

INFORMATION HANDOUT

For Contract No. 01-4306044

At 01-HUM-254-0.8/43.1

Identified by
Project ID 0100000186

PERMITS

California Department of Fish and Wildlife, Northern Region

Streambed Alteration Agreement
Notification #1600-2016-0124-R1
Dated June 20, 2016

WATER QUALITY

North Coast Water Quality Control Board

WDID #1B16246RHUM

AGREEMENTS

Pacific Gas and Electric Company

Notice to Owner #01-2132
Owners File: PM31081561

AT&T

Notice to Owner #01-2133
Owners File: A00E7FG

Frontier Communications

Notice to Owner #01-2134
Owners File: N/A

MATERIALS INFORMATION

Non-Potable Water Availability

Fortner Excavation
Laytonville, California

Asbestos-Containing Materials and Lead-Containing Paint Survey

Geocon Consultants, Inc.
Geocon Project #S9300-06-141

01-430604
01-HUM-254-0.8/43.1
Project ID 0100000186

California Department of Fish and Wildlife

Notification #1600-2016-0124-R1

Ohman, Elk, Bridge, and Bear Creeks, tributaries to the South Fork Eel River

Contact Information:

Gordon Leppig

Senior Environmental Scientist Supervisor

619 Second Street

Eureka, CA 95501

JoAnn Loehr

Senior Environmental Scientist Specialist

(707) 441-2076

CALIFORNIA DEPARTMENT OF FISH AND WILDLIFE
REGION 1 - NORTHERN
619 SECOND STREET
EUREKA, CALIFORNIA, 95501



STREAMBED ALTERATION AGREEMENT

NOTIFICATION No. 1600-2016-0124-R1

Ohman, Elk, Bridge, and Bear Creeks, tributaries to the South Fork Eel River

CALIFORNIA DEPARTMENT OF TRANSPORTATION

Avenue of the Giants Four Bridges, SOUTH BRANCH EEL RIVER

WATERSHED

EA 01-43060, S.R. 254 PMs 0.88, 10.43, 10.80, AND 43.02; HUMBOLDT COUNTY

This Streambed Alteration Agreement (Agreement) is entered into between the California Department of Fish and Wildlife (CDFW) and the California Department of Transportation (Caltrans) (Permittee) as represented by Mr. Troy Arseneau.

RECITALS

WHEREAS, pursuant to Fish and Game Code (FGC) Section 1602, Permittee notified CDFW on March 24, 2016, that Permittee intends to complete the Project described herein.

WHEREAS, pursuant to FGC Section 1603, CDFW has determined that the Project could substantially adversely affect existing fish or wildlife resources and has included measures in the Agreement necessary to protect those resources.

WHEREAS, Permittee has reviewed the Agreement and accepts its terms and conditions, including the measures to protect fish and wildlife resources.

NOW THEREFORE, Permittee agrees to complete the Project in accordance with the Agreement.

PROJECT LOCATION

The Project is located near Myers Flat, on Ohman, Elk, Bridge, and Bear Creeks, tributaries to the South Fork Eel River; in the County of Humboldt; State of California; in various township, range and sections, Mt. Diablo Base and Meridian; in the Miranda, Myers Flat, and Redcrest U.S. Geological Survey 7.5-minute quadrangles.

This Agreement covers the four locations in the South Fork Eel River Watershed: located on State Route (SR) 254 near Myers Flat, as follows:

<u>Location #</u>	<u>County-Route PM</u>	<u>Bridge Name</u>	<u>Bridge Number</u>	<u>USGS Quadrangle</u>
1	HUM-254-0.88	Ohman Creek	4-7	Miranda
2	HUM-254-10.43	Elk Creek	4-8	Myers Flat
3	HUM-254-10.80	Bridge Creek	4-9	Myers Flat
4	HUM-254-43.02	Bear Creek	4-12	Redcrest

PROJECT DESCRIPTION

The purpose of this project is to upgrade bridge railings on four existing highway bridges. The proposed work will include upgrading bridge railings, abutment widening at the Ohman Creek Bridge only, installation of guard rail and crash cushions, and repaving the existing bridge approaches (Table 1).

Table 1. WORK DESCRIPTIONS FOR SITES IN SOUTH FORK EEL RIVER WATERSHED

Project Location #	County-Route-PM	Bridge Name	Primary Work
1	HUM-254-0.88	Ohman Creek	Abutment widening; upgrade bridge railings; remove and replace bridge deck; install crash cushions. No in-water work proposed; no dewatering needed.
2	HUM-254-10.43	Elk Creek	Upgrade bridge railings; remove and replace bridge deck; install crash cushions. No in-water work proposed; no dewatering needed.
3	HUM-254-10.80	Bridge Creek	Upgrade bridge railings; remove and replace bridge deck; install crash cushions. No in-water work proposed; no dewatering needed.
4	HUM-254-43.02	Bear Creek	Upgrade bridge railings; remove and replace bridge deck; install crash cushions. No in-water work proposed; no dewatering needed.

PROJECT IMPACTS

Existing fish or wildlife resources the Project could substantially adversely affect include: **California Chinook salmon (*Oncorhynchus tshawytscha*), northern California steelhead (*O. mykiss irideus*), western pond turtle (*Emys marmorata*), nesting or migrating riparian-dependent bird species; amphibians, reptiles, aquatic invertebrates, mammals, and other aquatic and riparian species.**

The adverse effects the Project could have on the fish or wildlife resources identified above include:

- direct and/or indirect mortality of fish, amphibians and other aquatic species;
- injury to downstream fish and benthic invertebrates and spawning and/or rearing habitats through sediment transport and deposition and/or spills of deleterious materials;
- changes in channel form and contour of bed, bank, or channel;
- temporary increase of sediment and turbidity;
- temporary loss of riparian habitat;
- potential mortality of nesting birds, eggs or young through vegetation removal and construction disturbance; and
- colonization by non-native and/or invasive plants and animals.

MEASURES TO PROTECT FISH AND WILDLIFE RESOURCES

1. Administrative Measures

Permittee shall meet each administrative requirement described below.

- 1.1 Documentation at Project Site. Permittee shall make the Agreement, any extensions and amendments to the Agreement, and all related notification materials, readily available at the Project site at all times and shall be presented to CDFW personnel, or personnel from another state, federal, or local agency upon request.
- 1.2 Providing Agreement to Persons at Project Site. Permittee shall provide copies of the Agreement and any extensions and amendments to the Agreement to all persons in responsible positions who will be working on the Project at the Project site on behalf of Permittee, including but not limited to contractors, subcontractors, inspectors, and monitors.
- 1.3 Notification of Conflicting Provisions. Permittee shall notify CDFW if Permittee determines or learns that a provision in the Agreement might conflict with a provision imposed on the Project by another local, state, or federal agency. In that event, CDFW shall contact Permittee to resolve any conflict.
- 1.4 Project Site Entry. Permittee agrees that CDFW personnel may enter the Project site at any time to verify compliance with the Agreement.

2. Avoidance and Minimization Measures

To avoid or minimize adverse impacts to fish and other aquatic species, Permittee shall implement each measure listed below.

- 2.1 Except where otherwise stipulated in this Agreement, all work shall be in accordance with Permittee's notification, including all maps, plans, photographs,

drawings, and all other supporting documents submitted as part of the notification and received as of March 24, 2016.

- 2.2 The Permittee shall instruct all persons who will be completing any ground disturbing activity at the work site to comply with the conditions set forth in this Agreement, and shall inspect each work site before, during, and after completion of any ground-disturbing activity.
- 2.3 If water is present within the work area, Permittee shall perform pre-construction amphibian surveys immediately prior to initiating work activities. Native amphibian and wildlife species found within the work area shall be relocated to a suitable habitat area outside of the construction limits. Suitable exclusion measures shall be in place prior to construction to minimize injury or mortality to wildlife.

TIMING

- 2.4 All work within the bed, bank or channel shall be confined to the period June 15 to October 15 of any year in which this Agreement is valid and the stream is dry or at minimum flow, in accordance with other provisions in this Agreement.
- 2.5 If weather conditions permit, the Permittee may perform work outside of the above referenced work window, i.e., June 1- June 15 and October 15 - November 15, provided compliance with all of the following:
 - a. Prior to any work at a site, the Permittee shall stock-pile erosion control materials at the site. All bare mineral soil exposed in conjunction with crossing removal or construction shall be treated for erosion immediately upon completion of work on the crossing, and prior to the onset of precipitation capable of generating runoff.
 - b. Permittee shall isolate all hydrologically-connected road segments concurrent with work;
 - c. The Permittee shall complete any unfinished encroachment work, including erosion control measures, within 24 hours of CDFW directing the Permittee to do so.
 - d. When a 7-day National weather forecast of rain for Fortuna, California, at <http://www.weather.gov> includes a minimum of 5 consecutive days with any chance of precipitation, 3 consecutive days with a 30% or greater chance of precipitation, or 2 consecutive days of 50% or greater chance of precipitation, the Permittee shall finish all work underway, immediately deploy erosion control materials after completing work, and refrain from starting any new work prior to the rain event; and

e. When a 14-day National weather forecast of rain at http://www.emc.ncep.noaa.gov/gmb/yluo/html_pqpf/pqpf_us1.html shows a 50% or greater chance of > 0.5-inch of rainfall in a 12-hour period, the Permittee shall finish work underway and deploy erosion control materials. No additional work is permitted in the early season without additional consultation and concurrence from the CDFW.

WILDLIFE AND HABITAT PROTECTION MEASURES

- 2.6 Vehicles and equipment shall not be driven or operated in water or where riparian vegetation or aquatic organisms may be destroyed, except as otherwise provided for in this Agreement to complete authorized work.
- 2.7 Project-related personnel and equipment shall access the Project site using existing designated routes and shall not cross undisturbed ground outside of the Project site. Project-related vehicle traffic shall be restricted to established roads, staging, and parking areas.
- 2.8 Removal of existing trees and shrubs shall not exceed the minimum necessary to complete operations. Where feasible, hand tools (chain saws, etc.) shall be used to cut or trim woody riparian vegetation. Whenever possible, root systems shall be left intact to facilitate more rapid recovery following temporary construction impacts. No ground disturbance shall occur during any felling or removal of vegetation from October 15 to June 15.
- 2.9 If vegetation must be removed during the nesting season (March 1 to September 1), nest surveys shall be conducted just prior to vegetation clearing, and nesting buffers placed as appropriate prior to, and while, conducting work. Once vegetation is trimmed or removed, repeated hand-cutting of re-growth during the nesting season is permitted as needed to avoid re-growth that may attract nesting birds.
- 2.10 Preventing the spread of aquatic invasive species (AIS) in permitted activities is important because many AIS are difficult to see in the environment and can be unknowingly transported to new locations on equipment. These include New Zealand mudsnails, quagga and zebra mussels, chytrid fungus and Sudden Oak Death Syndrome. Decontamination is necessary to prevent the spread of AIS between different waterbodies. Therefore all equipment that comes into contact with water during field activities shall be decontaminated using one or more of the protocols listed at: <https://www.wildlife.ca.gov/Conservation/Invasives>. Heavy equipment and other motorized or mechanized equipment that comes in contact with water should follow watercraft decontamination protocols. Using these AIS protocols, which are intended to prevent the spread of AIS in CDFW Region 1, are required as a condition of your CDFW authorization to work in aquatic habitats.

- 2.11 If any special status species are observed on site, Permittee or designated representative shall submit Natural Diversity Data Base (NDDDB) forms to the NDDDB within five (5) working days of the sightings, and provide to CDFW's Eureka office a copy of the NDDDB forms and any survey maps.

INSTREAM STRUCTURES

- 2.12 No fill material shall be placed within a stream except as specified in this Agreement. Fill excavated from Project work shall be placed in stable areas where it cannot enter or erode into a stream.
- 2.13 Installation of permanent riprap and other instream channel modifications shall not impede the passage of fish up or down stream.

EROSION, SEDIMENT CONTROL and REVEGETATION

- 2.14 Following commencement of Project activities, adequate erosion and sediment control devices to prevent sediment or turbid or silt-laden water from entering the stream shall be in place, operative, and effective at all times.
- 2.15 Where needed, the Permittee shall use native vegetation or other treatments to protect and stabilize soils. All bare mineral soil exposed in conjunction with construction, deconstruction, maintenance or repair shall be treated for effective erosion control prior to the onset of precipitation capable of generating run-off or the end of the yearly work period, whichever comes first.
- 2.16 Erosion control measures shall include the proper installation and maintenance of approved Best Management Practices (BMPs), and may include applications of lopped native slash, native duff (leaves, needles, fine twigs, etc.), jute netting, straw wattles, coir, wood chip mat, or straw mats, geotextiles, regionally-native seed, weed-free straw, compost and mulch, or combinations thereof. Geotextiles, fiber rolls, and other erosion control treatments shall not contain plastic mesh netting that can entrap or harm wildlife. Photodegradable synthetic products are not considered biodegradable.
- 2.17 No known invasive grass seed such as annual or perennial ryegrass (*Lolium multiflorum* or *L. perenne*, which are now referred to as *Festuca perennis*), shall be used in erosion control or revegetation seed mixes.
- 2.18 Encroachments and associated structures, fills, and other exposed soils shall be armored as needed to protect fill, end walls, head walls, and wing walls, and the stream channel and banks from erosion. The Permittee shall provide site maintenance during the life of the structure, including, but not limited to, re-applying erosion control to minimize surface erosion and ensuring stream banks

remain sufficiently functional, armored and/or stable, and crossings remain fish-passable

- 2.19 Erosion control measures shall be monitored and maintained during and after storm events. Modifications, repairs, and improvements to erosion control measures shall be made following storm events to halt any erosion and prevent sediment from entering surface waters.
- 2.20 Immediately following construction, all disturbed upland areas greater than 100 square feet at each bridge site shall be either mulched with appropriate weed-free mulch or reseeded with a native, regionally-appropriate grass and forb seed mix. Weed removal on replanted areas shall be undertaken yearly during the life of this Agreement.

POLLUTION

- 2.21 Any equipment or vehicles driven and/or operated within or adjacent to the stream channel shall be checked and maintained daily to prevent leaks of materials that, if introduced to water, could be deleterious to aquatic life, wildlife, or riparian habitat.
- 2.22 All equipment used during construction of this Project shall be cleaned (i.e. free of dirt and debris that may harbor noxious weed seeds and plant parts) prior to its arrival on site.
- 2.23 Stationary equipment including but not limited to motors, pumps, generators, compressors, and welders that contain deleterious materials, located within or adjacent to a stream shall be positioned over drip pans, be bermed to contain spilled materials, or have other suitable containment systems installed to handle a catastrophic spill/leak and prevent contaminants from entering water.
- 2.24 All activities performed in or near a stream shall have absorbent materials designated for spill containment and clean-up activities on-site for use in an accidental spill. Clean up of all spills shall begin immediately. The Permittee shall immediately notify the State Office of Emergency Services at 1-800-852-7550 for all types of hazardous materials spills and incidents. CDFW shall be notified by the Permittee and consulted regarding clean-up procedures.
- 2.25 Refueling of machinery or heavy equipment, or adding or draining oil, lubricants, coolants, or hydraulic fluids shall not take place within or adjacent to any stream. All such fluids and containers shall be disposed of properly off-site. Heavy equipment used or stored within stream bed, channel, and bank shall use drip pans or other devices (i.e., absorbent blankets, sheet barriers or other materials) as needed to prevent soil and water contamination.

2.26 No debris, soil, silt, sand, bark, slash, sawdust, rubbish, cement or concrete or washings thereof, asphalt, paint or other coating material, oil or petroleum products or other organic or earthen material from any construction, or associated activity of whatever nature shall be allowed to enter into, or placed where it may be washed by rainfall or runoff into, waters of the State. When operations are completed, any excess materials or debris shall be removed from the work area. No rubbish shall be deposited within 150 feet of the high water mark of any stream or lake.

SITE SPECIFIC MEASURES

3. Reporting Measures

3.1 Permittee shall notify CDFW within the seven-day period preceding the beginning of work permitted by this Agreement. Information to be disclosed shall include Agreement number, and the anticipated start date. Subsequently, the Permittee shall notify CDFW no later than seven days after the Project is fully completed. Notification may be faxed to CDFW at (707) 441-2021, Attn: JoAnn Loehr, Senior Environmental Scientist Specialist, or via email: joann.loehr@wildlife.ca.gov.

CONTACT INFORMATION

Written communication that Permittee or CDFW submits to the other shall be delivered to the address below unless Permittee or CDFW specifies otherwise:

To Permittee:

Mr. Troy Arseneau
Caltrans
1656 Union St.
Eureka, CA 95501
Email: troy.arseneau@dot.ca.gov

To CDFW:

California Department of Fish and Wildlife
Northern Region
619 Second Street
Eureka, California 95501
Attn: Lake or Streambed Alteration Program
Notification #1600-2016-0124-R1
Fax: (707) 441-2021

LIABILITY

Permittee shall be solely liable for any violations of the Agreement, whether committed by Permittee or any person acting on behalf of Permittee, including its officers, employees, representatives, agents or contractors and subcontractors, to complete the Project or any activity related to it that the Agreement authorizes.

This Agreement does not constitute CDFW's endorsement of, or require Permittee to proceed with the Project. The decision to proceed with the Project is Permittee's alone.

SUSPENSION AND REVOCATION

CDFW may suspend or revoke in its entirety the Agreement if it determines that Permittee or any person acting on behalf of Permittee, including its officers, employees, representatives, agents, or contractors and subcontractors, is not in compliance with the Agreement.

Before CDFW suspends or revokes the Agreement, it shall provide Permittee written notice by certified or registered mail that it intends to suspend or revoke. The notice shall state the reason(s) for the proposed suspension or revocation, provide Permittee an opportunity to correct any deficiency before CDFW suspends or revokes the Agreement, and include instructions to Permittee, if necessary, including but not limited to a directive to immediately cease the specific activity or activities that caused CDFW to issue the notice.

ENFORCEMENT

Nothing in the Agreement precludes CDFW from pursuing an enforcement action against Permittee instead of, or in addition to, suspending or revoking the Agreement.

Nothing in the Agreement limits or otherwise affects CDFW's enforcement authority or that of its enforcement personnel.

OTHER LEGAL OBLIGATIONS

This Agreement does not relieve Permittee or any person acting on behalf of Permittee, including its officers, employees, representatives, agents, or contractors and subcontractors, from obtaining any other permits or authorizations that might be required under other federal, state, or local laws or regulations before beginning the Project or an activity related to it.

This Agreement does not relieve Permittee or any person acting on behalf of Permittee, including its officers, employees, representatives, agents, or contractors and subcontractors, from complying with other applicable statutes in the FGC including, but not limited to, FGC sections 2050 *et seq.* (threatened and endangered species), 3503 (bird nests and eggs), 3503.5 (birds of prey), 5650 (water pollution), 5652 (refuse

disposal into water), 5901 (fish passage), 5937 (sufficient water for fish), and 5948 (obstruction of stream).

Nothing in the Agreement authorizes Permittee or any person acting on behalf of Permittee, including its officers, employees, representatives, agents, or contractors and subcontractors, to trespass.

AMENDMENT

CDFW may amend the Agreement at any time during its term if CDFW determines the amendment is necessary to protect an existing fish or wildlife resource.

Permittee may amend the Agreement at any time during its term, provided the amendment is mutually agreed to in writing by CDFW and Permittee. To request an amendment, Permittee shall submit to CDFW a completed CDFW "Request to Amend Lake or Streambed Alteration" form and include with the completed form payment of the corresponding amendment fee identified in CDFW's current fee schedule (see Calif. Code Regs., Title 14, Section 699.5).

TRANSFER AND ASSIGNMENT

This Agreement may not be transferred or assigned to another entity, and any purported transfer or assignment of the Agreement to another entity shall not be valid or effective, unless the transfer or assignment is requested by Permittee in writing, as specified below, and thereafter CDFW approves the transfer or assignment in writing.

The transfer or assignment of the Agreement to another entity shall constitute a minor amendment, and therefore to request a transfer or assignment, Permittee shall submit to CDFW a completed CDFW "Request to Amend Lake or Streambed Alteration" form and include with the completed form payment of the minor amendment fee identified in CDFW's current fee schedule (see Calif. Code Regs., Title 14, Section 699.5).

EXTENSIONS

In accordance with FGC Section 1605(b), Permittee may request one extension of the Agreement, provided the request is made prior to the expiration of the Agreement's term. To request an extension, Permittee shall submit to CDFW a completed CDFW "Request to Extend Lake or Streambed Alteration" form and include with the completed form payment of the extension fee identified in CDFW's current fee schedule (see Calif. Code Regs., Title 14, Section 699.5). CDFW shall process the extension request in accordance with FGC Section 1605(b) through (e).

If Permittee fails to submit a request to extend the Agreement prior to its expiration, Permittee must submit a new notification and notification fee before beginning or continuing the Project the Agreement covers (FGC Section 1605(f)).

EFFECTIVE DATE

The Agreement becomes effective on the date of CDFW's signature, which shall be: 1) after Permittee's signature; 2) after CDFW complies with all applicable requirements under the California Environmental Quality Act (CEQA); and 3) after payment of the applicable FGC Section 711.4 filing fee listed at http://www.CDFW.ca.gov/habcon/ceqa/ceqa_changes.html.

TERM

This Agreement shall expire **3 years** from the effective date, unless it is terminated or extended before then. All provisions in the Agreement shall remain in force throughout its term. Permittee shall remain responsible for implementing any provisions specified herein to protect fish and wildlife resources after the Agreement expires or is terminated, as FGC Section 1605(a)(2) requires.

AUTHORITY

If the person signing the Agreement (signatory) is doing so as a representative of Permittee, the signatory hereby acknowledges that he or she is doing so on Permittee's behalf and represents and warrants that he or she has the authority to legally bind Permittee to the provisions herein.

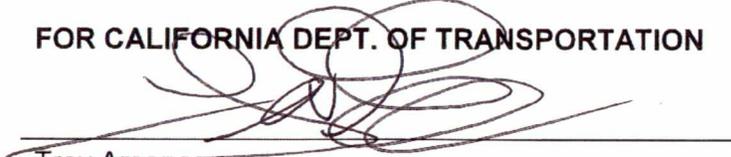
AUTHORIZATION

This Agreement authorizes only the Project described herein. If Permittee begins or completes a Project different from the Project the Agreement authorizes, Permittee may be subject to civil or criminal prosecution for failing to notify CDFW in accordance with FGC Section 1602.

CONCURRENCE

The undersigned accepts and agrees to comply with all provisions contained herein.

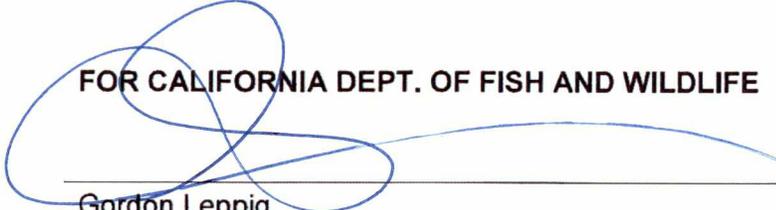
FOR CALIFORNIA DEPT. OF TRANSPORTATION



Troy Arseneau
Project Manager

6/20/16
Date

FOR CALIFORNIA DEPT. OF FISH AND WILDLIFE



Gordon Leppig
Senior Environmental Scientist Supervisor

6/20/16
Date

01-430604
01-HUM-254-0.8/43.1
Project ID 0100000186

North Coast Regional Water Quality Control Board

General Resolution #R1-2012-0099

WDID #1B16246RHUM

Contact Information:

Shawn Agarwal (707) 576-2066

Shawn.Agarwal@waterboards.ca.gov

Mona Dougherty (707) 570-3761

Mona.Dougherty@waterboards.ca.gov



North Coast Regional Water Quality Control Board

May 27, 2016

Mr. Sean Marquis
California Department of Transportation
District 3
703 B Street
Marysville, CA 95901
sean.marquis@dot.ca.gov

Dear Mr. Marquis:

Subject: Categorical Waiver of Waste Discharge Requirements for Maintenance Activities on Transportation Structures at the California Department of Transportation Ohman Creek Bridge, Elk Creek Bridge, Bridge Creek Bridge, and Bear Creek Bridge on State Route 254, Humboldt County

File: Avenue of Giants Four Bridges Project, Categorical Waiver of Waste Discharge Requirements, General Resolution No. R1-2012-0099, WDID No. 1B16246RHUM

The California Department of Transportation (Permittee) submitted a Report of Waste Discharge (ROWD) and a waiver fee on March 24, 2016, for the Avenue of Giants Four Bridges Project (Project). The North Coast Regional Water Quality Control Board (Regional Water Board) determined that the Project qualifies for a waiver of waste discharge requirements as set forth in Regional Water Board Resolution No. R1-2012-0099, *Policy for Waiving Waste Discharge Requirements for Specific Types of Waste Discharge (Categorical Waiver)*.

As of the date of this letter, the Project is enrolled in the Categorical Waiver under the specific waiver category *Maintenance Activities on Transportation Structures*. The Regional Water Board may terminate this Categorical Waiver at any time.

The Permittee proposes the following maintenance activities at the following transportation structures located on State Route 254:

1. Ohman Creek Bridge (Bridge No. 4-7), Post Mile (PM) 0.88
 - a. Upgrade bridge railing;
 - b. Widen bridge abutment;
 - c. Install crash cushions and buried post anchor;

JOHN W. CORBETT, CHAIR | MATTHIAS ST. JOHN, EXECUTIVE OFFICER

5550 Skylane Blvd., Suite A, Santa Rosa, CA 95403 | www.waterboards.ca.gov/northcoast

- d. Repave and widen existing bridge approaches; and
 - e. Remove existing asphalt concrete (AC) and replace with 1 inch of polyester concrete.
2. Elk Creek Bridge (Bridge No. 4-80), PM 10.43
 - a. Upgrade bridge railing;
 - b. Install crash cushions;
 - c. Repave and widen existing bridge approaches; and
 - d. Remove existing AC and replace with 1 inch of polyester concrete.
 3. Bridge Creek Bridge (Bridge No. 4-9), PM 10.80
 - a. Upgrade bridge railing;
 - b. Install guard rails, crash cushion and buried post anchor;
 - c. Repave and widen existing bridge approaches; and
 - d. Remove existing AC and replace with 1 inch of polyester concrete.
 4. Bear Creek Bridge (Bridge No. 4-12), PM 43.02
 - a. Upgrade bridge railing;
 - b. Install guard rails, crash cushion and buried post anchor; and
 - c. Repave and widen existing bridge approaches.

Pursuant to the Categorical Waiver, the Permittee shall complete the Project as described in the ROWD, including using all proposed Best Management Practices (BMPs), containing all waste, and notifying the Regional Water Board of the commencement and completion of the Project. As described in the ROWD, the Permittee shall submit the Water Pollution Control Plan to the Regional Water Board at least 30 days prior to beginning the Project.

The Permittee is liable and responsible for the proper disposal, reuse, and recycling of all Project generated waste in compliance with applicable State and Federal laws and regulations, and as described in California Department of Transportation 2010 Standard Specifications 13-4.03D, Waste Management. Additionally, the Permittee shall:

1. Provide the Regional Water Board with a copy of the Solid Waste Disposal and Recycling Report within 30 days after being completed by the contractor; and
2. For non-solid waste, including paint, sanitary, septic, and liquid waste, obtain evidence that the waste has been appropriately disposed, reused and recycled.

In order to satisfy the monitoring and reporting requirements of the Categorical Waiver, the Permittee shall comply with *Monitoring and Reporting Program Order No. R1-2013-0053 for California Department of Transportation for Discharges Associated with Transportation Structure Maintenance Activities* (MRP Order No. R1-2013-0053).

Please read the Categorical Waiver, including Attachment A, and MRP Order No. R1-2013-0053. These documents can be found at:

http://www.waterboards.ca.gov/northcoast/board_decisions/adopted_orders/pdf/2012/12_0099_Resolution_CategoricalWaiver.pdf

http://www.waterboards.ca.gov/northcoast/board_decisions/adopted_orders/pdf/2012/12_0099_Resolution_CategoricalWaiver_AttachA.pdf

http://www.waterboards.ca.gov/northcoast/board_decisions/adopted_orders/pdf/2013/130805_TrinityBridgesSR3_and_299_MRP.pdf

If you have any questions, please contact Shawn Agarwal at (707) 576-2066 or Shawn.Agarwal@waterboards.ca.gov, or Mona Dougherty at (707) 570-3761 or Mona.Dougherty@waterboards.ca.gov.

Sincerely,

 Digitally signed by
Claudia Villacorta
Date: 2016.05.27
12:24:58 -07'00'

Matthias St. John
Executive Officer

160527_SKA_ef_NOA_4HUMBRIDGES

Certified-Return Receipt Requested

01-430604
01-HUM-254-0.8/43.1
Project ID 0100000186

Pacific Gas and Electric Company

Notice to Owner #01-2132

Contact Information:

Tom DeAge

2555 Myrtle Ave.

Eureka, CA 95501-3494

NOTICE TO OWNER

RW 13-4 (Rev. 1/2014)

NOTICE TO OWNER

Dist	County	Route	Post Mile	Proj. ID	E.A.
01	HUM	254	0.8/43.1	0100000186	43060
Federal Aid No.: N/A					
Owners File: PM 31081561					
Date: June 13, 2016				Freeway: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	

Number: 01-2132

To: Pacific Gas and Electric Company
 Attn: Tom DeAge
 2555 Myrtle Ave.
 Eureka, CA 95501-3494

Because of the State Highway construction project: To replace bridge rails and widen four bridges in Humboldt County at 4 locations from Ohman Creek Bridge #4-7 to Bear Creek Bridge #4-12.

Which affects your facilities: Aerial electric distribution facilities.

You are hereby ordered to: Relocate aerial electric facilities per attached PG&E Relocation Plans referenced as PM 31081561 consisting of one sheet, which was approved by Caltrans Design on May 20, 2015.

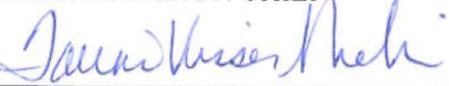
Your work schedule shall be as follows: Relocate your aerial electric distribution facilities prior to March 1, 2017

Notify Joaquin Rodriguez, Resident Engineer, at 707-621-0000 and Dan Kaiser, Utility Coordinator, at 707-441-4644, 72 hours prior to initial start of work, and 48 hours prior to subsequent restart when your work schedule is interrupted.

Liability for the cost of the work is: The existing facilities are located within the STATE's right of way under permit and will be relocated at OWNER's expense under the provisions of Section (673) (680) of the Streets and Highway Code.

DISTRICT DIRECTOR

DISTRICT DIVISION CHIEF

By 

DISTRICT UTILITY COORDINATOR

CC: Resident Engineer
 Permits
 R/W

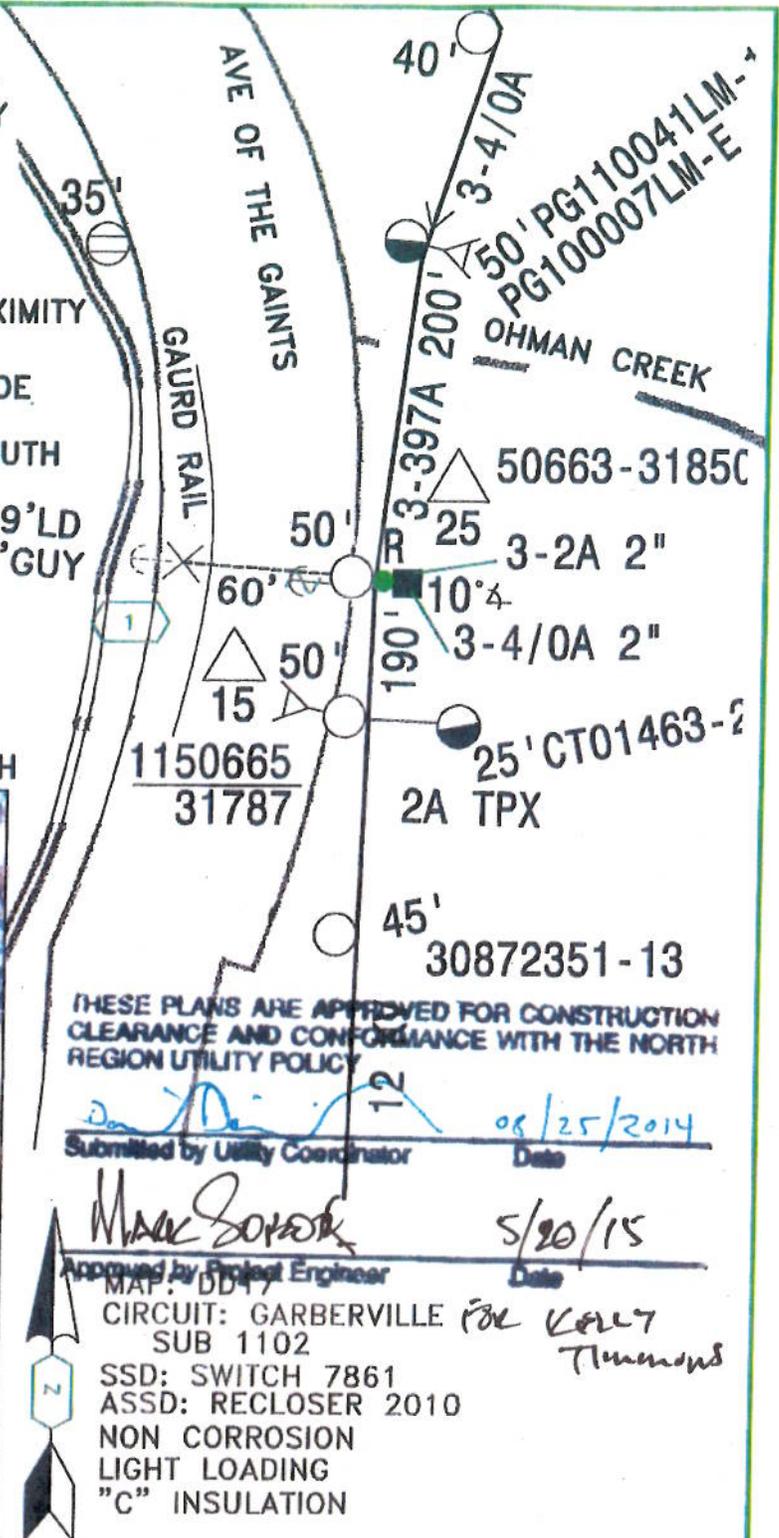
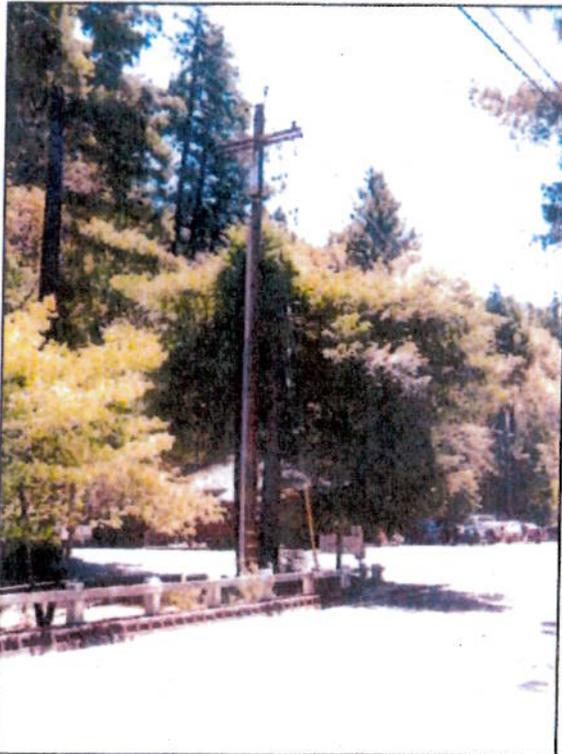
THIS NOTICE DOES NOT CONSTITUTE A PERMIT. OBTAIN AN ENCROACHMENT PERMIT BEFORE STARTING WORK.

ADA Notice: For individuals with sensory disabilities, this document is available in alternate formats. For information call (916) 654-6410 or TDD (916) 654-3880 or write Records and Forms Management, 1120 N Street, MS-89, Sacramento, CA 95814.

INSTALL 35' GUYSTUB POLE &
 15M ANCHOR - 9'LD 7/16" GUY
 2 MAN FLAGGING NEEDED
 FOR PROJECT
 BRUSHING CLEARING NEEDED
 PRIOR TO CONTRUCTION
 HAND DIG ANCHOR DUE TO PROXIMITY
 TO ROADWAY
 SET POLE 48" FROM STREET SIDE
 OF EXISTING GUARD RAIL
 JOBSITE LOCATION 1.5 MILES SOUTH
 OF PHILLIPSVILLE

15M-9'LD
 7/16" GUY

EXISTING PG POLE LOOKING SOUTH



THESE PLANS ARE APPROVED FOR CONSTRUCTION
 CLEARANCE AND CONFORMANCE WITH THE NORTH
 REGION UTILITY POLICY

Submitted by Utility Coordinator *[Signature]* Date 08/25/2014

Approved by Project Engineer *[Signature]* Date 5/20/15

CIRCUIT: GARBerville FOR Kelly Timmons
 SUB 1102
 SSD: SWITCH 7861
 ASSD: RECLOSER 2010
 NON CORROSION
 LIGHT LOADING
 "C" INSULATION

EST: CHAD KRYLA
 ADE: CHARLIE PACE
 SUPV: ANDIE PRICE
 REP:
 PLNR:
 SCALE: NONE DATE: 7-14-14



RELOCATE ANCHOR
 HWY 254 PM 0.88
 PHILLIPSVILLE, CA
 PACIFIC GAS AND ELECTRIC COMPANY

CC:
 SD:
 NOTIF: 108150453
 OTHER:
 SH: 1 OF 1 SHEETS
 PM: 31081561 REV.

01-430604
01-HUM-254-0.8/43.1
Project ID 0100000186

AT&T

Notice to Owner #01-2133

Contact Information:

Mike McAfee

2125 Occidental Rd.

Santa Rosa, CA 95401

NOTICE TO OWNER

RW 13-4 (Rev. 1/2014)

NOTICE TO OWNER

Dist	County	Route	Post Mile	Proj. ID	E.A.
01	HUM	254	0.8/43.1	0100000186	43060
Federal Aid No.: N/A					
Owners File: Job # A00E7FG					
Date: June 13, 2016				Freeway: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	

Number: 01-2133

To: AT&T
 Attn: Mike McAfee
 2125 Occidental Rd.
 Santa Rosa, CA 95401

Because of the State Highway construction project: To replace bridge rails and widen four bridges in Humboldt County at 4 locations from Ohman Creek Bridge #4-7 to Bear Creek Bridge #4-12.

Which affects your facilities: Aerial communication facilities.

You are hereby ordered to: Relocate aerial communication facilities per attached AT&T Relocation Plans referenced as Job Number A00E7FG, consisting of one sheet, which was approved by Caltrans Design on May 17, 2016.

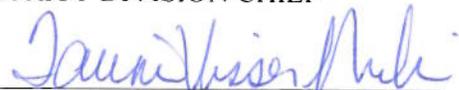
Your work schedule shall be as follows: Relocate your aerial electric distribution facilities prior to April 1, 2017

Notify Joaquin Rodriguez, Resident Engineer, at 707-621-0000 and Dan Kaiser, Utility Coordinator, at 707-441-4644, 72 hours prior to initial start of work, and 48 hours prior to subsequent restart when your work schedule is interrupted.

Liability for the cost of the work is: The existing facilities are located within the STATE's right of way under permit and will be relocated at OWNER's expense under the provisions of Section (673) (680) of the Streets and Highway Code.

DISTRICT DIRECTOR

DISTRICT DIVISION CHIEF

By 
 DISTRICT UTILITY COORDINATOR

CC: Resident Engineer
 Permits
 R/W

THIS NOTICE DOES NOT CONSTITUTE A PERMIT. OBTAIN AN ENCROACHMENT PERMIT BEFORE STARTING WORK.

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Dist#	COUNTY	ROUTE	POST MILES	SHEET TOTAL
01	HUM	254	0.8/43.1	NO. SHEETS

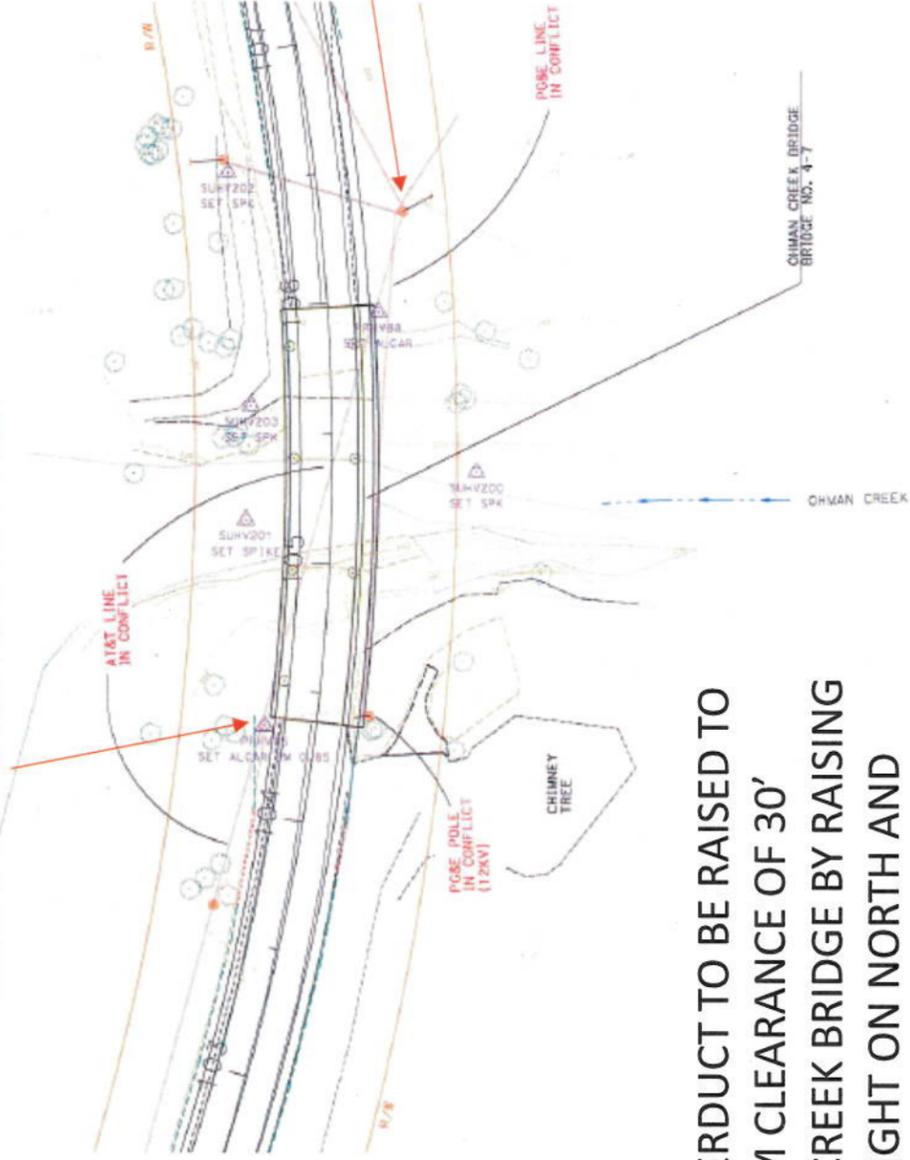
FOR DESIGN STUDY ONLY

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS AND AIRWAYS
THE ASSISTANT ATTORNEY GENERAL
CONSENT OF AND PLAN SHEET

**AT&T TO ATTACH @ 37' ON
NEW POLE BEING SET BY PG&E**



**AT&T TO RAISE
APPROX 6' VIA
COMPLETING
POLE TRANSFER**

**AT&T AERIAL FIBERDUCT TO BE RAISED TO
ABOVE MINIMUM CLEARANCE OF 30'
ABOVE OHMAN CREEK BRIDGE BY RAISING
ATTACHMENT HEIGHT ON NORTH AND
ATTACHING TO NEW JOINT POLE BEING
PLACED BY PG&E ON SOUTH**

LOCATION 1
OHMAN CREEK
BRIDGE NO. 4-7
HUM-254-PM 0.88
03233 01-430600
RAIL UPGRADE & WIDEN
SCALE: 1" = 100'
SCALE: 1" = 50'

**THESE PLANS ARE APPROVED FOR CONSTRUCTION
CLEARANCE AND CONFORMANCE WITH THE NORTH
REGION UTILITY POLICY**

Tom Kruer
Submitted by Utility Coordinator
Date 5/17/16

Kelly B. Timmon
Approved by Project Engineer
Date 17 May 2016

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	FUNCTIONAL SUPERVISOR	CHECKED BY	DESIGNED BY	DATE REVISION

01-430604
01-HUM-254-0.8/43.1
Project ID 0100000186

Frontier Communications

Notice to Owner #01-2134

Contact Information:

Dennis Harman

PO Box 1218.

Weaverville, CA 96093-1218

NOTICE TO OWNER

RW 13-4 (Rev. 1/2014)

NOTICE TO OWNER

Dist	County	Route	Post Mile	Proj. ID	E.A.
01	HUM	254	0.8/43.1	0100000186	43060
Federal Aid No.: N/A					
Owners File: N/A					
Date: June 13, 2016				Freeway: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	

Number: 01-2134

To: Frontier Communications
Attn: Dennis Harman
PO Box 1218.
Weaverville, CA 96093-1218

Because of the State Highway construction project: To replace bridge rails and widen four bridges in Humboldt County at 4 locations from Ohman Creek Bridge #4-7 to Bear Creek Bridge #4-12.

Which affects your facilities: Aerial communication facilities.

You are hereby ordered to: Relocate aerial communication facilities per attached Frontier Relocation Plans consisting of one sheet, which was approved by Caltrans Design on May 17, 2016.

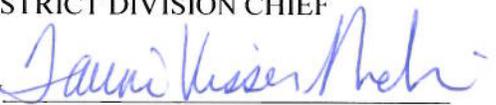
Your work schedule shall be as follows: Relocate your aerial electric distribution facilities prior to April 1, 2017

Notify Joaquin Rodriguez, Resident Engineer, at 707-621-0000 and Dan Kaiser, Utility Coordinator, at 707-441-4644, 72 hours prior to initial start of work, and 48 hours prior to subsequent restart when your work schedule is interrupted.

Liability for the cost of the work is: The existing facilities are located within the STATE's right of way under permit and will be relocated at OWNER's expense under the provisions of Section (673) (680) of the Streets and Highway Code.

DISTRICT DIRECTOR

DISTRICT DIVISION CHIEF

By 
DISTRICT UTILITY COORDINATOR

CC: Resident Engineer
Permits
R/W

THIS NOTICE DOES NOT CONSTITUTE A PERMIT. OBTAIN AN ENCROACHMENT PERMIT BEFORE STARTING WORK.



phone: 530.623.5546
 cell: 530.771.7036
 fax: 530.623.0077

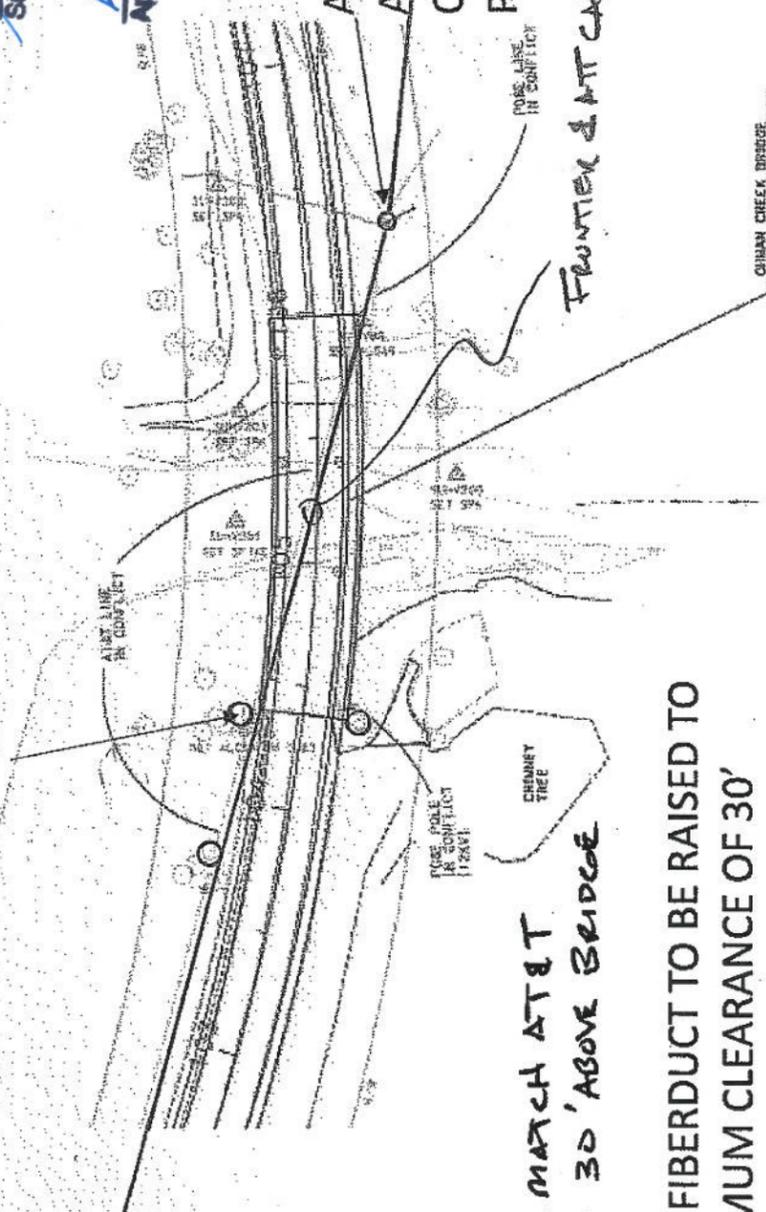
Dennis Harman
 Eng'r IV Spec-Ntwk EngOps

dennis.harman@ftr.com

PO Box 1218
 115 Bremer St
 Weaverville, CA 96093-1218

FRONTIER TO ATTACH @ 36' ON NEW JP.
 SAME AS AT&T

AT&T TO ATTACH @ 37' ON
 NEW POLE BEING SET BY PG&E



FRONTIER TO MATCH AT&T
 TO MAINTAIN 30' ABOVE BRIDGE

AT&T AERIAL FIBERDUCT TO BE RAISED TO
 ABOVE MINIMUM CLEARANCE OF 30'
 ABOVE OHMAN CREEK BRIDGE BY RAISING
 ATTACHMENT HEIGHT ON NORTH AND
 ATTACHING TO NEW JOINT POLE BEING
 PLACED BY PG&E ON SOUTH

FRONTIER TO RAISE
 6' WITH TRANSFER

AT&T TO RAISE
 APPROX 6' VIA
 COMPLETING
 POLE TRANSFER

FRONTIER & AT&T CABLES

LOCATION 1
 OHMAN CREEK
 BRIDGE NO. 4-7
 HUM-254-PM 0.88
 03233 01-430800
 RAIL UPGRADE & WIDEN
 SCALE: 1" = 100'
 SCALE: 1" = 50'

THESE PLANS ARE APPROVED FOR CONSTRUCTION
 CLEARANCE AND CONFORMANCE WITH THE NORTH
 REGION UTILITY POLICY

Jan Kavin
 Submitted by Utility Coordinator
 Date: *5/17/16*

Kelly S. Timmer
 Approved by Project Engineer
 Date: *17 May 2016*

DATE	COUNTY	ROUTE	POST MILE	FILE NO.	SHEET
01	HUM	254	0.8755.1		

FOR DESIGN STUDY ONLY

REGISTERED CIVIL ENGINEER STATE OF CALIFORNIA

PROJECT APPROVAL DATE

FOR USE OF ENGINEER OR ARCHITECT ONLY

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
 FUNCTIONAL SURVEYOR

Dennis Harman *5/13/16*
 Frontier Comm
 530 623 5546

01-430604
01-HUM-254-0.8/43.1
Project ID 0100000186

Non-Potable Water Source

Contact Information:

Fortner Excavation

P.O. Box 1419

Laytonville, CA 95454

Delaine Fortner

(707) 984-6848



Bob & Delaine Fortner

POBox 1419 Laytonville, Ca. 95454

707-984-6848

3/18/16

To: Diane Edwards, PE
Caltrans
1656 Union St.
Eureka, CA 95501

RE: Non-Potable Water Source
Four Bridges
0100000186 (01-43060)
01-Hum-254 PM 0.8/43.1 (Var. Locations)

Dear Ms. Edwards:

This letter is in response to your non-potable water source inquiry.

Fortner Excavation can supply the estimated 70,000 gallons of non-potable water for the Four Bridges project located in Humboldt County on Highway 254 at various locations from PM 0.8 to 43.1 during the summer of 2017. Our non-potable water source is located at 44990 North Hwy 101 in Laytonville.

Any potential bidders may contact Fortner Excavation for prices.
All bidders will be quoted the same rate.

Sincerely,
Delaine Fortner

01-430604
01-HUM-254-0.8/43.1
Project ID 0100000186

Asbestos-Containing Materials & Lead-Containing Paint Survey

Geocon Project #S9300-06-141

Contact Information:

Geocon Consultants, Inc.

3160 Gold Valley Drive, Suite 800

Rancho Cordova, CA 95742

ASBESTOS-CONTAINING MATERIALS AND LEAD-CONTAINING PAINT SURVEY

Bridge Creek Bridge (04-0009)
Humboldt County, California

PREPARED FOR:

**CALIFORNIA DEPARTMENT OF TRANSPORTATION – DISTRICT 1
ENVIRONMENTAL ENGINEERING OFFICE
1656 UNION STREET
EUREKA, CALIFORNIA 95501**



PREPARED BY:

**GEOCON CONSULTANTS, INC.
3160 GOLD VALLEY DRIVE, SUITE 800
RANCHO CORDOVA, CALIFORNIA 95742**



**GEOCON PROJECT NO. S9300-06-141
TASK ORDER NO. 141, EA 01-430600**

SEPTEMBER 2010



Project No. S9300-06-141
September 29, 2010

Steve Werner, Task Order Manager
Caltrans District 1
Environmental Engineering Office
1656 Union Street
Eureka, California 95501

Subject: BRIDGE CREEK BRIDGE (04-0009)
HUMBOLDT COUNTY, CALIFORNIA
CONTRACT NO. 03A1368, TASK ORDER NO. 141, EA NO. 01-430600
ASBESTOS-CONTAINING MATERIALS AND LEAD-CONTAINING PAINT
SURVEY REPORT

Dear Mr. Werner:

In accordance with California Department of Transportation Contract No. 03A1368 and Task Order No. 141, we have performed an asbestos and lead-containing paint survey of the subject bridge in Humboldt County, California. The scope of services included surveying the bridge for suspect asbestos-containing materials and lead-containing paint, collecting bulk samples, and submitting the samples to laboratories for analyses.

The accompanying report summarizes the services performed and laboratory analysis.

The contents of this report reflect the views of Geocon Consultants, Inc., who are responsible for the facts and accuracy of the data presented herein. The contents do not necessarily reflect the official views or policies of the State of California or the Federal Highway Administration. This report does not constitute a standard, specification, or regulation.

Please contact us if you have questions concerning the contents of this report or if we may be of further service.

Sincerely,

GEOCON CONSULTANTS, INC.


David A. Watts, CAC
Senior Project Scientist


John E. Juhrend, PE, CEG
Project Manager

(2 + 2 CDs) Addressee

TABLE OF CONTENTS

ASBESTOS-CONTAINING MATERIALS AND LEAD-CONTAINING PAINT SURVEY REPORT

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FIGURES

1. Vicinity Map
2. Site Plan

PHOTOGRAPHS (1 through 3)

TABLES

1. Summary of Asbestos Analytical Results
2. Summary of Paint Analytical Results – Total and Soluble Lead

APPENDIX

- A. Analytical Laboratory Reports and Chain-of-custody Documentation

ASBESTOS-CONTAINING MATERIALS AND LEAD-CONTAINING PAINT SURVEY REPORT

1.0 INTRODUCTION

This asbestos and lead-containing paint (LCP) survey report was prepared by Geocon Consultants, Inc. under Caltrans Contract No. 03A1368, Task Order No. 141 (TO-141).

1.1 Project Description

The project consists of the Bridge Creek Bridge (04-0009) at Post Mile (PM) 10.83 on Highway 254 in Humboldt County, California. We performed asbestos and LCP survey activities at the bridge. The approximate project location is depicted on the Vicinity Map, Figure 1. The approximate sample locations are depicted on the Site Plan, Figure 2.

1.2 General Objectives

The purpose of the scope of services outlined in TO-141 was to determine the presence and quantity of asbestos and LCP at the project location prior to a currently proposed bridge replacement and widening on the right. Assuming that no asbestos is added to the bridge during future renovations, our survey would satisfy NESHAP requirements. The information obtained from this investigation will be used by Caltrans for waste profiling, determining California Occupational Safety and Health Administration (Cal/OSHA) applicability, and coordinating asbestos and LCP disturbance activities.

It was not Geocon's intent during this inspection to conduct an evaluation of lead-based paint hazards in accordance with U.S. Department of Housing and Urban Development (HUD) guidelines.

2.0 BACKGROUND

2.1 Asbestos

The *Code of Federal Regulations (CFR)*, 40 CFR 61, Subpart M, National Emissions Standards for Hazardous Air Pollutants (NESHAP) and Federal Occupational Safety and Health Administration (FED OSHA) classify asbestos-containing material (ACM) as any material or product that contains *greater than* 1% asbestos. Nonfriable ACM is classified by NESHAP as either Category I or Category II material defined as follows:

- **Category I** – asbestos-containing packings, gaskets, resilient floor coverings, and asphalt roofing products.
- **Category II** – all remaining types of nonfriable asbestos-containing material not included in Category I that when dry, cannot be crumbled, pulverized, or reduced to powder by hand pressure.

Regulated asbestos-containing material (RACM), a hazardous waste when friable, is classified as any manufactured material that contains *greater than* 1% asbestos by dry weight *and* is:

- Friable (can be crumbled, pulverized, or reduced to powder by hand pressure); or
- Category I material that has become friable; or
- Category I material that has been subjected to sanding, grinding, cutting, or abrading; or
- Category II nonfriable material that has a high probability of becoming crumbled, pulverized, or reduced to a powder during demolition or renovation activities.

Activities that disturb materials containing *any* amount of asbestos are subject to certain requirements of the Cal/OSHA asbestos standard contained in Title 8, CCR Section 1529. Typically, removal or disturbance of more than 100 square feet of material containing more than 0.1% asbestos must be performed by a registered asbestos abatement contractor, but associated waste labeling is not required if the material contains 1% or less asbestos. When the asbestos content of a material exceeds 1%, virtually all requirements of the standard become effective.

Materials containing more than 1% asbestos are also subject to NESHAP regulations (40 CFR Part 61, Subpart M). RACM (friable ACM and nonfriable ACM that will become friable during demolition operations) must be removed from structures prior to demolition. Certain nonfriable ACM and materials containing 1% or less asbestos may remain in structures during demolition; however, there are waste handling/disposal issues and Cal/OSHA work requirements that must be addressed. Contractors are responsible for segregating and characterizing waste streams prior to disposal.

With respect to potential worker exposure, notification, and registration requirements, Cal/OSHA defines asbestos-containing construction material (ACCM) as construction material that contains more than 0.1% asbestos (Title 8, CCR 341.6).

2.2 Lead Paint

Construction activities (including demolition) that disturb materials or paints containing *any* amount of lead are subject to certain requirements of the Cal/OSHA lead standard contained in Title 8, CCR, Section 1532.1. Deteriorated paint is defined by Title 17, CCR, Division 1, Chapter 8, §35022 as a surface coating that is cracking, chalking, flaking, chipping, peeling, non-intact, failed, or otherwise separating from a substrate. Demolition of a deteriorated LCP component would require waste characterization and appropriate disposal. Intact LCP on a component is currently accepted by most landfill facilities; however, contractors are responsible for segregating and characterizing waste streams prior to disposal.

For a solid waste containing lead, the waste is classified as California hazardous when: 1) the total lead content equals or exceeds the respective Total Threshold Limit Concentration (TTLC) of 1,000 milligrams per kilogram (mg/kg); or 2) the soluble lead content equals or exceeds the respective Soluble Threshold Limit Concentration (STLC) of 5 milligrams per liter (mg/l) based on the standard Waste Extraction Test (WET). A waste has the potential for exceeding the lead STLC when the waste's total lead content is greater than or equal to ten times the respective STLC value since the WET uses a 1:10 dilution ratio. Hence, when total lead is detected at a concentration greater than or equal to 50 mg/kg, and assuming that 100 percent of the total lead is soluble, soluble lead analysis is required. Lead-containing waste is classified as "Resource, Conservation, and Recovery Act" (RCRA) hazardous, or Federal hazardous, when the soluble lead content equals or exceeds the Federal regulatory level of 5 mg/l based on the Toxicity Characteristic Leaching Procedure (TCLP).

The above regulatory criteria are based on chemical concentrations. Wastes may also be classified as hazardous based on other criteria such as ignitability; however, for the purposes of this investigation, toxicity (i.e., lead concentration) is the primary factor considered for waste classification since waste generated during the construction activities would not likely warrant testing for ignitability or other criteria. Waste that is classified as either California-hazardous or RCRA-hazardous requires management as a hazardous waste.

Potential hazards exist to workers who remove or cut through LCP coatings during demolition. Dust containing hazardous concentrations of lead may be generated during scraping or cutting materials coated with lead-containing paint. Torching of these materials may produce lead oxide fumes. Therefore, air monitoring and/or respiratory protection may be required during the demolition of materials coated with LCP. Guidelines regarding regulatory provisions for construction work where workers may be exposed to lead are presented in Title 8, CCR, Section 1532.1.

2.3 Architectural Drawings and Previous Survey Activities

We reviewed bridge architectural plans provided by Caltrans prior to field activities. We observed evidence of the use of asbestos sheet packing between bronze expansion plates on drawing C-730-2. We observed no other evidence of asbestos or lead paint use on the architectural plans provided. Previous bridge asbestos survey reports were not available for our review.

3.0 SCOPE OF SERVICES

Mr. David Watts, a California-Certified Asbestos Consultant (CAC), certification No. 98-2404 (expiration September 16, 2011), and Certified Lead Paint Inspector/Assessor and Project Monitor with the California Department of Public Health Services (DPH), certification numbers I-1734 and M-1734 (expiration December 4, 2011), performed the asbestos and LCP survey at the project location on August 2, 2010.

3.1 Asbestos

Suspect ACM were grouped into homogeneous areas with representative samples randomly collected from each. In addition, each potential ACM was evaluated for friability. A total of five bulk asbestos samples representing four suspect components (construction concrete systems and expansion joint fill materials) were collected. We observed no suspect sheet piling or bronze expansion plates during our survey (see Section 2.3).

Our procedures for inspection and sampling in accordance with TO-141 are discussed below:

- Collected bulk asbestos samples after first wetting friable material with a light mist of water. The samples were then cut from the substrate and transferred to a labeled container. Note that when multiple samples were collected, the sampling locations were distributed throughout the homogeneous area (spaces where the material was observed).
- Relinquished bulk asbestos samples to EMSL Analytical, Inc., a California-licensed and Caltrans-approved subcontractor, for asbestos analysis in accordance with United States Environmental Protection Agency (EPA) Test Method 600/R-93/116 using polarized light microscopy (PLM) under chain-of-custody protocol. EMSL Analytical, Inc. is a laboratory accredited by the National Institute of Standards and Technology National Voluntary Laboratory Accreditation Program (NIST-NVLAP) for bulk asbestos fiber analysis. The laboratory analyses were requested on a standard turn-around-time.

Sample identification numbers, material descriptions, approximate quantities, friability assessments, and photo references are summarized on Table 1. Approximate sample locations are presented on Figure 2. Materials represented by the samples collected are shown in the attached photographs.

3.2 Lead Paint

Two bulk paint samples were collected from suspect LCP observed at the project location. We did not observe deteriorated LCP during our survey. Our sampling procedures in accordance with TO-141 are discussed below:

- Collected bulk samples of suspect LCP using techniques presented in HUD guidelines. In addition, the painted areas were evaluated for evidence of deterioration such as flaking or cracking.
- Relinquished bulk LCP samples under chain-of-custody protocol to Advanced Technology Laboratories, a California-licensed and Caltrans-approved subcontractor, for lead analysis in accordance with EPA Test Method 6010B. Advanced Technology Laboratories is accredited by the DPH for lead analysis. The laboratory analysis was requested on a standard turn-around-time.

Paint sample identification numbers, descriptions, peeling and flaking quantities, and photo references are summarized on Table 2. Approximate sample locations are presented on Figure 2. Materials represented by the samples collected are shown in the attached photographs.

4.0 INVESTIGATIVE RESULTS

4.1 Asbestos Analytical Results

Asbestos sheet packing is *assumed* to be present within expansion plates.

No asbestos was detected in samples of the suspect materials collected during our survey. A summary of the analytical laboratory test results for asbestos is presented on Table 1. Reproductions of the laboratory reports and chain-of-custody documentation are presented in Appendix A.

4.2 Paint Analytical Results

A sample representing intact yellow traffic striping exhibited a total lead concentration of 640 mg/kg and a WET lead concentration of 1.2 mg/l.

A sample representing intact white traffic striping exhibited a total lead concentration of 8.9 mg/kg.

A summary of the analytical laboratory test results for paint is presented on Table 2. Reproductions of the laboratory reports and chain-of-custody documentation are presented in Appendix A.

5.0 RECOMMENDATIONS

Based on our findings, we recommend the following:

5.1 Asbestos

NESHAP regulations do not require that asbestos-containing sheet packing (a Category I nonfriable/nonhazardous material) identified during our survey be removed prior to demolition or be treated as hazardous waste. However, the disturbance of the material is still covered by the Cal/OSHA asbestos standard (Title 8, CCR Section 1529). We recommend that a licensed contractor registered with Cal/OSHA for asbestos-related work perform any activities that would *disturb* the material. Contractors are responsible for informing the landfill of the contractor's intent to dispose of asbestos waste. Some landfills may require additional waste characterization. Contractors are responsible for segregating and characterizing waste streams prior to disposal.

Geocon also recommends the notification of contractors (that will be conducting renovation or related activities) of the presence of asbestos in their work areas (i.e., provide contractor[s] with a copy of this report and a list of asbestos removed during subsequent activities). Contractors not trained for asbestos work should be instructed not to disturb asbestos during their activities.

Written notification to the North Coast Unified Air Quality Management District (NCUAQMD) is required ten working days prior to commencement of *any* demolition activity (whether asbestos is present or not).

5.2 Lead Paint

Yellow and white traffic striping sampled during our survey would not be classified as California or Federal hazardous waste based on lead content if stripped, blasted, or otherwise separated from the substrate.

We recommend that all paints at the project location (graffiti, graffiti abatement, signage, etc.) be treated as lead-containing for purposes of determining the applicability of the Cal/OSHA lead standard during any future maintenance, renovation, and demolition activities. This recommendation is based on LCP sample results and the fact that lead was a common ingredient of paints manufactured before 1978 and is still an ingredient of some paints. In accordance with Title 8, CCR, Section 1532.1(p), written notification to the nearest Cal/OSHA district office is required at least 24 hours prior to certain lead-related work. Compliance and training requirements regarding construction activities where workers may be exposed to lead are presented in Title 8, CCR, Section 1532.1, subsections (e) and (l), respectively. Contractors are responsible for segregating and characterizing waste streams prior to disposal.

6.0 REPORT LIMITATIONS

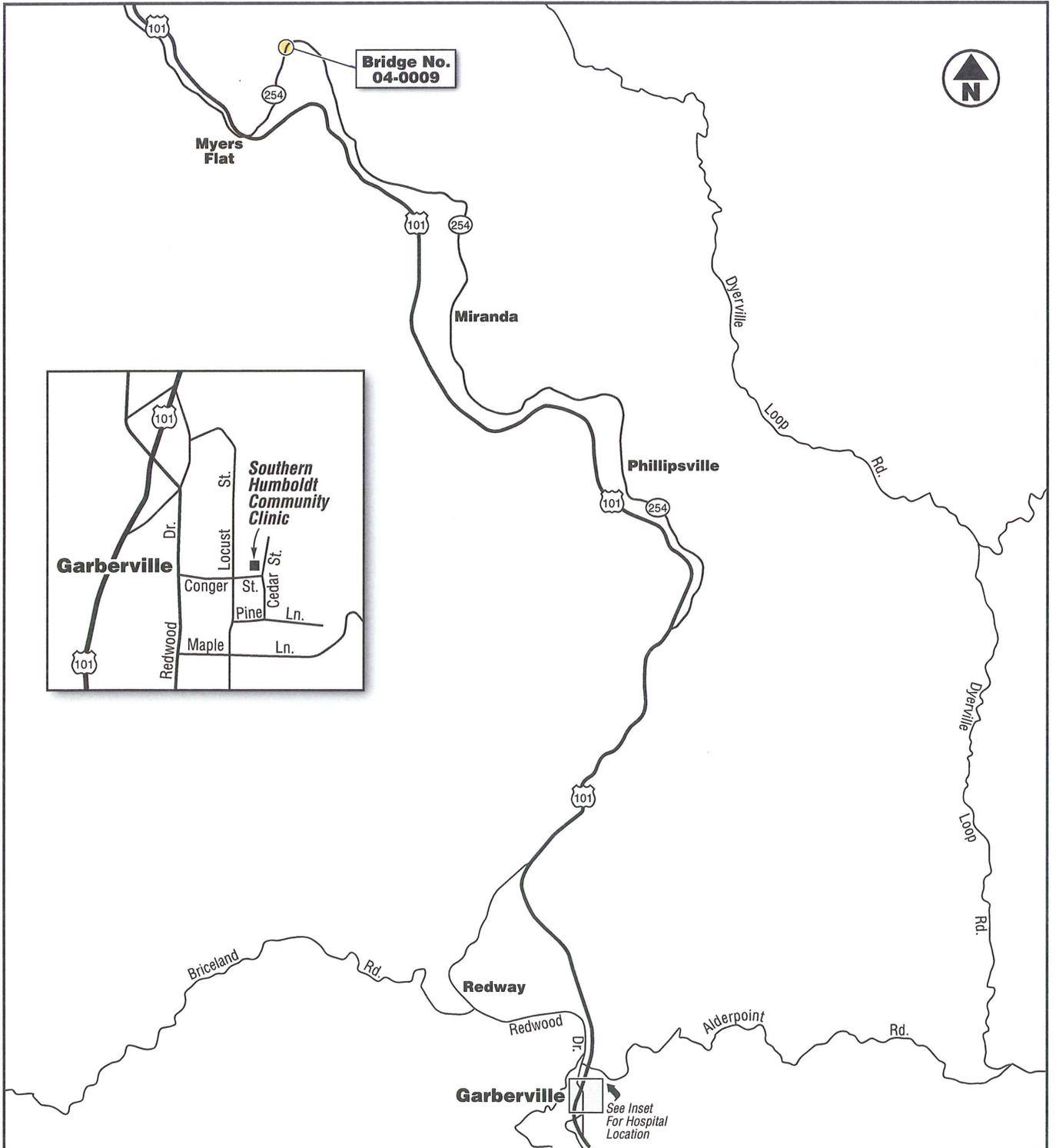
The asbestos and LCP survey was conducted in conformance with generally accepted standards of practice for identifying and evaluating asbestos and LCP in structures. The survey addressed only the structure identified in Section 1.1. Due to the nature of structure surveys, asbestos and LCP use, and laboratory analytical limitations, some ACM or LCP at the project location may not have been identified. Spaces such as cavities, voids, crawlspaces, and pipe chases may have been concealed to our investigator. Previous renovation work may have concealed or covered spaces or materials or may have partially demolished materials and left debris in inaccessible areas. Additionally, renovation activities may have partially replaced ACM with indistinguishable non-ACM. Asbestos and/or LCP may exist in areas of the structure that were not accessible or sampled in conjunction with this TO.

During renovation or demolition operations, suspect materials may be uncovered which are different from those accessible for sampling during this assessment. Personnel in charge of renovation/demolition should be alerted to note materials uncovered during such activities that differ substantially from those included in this or previous assessment reports. If suspect ACM and/or LCP are found, additional sampling and analysis should be performed to determine if the materials contain asbestos or lead.

This report has been prepared exclusively for Caltrans. The information contained herein is only valid as of the date of the report and will require an update to reflect additional information obtained.

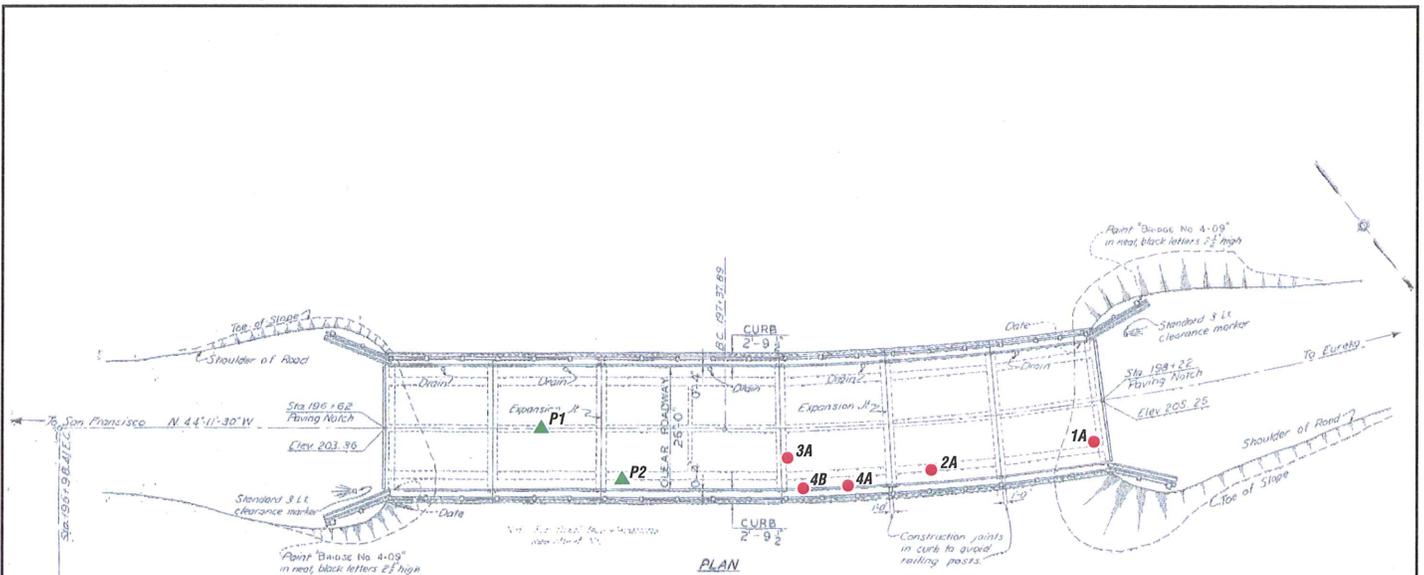
This report is not a comprehensive site characterization and should not be construed as such. The findings as presented in this report are predicated on the results of the limited sampling and laboratory testing performed. In addition, the information obtained is not intended to address potential impacts related to sources other than those specified herein. Therefore, the report should be deemed conclusive with respect to only the information obtained. We make no warranty, express or implied, with respect to the content of this report or any subsequent reports, correspondence or consultation. Geocon strived to perform the services summarized herein in accordance with the local standard of care in the geographic region at the time the services were rendered.

The contents of this report reflect the views of the author who is responsible for the facts and accuracy of the data presented herein. The contents do not necessarily reflect the official views or policies of the State of California or the Federal Highway Administration. This report does not constitute a standard, specification, or regulation.




GEOCON
 CONSULTANTS, INC.
 3160 GOLD VALLEY DR. - SUITE 800 - RANCHO CORDOVA, CA. 95742
 PHONE 916 852-9118 - FAX 916 852-9132

Bridge Creek Bridge (04-0009)		
Humboldt County, California		VICINITY MAP
GEOCON Proj. No. S9300-06-141		
Task Order No. 141, EA 01-430600	September 2010	Figure 1



LEGEND:

- Approximate Asbestos Sample Location
- ▲ Approximate Paint Sample Location

 GEOCON CONSULTANTS, INC. <small>3160 GOLD VALLEY DR. - SUITE 800 - RANCHO CORDOVA, CA. 95742 PHONE 916 852-9118 - FAX 916 852-9132</small>		
Bridge Creek Bridge (04-0009)		
Humboldt County, California		SITE PLAN
GEOCON Proj. No. S9300-06-141		
Task Order No. 141, EA 01-430600	September 2010	Figure 2



Photo 1 – Bridge deck



Photo 2 – Abutment and piers



Photo 3 – Expansion joint



GEOCON
CONSULTANTS, INC.

3100 GOLD VALLEY DR - SUITE 800 - RANCHO CORDOVA, CA 95742
PHONE 916.852.9118 - FAX 916.852.9132

PHOTOGRAPHS 1, 2, & 3

Bridge Creek Bridge (04-0009)
Humboldt County, California

S9300-06-141

Task Order No. 141

September 2010

TABLE 1
SUMMARY OF ASBESTOS ANALYTICAL RESULTS
BRIDGE CREEK BRIDGE (04-0009)
CALTRANS CONTRACT 03A1638, TASK ORDER NO. 141, EA 01-430600
HUMBOLDT COUNTY, CALIFORNIA
Polarized Light Microscopy (PLM) - EPA Test Method 600/R-93/116

Sample No.	Description of Material	Approximate Quantity	Friable	Site Photo	Asbestos Content
0009-1A	Concrete (abutments)	NA	NA	2	ND
0009-2A	Concrete (deck)	NA	NA	1	ND
0009-3A	Concrete (piers)	NA	NA	2	ND
0009-4A and B	Expansion joint fill material	NA	NA	3	ND

Notes:

NA = Not applicable (no asbestos detected)
ND = Not detected

TABLE 2
SUMMARY OF PAINT ANALYTICAL RESULTS - TOTAL AND SOLUBLE LEAD
BRIDGE CREEK BRIDGE (04-0009)
CALTRANS CONTRACT 03A1638, TASK ORDER NO. 141, EA 01-430600
HUMBOLDT COUNTY, CALIFORNIA

Paint Sample No.	Paint Description	Approximate Quantity Peeling/Flaking	Site Photos	Total Lead (mg/kg)	WET Lead (mg/l)
0009-P1	Yellow traffic striping	Intact	1	640	1.2
0009-P2	White traffic striping	Intact	1	8.9	---

Notes:

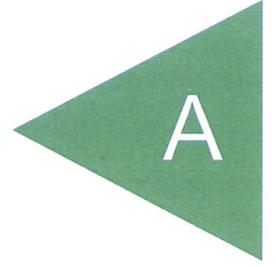
mg/kg = milligrams per kilogram (EPA Test Method 6010)

WET = Waste Extraction Test (EPA Test Method 7420)

mg/l = milligrams per liter

--- = Not analyzed

APPENDIX





EMSL Analytical, Inc

2235 Polvorosa Ave , Suite 230, San Leandro, CA 94577

Phone: (510) 895-3675 Fax: (510) 895-3680 Email: milpitaslab@emsl.com

Attn: **David Watts**
Geocon Consultants
6671 Brisa Street
Livermore, CA 94550

Customer ID: GECN21
Customer PO: S9300-06-141
Received: 08/07/10 9:30 AM
EMSL Order: 091007042

Fax: (925) 371-5915 Phone: (925) 371-5900
Project: 04-0009 / S9300-06-141

EMSL Proj: S9300-06-**
Analysis Date: 8/12/2010

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
0009-1A-Concrete 091007042-0001	Abutment	Gray Non-Fibrous Heterogeneous		100% Non-fibrous (other)	None Detected
0009-2A-Concrete 091007042-0002	Deck	Gray Non-Fibrous Heterogeneous		100% Non-fibrous (other)	None Detected
0009-3A-Concrete 091007042-0003	Pier	Gray Non-Fibrous Heterogeneous		100% Non-fibrous (other)	None Detected
0009-4A- Expansion joint 091007042-0004	Expansion joint	Black Non-Fibrous Heterogeneous		100% Non-fibrous (other)	None Detected
0009-4B- Expansion joint 091007042-0005	Expansion joint	Black Non-Fibrous Heterogeneous		100% Non-fibrous (other)	None Detected

Initial report from 08/12/2010 11:43:21

Analyst(s)

Rui Cindy Geng (5)

Baojia Ke, Laboratory Manager
or other approved signatory

Due to magnification limitations inherent in PLM, asbestos fibers in dimensions below the resolution capability of PLM may not be detected. Samples reported as <1% or none detected may require additional testing by TEM to confirm asbestos quantities. The above test report relates only to the items tested and may not be reproduced in any form without the express written approval of EMSL Analytical, Inc. EMSL's liability is limited to the cost of analysis. EMSL bears no responsibility for sample collection activities or analytical method limitations. Interpretation and use of test results are the responsibility of the client. Samples received in good condition unless otherwise noted.

Samples analyzed by EMSL Analytical, Inc 2235 Polvorosa Ave , Suite 230, San Leandro CA NVLAP Lab Code 101048-3, MA AA000201, WA C2007



EMSL ANALYTICAL, INC.
LABORATORY PRODUCTS TRAINING

Asbestos Chain of Custody EMSL Order Number (Lab Use Only):

091007042

EMSL ANALYTICAL, INC.
2235 POLVOROSA DR., STE. 230
SAN LEANDRO, CA 94577
PHONE: (510) 895-3675
FAX: (510) 895-3680

Company: <u>GEDCON</u>		EMSL-Bill to: <input checked="" type="checkbox"/> Same <input type="checkbox"/> Different If Bill to is Different note Instructions in Comments**	
Street: <u>6671 BRISA ST</u>		Third Party Billing requires written authorization from third party	
City: <u>Livermore</u>	State/Province: <u>CA</u>	Zip/Postal Code: <u>94550</u>	Country: <u>USA</u>
Report To (Name): <u>D. WATT</u>		Fax #: <u>925-371-5915</u>	
Telephone #: <u>925-371-5900</u>		Email Address: <u>WATT@GEDCON/VC.COM</u>	
Project Name/Number: <u>04-0009</u>		<u>59300-06-141</u>	
Please Provide Results: <input type="checkbox"/> Fax <input checked="" type="checkbox"/> Email		Purchase Order: _____ U.S. State Samples Taken: _____	

Turnaround Time (TAT) Options* - Please Check

3 Hour 6 Hour 24 Hour 48 Hour 72 Hour 96 Hour 1 Week 2 Week

*For TEM Air 3 hours/6 hours, please call ahead to schedule. *There is a premium charge for 3 Hour TEM AHERA or EPA Level II TAT. You will be asked to sign an authorization form for this service. Analysis completed in accordance with EMSL's Terms and Conditions located in the Analytical Price Guide.

PCM - Air <input type="checkbox"/> NIOSH 7400 <input type="checkbox"/> w/ OSHA 8hr. TWA PLM - Bulk (reporting limit) <input checked="" type="checkbox"/> PLM EPA 800/R-93/116 (<1%) <input type="checkbox"/> PLM EPA NOB (<1%) Point Count <input type="checkbox"/> 400 (<0.25%) <input type="checkbox"/> 1000 (<0.1%) Point Count w/Gravimetric <input type="checkbox"/> 400 (<0.25%) <input type="checkbox"/> 1000 (<0.1%) <input type="checkbox"/> NYS 198.1 (friable in NY) <input type="checkbox"/> NYS 198.6 NOB (non-friable-NY) <input type="checkbox"/> NIOSH 9002 (<1%)	TEM - Air <input type="checkbox"/> 4-4.5hr TAT (AHERA only) <input type="checkbox"/> AHERA 40 CFR, Part 763 <input type="checkbox"/> NIOSH 7402 <input type="checkbox"/> EPA Level II <input type="checkbox"/> ISO 10312 TEM - Bulk <input type="checkbox"/> TEM EPA NOB <input type="checkbox"/> NYS NOB 198.4 (non-friable-NY) <input type="checkbox"/> Chatfield SOP <input type="checkbox"/> TEM Mass Analysis-EPA 600 sec. 2.5 TEM - Water: EPA 100.2 Fibers >10µm <input type="checkbox"/> Waste <input type="checkbox"/> Drinking All Fiber Sizes <input type="checkbox"/> Waste <input type="checkbox"/> Drinking	TEM- Dust <input type="checkbox"/> Microvac - ASTM D 5755 <input type="checkbox"/> Wipe - ASTM D6480 <input type="checkbox"/> Carpet Sonication (EPA 600/J-93/167) Soil/Rock/Vermiculite <input type="checkbox"/> PLM CARB 435 - A (0.25% sensitivity) <input type="checkbox"/> PLM CARB 435 - B (0.1% sensitivity) <input type="checkbox"/> TEM CARB 435 - B (0.1% sensitivity) <input type="checkbox"/> TEM CARB 435 - C (0.01% sensitivity) <input type="checkbox"/> EPA Protocol (Semi-Quantitative) <input type="checkbox"/> EPA Protocol (Quantitative) Other: <input type="checkbox"/>
---	--	--

Check For Positive Stop - Clearly Identify Homogenous Group

Samplers Name: D. WATT Samplers Signature: [Signature]

Sample #	Sample Description	Volume/Area (Air) HA # (Bulk)	Date/Time Sampled
0009-1A	CONCRETE (ABUTMENT)	NA	2 Aug 2010
-2A	(DECK)	↓	↓
-3A	(PIPE)	↓	↓
-4A/4B	EXPANSION JOINT FILL MAT'L	↓	↓

Client Sample # (s): _____ Total # of Samples: 5

Relinquished (Client): [Signature] Date: 8/5/10 Time: 1700

Received (Lab): [Signature] Date: 8/17/10 Time: 1700

Comments/Special Instructions: 0936 OPS

August 27, 2010



Dave Watts
Geocon Consultants, Inc.
6671 Brisa Street
Livermore, CA 94550
TEL: (925) 371-5900
FAX: (925) 371-5915

ELAP No.: 1838
NELAP No.: 02107CA
NEVADA.: CA-401
CSDLAC No.: 10196

Workorder No.: 113145

RE: 04-0009, S9300-06-141

Attention: Dave Watts

Enclosed are the results for sample(s) received on August 09, 2010 by Advanced Technology Laboratories . The sample(s) are tested for the parameters as indicated in the enclosed chain of custody in accordance with the applicable laboratory certifications.

Thank you for the opportunity to service the needs of your company.

Please feel free to call me at (562)989-4045 if I can be of further assistance to your company.

Sincerely,


Eddie F. Rodriguez
Laboratory Director

The cover letter and the case narrative are an integral part of this analytical report and cannot be reproduced in part or in its entirety without written permission from the client and Advanced Technology Laboratories.



Advanced Technology
Laboratories

3275 Walnut Avenue Signal Hill, CA 90755 Tel: 562 989-4045 Fax: 562 989-4040

CLIENT: Geocon Consultants, Inc.
Project: 04-0009, S9300-06-141
Lab Order: 113145

CASE NARRATIVE

Analytical Comments for Method 6010

Dilution was necessary for sample 113145-001A, due to sample matrix.

RPD for Duplicate (DUP) is outside criteria for sample 113145-001ADUP; however, the Laboratory Control Sample (LCS) validated the analytical batch.

Analytical Comments for Method 7420

Dilution was necessary for sample 113145-008A, due to sample matrix.



Advanced Technology Laboratories

ANALYTICAL RESULTS

Print Date: 27-Aug-10

CLIENT: Geocon Consultants, Inc.
Project: 04-0009, S9300-06-141

Lab Order: 113145

Lab ID: 113145-001

Collection Date: 8/2/2010

Client Sample ID: 0009-P1

Matrix: PAINT

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
----------	--------	-----	------	-------	----	---------------

ICP METALS

EPA 3050B

EPA 6010B

RunID: ICP8_100811B	QC Batch: 66173				PrepDate: 8/10/2010	Analyst: SRB
Lead	640	4.0		mg/Kg	2	8/11/2010 01:44 PM

LEAD BY ATOMIC ABSORPTION (STLC)

WET

WET/ EPA 7420

RunID: AA2_100818B	QC Batch: 66283				PrepDate: 8/16/2010	Analyst: IL
Lead	1.2	0.25		mg/L	1	8/18/2010 10:12 AM

Lab ID: 113145-002

Collection Date: 8/2/2010

Client Sample ID: 0009-P2

Matrix: PAINT

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
----------	--------	-----	------	-------	----	---------------

ICP METALS

EPA 3050B

EPA 6010B

RunID: ICP8_100811A	QC Batch: 66174				PrepDate: 8/10/2010	Analyst: SRB
Lead	8.9	2.0		mg/Kg	1	8/11/2010 11:37 AM

Qualifiers:	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
	DO	Surrogate Diluted Out		



*Advanced Technology
Laboratories*

3275 Walnut Avenue, Signal Hill, CA 90755 Tel: 562.989.4045 Fax: 562.989.4040

CHAIN OF CUSTODY RECORD

1 of 1

FOR LABORATORY USE ONLY:

1. CHILLED 2. SEALED 3. CONTAINER INTACT 4. PRESERVED 5. # OF SPLS MATCH COC 6. Y N C

Method of Transport: Client ATL CA OverN FEDEX Other: UPS

P.O.#: _____ Date: 8/9/00

Logged By: _____

TEL: (925) 371-5900 FAX: (925) 371-5915

Client: GECON Address: 6671 BRISA ST. City: LIVERMORE State: CA Zip Code: 94550

Project Name: 04-0009 Project #: 99300-06-141 Sampler: P. WATTS

Relinquished by: (Signature and Printed Name) [Signature] Date: 5/26/00 Time: 17:00

Relinquished by: (Signature and Printed Name) [Signature] Date: 5/19/00 Time: 9:35

Relinquished by: (Signature and Printed Name) _____ Date: _____ Time: _____

Special Instructions/Comments: Do NOT composite SAMPLE SETS

*pH (0009-03-0 + 0009-B6-1)

Bill To: _____ City: _____ State: _____ Zip: _____

Alt: _____

Co: SEE "CLIENT"

Address: _____

City: _____ State: _____ Zip: _____

Sample/Records - Archival & Disposal
 Unless otherwise requested by client, all samples will be disposed 45 days after receipt and records will be disposed 1 year after submittal of final report.
 Storage Fees (applies when storage is requested):
 - Sample : \$2.00 / sample / mo (after 45 days)
 - Records : \$1.00 / ATL workorder / mo (after 1 year)

LAB USE ONLY:	Sample Description	Sample I.D. / Location	Date	Time
Batch #:				
Lab No.:				
		<u>0009-01</u>	<u>8/2/00</u>	<u>1251</u>
		<u>4-02</u>		<u>1256</u>

Q	A	Q	C	Q	C
RTIME	<input type="checkbox"/>	CT	<input checked="" type="checkbox"/>	SWRCB	<input type="checkbox"/>
Logcode		OTHER		REMARKS	
SPECIFY APPROPRIATE MATRIX					
SOIL		WATER		CONTAINER(S)	
GROUND WATER		WASTEWATER		#	Type
				<u>1</u>	<u>1</u>
				<u>1</u>	<u>1</u>

Diane Galvan

From: David Watts [watts@geoconinc.com]
Sent: Tuesday, August 10, 2010 9:33 AM
To: Diane Galvan
Subject: S9300-06-141 & E8415-06-103

(Humboldt – Del Norte and Eureka PV surveys)

For lead (soil and paint) analyses on these jobs:

Please run TCLPs on samples that fail TTLC (1000 ppm or greater).
Please run WETs on samples with a TTLC between 50 and 999 ppm.
Please run TCLPs on samples that fail WET that also have a TTLC of 100 ppm or greater.
Standard TATs.

Thanks.

David Watts
Senior Project Scientist
Please visit our website at <http://www.geoconinc.com>

GEOCON Consultants, Inc.
6671 Brisa Street
Livermore, CA 94550
925-371-5900 (office)
925-371-5915 (fax)
925-785-5340 (mobile)
watts@geoconinc.com

GEOTECHNICAL - ENVIRONMENTAL - MATERIALS

San Diego Murrieta Burbank Bakersfield Fresno Sacramento Rocklin Fairfield Livermore Carson City Portland

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