future of the Northern Nights Affiliate Program:

- 1) Find out a way to make the store manager more aware of the benefit that they will receive by join the Northern Nights Affiliated Program.
- 2) All these local stores are small and medium size business, lots of them are making less than \$100 dollars per day, the majority of them do not willing to spend time and effort to document their sales record. Therefore, find out a way to let them actually document their sales record are crucial.
- 3) When talking to local business, skip the ones that are not “worth” to talk to (Such as a music studio, personal tutoring center, etc.).
- 4) When we try to call all these local business, they all think that we are some sorts of sale Promotion Company, and they are not willing to discuss any thing related to their sales. Therefore, we suggest them to hiring local residents to be intern, so they actually can go and talk to these local stores before/after the event.
- 5) Next time when doing store visiting, instead of going to the south side of the Humboldt/ Mendocino County, BLAP production can actually split the team into two groups. By split the team into two groups, they can cover both the south, and north side of the county.

#### 4. NNMF "AFFILIATE PROGRAM": Online Channels

Another important aspect on how NNMF impacts the local Mendocino and Humboldt economies is via online channels. This process includes documenting websites, Facebook, yelp and other means by which local businesses present themselves online. The goal here is to evaluate NNMF's ability to affect economic impact via online reach and incorporate this into the calculating of total economic impact.

What we have found is that many of the local businesses do not have their own website, Facebook or Yelp accounts, so it is too difficult for customers to even be aware that they exist. In the case that local businesses DO have their own websites, Facebook and Yelp, their Facebook pages had very little likes and minimal reviews on Yelp. This part of the project involved documenting the businesses online traffic before and after the festival. The same research was done on the vendors, sponsors, ticket outlets and service provider's websites, social media accounts and yelp reviews. Appendix B highlights some of the information compiled so far and this list will continue to grow as we engage more businesses.

**Online channel 's situation analysis:** The study of online channels demonstrated positive impacts that NNMF had on the local businesses. Before the festival, what we have found that many of the local businesses did not have their own websites or Facebook accounts. After the festival, we examined how social media impressions differed than before the festival. Table 1 summarizes the findings from some of the key businesses that were studied



**Table 1.** Increase results of the likes in local businesses FB pages

|                           | Likes (Before Festival) | Likes (After Festival) | Increase percentage |
|---------------------------|-------------------------|------------------------|---------------------|
| Peg House                 | 868                     | 940                    | 8.29%               |
| Two To Tang               | 127                     | 173                    | 36.22%              |
| Ukiah Natural Foods       | 2790                    | 2825                   | 1.25%               |
| Last Record Store         | 4736                    | 4761                   | 0.53%               |
| Humboldt Republic         | 35k                     | 36k                    | 2.86%               |
| Wild Berries              | 3604                    | 3769                   | 4.58%               |
| Dimple Records            | 5635                    | 5666                   | 0.55%               |
| Humboldt Bar& Grill       | 789                     | 813                    | 3.04%               |
| Benbow                    | 7037                    | 7087                   | 0.71%               |
| Willitis Collision Center | 343                     | 389                    | 13.41%              |
| Kustoms By Spence         | 2023                    | 2126                   | 5.09%               |
| Picaro Gordo              | 3                       | 10                     | 233.33%             |
| SHANACHIE PUB             | 1436                    | 1459                   | 1.60%               |
| ONESIXTWO STUDIOS         | 314                     | 334                    | 6.37%               |
| ALEX THE DOULA            | 174                     | 190                    | 9.20%               |
| 707 APPAREL AND MORE      | 758                     | 760                    | 0.26%               |
| PARADISE JUICE&COFFEE     | 9                       | 12                     | 33.33%              |
| HEADROOM SMOKE SHOP       | 2183                    | 2184                   | 0.05%               |

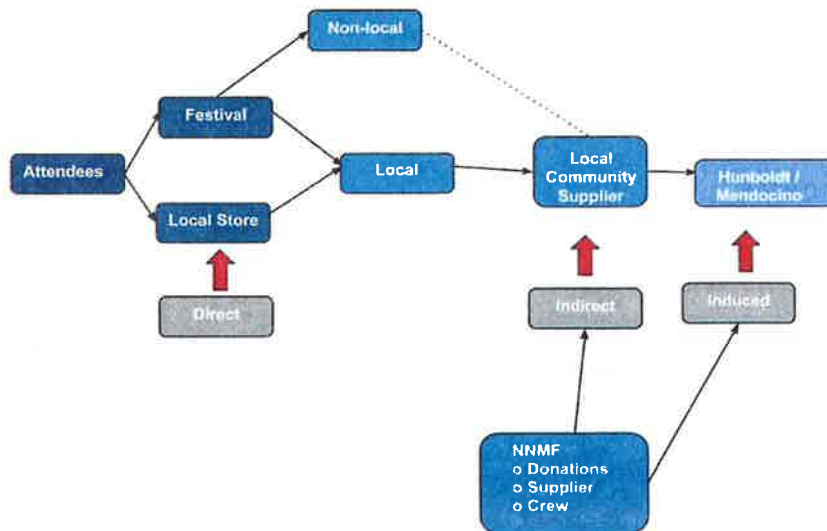
**Recommendations & Improvements:**

- 1) Help those businesses that do not have their websites or Facebook accounts to establish their own websites and Facebook pages.
  
- 2) Build a close connection between those local businesses and the festival. The company might build a special Facebook page and bring all the related local business to join in this Facebook account, which will make it easier for customers to share some feelings or feedback on it, in turn allowing more people to be aware of those local businesses.
  
- 3) NNMF should post something related to those local businesses on their official social media accounts to recommend them to more people and let them do some shopping there during the festival indirectly.

## 5. CALCULATING ECONOMIC IMPACT

There are two types of expenditures that we need to take into consideration in order to understand the real economic impact on the local economy of Humboldt and Mendocino County. The first one are the dollars spent by Northern Nights Music Festival on the local community, and how this expenditures can trigger additional economic activity in the area. The second economic impact is the dollars spent by the attendees on both the on-site local vendors and local stores surrounding the event area, economic agents whose suppliers are located inside Humboldt and Mendocino County and that are indirectly affected by the event. The expenditures at the festival generate demand for local goods and services, which in turn, results in local opportunities in terms of growth for businesses and jobs for local people. At the same time, these suppliers' additional income increases the economic activity of the area. The process of how Northern Nights Music Festival impacts the local economy is represented in the following figure:

Figure 2. NNMF Local economic impact process



The process is the following. The attendees have two options of directly contributing to the local economy: through vendors on-site and local stores located in the surroundings of the event. Inside of the festival, we can also divide the vendors into two categories: local and non-local. We consider that the local ones will source their ingredients from the local suppliers and spend their profits in that economy. However, only a percentage of the non-local vendors will source and spend their money in Humboldt/Mendocino. After the indirect impact is completed, the increase in the household income will translate into an increase of consumption of goods and services in the local economy by these agents involved in the process.

The participants of the event make an impact on the local economy in two possible scenarios. One of them is stopping by and spending in a local store on the way of the festival, and by spending on any local vendor located inside of the festival. For that reason, the surveys conducted collected economic information from these two perspectives, shown in the following two figures:

Out of the 31 surveyed local attendees:

- 20 stopped by a local store on the way to the festival and 17 on the way back.

Out of the 89 surveyed visitor attendees:

- 50 stopped by on the way to the festival, and 35 on the way back. The average spending by these attendees was \$173 on the first stop, and \$78 on their way back

**Table 2. Average daily spending per person**

| Daily Expenditures | F&B     | Accommodation | Entertainment | Retail  | Transport |
|--------------------|---------|---------------|---------------|---------|-----------|
| Visitor            | \$30.74 | \$7.73        | \$10.98       | \$15.86 | \$21.92   |
| Local              | \$29.51 | \$9.19        | \$3.71        | \$17.35 | \$16.48   |

We need to find out essential information pieces to assess the direct expenditures made by the attendees who participated in the Northern Nights Music Festival experience. A key component for this report is the proportion of local attendees to visiting attendees, because visiting attendees tend to generate more economic activity than local attendees. To address this, we develop two spending patterns, one for locals and one for visitors, based on the survey data. As expected, visiting attendees did spend more on average. Intuitively, this makes sense, since many local attendees do not require lodging.

Money spent on tickets is not included since these dollars would not necessarily be spent in Humboldt/ Mendocino County after and during the event. Thus, ticket revenues have been omitted from the economic impact analysis.

We calculate the total direct expenditures inside the festival area by calculating; 1) attendance figures, 2) the proportion of local/visiting attendees and 3) average daily expenditures by each group, all collected from survey data. We estimate spending by local attendees to be \$94,540.71, and spending by visiting attendees to be \$310,525.52, for a total of \$405,066.23 over the three-day event. On the other side, we estimate the total expenditures on surrounding local stores to be \$689,605.38, by 4,800 number of attendees.

**Table 3.** Total direct expenditures on-site

| Spending Summary | Local              | Visitors           | Total              |
|------------------|--------------------|--------------------|--------------------|
| F&B              | \$36,587.38        | \$109,418.8        | \$146,006.2        |
| Accommodation    | \$ -               | \$27,533.33        | \$27,533.33        |
| Entertainment    | \$4,600            | \$39,080.00        | \$43,680.00        |
| Retail           | \$21,520           | \$56,453.33        | \$77,973.33        |
| Transport        | \$20,433.33        | \$78,040           | \$98,473.33        |
| <b>TOTAL</b>     | <b>\$83,140.71</b> | <b>\$310,525.5</b> | <b>\$393,666.2</b> |

**Table 4.** Total expenditures on surrounding local stores

|                                     |              |
|-------------------------------------|--------------|
| Guest Spending outside the festival | \$689,605.38 |
|-------------------------------------|--------------|

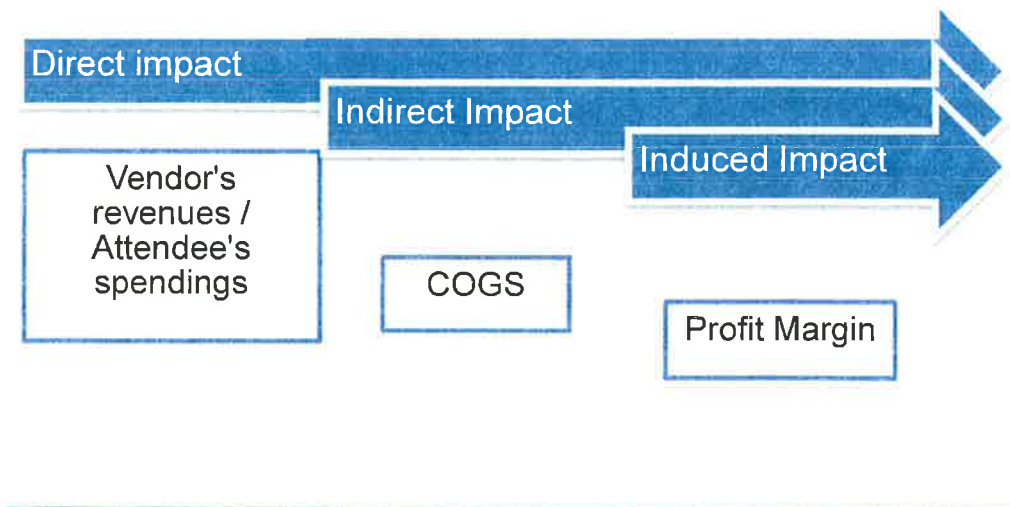
## Vendors

However, in order to determine the economic impact, and since most of these expenditures conducted by the attendees are made through the vendors (which are the intermediaries that are in charge of distributing most of the attendees' economic impact onto the local economy), the important pieces of information that we need to know are closely related to the on-site vendors:

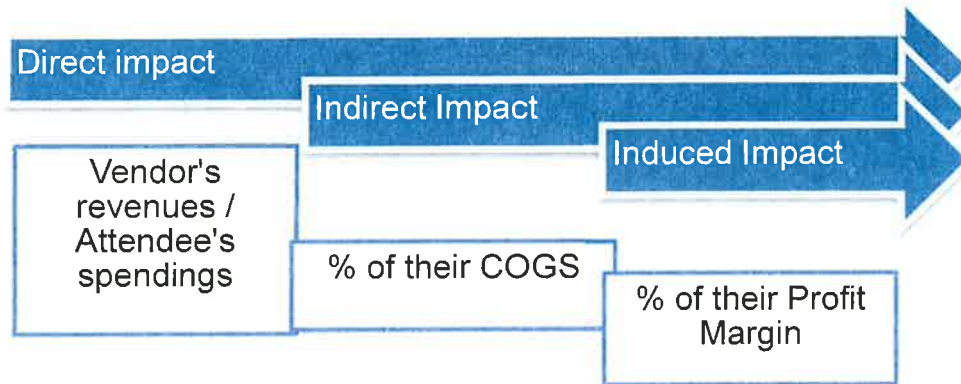
- Ratio local to non-local vendors
- Percentage of vendors who sourced their ingredients/materials locally
- Total number of vendors
- Revenues/Sales per vendor

By having this information we can precisely calculate how many dollars that came from the attendees are staying in Humboldt and Mendocino, and how many are leaving the local counties by the hands of the employees of the non-local vendor stores. With the objective of narrowing down the real economic impact, we are also going to narrow down the amount of dollars that the vendors have impacted on their suppliers and the local community. First of all, we categorize them into locals and non-locals:

**Figure 3.** Local Vendor's indirect and induced impact



**Figure 4.** Non-Local Vendor’s indirect and induced impact



This is the structure that this report will work on in order to calculate the indirect and induced impact made by the vendors. The Cost of Goods Sold entailed by local vendors is paid directly and entirely to the local suppliers, as we consider that local vendor’s dollars stay in Humboldt and Mendocino. In the case of non-local vendors, only a percentage of them who sourced locally will get accounted for this indirect impact.

Once these vendors have deducted their COGS (Costs of goods sold) and SG&A (General and administrative costs) –both onto the local economy- the remaining profits can be considered as an increase in the household’s (vendor) income, which will then translate into an additional economic activity in the area if this vendor lives within the local county.

We are not supposing that the local employees will spend the entirety of their profits in the local economy; but instead, a variation in their incomes will most likely “induce” a change in consumption of goods and services: this household consumption will increase at the same rate as the increase in income level. From the business point of view, an increase in profits can be translated into a reinvestment on the business, either in more cash (increase in income) or in investment on assets for the activity of the company (induced effects). In order to make it more accurate, we deducted an

average personal savings rate (5.6% April 2015 –tradingeconomics.com) from their income, to represent a real life scenario. For the non-local vendors, we accounted that only a reduced percentage of their profits stay in the local economy.

## Northern Nights Music Festival

Local expenditures in direct relation to Northern Nights Music Festival totaled \$289,795. This amount includes but not limited to environmental safety, equipment, rental, security detail, safety, transportation and insurance. Producing the event and building the stages bring substantial amount of money into the local economy, since not only the materials are required, but also the trained personnel. Due to the fact that this report is aimed at calculating the economic impact on the local economy, some expenditure that are most likely to be spent outside Humboldt/ Mendocino are excluded, such as fees paid to music performers.

Based on a sample of 2000 attendees who purchased the tickets online and in the hard format, 1520 (76%) were visitors coming from outside of these counties and 480 (24%) of which were local.

## Total direct expenditures

The sum of the expenditures by Northern Nights and by the attendees forms the total direct expenditures for the event. Expenditures attributing attendees are counted in full - this is spending that would not have occurred in the absence of the festival. However, expenditures by local attendees have to be adjusted to capture only the spending that would not have occurred in the absence of the event.



**Table 5.** Adjusted direct impacts

| Adjusted Impacts | Direct                | Adjusted              |
|------------------|-----------------------|-----------------------|
| Local            | \$272,688.77          | \$142,044.38          |
| Visiting         | \$821,982.84          | \$821,982.84          |
| NNMF             | \$289,795.00          | \$289,795.00          |
| <b>Total</b>     | <b>\$1,384,466.61</b> | <b>\$1,253,822.22</b> |

- Accommodations spending is included in its entirety
- We count 50% of local expenditures in all other categories

In total, the 2015 Northern Nights Music Festival generated \$1,253,822.22 in direct expenditures in Humboldt and Mendocino County, after adjustment.

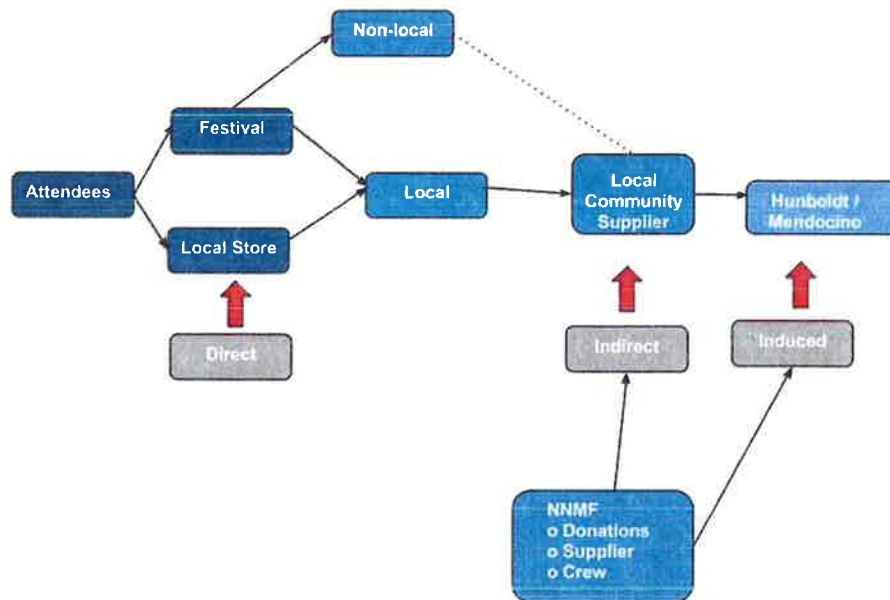
## 6. ECONOMIC IMPACT

Once we have the direct expenditures by organizers and by each type of event attendee, we subsequently use the economic impact model to estimate the induced and indirect economic impact of the expenditures on the economy in the area. The indirect economic impact of an event stems from the economic activity that is generated by the spending. For example, food vendors for the event will purchase ingredients from the local economy; their spending has an indirect economic effect. The earnings generated by the event will also cause additional economic activity in the area—this additional economic activity is known as the induced demand. The total economic impact of the event is the sum of the direct expenditures, the indirect economic impact, and the induced economic impact.

**Total economic output = Direct + Indirect + Induced**

As this report mentioned before, in order to calculate the indirect and induced economic effects of the event on the local economy we are going to base it on our vendor-ship model including the COGS (Costs of goods sold), SG&A (Selling, general and administrative expenses) and their Profit Margins, adjusted with the personal savings rate.

**Figure 5.** NNMF local economic impact process



**Table 6.** Attendees/Vendors indirect impact summary

| Indirect Impact MATRIX | Vendors      Local Stores      TOTAL |                      |                      |
|------------------------|--------------------------------------|----------------------|----------------------|
|                        | Food & Beverages                     | \$ 37,650            | \$ 199,961.50        |
| Accommodation          | \$ -                                 | \$ -                 | \$ -                 |
| Entertainment          | \$ 19,656                            | \$ -                 | \$ 19,656            |
| Retail                 | \$ 14,050                            | \$ -                 | \$ 14,050            |
| Transport              | \$ -                                 | \$ 320,702.58        | \$ 320,702.58        |
| <b>TOTAL</b>           | <b>\$ 71,356</b>                     | <b>\$ 520,664.09</b> | <b>\$ 592,020.09</b> |

The total indirect economic impacts made by the attendees of the festival through vendors is \$71,356, while being \$520,664.09 through the local stores surrounding the event, making it a total of \$592,020.09 on the local economy of Humboldt and Mendocino.

**Table 7.** Attendees/Vendors induced impact summary

| Induced Impact MATRIX | Vendors              | Local Stores         | TOTAL                |
|-----------------------|----------------------|----------------------|----------------------|
| Food & Beverages      | \$ 16,099.86         | \$ 109,084.33        | \$ 125,184.19        |
| Accommodation         | \$ -                 | \$ -                 | \$ -                 |
| Entertainment         | \$ 91,144.41         | \$ -                 | \$ 91,144.41         |
| Retail                | \$ 5,912.15          | \$ -                 | \$ 5,912.15          |
| Transport             | \$ -                 | \$ 29,158.64         | \$ 29,158.64         |
| <b>TOTAL</b>          | <b>\$ 113,156.41</b> | <b>\$ 138,242.97</b> | <b>\$ 251,399.38</b> |

The total indirect economic impacts made by the attendees of the festival through vendors is \$113,156.41, while being \$138,242.97 through the local stores surrounding the event, making it a total of \$251,399.38 on the local economy of Humboldt and Mendocino.

Once we have the induced and indirect impacts by the economic agents inside the festival (vendors), we can proceed to estimate these two impacts made by the organizers of the event. This report will structure these impacts in the following manner:

Indirect impacts: related to the cost of goods sold by the suppliers/providers of the services of materials, which end up in the local community (i.e. COGS dollars of the main stage providers end up in their subsequent local suppliers). We estimate an average 40% of COGS for all the NNMF’s suppliers.

Induced impacts: related to the increase in the provider/supplier’s income, which translates into an increase of their household consumption. We estimate an average of 54.4% Profit Margin adjusted after the 5.6% personal savings rate.

The summary of the total economic output generated by this event is represented in the following table:

**Table 8. Total economic output of NNMF 2015**

| <b>TOTAL ECONOMIC OUTPUT</b>        |                       |
|-------------------------------------|-----------------------|
| Guest Spending inside the festival  | \$393,666.23          |
| Guest Spending outside the festival | \$689,605.38          |
| NNMF Spending                       | \$289,795.00          |
| <b>Direct Economic Impact</b>       | <b>\$1,384,466.61</b> |
| Vendors                             | \$71,356.00           |
| Local stores                        | \$520,664.09          |
| <b>Indirect Economic Impact</b>     | <b>\$592,020.09</b>   |
| Vendors                             | \$113,156.41          |
| Local stores                        | \$138,242.97          |
| <b>Induced Economic Impact</b>      | <b>\$251,399.38</b>   |
| <b>TOTAL</b>                        | <b>\$2,227,886.08</b> |

## 7. FISCAL IMPACT

Spending by 2015 Northern Nights Music Festival's attendees and organizers also generated additional tax revenues (7.5% sales tax and 6% income tax) for state and local governments of Humboldt and Mendocino counties. An estimated \$25,094 in income and sales tax revenues went to state and local governments as a result of event-related spending inside of the facilities of the event (through the vendors). On the other side, an estimated \$22,807 went to governments through the collection of taxes in the local stores.

By looking at direct spending numbers for attendees and NNMF, we can also estimate tax revenues stemming from specific local and state taxes. These revenues are generated when attendees spend money at local retail establishments, restaurants, and through vendors operating on-site. For example, spending by attendees on food and beverages and retail items generated an estimated \$47,000 in sales tax revenue for the counties of Humboldt and Mendocino, which is the equivalent of 1 high school teacher salary, 47 new computers for the schools of Humboldt/Mendocino counties, or even new water tenders for the local firefighters, department that is not properly subsidized by the government.

**Table 9.** Fiscal Impact of NNMF 2015

| Fiscal Impact MATRIX | Vendors             | Outside             | TOTAL               |
|----------------------|---------------------|---------------------|---------------------|
| Food & Beverages     | \$ 5,467.50         | \$ 17,996.54        | \$ 23,464.04        |
| Accommodation        | \$ -                | \$ -                | \$ -                |
| Entertainment        | \$ 15,036.84        | \$ -                | \$ 15,036.84        |
| Retail               | \$ 4,590            | \$ -                | \$ 4,590            |
| Transport            | \$-                 | \$ 4,810.54         | \$ 4,810.54         |
| <b>TOTAL</b>         | <b>\$ 25,094.34</b> | <b>\$ 22,807.07</b> | <b>\$ 47,901.41</b> |

## 10. CONCLUSION

Based on a survey of 120 attendees, we estimate the average daily expenditures per person to be \$76.24 for locals and \$87.23 for visiting attendees.

Economic output in Humboldt and Mendocino County increased by \$2,227,886.08

- Local attendees were responsible for \$465,000 of the economic impact, visiting attendees were responsible for \$1,473,000, and Northern Nights Music Festival was responsible for \$289,000.
- The festival generated an additional tax income for local governments by an estimated of \$47,000.

With this information, we can conclude that Northern Nights music festival had in fact a significant and positive economic impact on the local communities of Humboldt and Mendocino.

11. APPENDIX

**Table 10.** Attendee’s spending summary

| Spending Summary | Daily              |         | Daily               |         | Total               |
|------------------|--------------------|---------|---------------------|---------|---------------------|
|                  | Local              | Average | Visitors            | Average |                     |
| F&B              | \$36.587,38        | \$29,51 | \$109.418,85        | \$30,74 | \$146.006,23        |
| Accommodation    | \$11.400,00        | \$9,19  | \$27.533,33         | \$7,73  | \$38.933,33         |
| Entertainment    | \$4.600,00         | \$3,71  | \$39.080,00         | \$10,98 | \$43.680,00         |
| Retail           | \$21.520,00        | \$17,35 | \$56.453,33         | \$15,86 | \$77.973,33         |
| Transport        | \$20.433,33        | \$16,48 | \$78.040,00         | \$21,92 | \$98.473,33         |
| <b>TOTAL</b>     | <b>\$94.540,71</b> |         | <b>\$310.525,52</b> |         | <b>\$405.066,23</b> |

**Table 11.** Entertainment vendors’ impact calculation

|                                     | <i>Local</i>       | <i>Non-Local</i>   |
|-------------------------------------|--------------------|--------------------|
| Average total spending Attendees    | \$11,13<br>1240    | \$32,93<br>3560    |
| Entertainment EX                    | \$13.800,00        | \$117.240,00       |
| COGS                                | \$2.070,00         | \$17.586,00        |
| <b>EBT</b>                          | <b>\$11.730,00</b> | <b>\$99.654,00</b> |
| Sales taxes                         | \$879,73           | \$7.474,05         |
| Income taxes                        | \$703,80           | \$5.919,24         |
| <b>NET INCOME</b>                   | <b>\$10.146,45</b> | <b>\$86.200,71</b> |
| Savings rate                        | \$547,91           | \$4.654,84         |
| <b>INCREASE IN HOUSEHOLD INCOME</b> | <b>\$9.598,54</b>  | <b>\$81.545,87</b> |
| 100% Spent in local economy         | \$9.598,54         | \$81.545,87        |
| <b>INDUCED IMPACT</b>               | <b>\$9.598,54</b>  | <b>\$81.545,87</b> |

**Table 12. Food & Beverages vendors impact calculation**

| <i>NON-LOCALS</i>                   |             |  | Average     | <i>LOCALS</i>                       |              |  | Average     |
|-------------------------------------|-------------|--|-------------|-------------------------------------|--------------|--|-------------|
| Gross Sales                         |             |  | \$10.000,00 | Gross Sales                         |              |  | \$10.000,00 |
| COGS                                |             |  | \$6.500,00  | COGS                                |              |  | \$6.000,00  |
|                                     | Sourced     |  |             |                                     | Sourced      |  |             |
|                                     | 30% locally |  | \$1.950,00  |                                     | 100% locally |  | \$6.000,00  |
|                                     | 70% outside |  | \$4.550,00  |                                     |              |  |             |
| <b>EBT</b>                          |             |  | \$3.500,00  | <b>EBT</b>                          |              |  | \$4.000,00  |
| Sales taxes                         | 7,5%        |  | \$262,50    | Sales taxes                         | 7,5%         |  | \$300,00    |
| Income taxes                        | 6,0%        |  | \$210,00    | Income taxes                        | 6,0%         |  | \$240,00    |
| <b>NET INCOME</b>                   |             |  | \$3.027,50  | <b>NET INCOME</b>                   |              |  | \$3.460,00  |
| Savings Rate                        | 5,4%        |  | \$163,49    | Savings Rate                        |              |  | \$186,84    |
| <b>INCREASE IN HOUSEHOLD INCOME</b> |             |  | \$2.864,02  | <b>INCREASE IN HOUSEHOLD INCOME</b> |              |  | \$3.273,16  |
| 15% Spent in local economy          |             |  | \$429,60    | 100% Spent in local economy         |              |  | \$3.273,16  |
| <b>INDUCED IMPACT</b>               |             |  | \$429,60    | <b>INDUCED IMPACT</b>               |              |  | \$3.273,16  |

|                 |            | 7 Vendors   |                 | 4 vendors              |
|-----------------|------------|-------------|-----------------|------------------------|
| Indirect Impact | \$1.950,00 | \$13.650,00 | Indirect Impact | \$6.000,00 \$24.000,00 |
| Induced Impact  | \$429,60   | \$3.007,22  | Induced Impact  | \$3.273,16 \$13.092,64 |
| Fiscal Impact   | \$472,50   | \$3.307,50  | Fiscal Impact   | \$540,00 \$2.160,00    |



**Table 13.** Transport & Food local stores impact calculation

| <i>OUTSIDE OF THE FESTIVAL</i>      |              |              |                                     |              |             |
|-------------------------------------|--------------|--------------|-------------------------------------|--------------|-------------|
|                                     |              | To           | From                                |              |             |
| Average Spending per person         |              | \$173,39     | \$78,17                             |              |             |
| Average % that stops by             |              | 59%          | 54%                                 |              |             |
| Total expenditures                  |              | \$488.370,25 | \$201.235,13                        |              |             |
| Main Categories                     |              |              |                                     |              |             |
| Gas                                 |              | 40%          | 80%                                 |              |             |
| Food                                |              | 60%          | 20%                                 |              |             |
| Gross sales                         | \$195.348,10 | \$160.988,10 | Gross sales                         | \$293.022,15 | \$40.247,03 |
| COGS                                | \$175.813,29 | \$144.889,29 | COGS                                | \$175.813,29 | \$24.148,22 |
| <b>EBT</b>                          | \$19.534,81  | \$16.098,81  | <b>EBT</b>                          | \$117.208,86 | \$16.098,81 |
| Sales taxes                         | \$1.485,11   | \$1.207,41   | Sales taxes                         | \$8.790,86   | \$1.207,41  |
| Income taxes                        | \$1.172,09   | \$965,93     | Income taxes                        | \$7.032,53   | \$965,95    |
| <b>NET INCOME</b>                   | \$16.897,61  | \$13.925,47  | <b>NET INCOME</b>                   | \$101.385,66 | \$13.925,47 |
| Savings Rate                        | \$912,47     | \$751,98     | Savings Rate                        | \$5.474,83   | \$751,98    |
| <b>INCREASE IN HOUSEHOLD INCOME</b> | \$15.985,14  | \$13.173,50  | <b>INCREASE IN HOUSEHOLD INCOME</b> | \$95.910,84  | \$13.173,50 |
| 100% Spent in local economy         | \$15.985,14  | \$13.173,50  | 100% Spent in local economy         | \$95.910,84  | \$13.173,50 |
| <b>INDUCED IMPACT</b>               | \$15.985,14  | \$13.173,50  | <b>INDUCED IMPACT</b>               | \$95.910,84  | \$13.173,50 |

**Table 14.** Retail vendors' impact calculation

| <i>NON-LOCALS</i>                   |      |                 | Average        | <i>LOCALS</i> |                                     |      | Average         |                 |
|-------------------------------------|------|-----------------|----------------|---------------|-------------------------------------|------|-----------------|-----------------|
| Gross Sales                         |      |                 | 5000           |               | Gross Sales                         |      | 5000            |                 |
| COGS                                |      |                 | 2750           | 50%           | COGS                                |      | 2500            |                 |
|                                     | 30%  | Sourced locally | 825            |               |                                     | 100% | Sourced locally | 2500            |
|                                     | 70%  | Sourced outside | 1925           |               |                                     |      |                 |                 |
| <b>EBT</b>                          |      |                 | <b>2250</b>    |               | <b>EBT</b>                          |      |                 | <b>2500</b>     |
| Sales taxes                         | 7,5% |                 | 168,75         |               | Sales taxes                         | 7,5% | 187,5           |                 |
| Income taxes                        | 6,0% |                 | 135            |               | Income taxes                        | 6,0% | 150             |                 |
| <b>NET INCOME</b>                   |      |                 | <b>1946,25</b> |               | <b>NET INCOME</b>                   |      |                 | <b>2162,5</b>   |
| Savings Rate                        | 5,4% |                 | 105,10         |               | Savings Rate                        |      | 116,775         |                 |
| <b>INCREASE IN HOUSEHOLD INCOME</b> |      |                 | <b>1841,15</b> |               | <b>INCREASE IN HOUSEHOLD INCOME</b> |      |                 | <b>2045,725</b> |
| 15% Spent in local economy          |      |                 | 276,17         |               | 100% Spent in local economy         |      | 2045,725        |                 |
| <b>INDUCED IMPACT</b>               |      |                 | <b>276,17</b>  |               | <b>INDUCED IMPACT</b>               |      |                 | <b>2045,725</b> |

|                 |          | 14 Vendors  |                 | 1 vendor(s)          |
|-----------------|----------|-------------|-----------------|----------------------|
| Indirect Impact | \$825,00 | \$11.550,00 | Indirect Impact | \$2.500 \$2.500,00   |
| Induced Impact  | \$276,17 | \$3.866,42  | Induced Impact  | \$2.045,7 \$2.045,73 |
| Fiscal Impact   | \$303,75 | \$4.252,50  | Fiscal Impact   | \$337,50 \$337,50    |

**CUP-04- 38MMM Modification Request for Use of County Line Ranch for  
Northern Nights Music Festival on the Weekend of July 14-17, 2016 and for a  
One Day Concert on July 2<sup>nd</sup> or 3<sup>rd</sup>, 2016**

The following is proposed for a modification of Conditional Use Permit CUP-04-38MMM on County Line Ranch (APN 33-271-07), for use during a four-day outdoor music and art event known as Northern Nights Music Festival on the weekend of July 14-17, 2016 and during a one day outdoor concert on July 2<sup>nd</sup> or 3<sup>rd</sup>, 2016. The use(s) are proposed in conjunction with Mendocino County CUP (UM 2013/4). The intent is to continue and modify use entitlements of the CUP. This document will be shared and discussed among associated regulatory agencies and used to identify project improvements and mitigations that reduce environmental impact levels to less than significant.

## **Project Description – Northern Nights**

Conditional Use Permit 04-38MMM has allowed auxiliary uses to occur at County Line Ranch (APN 033-271-07) during the third weekend of July in support of Northern Nights Music Festival held on adjacent parcels in Mendocino County (APN 053-020-10, -11, -12, -13, -14 and -16). The Applicants are currently approved for a 6,000 person three-day event in and by Mendocino County (CUP UM 2014-0011). The Applicants propose to modify Humboldt County Conditional Use Permit 04-38MMM in order to provide supplemental parking and camping to accommodate 2,000 attendees and 2,000 vehicles, food vendors, a silent disco, and to provide site access for early arrivals on Thursday July 14<sup>th</sup>. The project proponent and applicant is Northern Nights Music Group, LLC. The owner of record for County Line Ranch is Outraged Orangutan, LLC.

### ***Northern Nights Mission Statement***

Northern Nights Music Festival is produced by an experienced and professional production company, with a mission to ensure high quality events that showcase the region to new audiences, facilitate positive and enlightening experiences rooted in art and music, and demonstrate ways to act sustainably. Northern Nights meets goals by implementing measures that ensure public safety, stimulate Humboldt and Mendocino economies, provide financial support to local school districts, public service providers, non-profits and charities, and protect the local environment and quality of life.

## **Plan of Operations**

The Applicants are proposing to use County Line Ranch for supplemental parking and camping during Northern Nights Music Festival to accommodate 2,000 attendees and 2,000 vehicles. The event is proposed to take place the third weekend of July each year, falling on Thursday the 14th through Sunday the 17th in 2016. The event will include camping, local and international entertainment, as well as provisions for the on-site consumption of food and alcohol.

### ***Location and Environmental Setting***

The Project Site known as County Line Ranch is approximately 160 acres in size and is located adjacent to and east of Highway 101 approximately 8 miles south of Garberville. The South Fork Eel River runs through the entire site, which extends east of the river. Proposed uses include music, camping and vending in the upland areas as well as music and camping along approximately 3,000 linear feet of gravel bar. The project extends onto over 100 acres into Mendocino County. The total use area is shown in Figure 1.

### ***Attendance***

The Applicants are requesting a modification to CUP 04-38MMM for the use of County Line Ranch for supplemental parking and camping for 2,000 attendees and 2,000 vehicles during Northern Nights Music Festival.

A population of approximately 5% of the total attendance capacity will be on-site two weeks before and two weeks after the event as build and strike crews. Event vendors and staff will start arriving Wednesday before the event. It is estimated that a population of approximately 25% of the total event capacity will be on-site by Thursday evening and a population of another 50% of total event capacity will have arrived by Friday evening. The remaining 25% of the total event capacity will arrive Saturday resulting in peak capacities Saturday night.

It is expected that a minimum of 25% and maximum of 50% of the population will leave Sunday by 4 pm. It is estimated that 75% of attendees will stay on-site and that 25% will stay off site either at hotels or at their home.

The Applicants are event management professionals and ensure that the number of individuals on-site will not exceed the capacity for which infrastructure can reasonably and safely support. Total attendance of the festival in both Humboldt and Mendocino Counties at any one time will be verified through wristband counts, box office cross-verification, and on-site security.

### ***Schedule and Hours of Operation***

*May 1st* – Water system preparation

*June 15<sup>th</sup>* – Fencing, electrical, signage and general infrastructure setup

*Wednesday prior to event* – vendors arrive for setup mid-day

*Thursday prior to event* - gates open in AM for up to 25% of total event capacity, amplified music from 6 PM to 10 PM

*Friday of the event* – gates open 8 AM, amplified music from 10 AM to 2 AM

*Saturday of the event* – gates open 8 AM, amplified music from 10 AM to 2 AM

*Sunday of the event* – gates open 8 AM, amplified music from 10 AM to 12 AM

*Monday following the event* – attendees depart, strike and cleanup begins

*July 31<sup>st</sup>* – strike and cleanup complete

*Dec 31<sup>st</sup>* – Post Event Report Submitted to County

### ***Concert and Infrastructure***

Temporary stages will be built and oriented away from Highway 101 and developed residences in the Piercy area, keeping them shielded from the main source of light and sound. The stages will be separated from the highway by a number of mature trees and is at least 40 feet lower in elevation than the highway, further mitigating any paths of direct light to properties across the highway. Any lighting other than performance displays (such as light towers) will be downcast and shielded from adjacent properties. No organized outdoor amplified performances are currently proposed in Humboldt County, with the possible exception of a Silent Disco, which is not amplified.

Several permanent structures and systems were built between 2000 and 2009 on County Line Ranch. These include an electrical system, water system, viewing platforms, fencing, shade support beams, and various other structures. These systems and structures have been under repair and improvement by the property owners since the purchase of the land and much of this infrastructure will be utilized during Northern Nights.

### ***Camping and Parking***

Camping and parking for the participants and staff will be provided on both County Line Ranch and adjacent Mendocino County properties. The on-site camping capacity of the event is approximately 10,725 attendees in eight designated camping areas spread over more than 25 acres. The on-site parking capacity is approximately 3,639 vehicles and 170 RVs and trailers in eight designated parking areas. Campers will be required to maintain a 30 ft. setback from the water's edge and vehicles will be required to maintain a 100 ft. setback. These setbacks will allow for pedestrian traffic as well as emergency access. Total camping and parking capacities are shown in Table 1 and are identified in Figure 2.

**Table 1. On-Site Parking and Camping Capacities**

| <b>PARKING</b>       | <b>CARS AND TRUCKS</b> | <b>RVS AND TRAILERS</b> | <b>CAMPING</b>       | <b>ATTENDEES</b> |
|----------------------|------------------------|-------------------------|----------------------|------------------|
| <b>P1</b>            | 361                    |                         | <b>C1</b>            | 2250             |
| <b>P2</b>            | 833                    | 50                      | <b>C2</b>            | 1125             |
| <b>P3</b>            | 1111                   | 75                      | <b>C3</b>            | 1500             |
| <b>P4</b>            | 222                    | 25                      | <b>C4</b>            | 600              |
| <b>P5</b>            | 167                    | 10                      | <b>C5</b>            | 1125             |
| <b>P6</b>            | 167                    | 10                      | <b>C6</b>            | 1500             |
| <b>P7</b>            | 83                     |                         | <b>C7</b>            | 1500             |
| <b>P8</b>            | 694                    |                         | <b>C8</b>            | 1125             |
| <b>TOTAL PARKING</b> | <b>3,639</b>           | <b>170</b>              | <b>TOTAL CAMPING</b> | <b>10,725</b>    |

***Traffic Flow and Parking***

The festival traffic flow, parking, and encroachment plans will be the same as previous years and can be found in Appendix A. The plan has been designed by the Applicant and Stop N Go Traffic and reviewed by Caltrans, Garberville CHP, and stamped by a licensed traffic engineer. The plan includes measures for required signage, CMS Boards, cones, light towers, in-and-out regulations, and cancellation procedures. Estimated total number of vehicles parked on-site is 2,000 vehicles and are based on an average of 3 people per vehicle. Parking areas are shown in Figure 2 and will be filled in sequential order – beginning with P1.

*Wednesday (2 days prior to the event)*

The only traffic allowed on-site two days prior to the event will be vendors and staff, resulting in approximately 10% of the total vehicle capacity on-site.

*Thursday (day prior to the event)*

The only traffic allowed on-site the day before the event includes 4 day ticket buyers and staff resulting in approximately 25% of the total vehicle capacity on-site.

*Friday- Sunday (during the event)*

Most of the traffic to the event will be paying ticket holders. The gates will open at 8:00 AM on Friday. If there is a need to open the gates early for safety concerns, the Applicants will



have staff in place to handle this, following any commands of on-site Garberville Highway Patrol. Northbound traffic will use the right turn lane at the intersection of Highway 101 and State Route 271. Southbound traffic will use the left turn lane at the intersection of Highway 101 and State Route 271. The Applicants utilize a thorough traffic plan implemented by an experienced traffic crew that has proven very successful during past events at the same location. All vehicles will be directed to traffic lanes away from Highway 101 for processing.

There will be two main access points – one into Humboldt for staff, volunteers and performers, and one into Mendocino for ticket holders. Upon arrival to Mendocino, the entry will be divided into four lanes for wristband retrieval and impact checks.

#### *Monday (day after the event)*

The campground will close no later than noon on the Monday following the event and it is estimated that 5% of the total vehicle capacity will remain on-site for clean up over the following two weeks.

#### *Re-entry*

During the event, attendees will be allowed to leave the event only as necessary and only by vehicle. Attendees will be prohibited from leaving the event as pedestrians, and this will be enforced by Northern Nights staff and on-site law enforcement.

#### ***Public Safety***

Contact with local law enforcement, fire agencies, and emergency response personnel will be made more than two (2) months prior to the event. Any warranted walkthroughs will be made during the week of the event. A briefing sheet will be supplied during the walkthrough with contact and schedule information for all on-site emergency personnel.

A detailed emergency plan will be finalized in conjunction with emergency providers to include fire, medical, law enforcement and evacuation procedures. The final plan will contain detailed checklists and direct contact information for use by security and safety personnel. The plan will be submitted to the Humboldt County Planning Division and

Sherriff's Office at least two months before the commencement of the event. The Applicant has and will continue to coordinate with Humboldt and Mendocino County Sherriff's Offices, Piercy, Leggett and Garberville Fire Departments, Howard Fire, City Ambulance and Garberville CHP to ensure cross-county safety and clear emergency service provider communication.

Communications will be conducted through the use of radios, cell phones, and a land line in the event that cell phone reception is poor.

### ***Emergency Medical Plan***

An experienced medical service team will be contracted as the on-site medical care provider for the duration of the event. The ALS-staffed medical team will be available around the clock at an established medical tent accessible to anyone on-site. The team will consist of licensed E.M.T.'s, paramedics, M.D.'s, and nurses. Highly visible signage will identify the medical tent. All medical and security staff will communicate via radio with the command center. The Applicants will provide the identity and on-site contact information for medical team members at least 14 days prior to the event. Communication and transportation equivalent to Cal Fire dispatch will be on-site and available for any life-threatening emergencies. A helicopter landing area is available for emergency evacuation. Jerold Phelps Community Hospital in Garberville and City Ambulance will be notified of the event dates.

An evacuation plan satisfying emergency service agencies will be available prior to the event and the contracted medical team documentation will be submitted to the Planning Commission at least one month before the event.

### ***Emergency Fire Plan***

A Cal Fire Safety Regulations Package will be submitted to the California Department of Forestry and Fire Protection (Cal Fire). On-site fire safety support at the event will be supervised by Piercy Volunteer Fire Department who will be available for the duration of the event around the clock with a minimum of two (2) personnel and supported with a minimum of one (1) Type 3 fire engine and one (1) water tender for standby emergency

water and dust abatement, and radio communication equivalent to Cal Fire dispatch. An all-weather surfaced 20-ft fire lane existing around the perimeter of the campground will be designated for fire and emergency use. Visible signage will indicate designated locations for fire, medical, and security personnel. Fire extinguishers will be mounted accessibly around the event site.

The Applicants employ a team to specifically target prohibited burning and open flames, including fireworks, in addition to posting signage and informing patrons and staff of fire danger and the strict no burn and no fireworks policies. The Applicants will advertise this information on the event website, email, social media, and local radio.

The emergency fire plan will be reviewed by Cal Fire and Piercy Volunteer Fire Department and written correspondence with these agencies will be submitted to the Planning Division at least one month before the event.

### ***Emergency Response Plan***

Prior to the event, members of the medical, security and fire teams will meet and plan responses to emergency scenarios as well as identify and correct potential safety risks. A Communications Leader will be designated. Contact information will be organized and shared to facilitate emergency communication during the event.

If there is an emergency situation during the event, the Communications Leader will coordinate response efforts involving the event producers, security, medical, and fire team leads, and on-site law enforcement. In the case of a medical evacuation, the Communications Leader will also communicate with City Ambulance dispatch, Jerold Phelps Community Hospital and coordinate with on-site law enforcement and traffic crew to ensure a clear path for emergency vehicles. A helicopter landing area is available for emergency evacuation.

The various emergency response teams will communicate using handheld radios and cell phones. The Communications Leader will be able to contact Cal Fire dispatch, as will fire, medical and security personnel.

As necessary, event producers will communicate information to event attendees using main stage amplification and provide instructions to ensure emergency service providers can safely and quickly access necessary locations.

If a fire occurs, the Communications Leader will coordinate with Piercy Volunteer Fire Department, Cal Fire dispatch, on-site law enforcement, event security, medical, and traffic teams to ensure a clear path for emergency vehicles and to implement the Emergency Fire Plan as follows:

- 1) Notify off-site responders
- 2) Secure and clear the affected area
- 3) Shelter in place along the river bar; in the case of approaching wild land fire dismantle tents and campsites.
- 4) Responding agencies will determine extent of evacuation area.
- 5) Clear the evacuation area on foot to the predetermined evacuation zones
- 6) Use on-site communications resources such as the stage PA, on-site FM radio broadcasting, and event staff to inform and direct the public.

The emergency response plan will be reviewed by Garberville CHP, Humboldt County Sheriff's Office, and Piercy Volunteer Fire Department and written correspondence with these agencies will be submitted to the Planning Commission at least one month before the event.

### ***Security***

Professional on-site security services will be contracted for periods before, during and after the event. An experienced security service provider will be used as a lead supervising company to organize and lay out security locations and protocols. This security team will police attendee activity, restrict access to off-limit areas, monitor the control of alcohol, and prevent illegal drug consumption. An additional security team will be contracted to monitor perimeter and off-site areas. It is estimated that approximately 50-100 security personnel will be contracted under Northern Nights.

Every attempt will be made to limit encroachment and trespassing onto neighboring properties including installation of temporary fencing around the site perimeter. The perimeter of the site will include fencing and posted signs restricting access to areas not used for camping and parking.

The Applicants will maintain contact with the emergency service providers before, during, and after the event, and are committed to responsible management practices and an open communication with local law enforcement. After the event, a post-event meeting open to community members will be held.

The security plan will be reviewed by Garberville CHP and the Humboldt Sheriff's Office and written correspondence with these agencies will be submitted to the Planning Division at least one month before the event.

### ***Water Supply and Distribution***

County Line Ranch sources water from a well located on the eastern side of the property. The well water is pumped and stored in May in a 30,000-gallon storage tank on the northwest side and then distributed across the property. The well is approximately 125 feet from the bank of the Eel River. Due to its location, it is likely hydrologically connected to the river; however, there are numerous springs in the area which may also feed the well.

At an average of 3.5 gallons per person per day, 30,000 gallons is more than adequate to serve the needs of the 2,000 attendees in Humboldt County. Additional water storage infrastructure is under consideration and will be incorporated in future years. Water for dust abatement will be sourced from the 1 million gallon pond in Mendocino.

The Applicants will work with each County's respective environmental health department to ensure compliance of activities within each respective County. Locations of key features of the system are show in Figure 3.

Water samples will be collected before, during and after the event at point of service, at the source, and in the areas along the Eel River both upstream and downstream from the event.

Potable water is treated in four steps: (1) at the point of service via a sediment filter, (2) a 5-micron carbon block filter, (3) a UV filter and (4) a 1 micron carbon filter, as directed by Humboldt DEH.

### ***Sanitary Facilities***

There will be up to 200 portable toilets (including ADA) placed around the venue by a licensed service provider, maintaining a 40-50 people per facility. Hand wash stations are provided wherever toilets are located with a minimum of one wash station for every 10 toilets. Sewage will be disposed off-site at an approved disposal facility by the service provider. Locations of sanitary facilities can be seen in Figure 4.

### ***Solid Waste Disposal and Recycling***

A “Green Crew” will roam the event area and periodically empty the barrels at each station and take materials to the recycling area to sort and store them for disposal. Forty yard dumpsters will be used for trash and large totes for recyclables and transferred to a permitted waste disposal facility or recycling center by a commercial hauler. Waste stations and recycling containers will be placed in strategic locations to discourage littering. The location of the waste stations can be found in Figure 5.

The “Green Crew” remains on-site for up to two weeks following the event, sorting recyclables from solid waste, picking up “microtrash” from the entire site, including the full length of the river bar and swimming areas.

In 2013 Northern Nights generated diverted approximately 2,000 lbs of recyclables for a diversion rate of 10%. In 2014, the festival diverted approximately 6,000 lbs for a diversion rate of 18%. In 2015, Northern Nights diverted approximately 15,000 lbs of recyclables for a diversion rate of 25%.

Northern Nights goals are to increase the diversion rate to 40% in 2015, 50% in 2017 and 60% by 2018.

### ***Waste Water Disposal***

An analysis of the on-site greywater disposal system is currently under assessment and until complete, sewage and greywater will be pumped and/or stored above ground in tanks and hauled away to an approved waste water facility.

### ***Craft Booths***

There will be approximately 20-30 craft booths located around the perimeter of performance and other high traffic areas.

### ***Food Service***

Food vendors in Humboldt County will be provided with hot and cold water by existing County Line Ranch water systems. Cooking will be done with propane gas supplied by each vendor. Solid waste will be disposed in general waste receptacles, until a full analysis of composting regulations is completed. Liquid waste will be collected and stored on-site before being hauled off-site until a full analysis of the on-site greywater system has been completed.

All food vendors operating in Humboldt County will be subject to Humboldt County Division of Public Health operating standards and criteria.

### ***Alcohol***

Alcohol will be served at specific booths and managed by a professional concessions team. All ABC rules and regulations will apply and will be enforced. Attendees will not be allowed to bring their own alcoholic beverages into the concert area.

### ***Environmental Monitoring***

The proposed project incorporates mitigation measures in the project design to minimize environmental impacts as documented in the Environmental Impact Report and Supplemental Environmental Impact Report. Aspects of the Environmental Monitoring program will continue to include:

- Vehicles will be subjected to an “Impact Check” when arriving to look for leaking fluids, fireworks, and other prohibited items.
- Water quality (potable and river) will be monitored before, during and after the event by a qualified water treatment operator.
- Noise levels will be monitored throughout the event by a qualified acoustical engineer. One key mitigation technique that has worked extremely well in the past has been the implementation of a Silent Disco. Attendees that wish to continue to participate in music-related activities after the noise curfew are given a set of wireless headphones, mitigating both noise from amplified speakers as well as renegade sound systems.
- Dust will be controlled through the use of a water truck as necessary.
- No significant vegetation removal is required or proposed, other than for fire safety.
- No camping will be permitted within 30 ft of the river and no parking permitted within 100 ft of the river.
- An avian survey will be conducted two weeks prior to the event by a qualified biologist.

### ***Event Cancellation Protocol***

This is in case of a cancellation of event for any reasons such as fire, earthquake, or any other occurrence that may harm the public. In case of event cancellation, there will be several methods used for notifying the public that the event is cancelled and not to arrive at County Line Ranch.

Notification techniques include:

- Posting on event website and social media outlets notifying public of cancellation.
- Computerized message boards on Highway 101 notifying regional travelers of cancellation
- Targeted emails to all ticketholders with notification of cancelled event.



- Local newspaper and radio advertisements.

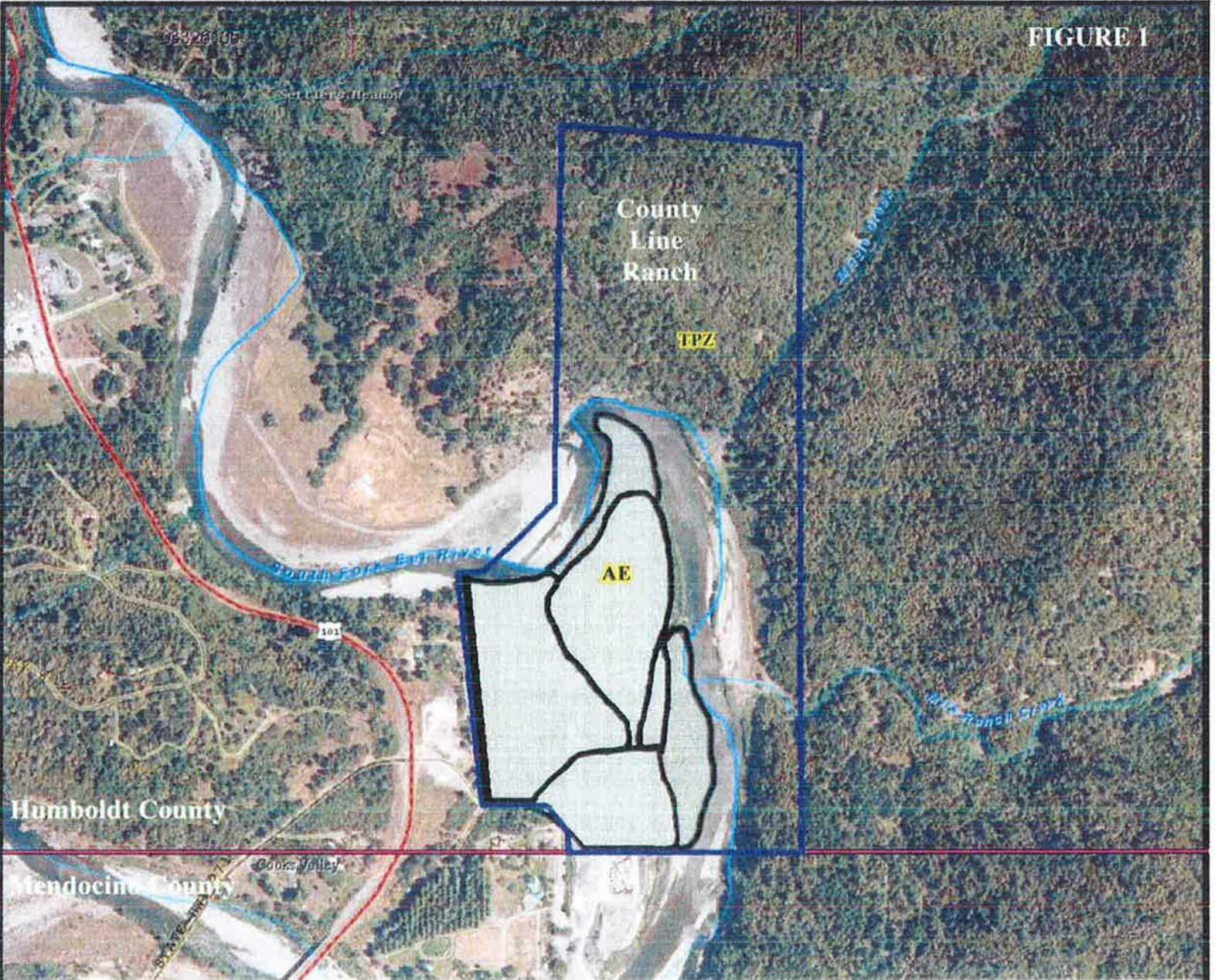
### ***Commitment to Local Schools, Non-Profit Organizations and Economic Boost***

Non-profit and community organizations that benefit directly from Northern Nights Music Festival include Piercy Volunteer Fire Department, Southern Humboldt and Northern Mendocino school districts, The Eel River Recovery Project, Salmonid Restoration Federation, EPIC, The Eel River Clean-up Project, Friends of the Eel River, KMUD Community Radio, Southern Humboldt Community Park, and Healthy Planet US. In 2015, a detailed Economic Impact Analysis was conducted and demonstrated that Northern Nights increased local economic impact of over \$2,000,000 in Mendocino and Humboldt Counties. Details of the report, conducted in collaboration with the University of San Francisco, can be found in Appendix B.

### ***Conclusion***

The Applicants have proven over the past three years that they can successfully manage large events in the Cook's Valley area. Positive feedback has been received from both Mendocino and Humboldt County officials, law enforcement agencies, local fire departments, service providers, press outlets, and Southern Humboldt and Northern Mendocino communities. The Applicants continue to review, improve, and refine event management practices in order to produce a safe event, abide by permit regulations, and continue dialogue with the local community on how to best stimulate local business and promote tourism into the area.

FIGURE 1



-  = FULL PROJECT AREA
-  = EVENT PROJECT AREA

**LOCATION & ZONING MAP**  
**PROPOSED OUTRAGED ORANGUTANG, LLC**  
**CONDITIONAL USE PERMIT RENEWAL**  
**COUNTY LINE RANCH (FORMERLY DIMMICK RANCH)**  
**COOKS VALLEY AREA**  
**CUP-04-38-MMM**  
**APN:033-271-07**  
**T05S R03E S24 H B & M**



FIGURE 2



FIGURE 2 - CAMPING AND PARKING

FIGURE 3



FIGURE 4



FIGURE 4 - SANITARY STATIONS

FIGURE 5



FIGURE 5 - RECYCLING STATIONS



## 2015 Traffic Control Plan

**Traffic Control Start:** Thursday, July 16, 2015 at 8:00 a.m.

**Traffic Control End:** Monday July 20, 2015 at 2:00 p.m.

### **THURSDAY JULY 16, 2015 (PRIOR TO EVENT)**

The only traffic allowed into the site on Thursday July 16<sup>th</sup> (one day prior to the event) will be staff, volunteers and vendors. No items shall be placed within the County road right of way without specific approval and issuance of an encroachment permit from the Department of Transportation. The permit should be available at the event site in the event it is requested at any time.

### **Traffic Control on US 101**

- Northbound traffic on US 101 will use the right turn lane at the intersection of US 101 and SR 271/Cook's Valley Road.
- Southbound traffic on US 101 will use the left turn lane.

### **Early Arrivals Information Campaign**

- Early arrivals shall be discouraged by prohibiting the line-up of cars along US 101 before the official gate opening to the public on Friday July 17<sup>th</sup>.
- To discourage early arrivals, the following will be used:
  - CMS signs on US 101 (See Map 1 for placement)
  - Information placed on the official event website
  - E-mails sent to attendees, event organizers, sponsors, vendors, staff, and the media.
  - Social media posts (Facebook, Twitter and/or others as appropriate)
  - Announcements on local radio stating "NN camping prohibited on Thursday July 16<sup>th</sup>"

## **FRIDAY JULY 17, 2015 – SUNDAY JULY 19, 2015 (DURING EVENT)**

By 7:00 a.m. on Friday July 17<sup>th</sup>, put out signs, cones and have personnel in the field. Most of the traffic to the event will be paying patrons. The gates to the public will open at 8:00 am on Friday, July 17<sup>th</sup>. If there is a need to open the gates early for safety concerns then staff should be in place to handle this. All NNMF traffic on US 101 will be directed to traffic lanes on Cook's Valley Road and into the Cook's Valley Campground & County Line Ranch for processing.

### **Traffic Control on US 101 (see Map 1)**

Traffic control on US 101 in Piercy, CA in the vicinity of Cook's Valley Campground & County Line Ranch will consist of field personnel, the use of additional traffic control devices such as cones and signs, and a temporary extension of the southbound left turn lane approaching SR 271/ Cook's Valley Road.

### **Personnel**

- One person shall be placed at the intersection of US 101 and SR 271/Cook's Valley Road to direct traffic during the periods of heavy traffic. The largest concentration of traffic is expected on Friday afternoon and early evening.
- When traffic is heavy, the field personnel at the US 101 and SR 271/Cook's Valley Road intersection should ask for an additional person to assist them with traffic control at this intersection.
- Periodic monitoring of traffic should occur throughout the NNMF to see if additional personnel are needed at this intersection.
- All traffic personnel should wear a fluorescent orange vest, have a fluorescent flag, a whistle, and have a walkie talkie at all times.
- All traffic personnel should receive training on traffic safety
- Traffic personnel at this intersection should give priority to traffic movements so that traffic back-ups on US 101 are minimized in both directions.

### **Traffic Control**

- The US 101 southbound left turn pocket at SR 271/Cook's Valley Road shall be lengthened as directed by CHP, Sherriff's Department or CalTrans. This will allow for additional stacking of southbound vehicles turning left onto Cook's Valley Road.



### Cones

- Cones will be used to discourage on-street parking and keep traffic in the proper lanes.
- Cones should be placed alongside US 101 in the northbound and southbound directions approaching the intersection with SR 271/ Cook's Valley Road.
- Cones should be placed on northbound US 101 all the way to the intersection of SR 271/Cook's Valley Road. This will encourage motorists to turn properly at the intersection and not beforehand.
- All cones shall be reflective.

### Signs

- Changeable Message Signs (CMS) should be placed as noted on Map 1, as follows:
  - On US 101 approximately 1,000 feet north of the SR 271/Cook's Valley Road intersection for southbound traffic.
  - On US 101 approximately 1,000 feet south of the SR 271/ Cook's Valley Road intersection for northbound traffic.
  - Care should be taken so that all signs are placed in a manner that is visible to motorists and well in advance of any decision making points.
  - "No Parking" signs should be placed on US 101 north and south of the SR 271/ Cook's Valley Road intersection to alert US 101 traffic that parking is not allowed on shoulders or along roadways within Cook's Valley Campground & County Line Ranch.
  - "NNMF Special Event" signs shall be placed on US 101 for both northbound and southbound traffic.
  - All traffic signs shall be clean and legible and of good quality.
  - All traffic signs shall be reflective.

### Notes

- All traffic control shall be reviewed and monitored on a 24-hour basis by a qualified professional of Stop and Go Traffic Control.
- Any necessary adjustments shall be corrected immediately.
- Any modification requested by the CHP, Sherriff's Department or CalTrans shall be performed immediately.

- During placement and removal of all traffic devices, traffic control shall be done in accordance with the California MUTCD (Manual on Uniform Traffic Control Devices).

## **Traffic and Parking Control in Venue (see Map 2)**

### **Personnel**

On-site traffic control will allow traffic entering from 101 to move into the site and parking area without excessive delays to traffic on 101. Traffic control personnel will be assigned to effectively prohibit early arrivals from lining up along the highway the night/early morning before the event. Early arrivals will not be accommodated.

- There should be at least 8 field personnel dedicated to traffic and parking operations at any one time, indicated by the pink dots on Map 2.
- Personnel should be mobile and shift positions as needed (after the parking in GA-1 is fully loaded, then shift personnel to GA-2, and so on).
- Lead Personnel/Contacts
  - Derek Spence (Operations Manager) & Keith Bowman (Land Owner)
  - Encroachment - Wes Nally (Stop N Go Traffic) & Kelly Shultz (Cal Trans)
  - Support Leads – Shiloh (Traffic) & Sherie (Parking)
  - All personnel should have walkie talkies on them at all times (cell phone reception may not be reliable)

### **Location of primary and secondary entry/exit gates**

- The primary entrance to the NNMF is at Box Office.
- During the busiest arrival period (Friday afternoon and early evening) there should be multiple lanes approaching the Box Office to increase stacking area as well as to expedite the check-in process at the Box Office.
- Vehicles will be stopped at the Box Office to pick up their credentials and parking passes.
- Personnel assigned as "processing runners" will go to the cars with scanners to check people in.
- Vehicles will then be guided by flaggers to Parking in GA1, then GA2, GA3, etc.
- The primary exit is through GA-3 along the red dotted line and out.

## **Parking**

- Parking lots should be loaded from the rear of lot first, then forward towards the lot entrance.
- Parking lots should be loaded in order, starting with GA 1, then GA 2, etc. Once a lot is full, personnel should move to the next lot, and block off access to the full lot.
- RV & Car camping parking will require a special escort from the main entrance.
- Parking management should include the use of CMS Boards, cones, arrows, field personnel, printed parking passes, and flaggers.
- Parking enforcement should include the use of “No Parking” signs, enforced by warning the drivers when needed.
- No parking should be permitted on internal roadways or in any non-designated areas.
- All cars will have parking pass with a name & number so that PA announcements can be made for warning if needed.
- Towing of vehicles can be used if the vehicle is not moved in a timely manner.

## **Emergency Vehicle Access and Loading (see Map 3A & 3B)**

- The location and access points for emergency vehicles and loading are noted on Map 3.
- The red dotted line near the entrance will have 24 hour in/out access for loading, staffing, shuttles and emergency vehicles.

## **Off-Site Parking and Shuttles**

- Shuttle service will be offered from off-site parking lots by a licensed transportation company from North of Redway to the site to provide a safe means of transportation for the local community and to encourage out-of-town attendees to utilize local travel hospitality options. The 2015 locations will be at the Benbow Inn and the Best Western Humboldt House Inn in Garberville.
- Southbound shuttle buses transporting attendees will access the NNMF site at the SR 271/Cook’s Valley Road intersection and turnaround within the site near the Will Call Office.
- The shuttle buses will run continuously from:
  - 9:00 a.m. until 2:00 a.m. on Friday July 17
  - 9:00 a.m. until 2:00 a.m. on Saturday July 18
  - 9:00 a.m. until 12:00 a.m. (Midnight) on Sunday July 19

- 8:00 a.m. until 12:00 p.m. (Noon) on Monday July 20
- Information on off-site parking for hotel guests and locals should be announced using:
  - the official event website
  - e-mails sent to attendees and the media
  - Social media posts (Facebook, Twitter and/or others as appropriate)
  - Announcements on local radio stating "Off-site parking is available at the Benbow and Best Western Hotels."

#### **Re-Entry Policy**

- During the event, patrons will be allowed to leave the event only as necessary and only by vehicle.
- Patrons will be prohibited from leaving the premises as pedestrians, and this will be enforced by highway security staff and/or CHP.
- The General Store will have reasonable prices to discourage attendees from leaving the property for additional supplies.

#### **MONDAY JULY 20, 2015 (AFTER EVENT)**

The campground shall close no later than 12:00 p.m. (Noon) on Monday July 20. All traffic control elements in the campground as well as on US 101 should be removed by 2:00 p.m.

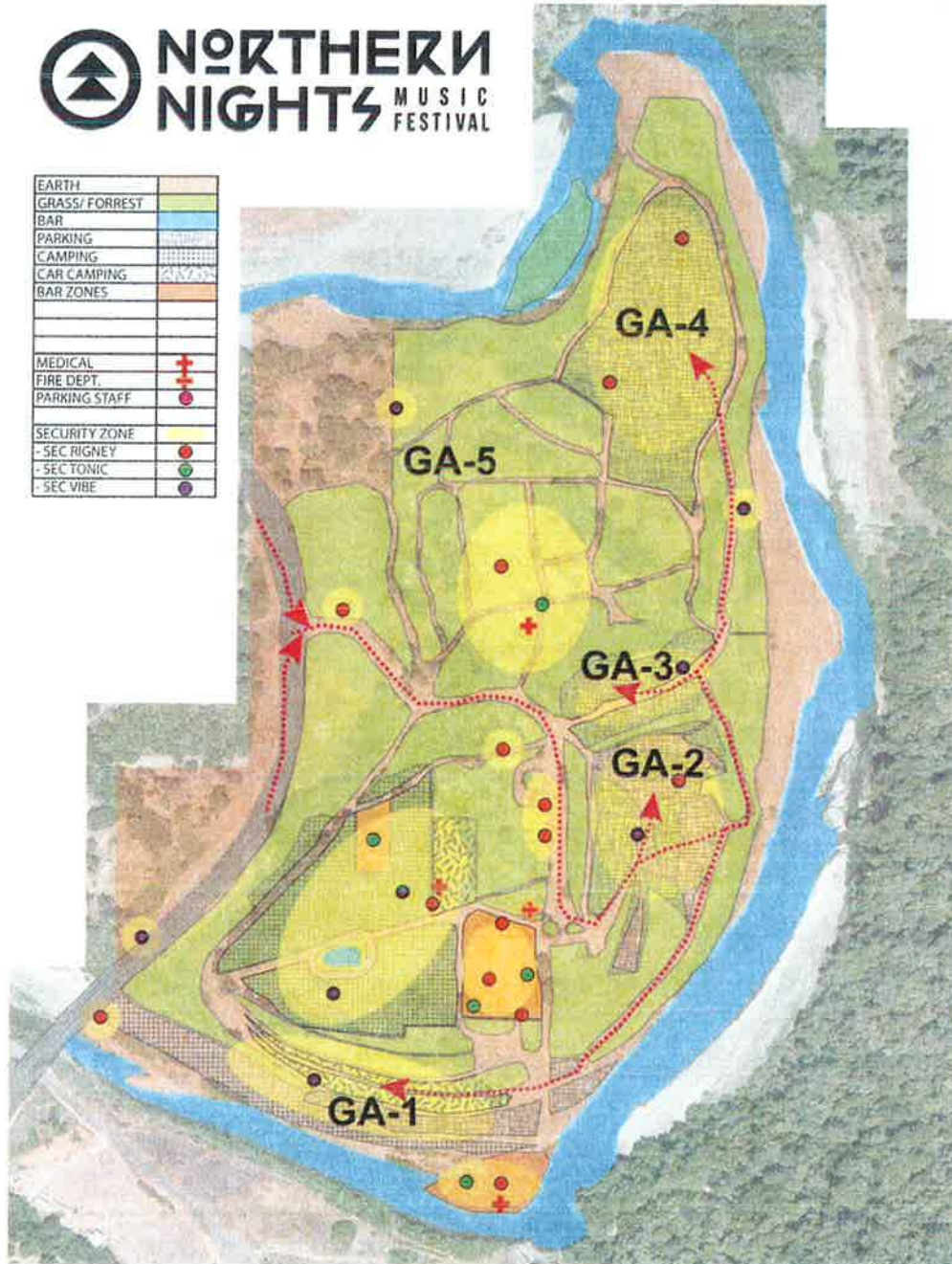
# MAP 1 – Traffic Control on US 101



## MAP 2 - Traffic /Parking Control in Venue



|                |   |
|----------------|---|
| EARTH          |   |
| GRASS/ FORREST |   |
| BAR            |   |
| PARKING        |   |
| CAMPING        |   |
| CAR CAMPING    |   |
| BAR ZONES      |   |
|                |   |
| MEDICAL        | + |
| FIRE DEPT.     | + |
| PARKING STAFF  | ● |
|                |   |
| SECURITY ZONE  |   |
| - SEC RIGNEY   | ● |
| - SEC TONIC    | ● |
| - SEC VIBE     | ● |



# MAP 3A - Emergency Vehicle Access and Loading – Mendocino – Cook’s Valley Campground



# MAP 3B - Emergency Vehicle Access and Loading – Humboldt – County Line Ranch





**Attachment 5**

**ADDENDUM TO EIR (SCH# 92-033035)**

**ADDENDUM TO THE ENVIRONMENTAL IMPACT REPORT**  
**PARKING, CAMPING, VENDING AND SILENT DISCO FOR**  
**2016 NORTHERN NIGHTS MUSIC FESTIVAL**  
**AND ONE-DAY CONCERT EVENT**  
**(formerly Reggae Rising, formerly Reggae on the River)**

**SCH NO. 92-033035**

**APN: 033-271-007**

**DRAFT**

**Prepared By**  
**Humboldt County Planning & Building Department – Planning Division**  
**3015 H Street, Eureka, CA 95501**

**March 2016**

## Background

**Modified Project Description and Project History** – The current project involves a modification to a previously approved Conditional Use Permit (CUP-04-38MMM) to extend the entitlements one additional year to December 31, 2016. CUP-04-38MMM permits an annual music festival to be held over the first weekend of August with attendance levels between 10,500 and 16,900 persons, in addition to a one-day event held on the last weekend in August with a maximum attendance level of 5,000 persons on APNs 033-271-05, -07, & -09. The existing permit was set to expire on December 31, 2015 and a timely application was made for modifying the permit to extend the validation period one year.

The modification is required to exercise certain uses of CUP-04-38MMM. It will reduce the scope of event activities held in Humboldt County but still allow for auxiliary parking, camping, vending and silent disco on APN 033-271-007 during Northern Nights Music Festival (NNMF) located in Mendocino County on July 14 to July 17, 2016. Parking and camping will accommodate approximately 2,000 cars and 2,000 people which is identical to the 2015 festival. The silent disco will not have any amplified music and no amplified music of any kind will be permitted in Humboldt County during the NNMF. In addition, the modification will permit a one-day concert event to be held on July 2<sup>nd</sup> or July 3<sup>rd</sup>, 2016. Alternately, the one-day event could be held the last weekend on August, as previously authorized. The one-day concert event will last from 5pm until 11:59 pm and will accommodate up to 2,000 attendees. Attendees will be allowed to arrive as early as 12 pm the day of the event and camp overnight at Cook's Valley Campground in Mendocino County.

This addendum to the original and supplemental Environmental Impact Reports (EIR) (SCH 92-033-035) addresses the potential effects of the following:

1. Proposed one-day event occurring at an earlier date than was authorized for previously permitted events. And;
2. Entry to the NNMF event occurring one day earlier than which was authorized for previously permitted events. And;
3. Proposed silent disco and food and craft vendors in Humboldt County.

**Purpose** - Section 15164 of the California Environmental Quality Act (CEQA) provides that the lead agency shall prepare an addendum to a previously adopted Environmental Impact Report (EIR) if some changes or additions are necessary but none of the conditions described in Section 15162 calling for a subsequent EIR have occurred. Section 15162 states that when an EIR has been adopted for a project, no subsequent EIR shall be prepared for that project unless the lead agency determines, on the basis of substantial evidence in the light of the whole record, one or more of the following:

1. *Substantial changes are proposed in the project which require major revisions of the previous EIR due to the involvement of new significant environmental effects or a substantial increase in the severity of previously identified significant effects;*
2. *Substantial changes occur with respect to the circumstances under which the project is undertaken which will require major revisions of the previous EIR due to the involvement of new significant environmental effects or a substantial increase in the severity of previously identified significant effects; or*
3. *New information of substantial importance, which was not known and could not have been known with the exercise of reasonable diligence at the time the previous EIR was certified as complete, shows any of the following: A) the project will have one or more significant effects not discussed in the previous EIR; B) significant effect previously examined will be*

*substantially more severe than shown in the previous EIR; C) mitigation measures or alternatives previously found not to be feasible would in fact be feasible and would substantially reduce one or more significant effects of the project, but the project proponents decline to adopt the mitigation measure or alternative; or D) mitigation measures or alternatives which are considerably different from those analyzed in the previous EIR would substantially reduce one or more significant effects on the environment, but the project proponents decline to adopt the mitigation measure or alternative.*

- No substantial changes are proposed which would require major revisions to the previously approved EIR. None of the proposed changes to the project will increase the severity of previously identified significant effects. In fact, impacts from the project appear to have been lessened due to the reduced scope of the project.
- No substantial changes to the project will result in a new environmental effect. Any potential impacts of significance have been mitigated through the project design currently proposed.
- All feasible mitigation measures have been incorporated into the project design. No additional mitigation is required. Since the project has been modified to effectively mitigate for all identified potential impacts, an addendum remains appropriate.

The purpose of this Addendum is to provide an analysis of the modification to the approved Conditional Use Permit as it was not discussed under its previously adopted EIR.

### **Summary of Significant Project Effects and Mitigation Recommended**

The change in the scope of the project does not generate any significant effects that require mitigation.

### **Other CEQA Considerations**

Staff suggests no further changes to the project as currently proposed.

### **EXPLANATION OF DECISION NOT TO PREPARE A SUPPLEMENTAL ENVIRONMENTAL IMPACT REPORT DECLARATION**

The proposed project will contain either the same or reduced potential impacts and mitigation measures as the originally approved project under CUP-04-38MMM (SCH 92-033035) due to the reduction in scope as discussed in the Modified Project Description. However, the change in the date of the one-day concert, the earlier arrival date to the NNMF, and addition of silent disco and food and craft vendors in Humboldt County, necessitates the preparation of an addendum to the EIR and an explanation of the decision not to prepare a Supplemental Environmental Impact Report.

#### Change of Date of One-Day Event

According to the original Environmental Impact Report (EIR) prepared for the project (1993), one of the alternatives that was evaluated was to hold the event during a different date at the current site, which, at the time, was French's Camp site (APN 033-271-005). The evaluation of this alternative concluded that, "The temporary and minimal environmental impacts of the proposed 2-day concert event would likely be similar if the event were held earlier or later in the summer season. Most environmental impacts would be the same" (EIR pg. 41). Although this was included in the EIR for the French's camp site location, French's camp is biologically similar and would have many of the same impacts as the current location, County Line Ranch (APN 033-271-007), because it is located immediately to the north. County Line Ranch was the project location for the Supplemental EIR prepared in 2006 (2006 FSEIR) and the Supplemental EIR

prepared in 2008 (2008 FSEIR), which evaluated effects not included in the 1993 EIR. The Addendum that was prepared for the 2014 NNMF event evaluated the effects of the change in event date on the breeding season for Marbled murrelets and Spotted owls, and concluded that no new impacts would result because the breeding season spanned from late-March until late-September (Addendum 2014). Therefore, the same can be concluded from holding the event on the first Saturday or Sunday in July (July 2<sup>nd</sup> or 3<sup>rd</sup>) rather than the last Saturday (August 29).

The change in the one-day event date from the last Saturday in August (August 29) to the first weekend in July (July 2<sup>nd</sup> or 3<sup>rd</sup>) must, however, be evaluated for its potential impacts to demands on public services. Historically, the project (CUP-04-38MMM) allowed an annual music festival to be held during the first weekend of August and a one-day concert event to be held during the last weekend of August. Considering those dates, there would be a four-week gap between events. Currently, the events are proposed to be held over the third weekend in July and the first weekend in July. There is a two-week gap between these dates which is two weeks less than previously evaluated. The NNMF festival is largely confined to Mendocino County, and therefore primarily relies on Mendocino County public services. The one-day event will be located in Humboldt County and will primarily rely on Humboldt County public services. Using public services from two different counties reduces the demand of public services on one county. The first weekend in July is considered a holiday weekend with the Fourth of July falling on Monday. The public service agencies will be fully staffed and support moving the date of the one-day concert to the first weekend of July. No new impacts to demand on public services is expected to result.

#### Early Entry to NNMF Event

According to the 2006 FSEIR, the event was evaluated for early entry on Thursday before the event and allowed camping. The times and days of music were not proposed to change. NNMF proposes amplified music in Mendocino County on Thursday from 6 pm to 10 pm. The applicants anticipate approximately 25% of the attendees to arrive on Thursday. Because the gates for the 2016 event will open a day earlier, potential impacts to biological resources and water quality must be evaluated. The 2006 FSEIR concluded that allowing early entry would increase the potential for swimming and therefore could result in negative impacts to biological resources or water quality as a result from swimming in the river. However, the number of attendees for the 2016 event is capped at 6,000 people. The applicants anticipate approximately 25% or 1,500 attendees on Thursday. This number is well below the number of attendees evaluated in the 2006 FSEIR which authorized up to 14,400 attendees (including ticket holders, staff and vendors). By allowing early arrivals on Thursday, traffic congestion and illegal camping and impacts to nearby properties will be alleviated. Additionally, the County Line Ranch property owners will not provide access to attendees for recreational activities in the river. Because the attendance level will be significantly less and access to the river will not be provided, no new impacts to biological resources or water quality due to patrons swimming in the river are expected to result.

#### Food and Craft Vending and Silent Disco

Although previous NNMF events have only had food and craft vendors in Mendocino County, the Applicants propose to include vending in Humboldt County in 2016. The project was previously evaluated for food and craft vending (FSEIR 2006 and 2008). Siting select vendors in Humboldt County makes it more convenient for attendees to purchase food and crafts. All vendors have to comply with existing mitigation measures. No impacts are expected to occur due to select vendors locating in Humboldt County.

The previous projects have not evaluated the inclusion of a silent disco in Humboldt County. The silent disco will begin after the amplified music in Mendocino County ends for the night. The

silent disco is where attendees listen to music through headphones and offers attendees a place to go to wind-down after the amplified concert ends. It is a deterrent to renegade sound systems that tend to begin in the camping areas after the amplified music ends for the night. No impacts are expected to occur due to the silent disco being located in Humboldt County.

In conclusion, in every impact category analyzed in this review, the projected consequences of the current project proposal are either the same or less than significantly increased than the initial project for which the EIR was adopted. Based upon this review, the following findings are supported:

## **FINDINGS**

1. For the modified project there are no substantial changes proposed in the project which require major revisions of the previous EIR due to the involvement of new significant environmental effects or a substantial increase in the severity of previously identified significant effects.
2. For the modified project no substantial changes have occurred with respect to the circumstances under which the project is undertaken which will require major revisions of the previous EIR due to the involvement of new significant environmental effects or a substantial increase in the severity of previously identified significant effects.
3. For the modified project there has been no new information of substantial importance, which was not known and could not have been known with the exercise of reasonable diligence at the time the previous EIR was adopted as complete. Furthermore, it is concluded that: the current project will not have one or more significant effects not discussed in the previous EIR. Also, significant effects previously examined will not be substantially more severe than shown in the previous EIR. There are no mitigation measures or alternatives previously found not to be feasible that would in fact be feasible and would substantially reduce one or more significant effects of the project. Finally, there are no mitigation measures or alternatives identified in this analysis which are considerably different from those analyzed in the previous EIR, and which would substantially reduce one or more significant effects on the environment.

## **CONCLUSION**

Based on these findings it is concluded that an Addendum to the adopted Environmental Impact Report is appropriate to address the requirements under CEQA for the current project proposal. All of the findings and mitigation requirements of the EIR are applicable to the current project proposal.

**Attachment 6**

**ENVIRONMENTAL IMPACT REPORT AND SUPPLEMENTAL EIR (SCH# 92-033035)**

**Note: This attachment is located on CDs provided to the Planning Commissioners**

## ATTACHMENT 7

### REFERRAL AGENCY COMMENTS AND RECOMMENDATIONS

The project was referred to the following referral agencies for review and comment. Those agencies that provided written comments are checked off.

| <b>Referral Agency</b>                                     | <b>Response</b> | <b>Recommendation</b> | <b>Attached</b> | <b>On File</b> |
|--|-----------------|-----------------------|-----------------|----------------|
| Building Inspection Division                               | ✓               | Approval              |                 | ✓              |
| HC Department of Public Works – Land Use Division          | ✓               | Conditional Approval  |                 | ✓              |
| Humboldt County Division of Environmental Health           | ✓               | Conditional Approval  |                 | ✓              |
| Piercy Fire Protection District                            |                 | No response           |                 |                |
| California Highway Patrol                                  |                 | No response           |                 |                |
| CA Department of Fish & Wildlife                           | ✓               | Comments              |                 | ✓              |
| CA Department of Forestry & Fire Protection                |                 | No response           |                 |                |
| CA Department of Transportation - District #1              |                 | No response           |                 |                |
| US Army Corps of Engineers                                 |                 | No response           |                 |                |
| National Marine Fisheries Service                          |                 | No response           |                 |                |
| Regional Water Quality Control Board - North Coast         |                 | No response           |                 |                |
| Mendocino County - Planning & Building Services Department | ✓               | Approval              |                 | ✓              |



**ATTACHMENT 8**

**CUP-04-38MMM (One Day Event) CONDITIONS OF APPROVAL  
AND  
MOST RECENTLY APPROVED REGGAE RISING CONDITIONS OF APPROVAL**

**ATTACHMENT 1**  
**REVISED\* CONDITIONS OF APPROVAL FOR THE 2009 EVENT**

APPROVAL OF THE 2009 EVENT IS CONDITIONED ON THE FOLLOWING TERMS AND REQUIREMENTS:

**A. Conditions of Approval**

1. The project shall be developed and conducted in accordance with the *Project Description and Plan of Operation contained in the Final EIR*, as amended from time to time subject to the review and approval of the Planning Director.
2. The applicant shall submit a letter from the Division of Environmental Health at least one month prior to the scheduled beginning of the event indicating they have no objections to the event taking place. All of the requirements of the DEH noted in their June 4, 2009 memo shall be met to the satisfaction of that agency.\*
3. The applicant shall submit a letter from the Regional Water Quality Control Board (RWQCB) at least one month prior to the scheduled beginning of the event indicating they have no objections to the event taking place.
4. The applicant shall submit a letter from CalTrans at least one month prior to the scheduled beginning of the event indicating they have no objections to the event taking place.
5. The applicant shall submit a letter from Cal Fire at least one month prior to the scheduled beginning of the event indicating they have no objections to the event taking place. All of the requirements of CalFire noted in their April 2, 2009 memo shall be met to the satisfaction of that agency.\*
6. At least one month prior to the event, the applicant shall submit a letter from the California Highway Patrol stating they have no objections to the event taking place. The CHP (for no more than two traffic control officers) and the California Department of Transportation (CalTrans) (for traffic control personnel) shall be reimbursed by the applicant for controlling traffic in Willits the Monday morning after the event to mitigate traffic impacts from persons leaving the event.
7. Plans to address the concerns of the Sheriff regarding illegal drug sales shall be implemented each year to the satisfaction of the Sheriff. A letter from both the Humboldt County Sheriff and the Mendocino County Sheriff stating they have no objections to the event taking place shall be submitted to the Planning Division no later than one month prior to the event.
8. The applicant shall enter into an agreement with the Southern Humboldt Community Healthcare District to reimburse the District for unrecoverable expenses due to visits from persons attending the music event. The Planning Division shall refer the annual report to the District for comments considered each year by the Planning Commission.
9. Within 120 days after the use permit expires or the applicant decides the event will no longer be held at the site (whichever comes first), the property shall be restored to its original condition. This includes removing all permanent structures for the event, and grading to restore the original contours of the property. Upon request by the applicant, the time period for restoring the site may be extended or the requirements waived by the Planning Director based on evidence further renewal of the permit is being actively pursued, or evidence restoration of the site is not necessary to encourage primary uses in the AL Plan designation.

\*Modified by the Planning Commission on June 4, 2009

10. The project is subject to the following annual reporting and review requirements:
  - a. By December 31st, 2009, the applicant shall prepare and submit fifteen (15) copies of a post-event report discussing that year's concert. Verification of attendance levels, including a count or estimate of unauthorized attendance at the event, and any "spill-over" incidents (i.e., illegal camping on private properties or alongside roadways) shall be discussed (also see 9.d.). The report should focus on assessing the effectiveness of the plan of operation, mitigation measures, and monitoring program (also see 9.f.). The report shall also contain written correspondence from agencies participating in monitoring and/or affected by the concert event (i.e., Planning Division, Division of Environmental Health, Sheriff's Office, California Highway Patrol, California Department of Parks and Recreation and California Department of Transportation). Responses to all concerns and issues identified in the report shall be provided, and appropriate measures to be undertaken at the following year's event identified as needed. The report shall also include a breakdown of how the event benefited local non-profit organizations.
  - b. Within 120 days of its receipt, the Planning Commission shall review the post-event report. The review shall be presented as an informational item on the agenda with no formal action required insofar as the issues of concern identified in the post-event report are being accommodated and responded to in a pro-active manner. Pursuant to the County Code, and as deemed appropriate for the protection of public health and safety, the Planning Commission may initiate a public hearing to further modify or revoke the Conditional Use Permit for cause.
  - c. To address area concerns that may arise, the applicant's shall hold a minimum of one (1) community meeting in the vicinity of the site within 90 days of the event. This meeting may be waived at the discretion of the Planning Director if no significant community issues have been reported.
  - d. The annual report shall include a third-party independent assessment of the total daily attendance.
  - e. ~~The annual report shall also include a traffic report by a licensed engineer documenting traffic volume, intensity, and deficiencies in the traffic management plan.~~
  - f. The annual report shall include sufficient data to assess the effectiveness of all required mitigation measures in relation to the total daily attendance, traffic volume and intensity.
11. The applicant shall perform water quality testing before, during and after the event to evaluate conformance to the 1999 EPA TMDL Study for the South Fork of the Eel River. Should testing demonstrate issues with compliance, additional mitigation measures shall be implemented, including possible restrictions on swimming in the River, in order to reduce water quality impacts to the river consistent with the 1999 EPA TMDL Study. At least two months before the event each year, the applicant shall submit a water quality monitoring plan subject to the review and approval of the Director. The plan shall include testing before, during and after the event for coliform bacteria, pH, and urea, and shall identify the proposed methodology, and the date when the test results will be submitted for review by the Director. A \$55 deposit will be charged for review and approval of this plan, and the applicant is responsible for reimbursing the County for the full cost of review of the plan up to a maximum of \$165. The water quality testing plan and the report submitted for the 2009 event shall incorporate the recommendations of the 2008 report by Curtis Miller included in the annual report for the 2008 event. In addition, the water quality testing plan and the report submitted for the 2009 event shall assess the water quality impacts of sunscreen and suntan lotion introduced into the South Fork of the Eel River by attendees, and make recommendations on how to mitigate these impacts if they are found to be significant.\*
12. The applicants shall ensure that fire lanes are kept clear to allow for the passage of emergency vehicles throughout the event.
13. The applicant shall annually provide letters from the Army Corps of Engineers and the California Department of Fish and Game stating permission has been given to place a temporary bridge across the Eel River.

\*Modified by the Planning Commission on June 4, 2009

14. The total attendance shall be determined by the Planning Commission on an annual basis after review and approval of the annual report.
15. The attendance shall range from a low of 8,500 ticket sales plus 2,000 personnel to a maximum of 14,500 ticket sales plus 2,400 personnel. (Attendance approved for the 2008 event is a maximum attendance of 14,400 total persons including all attendees: ticket holders, performers, staff and volunteers.) At least one month prior to the event, the applicant shall submit a plan for verification of attendance levels, subject to the review and approval of the Director. A \$55 deposit will be charged for review and approval of this plan, and the applicant is responsible for reimbursing the County for the full cost of review of the plan up to a maximum of \$165.
16. Verification of attendance levels at each year's event shall be included in each year's annual report. A consultant shall be retained to provide the verification based on accepted methodologies, such as an aerial survey, approved by the Planning Director. A numbered wristband system of admitting people into the event and turnstiles or similar method of counting individuals entering and leaving the performance area shall be used each year to facilitate verification of attendance levels.
17. The existing plan of operation requiring shuttles to run until at least ½ hour after the show ends each night. The Planning Division is directed to remind the producers of this requirement each year.

**B. Information Notes:**

1. All storage, handling, and disposal of hazardous materials, solid waste, and recyclable materials must conform to applicable laws and regulations. Contact the Humboldt County Department of Public Health - Division of Environmental for additional information.
2. The project involves site access and occupation along and across a public right-of-way and a resource watercourse subject to regulatory authority by various state and federal agencies including: the California Department of Transportation (state highways), California Department of Fish and Game (streambed alterations), State Lands Commission (fee-title over submerged lands), and the US Army Corps of Engineers (grading and filling in "waters of the United States"). The applicant is responsible for obtaining and securing all required permits and authorizations from these agencies prior to conducting the event.
3. The project site is not located near or within an area where known cultural resources have been located. As there exists the possibility that undiscovered cultural resources may be encountered during construction activities, the following mitigation measures are required under state and federal law:
  - a. If cultural resources are encountered, all work must cease and a qualified cultural resources specialist contacted to analyze the significance of the find and formulate further mitigation (e.g., project relocation, excavation plan, protective cover).
  - b. Pursuant to California Health and Safety Code §7050.5, if human remains are encountered, all work must cease and the County Coroner contacted.
4. Pursuant to Public Resources Code §21089, the applicant is subject to cost reimbursement to the lead agency for expenses associated with the preparation of environmental review documentation, mitigation assessment, and monitoring program reports.
5. This permit shall expire on August 15, 2015, after all permitted events have been undertaken and post-event site work completed.

**ATTACHMENT 1**  
**REVISED\* CONDITIONS OF APPROVAL**

APPROVAL OF THE CONDITIONAL USE PERMIT MODIFICATION FOR THE ADDITIONAL ONE-DAY EVENTS IS CONDITIONED ON THE FOLLOWING TERMS AND REQUIREMENTS (the conditions of approval for the annual Reggae music events held each year during the first weekend in August are not addressed, and are not modified in this staff report):

**A. Conditions of Approval**

1. The project shall be developed and conducted in accordance with the *Plan of Operation submitted February 13, 2009*, as amended from time to time subject to the review and approval of the Planning Director.
2. The applicant shall annually submit a letter from DEH at least two months prior to the scheduled beginning of the event held in each year indicating they have no objections to the additional one-day event taking place. All of the requirements of the DEH noted in their June 4, 2009 memo shall be met to the satisfaction of that agency.\*
3. The applicant shall annually submit a letter from CalTrans at least two months prior to the scheduled beginning of the event held in each year indicating they have no objections to the additional one-day event taking place.
4. Verification of attendance levels at each year's event shall be included in each year's annual report. A consultant shall be retained to provide the verification based on accepted methodologies, such as an aerial survey, approved by the Planning Director. A numbered wristband system of admitting people into the event and turnstiles or similar method of counting individuals entering and leaving the performance area shall be used each year to facilitate verification of attendance levels.
5. The applicant shall submit a water quality testing plan subject to the review and approval of the Planning Director that describes how the applicants will conduct water quality testing for temperature, coliform bacteria, pH and urea (ammonia). The applicants are required to perform water quality testing as described by the approved water quality testing plan. The water quality testing plan and the report submitted for the 2009 event shall incorporate the recommendations of the 2008 report by Curtis Miller included in the annual report for the 2008 event. In addition, the water quality testing plan and the report submitted for the 2009 event shall assess the water quality impacts of sunscreen and suntan lotion introduced into the South Fork of the Eel River by attendees, and make recommendations on how to mitigate these impacts if they are found to be significant.\*
6. Within 120 days after the use permit expires or lapses, the property shall be restored to its original condition. This includes removing all permanent structures for the event, and grading to restore the original contours of the property. Upon request by the applicant and property owners, the time period for restoring the site may be extended or the requirements waived by the Planning Director based on evidence further renewal of the permit is being actively pursued, or evidence restoration of the site is not necessary to encourage primary uses in the Agricultural Lands and Timber Plan designation.
7. The project is subject to the following annual reporting and review requirements:
  - a. By December 31st of each year, the applicant shall prepare and submit fifteen (15) copies of a post-event report discussing that year's concert. This report may be combined with the post-event report for the annual Reggae music events held each year during the first weekend in August. The report should focus on assessing the effectiveness of the plan of operation, mitigation measures, and monitoring program. The report shall also contain written correspondence from agencies participating in monitoring and/or affected by the concert event (i.e., Planning Division, Division of Environmental Health, Sheriff's Office, California Highway Patrol, California Department of Parks and Recreation and California Department of Transportation). Responses to all concerns and issues identified in the report shall be provided, and appropriate measures to be undertaken at the following year's

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\* Revised by Planning Commission on June 4, 2009.

event identified as needed. The report shall also include a breakdown of how the event benefited local non-profit organizations.\*

- b. Within 120 days of its receipt, the Planning Commission shall review the post-event report. The review shall be presented as an informational item on the agenda with no formal action required insofar as the issues of concern identified in the post-event report are being accommodated and responded to in a pro-active manner. Pursuant to the County Code, and as deemed appropriate for the protection of public health and safety, the Planning Commission may initiate a public hearing to further modify or revoke the Conditional Use Permit modification for cause.
  - c. The annual report shall include a third-party independent assessment of the total daily attendance.
  - d. The annual report shall also include a traffic report documenting traffic volume, intensity, and deficiencies in the traffic management plan.
  - e. The annual report shall include sufficient data to assess the effectiveness of all required mitigation measures in relation to the total daily attendance, traffic volume and intensity, and potential water quality impacts.
8. The applicant shall annually submit a letter from ~~CDF~~ CalFire at least two months prior to the scheduled beginning of the first event held in each year indicating they have no objections to the event taking place. All of the requirements of CalFire noted in their April 2, 2009 memo shall be met to the satisfaction of that agency.\*
  9. The applicants shall ensure that fire lanes are kept clear to allow for the passage of emergency vehicles throughout the event.
  10. The applicant shall annually provide letters from the Army Corps of Engineers and the California Department of Fish and Game stating permission has been given to place a temporary bridge across the Eel River.
  11. All cars must be parked more than 100 feet from the daily high water flow during the event, and any car with visible leaking fluids shall be prohibited from parking on the river bars.
  12. All disturbed areas shall be stabilized and reseeded by October 15th of each year to prevent excess soil erosion.
  13. Best Management Practices shall be used in all parking areas to minimize potential impacts to the Eel River.
  14. The modification is approved for a one event on the last weekend of August 2009 and in each subsequent year to the year 2015. The total attendance at each the event shall be no more than 5,000 persons, including all staff, volunteers, performers, etc.

**B. Information Notes:**

1. All storage, handling, and disposal of hazardous materials, solid waste, and recyclable materials must conform to applicable laws and regulations. Contact the Humboldt County Department of Public Health - Division of Environmental for additional information.
2. The project involves site access and occupation along and across a public right-of-way and a resource watercourse subject to regulatory authority by various state and federal agencies including: the California Department of Transportation (state highways), California Department of Fish and Game (streambed alterations), State Lands Commission (fee-title over submerged lands), and the US Army Corps of Engineers (grading and filling in "waters of the United States"). The applicant is responsible for obtaining and securing all required permits and authorizations from these agencies prior to conducting the event.
3. The project site is not located near or within an area where known cultural resources have been located. As there exists the possibility that undiscovered cultural resources may be encountered

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\* Revised by Planning Commission on June 4, 2009.

during construction activities, the following mitigation measures are required under state and federal law:

- a. If cultural resources are encountered, all work must cease and a qualified cultural resources specialist contacted to analyze the significance of the find and formulate further mitigation (e.g., project relocation, excavation plan, protective cover).
  - b. Pursuant to California Health and Safety Code §7050.5, if human remains are encountered, all work must cease and the County Coroner contacted.
- 4 Pursuant to Public Resources Code §21089, the applicant is subject to cost reimbursement to the lead agency for expenses associated with the preparation of environmental review documentation, mitigation assessment, and monitoring program reports.
- 5 This permit modification approval shall expire on December 31, 2015.