

LEHR: CERCLA Document Approvals from the Regulatory Agencies

Area	Document	US EPA	DTSC	DHS-RHB	RWQCB
DOE Disposal Box	EE/CA				
	AM				
	WP				
	CR				
SWT, Ra/Sr, DSSs	EE/CA	4/16/1998 ¹	4/16/1998 ¹	4/16/1998 ¹	4/16/1998 ¹
	AM	4/16/1998 ¹	4/16/1998 ¹	4/16/1998 ¹	4/16/1998 ¹
	WP - SWT	10/23/1998 ²	10/23/1998 ²	10/23/1998 ²	10/23/1998 ²
	WP - Ra/Sr				
	WP - DSSs	8/14/2001 ³	8/21/2001 ³	8/14/2001 ³	8/14/2001 ³
	CR - SWT				
	CR - Ra/Sr				6/11/2002
	CR - DSSs		4/9/2003	11/20/2002	12/5/2002
DSSs 3 & 6	AM				
	WP	4/30/2002	5/7/2002		4/30/2002
WDPs	EE/CA	2/23/2001	2/22/2001	2/13/2001	2/16/2001
	AM	2/23/2001	5/3/2001	2/28/2001	
	WP	5/30/2001			
	CR		4/16/2002		
LEHR	RI	8/18/2003	8/8/2003	4/29/2003	5/15/2003 ⁴
	RC	9/21/2005	9/16/2005	8/31/2005	9/13/2005

Notes

General - Letters are filed in chronological order following this index.

¹ Letter from EPA covers EE/CA and AM, and documents agreement by all agencies.

² Letter from EPA documents agreement by all agencies.

³ Verbal approvals documented in the final minutes for the August 14, 2001 Remedial Project Managers meeting (see Document #120).

⁴ Approval on responses to other agencies' comments was provided via e-mail on August 14, 2003.

Abbreviations

AM	action memorandum
CR	confirmation report
DHS	(California) Department of Health Services - Radiologic Health Branch
DOE	(United States) Department of Energy
DSSs	Domestic Septic Systems
DTSC	(California) Department of Toxic Substances Control
EE/CA	engineering evaluation/cost analysis
LEHR	Laboratory for Energy-Related Health Research
Ra/Sr	Radium/Strontium (Treatment Systems Areas)
RC	risk characterization
RI	remedial investigation
RWQCB	(Central Valley) Regional Water Quality Control Board
SWT	Southwest Trenches
US EPA	United States Environmental Protection Agency
WDPs	Western Dog Pens
WP	work plan



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION 9

75 Hawthorne Street
San Francisco, CA 94105-3901

April 16, 1998

Susan Fields
U.S. Department of Energy
Environmental Restoration Division
1301 Clay Street
Oakland, CA 94612-5208

Re: Approval of Draft Final Engineering Evaluation/Cost Analysis for the Southwest
Trenches, Radium-226/Strontium-90 Treatment Systems, and Domestic Septic System
Areas
LEHR Superfund Site

Dear Ms. Fields:

Thank you for your submittal of the subject document dated January 20, 1998, as amended on March 23, 1998. The document has been reviewed by EPA and the following agencies of the State of California: the Department of Toxic Substances Control, the Central Valley Regional Water Quality Control Board, and the Radiological Assessment Unit of the Department of Health Services. We approve the document and concur with the draft Action Memorandum dated March 23, 1998.

If you have any questions about the above, please call me at (415) 744-2254.

Sincerely,

Kathy Setian

Kathy Setian
Remedial Project Manager

cc: Duncan Austin, DTSC
Susan Timm, RWQCB
Lisa Brown, DHS
Bob Devany, Weiss Associates

LEHR
RECEIVED

4/20/98

WA0-587

RECORD COPY
PROJECT: 17823
CAT. T3.9.2.5



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION 9

75 Hawthorne Street
San Francisco, CA 94105-3901

BY FACSIMILE AND REGULAR MAIL (510) 637-2078

October 23, 1998

Susan Fields
U.S. Department of Energy
Environmental Restoration Division
1301 Clay Street
Oakland, CA 94612-5208

Re: Partial Approval of Removal Action Workplan for Southwest Trenches, Ra/Sr Treatment System, and Domestic Septic Tank Areas
LEHR Superfund Site

Dear Ms. Fields:

Thank you for your transmittal of the Removal Action Workplan text changes in response to regulatory agency comments on the draft version of this document. The text changes, as transmitted on June 24, 1998, have been reviewed by the U. S. EPA and by the following agencies of the State of California: the Department of Toxic Substances Control, the Central Valley Regional Water Quality Control Board, and the Radiologic Health Branch of the Department of Health Services.

The purpose of this letter is to give final approval of the document with respect to the area of the southwest trenches, where the removal action is scheduled to be completed this calendar year. We would like to review a more detailed schedule for the radium/strontium treatment system, and we would like to review the results of additional data collected for the domestic septic tanks, before providing final workplan approval for these areas. By providing our approval for one area at a time, we hope that lessons learned during the first phase of the removal action can be incorporated into plans for conducting the removal in subsequent areas, as appropriate.

If you have any questions about the above, please call Kathy Setian at (415) 744-2254.

Sincerely,

A handwritten signature in cursive script that reads "Kathy Setian".

Kathy Setian
Remedial Project Manager

cc: Duncan Austin, DTSC
Susan Timm, RWQCB
Lisa Brown, DHS - RHB
Bob Devany, Weiss Associates
Brian Oatman, UC Davis
Julie Roth, DSCSOC
G. Fred Lee

DEPARTMENT OF HEALTH SERVICES**RADIOLOGIC HEALTH BRANCH**

J. BOX 942732, MS-178
SACRAMENTO, CA 94234-7320
(916) 445-0931



February 13, 2001

Mr. Rich Fallejo
LEHR Project Manager
Department of Energy
1301 Clay Street #700N
Oakland, CA 94612-5208

Re: Engineering Evaluation/Cost Analysis for the Western and Eastern Dog Pens,
Revision E, Laboratory for Energy-Related Health Research

Dear Mr. Fallejo:

Thank you for the opportunity to review the Draft Final Engineering Evaluation/Cost Analysis (EE/CA) Report for the Western and Eastern Dog Pens, Revision E, dated November 30, 2000. We have no further comments and agree that this EE/CA be finalized.

Please contact Sudana Kwok at (916) 445-7039 for any questions you may have.

Sincerely,

A handwritten signature in cursive script, appearing to read "David Wesley".

David Wesley, C.H.P., Chief
Radioactive Material Licensing Section
Radiologic Health Branch

Cc: CatherineC. Luu, DOE/OAK
Stephen Ross, DTSC
Brian Oatman, UCD
Julie Roth, DSCSOC
Kathy Setian, USEPA
Susan Timm, CVRWQCB



ston H. Hickox
Secretary for
Environmental
Protection

California Regional Water Quality Control Board

Central Valley Region

Robert Schneider, Chair



Gray Davis
Governor

Sacramento Main Office

Internet Address: <http://www.swrcb.ca.gov/rwqcb5>
3443 Routier Road, Suite A, Sacramento, California 95827-3003
Phone (916) 255-3000 • FAX (916) 255-3015

16 February 2001

Mr. Rich Fallejo
U.S. Department of Energy
1301 Clay Street, Room 700N
Oakland, CA 94612-5208

DRAFT FINAL ENGINEERING EVALUATION/COST ANALYSIS FOR THE WESTERN AND EASTERN DOG PENS, LABORATORY FOR ENERGY-RELATED HEALTH RESEARCH, U.S. DEPARTMENT OF ENERGY, SOLANO COUNTY

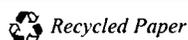
We have reviewed the 30 November 2000 *Draft Final Engineering Evaluation/Cost Analyses for the Western and Eastern Dog Pens (EE/CA)*. The Department of Energy adequately addressed our comments on the draft EE/CA. We have no further comments and hereby approve the EE/CA.

If you have any questions, you may contact me at (916) 255-3057.

SUSAN TIMM
Remedial Project Manager

cc: Ms. Kathy Setian, U.S. Environmental Protection Agency, San Francisco
Mr. Steve Ross, Department of Toxic Substances Control, Sacramento
Ms. Sudana Kwok, Department of Health Services, Radiological Branch, Sacramento
Mr. Brian Oatman, University of California, Davis
Ms. Mary Rust, DSCSOC, Davis
Ms. Julie Roth, DSCSOC, Davis
Dr. G. Fred Lee, El Macero, CA

California Environmental Protection Agency





Department of Toxic Substances Control



Winston H. Hickox
Agency Secretary
California Environmental
Protection Agency

Edwin F. Lowry, Director
10151 Croydon Way, Suite 3
Sacramento, California 95827-2106

Gray Davis
Governor

February 22, 2001

Mr. Rich Fallejo
U.S. Department of Energy
Oakland Operations Office
1301 Clay Street, Room 700N
Oakland, California 94612-5208

DRAFT FINAL ENGINEERING EVALUATION/COST ANALYSIS FOR THE
WESTERN AND EASTERN DOG PENS, LABORATORY FOR ENERGY-RELATED
HEALTH RESEARCH, UNIVERSITY OF CALIFORNIA, DAVIS

Dear Mr. Fallejo:

The Department of Toxic Substances Control (DTSC) has completed review of the November 30, 2000, Draft Final Engineering Evaluation/Cost Analysis for the Western and Eastern Dog Pens (EE/CA). Based on this review, all of DTSC's comments on the Draft EE/CA were adequately addressed. Thank you for the opportunity to review these documents.

If you have any questions, please contact me at (916) 255-3694.

Sincerely,

Steven Ross
Hazardous Substances Scientist
National Priorities List Unit

cc: See next page.

Mr. Rich Fallejo
February 22, 2001
Page 2

cc: Ms. Kathy Setian
U.S. EPA, Region IX
75 Hawthorne, SDF-7-2
San Francisco, California 94105

Ms. Susan Timm
Regional Water Quality Control Board
Central Valley Region
10365 Old Placerville Road, Suite 210
Sacramento, California 95827-2518

Ms. Sudana Kwok
Associate Health Physicist
Department of Health Services
Radiologic Health Branch
P.O. Box 94234-7320, MS 178
Sacramento, California 94234-7320

Mr. Brian Oatman, Manager
Environmental Protection
University of California, Davis
Environmental Health and Safety
One Shields Drive
Davis, California 95616-8586

Mr. Robert Devany
Senior Project Manager
Weiss Associates
5801 Christie Avenue, Suite 600
Emeryville, California 94608-1827

Ms. Julie Roth
DSCSOC
Route 2, Box 2879 Old Davis Road
Davis, California 95616

Mr. G. Fred Lee
G. Fred Lee & Associates
27298 East El Macero Drive
El Macero, California 95618-1005



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION 9

75 Hawthorne Street
San Francisco, CA 94105-3901

BY FACSIMILE AND REGULAR MAIL (510) 637-2078

February 23, 2001

Rich Fallejo
U.S. Department of Energy
Environmental Restoration Division
1301 Clay Street
Oakland, CA 94612-5208

Re: Approval of Final EE/CA and Draft Action Memorandum for Western and Eastern Dog
Pens
LEHR/SCDS Superfund Site

Dear Mr. Fallejo:

Thank you for your submittal of the subject documents. EPA discussed our few comments with you in our conference call on February 23. Primarily, on the top of page 6-3, edit the wording to say that the period of performance for this RA is limited to the period until the final ROD is signed. EPA approves of both documents.

If you have any questions about the above, please call me at (415) 744-2254.

Sincerely,

A handwritten signature in cursive script that reads "Kathy Setian".

Kathy Setian
Remedial Project Manager

cc: Steve Ross, DTSC
Susan Timm, RWQCB
Bob Devany, Weiss Associates
Brian Oatman, UC Davis
Julie Roth, DSCSOC
G. Fred Lee

DEPARTMENT OF HEALTH SERVICES**RADIOLOGIC HEALTH BRANCH**

PO BOX 942732, MS-178
SACRAMENTO, CA 94234-7320
(916) 445-0931



February 28, 2001

Mr. Rich Fallejo
LEHR Project Manager
Department of Energy
1301 Clay Street #700N
Oakland, CA 94612-5208

Re: Draft Action Memorandum for the Western and Eastern Dog Pens, at the
Laboratory for Energy-Related Health Research, Revision B

Dear Mr. Fallejo:

Thank you for the opportunity to review the Draft Action Memorandum for the Western and Eastern Dog Pens, Revision B, dated February 6, 2001. All DHS concerns have been addressed adequately and we have no further comments.

Please contact Sudana Kwok at (916) 445-7039 for any questions you may have.

Sincerely,

A handwritten signature in cursive script that reads "David Wesley".

David Wesley, C.H.P. Chief
Radioactive Material Licensing Section
Radiologic Health Branch

Cc: CatherineC. Luu, DOE/OAK
Stephen Ross, DTSC
Brian Oatman, UCD
Julie Roth, DSCSOC
Kathy Setian, USEPA
Susan Timm, CVRWQCB
Bob Devany, WEISS Associates



Department of Toxic Substances Control



Edwin F. Lowry, Director
10151 Croydon Way, Suite 3
Sacramento, California 95827-2106

Gray Davis
Governor

Winston H. Hickox
Agency Secretary
California Environmental
Protection Agency
May 3, 2001

Mr. Rich Fallejo
U.S. Department of Energy
Oakland Operations Office
1301 Clay Street, Room 700N
Oakland, California 94612-5208

FINAL ACTION MEMORANDUM FOR THE WESTERN AND EASTERN DOG PENS,
LABORATORY FOR ENERGY-RELATED HEALTH RESEARCH (LEHR), UNIVERSITY OF
CALIFORNIA, DAVIS

Dear Mr. Fallejo:

The Department of Toxic Substances Control (DTSC) has reviewed the April 6, 2001 Final Action Memorandum for the Western and Eastern Dog Pens documenting the approval of the proposed non-time critical removal action for the former LEHR Federal facility located at the University of California, Davis (UC Davis). This document was revised in response to various agency comments on the February 6, 2001 draft action memorandum. The removal action will address removal of gravel, asphalt, and concrete potentially impacted with radium-226, strontium-90, and chlordane in the area of the Western Dog Pens. The removal action selected for the Eastern Dog Pens is administrative and physical controls to restrict access with periodic monitoring and site maintenance. Future remediation of the Eastern Dog Pens and underlying landfill will be left until implementation of a Record of Decision and contingent upon an agreement between Department of Energy and UC Davis.

DTSC considers the Final Action Memorandum for the Western and Eastern Dog Pens complete and concurs with the non-time critical removal action. If you have any questions, please contact me at (916) 255-3690.

Sincerely,

Richard Hume, Chief
National Priorities List Unit

cc: See next page

The energy challenge facing California is real. Every Californian needs to take immediate action to reduce energy consumption. For a list of simple ways you can reduce demand and cut your energy costs, see our Web-site at www.dtsc.ca.gov.

Mr. Rich Fallejo
May 3, 2001
Page 2

cc: Ms. Kathy Setian
U.S. EPA
75 Hawthorne SDF-7-2
San Francisco, California 94105

Ms. Susan Timm
Regional Water Quality Control Board
3443 Routier Road, Suite A
Sacramento, California 95827

Mr. Brian Oatman
Manager, Environmental Protection
University of California, Davis
Environmental Health and Safety
One Shields Drive
Davis, California 95616-8586

Mr. Robert Devany
Senior Project Manager
Weiss Associates
5801 Christie Avenue, Suite 600
Emeryville, California 94608-1827

Ms. Julie Roth
DSCSOC
Route 2, Box 2879 Old Davis Road
Davis, California 95616

Mr. G. Fred Lee
G. Fred Lee & Associates
27298 E. El Macero Drive
El Macero, California 95618-1005

From: <Setian.Kathy@epamail.epa.gov>
To: <rich.fallejo@oak.doe.gov>
Date: 5/30/01 4:59PM
Subject: Approval of Dog Pens RA WP

Rich, I've reviewed DOE's responses to EPA's comments. The response to Question #1 refers to taking a cobble sample for confirmation. Could you clarify the sample procedure? Is it documented in an SOP? Otherwise, I approve the Work Plan.

Thanks,
Kathy Setian

CC: <Timms@rb5s.swrcb.ca.gov>, <Sross@dtsc.ca.gov>, <skwok@dhs.ca.gov>, <rod@weiss.com>



Department of Toxic Substances Control



Winston H. Hickox
Agency Secretary
California Environmental
Protection Agency

Edwin F. Lowry, Director
8800 Cal Center Drive
Sacramento, California 95826

Gray Davis
Governor

April 16, 2002

T39.3.2

Mr. Jeffrey Rivas
U.S. Department of Energy
Oakland Operations Office
1301 Clay Street, Room 700N
Oakland, California 94612-5208

CONDITIONAL APPROVAL OF DRAFT WESTERN DOG PENS CONFIRMATION
REPORT, LABORATORY FOR ENERGY-RELATED HEALTH RESEARCH,
UNIVERSITY OF CALIFORNIA, DAVIS, CALIFORNIA

Dear Mr. Rivas:

Thank you for providing the Department of Toxic Substances Control (DTSC) with the subject document dated February 14, 2002 for the Western Dog Pens Area Removal Action. DTSC has completed its review and conditionally approves this document provided information detailed in this enclosure is satisfactorily addressed and the University of California, Davis is aware of the potential for land use restrictions in the future.

If you have any questions, please contact me at (916) 255-3694.

Sincerely,

Steven Ross
Hazardous Substances Engineer
National Priorities List Unit

Enclosure

cc: See next page.

Mr. Jeffrey Rivas
April 16, 2002
Page 2

cc: Ms. Patti Collins
U.S. EPA
75 Hawthorne SDF-7-2
San Francisco, California 94105

Ms. Susan Timm
Regional Water Quality Control Board
3443 Routier Road, Suite A
Sacramento, California 95827

Mr. Stephen Pay
Health Physicist
Department of Health Services
Radiologic Health Branch
P.O. Box 94234-7320, MS 178
Sacramento, California 94234-7320

Mr. Brian Oatman, Manager
Environmental Protection
University of California, Davis
Environmental Health and Safety
One Shields Drive
Davis, California 95616-8586

Mr. Robert Devany
Senior Project Manager
Weiss Associates
5801 Christie Avenue, Suite 600
Emeryville, California 94608-1827

Ms. Julie Roth
DSCSOC
Route 2, Box 2879 Old Davis Road
Davis, California 95616

Mr. G. Fred Lee
G. Fred Lee & Associates
27298 E. El Macero Drive
El Macero, California 95618-1005

Draft Western Dog Pens Removal Action Confirmation Report

1. Editorial note regarding Section 6.2 on bottom of page 6-3. Sentence is incomplete.
2. Section 6. Total chlordane results in several samples in this area are above the 10^{-6} RBAS of 780 ug/kg for scenario 2 along the areas of Aisles 1-3. The concentration range in Table 6-3 indicates a maximum value of 1529 ug/kg. The data provided electronically include chlordane results in excess of the 1529 value in samples SSWDC029, SSWDC033, and SSWDC051. Information regarding chlordane data evaluation, effectiveness of analysis conducted through EPA SW846 Method 8081A versus CCLP ÖLM 3.1, quantitative versus qualitative uses, quantification of chlordane for risk assessment purposes, and the results of discussions with EPA for using chlordane analytical data to quantify risk assessment should be elaborated within the text in lieu of a footnote. Unrestricted land use scenario may indicate need for land use covenants in the future.
3. Consider including a footnote in Table 6-7 to clarify the groundwater MCL value of 50 ug/L is for total chromium.
4. Make appropriate revisions to Section 7.4, Removal Action Objective 4 - Mitigate Ecological Risk, consistent with agreed upon changes from the Ra/Sr Removal Action Confirmation Report.

From: <Collins.Patti@epamail.epa.gov>
To: Bob Devany <ROD@weiss.com>
Date: 4/30/02 7:37AM
Subject: Re: DSS 3/6 RA - Responses to RPM Comments - EPA concurrence

Please accept this email as concurrence on having satisfactorily addressed the EPA comments. Thank you for your attention to the issues.

Bob Devany
<ROD@weiss.com> To: Patti Collins/R9/USEPA/US@EPA
cc:
04/26/2002 06:49 Subject: Re: DSS 3/6 RA - Responses to RPM Comments
PM

Thanks.

>>> <Collins.Patti@epamail.epa.gov> 04/26/02 06:37PM >>>

I will provide a reply by April 30, sent to the alternate contacts.

Bob Devany
<ROD@weiss.com> To:
SPay@dhs.ca.gov, sross@dtsc.ca.gov, Patti
Collins/R9/USEPA/US@EPA,
Timms@rb5s.swrcb.ca.gov
04/26/2002 06:07 cc:
jeffrey.rivas@oak.doe.gov, Dolores Loll <ddl@weiss.com>,
PM Mike Dresen
<MDD@weiss.com>
Subject: DSS 3/6 RA -
Responses to RPM Comments

All,

We have received feedback from DTSC and DHS so far on the DOE responses to comments on the DSS 3/6 removal action work plan which were sent out on 4/19 by email.

We plan to mobilize on May 6 and your timely feedback is critical so that we can stay on schedule and meet our September FFA deadline.

I will be on vacation next week. In my absence, please direct your comments or question to either Mike Dresen (mdd@weiss.com) or Dolores Loll (ddl@weiss.com) at Weiss Associates or Jeff Rivas (jeffrey.rivas@oak.doe.gov) at DOE.

Thanks for your support.

-Bob

CC: <mdd@weiss.com>, <ddl@weiss.com>, <jeffrey.rivas@oak.doe.gov>

From: "Susan Timm" <TimmS@rb5s.swrcb.ca.gov>
To: <spay@dhs.ca.gov>, <sross@dtsc.ca.gov>, <Collins.Patti@epamail.epa.gov>, <ROD@weiss.com>
Date: 4/30/02 10:08AM
Subject: Re: DSS 3/6 RA Work Plan Responses to RPM Comments

I am OK with your responses to my comments on the DSS 3 and 6 RA WP except I am not sure if I understand your response to #12. It is not a deal breaker but I would like a clearer explanation. At your convenience.

>>> "Bob Devany" <ROD@weiss.com> 04/19/02 05:06PM >>>

All,

Attached are DOE's responses to regulatory comments of the Draft Domestic Septic Systems 3 and 6 Removal Actions Work Plan and Action Memorandum. As discussed at the April 11 RPM meeting, we request your concurrence on the attached responses by April 26. This will allow the removal action to start as scheduled on May 6.

Please call me or Catherine Luu of DOE if you have any questions or need clarification on the DOE responses. Thanks in advance for your support.

-Bob

CC: <Jay.tomlin@oak.doe.gov>, <jeffrey.rivas@oak.doe.gov>, <baoatman@ucdavis.edu>, "Dolores Loll" <ddl@weiss.com>, "LEHR Library" <lehrlibrary@weiss.com>



Department of Toxic Substances Control



Winston H. Hickox
Agency Secretary
California Environmental
Protection Agency

Edwin F. Lowry, Director
8800 Cal Center Drive
Sacramento, California 95826-3200

Gray Davis
Governor

May 7, 2002

Mr. Jeffrey Rivas
U.S. Department of Energy
Oakland Operations Office
1301 Clay Street, Room 700N
Oakland, California 94612-5208

DRAFT DOMESTIC SEPTIC SYSTEMS 3 AND 6 REMOVAL ACTIONS WORK PLAN,
LABORATORY FOR ENERGY-RELATED HEALTH RESEARCH (LEHR), UNIVERSITY
OF CALIFORNIA, DAVIS, CALIFORNIA

Dear Mr. Rivas:

The Department of Toxic Substances Control (DTSC) has completed review of the subject document dated May 3, 2002 for the LEHR site. This document was prepared based on comments sent on an earlier draft dated March 1, 2002.

DTSC concurs of the work proposed in the removal action work plan for domestic septic systems 3 and 6 and considers the document complete. Please proceed with implementing the removal action as dictated in the schedule.

If you have any questions, please contact me at (916) 255-3694.

Sincerely,

Steven Ross
Hazardous Substances Engineer
National Priorities List Unit

cc: Ms. Patti Collins
U.S. EPA
75 Hawthorne SDF-7-2
San Francisco, California 94105

*The energy challenge facing California is real. Every Californian needs to take immediate action to reduce energy consumption.
For a list of simple ways you can reduce demand and cut your energy costs, see our Web-site at www.dtsc.ca.gov.*

Mr. Jeffrey Rivas
May 7, 2002
Page 2

cc: Ms. Susan Timm
Regional Water Quality Control Board
3443 Routier Road, Suite A
Sacramento, California 95827

Mr. Stephen Pay
Department of Health Services
Radiologic Health Branch
P.O. Box 94234-7320, MS 178
Sacramento, California 94234-7320

Mr. Brian Oatman, Manager
Environmental Protection
University of California, Davis
Environmental Health and Safety
One Shields Drive
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Mr. Robert Devany
Senior Project Manager
Weiss Associates
5801 Christie Avenue, Suite 600
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Ms. Julie Roth
DSCSOC
Route 2, Box 2879 Old Davis Road
Davis, California 95616

Mr. G. Fred Lee
G. Fred Lee & Associates
27298 E. El Macero Drive
El Macero, California 95618-1005

From: "Susan Timm" <TimmS@rb5s.swrcb.ca.gov>
To: <rich.fallejo@Oak.doe.gov>
Date: 6/11/02 1:10PM
Subject: Re: FW: RWB comments to DOE responses for Ra/Sr Conf. Rpt

I concur with the responses from DOE to the RPMs' comments on the Ra/Sr Confirmation Report.

>>> "Fallejo, Rich" <rich.fallejo@Oak.doe.gov> 06/07/02 05:50AM >>>
Susan,

As a follow-up to our conversation this past week at the 6/4 RPM meeting, please provide a written response (email is fine) confirming your concurrence to DOE responses to RPM comments on the Ra/Sr Confirmation Report for our file. Thanks.

Rich

-----Original Message-----

From: Rivas, Jeffrey
Sent: Thursday, May 23, 2002 9:28 AM
To: Fallejo, Rich; Luu, Catherine
Cc: 'rod@weiss.com'
Subject: RWB comments to DOE responses for Ra/Sr Conf. Rpt

Rich, Cathy

Susan Timm called me (left message) this morning regarding DOE responses to RWB comments for Ra/Sr Confirmation Report. Susan mentioned that she concurred with the other regulators that DOE will need to address constituents of concern for the Ra/Sr Systems in the Remedial Investigation Report. Therefore, Susan has no further comments regarding Ra/Sr Confirmation Report, but that comments to the Remedial Investigation Report (by/on Tues, May 28) may affect the Ra/Sr Confirmation Report.

Jeff

CC: <jay.tomlin@Oak.doe.gov>, <ROD@weiss.com>

DEPARTMENT OF HEALTH SERVICES**RADIOLOGIC HEALTH BRANCH**

PO BOX 942732, MS-178

SACRAMENTO, CA 94234-7320

(916) 445-0931



November 20, 2002

Mr. Jay Tomlin
U. S. Department of Energy
Oakland Operations Office
1301 Clay Street, Room 700N
Oakland, California 94612-5208

Draft Domestic Septic Systems 3 and 6 Removal Action Report

Dear Mr. Tomlin:

The Department of Health Services has reviewed the subject document dated September 25, 2002 and concurs with the finding of the draft report. The Department does not have any specific comments in regards to the report at this time.

If you have any questions please contact me at (916) 445-4772

Sincerely,

A handwritten signature in black ink, appearing to read "S Pay".

Stephen Pay
Health Physicist
Radiologic Health Branch



Do your part to help California save energy. To learn more about saving energy, visit the following web site:

www.consumerenergycenter.org/flex/index.html



California Regional Water Quality Control Board

Central Valley Region

Robert Schneider, Chair



Gray Davis
Governor

V on H. Hickox
Secretary for
Environmental
Protection

Sacramento Main Office
Internet Address: <http://www.swrcb.ca.gov/rwqcb5>
3443 Routier Road, Suite A, Sacramento, California 95827-3003
Phone (916) 255-3000 • FAX (916) 255-3015

5 December 2002

Mr. Jay Tomlin
U.S. Department of Energy
Oakland Operations Office
1301 Clay Street, room 700N
Oakland, CA 94612-5208

DRAFT DOMESTIC SEPTIC SYSTEMS 3 AND 6 REMOVAL ACTIONS CONFIRMATION REPORT, LABORATORY FOR ENERGY-RELATED HEALTH RESEARCH, U.S. DEPARTMENT OF ENERGY, SOLANO COUNTY

We have reviewed the 25 September 2002 *Draft Domestic Septic Systems 3 and 6 Removal Actions Confirmation Report* submitted on your behalf by Weiss Associates. We have also received comments sent to you by the Department of Toxic Substances Control and the U.S. Environmental Protection Agency. We concur with their comments and have no further comments.

If you have any questions, you may call me at (916) 255-3057.

SUSAN TIMM
Remedial Project Manager

cc: Ms. Kathy Setian, U.S. Environmental Protection Agency, San Francisco
Ms. Patti Collins, U.S. Environmental Protection Agency, San Francisco
Mr. Steve Ross, Department of Toxic Substances Control, Sacramento
Mr. Stephen Pay, Department of Health Services, Radiological Branch, Sacramento
Mr. Brian Oatman, University of California, Davis
Mr. Bob Devany, Weiss Associates, Emeryville
Mr. Jeffrey Bold, Montgomery Watson Harza, Sacramento
Ms. Mary Rust, DSCSOC, Davis
Ms. Julie Roth, DSCSOC, Davis
Mr. G. Fred Lee, DSCSOC, El Macero

California Environmental Protection Agency





Department of Toxic Substances Control



Winston H. Hickox
Agency Secretary
California Environmental
Protection Agency

Edwin F. Lowry, Director
8800 Cal Center Drive
Sacramento, California 95826-3200

Gray Davis
Governor

April 9, 2003

Mr. Jay Tomlin
U.S. Department of Energy
Oakland Operations Office
1301 Clay Street, Room 700N
Oakland, California 94612-5208

APPROVAL OF FINAL DOMESTIC SEPTIC SYSTEMS 3 & 6 INVESTIGATION AND REMOVAL ACTION CONFIRMATION REPORT, LABORATORY FOR ENERGY-RELATED HEALTH RESEARCH, DAVIS, CALIFORNIA

Dear Mr. Tomlin:

The Department of Toxic Substances Control (DTSC) has completed review of the subject report dated March 28, 2003 which incorporated revisions to a September 25, 2002 draft report. The removal action was conducted as described in the May 2002 Domestic Septic Systems (DSS) 3 and 6 Removal Actions Work Plan.

According to the report, the distribution box, effluent lines, and approximately 170 cubic yards of piping, concrete, gravel and underlying soil were removed from DSS 3. DSS 6 response included the removal of effluent lines as well as approximately 215 cubic yards of perforated Orangeburg pipe, leach trench gravels, and soil from the trench floor and sidewalls. Confirmation samples were collected and analyzed. Results were compiled in the subject report and evaluated against six remedial action objectives (RAOs).

Based on these results, it was proposed that evaluation of three of the RAOs from the domestic septic systems area would be deferred until later. Two Remedial Action Orders (RAOs) - reduce non-cancer hazard quotient below 1.0 and mitigate ecological risk, will be evaluated during the Site-Wide Risk Assessment. The third RAO - mitigate groundwater impact associated with the residual concentrations of chemicals in the soil will be evaluated during the Department of Energy Areas Feasibility Study. DTSC accepts this approach and approves the Final Domestic Septic Systems 3 & 6 Confirmation Report.

The energy challenge facing California is real. Every Californian needs to take immediate action to reduce energy consumption. For a list of simple ways you can reduce demand and cut your energy costs, see our Web-site at www.dtsc.ca.gov.

Mr. Jay Tomlin
April 9, 2003
Page 2

If you have any questions, please call Mr. Steven Ross at (916) 255-3694.

Sincerely,

A handwritten signature in black ink, appearing to read "Richard Hume", with a long horizontal flourish extending to the right.

Richard Hume, Chief
National PriorityList Unit

cc: Ms. Kathy Setian
United States Environmental Protection Agency
75 Hawthorne SDF-7-2
San Francisco, California 94105

Ms. Patti Collins
United States Environmental Protection Agency
75 Hawthorne SDF-2
San Francisco, California 94105

Ms. Julie Roth
DSCSOC
Route 2, Box 2879 Old Davis Road
Davis, California 95616

Mr. Stephen Pay
Health Physicist
Department of Health Services
Radiologic Health Branch
P.O. Box 94234-7320, MS 178
Sacramento, California 94234-7320

Mr. Brian Oatman, Manager
Environmental Protection
University of California, Davis
Environmental Health and Safety
One Shields Drive
Davis, California 95616-8586

Mr. Jay Tomlin
April 9, 2003
Page 3

cc: Mr. Robert Devany
Senior Project Manager
Weiss Associates
5801 Christie Avenue, Suite 600
Emeryville, California 94608-1827

Mr. G. Fred Lee
G. Fred Lee & Associates
27298 E. El Macero Drive
El Macero, California 95618-1005

Ms. Susan Timm
Regional Water Quality Control Board
3443 Routier Road, Suite A
Sacramento, California 95827

Mr. Steven Ross
Hazardous Substances Engineer
National Priority List Unit
Northern California-Central Cleanup Operations Branch
Site Mitigation and Brownfields Reuse Program
Department of Toxic Substances Control
8800 Cal Center Drive
Sacramento, California 95826-3200

DEPARTMENT OF HEALTH SERVICES**RADIOLOGIC HEALTH BRANCH**

P BOX 942732, MS-178
SACRAMENTO, CA 94234-7320
(916) 445-0931



April 29, 2003

Mr. Jay Tomlin
U. S. Department of Energy
Oakland Operations Office
1301 Clay Street, Room 700N
Oakland, California 94612-5208

DRAFT DOE AREAS REMEDIAL INVESTIGATION REPORT for the Laboratory for Energy –Related Health Research University of California, Davis

Dear Mr. Tomlin:

The Department of Health Services has reviewed the subject document dated February 28, 2003 and concurs with the finding of the draft report. The Department does not have any specific comments in regards to the report at this time.

If you have any questions please contact me at (916) 445-4772

Sincerely,

A handwritten signature in black ink, appearing to read "Stephen Pay".

Stephen Pay
Health Physicist
Radiologic Health Branch



Do your part to help California save energy. To learn more about saving energy, visit the following web site:

www.consumerenergycenter.org/flex/index.html



California Regional Water Quality Control Board

Central Valley Region

Robert Schneider, Chair



Gray Davis
Governor

William H. Hickox
Secretary for
Environmental
Protection

Sacramento Main Office
Internet Address: <http://www.swrcb.ca.gov/rwqcb5>
3443 Routier Road, Suite A, Sacramento, California 95827-3003
Phone (916) 255-3000 • FAX (916) 255-3015

15 May 2003

Mr. Jay Tomlin
U.S. Department of Energy
Oakland Operations Office
1301 Clay Street Room 700N
Oakland, CA 94612-5208

DRAFT DOE AREAS REMEDIAL INVESTIGATION REPORT, LABORATORY FOR ENERGY-RELATED HEALTH RESEARCH, U.S. DEPARTMENT OF ENERGY, SOLANO COUNTY

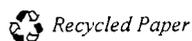
We have reviewed the 28 February 2003 *Draft DOE Areas Remedial Investigation Report (RI)*, submitted on your behalf by Weiss Associates. We also received the U.S. Environmental Protection Agency's (EPA) comments on the RI. We concur with EPA's comments and have no additional comments.

If you have any questions, you may call me at (916) 255-3057.

SUSAN TIMM
Remedial Project Manager

cc: Ms. Kathy Setian, U.S. Environmental Protection Agency, San Francisco
Mr. Steve Ross, Department of Toxic Substances Control, Sacramento
Mr. Stephen Pay, Department of Health Services, Radiological Health Branch, Sacramento
Mr. Brian Oatman, University of California, Davis
Ms. Mary Rust, DSCSOC, Davis
Ms. Julie Roth, DSCSOC, Davis
Dr. G. Fred Lee, El Macero
Mr. Jeffrey Bold, Montgomery Watson, Sacramento
Mr. Robert Devaney, Weiss Associates, Emeryville

California Environmental Protection Agency



From: "Steve Ross" <Sross@dtsc.ca.gov>
To: <SPay@dhs.ca.gov>, <JRaines@TechLawInc.com>, <ddl@weiss.com>, <ROD@weiss.com>
Date: 8/8/03 9:28AM
Subject: Re: Responses to RPM Comments on the Draft DOE AreasRemedialInvestigation Report, Revision E

DTSC concurs on finalizing the Draft RI.

>>> "Bob Devany" <ROD@weiss.com> 08/04/2003 5:39:15 PM >>>
All,

Attached are revised (redlined) versions of Tables 4-1, 6-4, 6-9, 6-12, 6-13, 6-16, 6-17, 6-20 6-25, 6-28, 6-35 and 6-40 and new Appendix F Tables for the DOE RI. This submittal supplements the RI revisions previously provided to you on July 16. Our QA checks indicated that some of the PRGs shown in the prior versions of tables were incorrect, and that this affected discussions in the RI with respect to numbers of samples exceeding the PRGs. This attachment also includes the corrected RI text pages.

As discussed at the RPM meeting, the revised date for providing your concurrence on finalizing the Draft RI is August 8.

Please call me if you have any questions or require a hard copy version of this attachment.

Bob Devany
Weiss Associates
Emeryville CA
(510) 450-6144

CC: <lehrlibrary@weiss.com>, <MDD@weiss.com>

From: "Tomlin, Jay" <jay.tomlin@Oak.doe.gov>
To: "Bob Devany" <ROD@weiss.com>
Date: 8/19/03 8:03AM
Subject: FW: Completion of review of DOE RI

We are down to UC Davis.

Jay Tomlin
U. S. Dept. of Energy
LEHR Project Manager
510-637-1637

-----Original Message-----

From: Setian.Kathy@epamail.epa.gov [mailto:Setian.Kathy@epamail.epa.gov]
Sent: Monday, August 18, 2003 4:55 PM
To: Tomlin, Jay
Cc: Timms@rb5s.swrcb.ca.gov; Sross@dtsc.ca.gov
Subject: Completion of review of DOE RI

I have reviewed table 6-25 which satisfactorily addresses EPA's outstanding comment.

Thank you,

Kathy Setian
U.S. Environmental Protection Agency Region 9
(415) 972-3180
Fax 947-3526

From: "Pay, Stephen (DHS-RHB)" <SPay@dhs.ca.gov>
To: "Bob Devany" <ROD@weiss.com>, <Gfredlee@aol.com>, <JRoth916@aol.com>, <JTurner@BrwnCald.com>, <LHenry@BrwnCald.com>, <Sross@dtsc.ca.gov>, <setian.kathy@epa.gov>, <collins.patti@epamail.epa.gov>, <jniland@geomatrix.com>, <mbutherus@gjo.doe.gov>, <jeffrey.short@hq.doe.gov>, <jay.tomlin@oak.doe.gov>, <john.wood@oak.doe.gov>, <kochking@sbcglobal.net>, <Baoatman@ucdavis.edu>, <cjudal@ucdavis.edu>, <stimm@waterboards.ca.gov>
Date: 8/31/05 2:12PM
Subject: RE: DOE Areas Risk Characterization Redline Attached

The Department concurs with the revised report. See attached letter, hard copy to be mailed to DOE.

Stephen Pay
Health Physicist
Radiologic Health Branch
(916) 440-7966

-----Original Message-----

From: Bob Devany [mailto:ROD@weiss.com]
Sent: Friday, August 19, 2005 8:10 PM
To: Gfredlee@aol.com; JRoth916@aol.com; JTurner@BrwnCald.com; LHenry@BrwnCald.com; Pay, Stephen (DHS-RHB); Sross@dtsc.ca.gov; setian.kathy@epa.gov; collins.patti@epamail.epa.gov; jniland@geomatrix.com; mbutherus@gjo.doe.gov; jeffrey.short@hq.doe.gov; jay.tomlin@oak.doe.gov; john.wood@oak.doe.gov; kochking@sbcglobal.net; Baoatman@ucdavis.edu; cjudal@ucdavis.edu; stimm@waterboards.ca.gov
Cc: LEHR Library; Liz Nicolas
Subject: DOE Areas Risk Characterization Redline Attached

The revised DOE redline of the Draft Human Health Risk Characterization for DOE Areas is attached (RevE_1mrgd.pdf (main text/figures/tables and Appendices.pdf (Appendices A - E) . The revisions are based on the responses to RPM and UC Davis comments submitted by DOE on July 19, 2005. A cross reference document (RTC_Roadmap.pdf) showing the sections, tables and figures that were changed in response to the RPM and UC Davis comments is also attached to facilitate your review. The RTC Roadmap also contains some updated responses reflecting the current state of the information that we have.

Please contact me or Jay if you have any questions, or if you require some or all of the document as a hard copy.

DOE requests a two-week turnaround for RPM concurrence of the proposed changes. Please contact Jay if you require additional time. Once approved, DOE will issue the final document.

Bob Devany
Weiss Associates
Emeryville CA
(510) 450-6144
www.weiss.com

CC: "LEHR Library" <lehrlibrary@weiss.com>, "Liz Nicolas" <lmn@weiss.com>

From: "Steve Ross" <Sross@dtsc.ca.gov>
To: <Gfredlee@aol.com>, <JRoth916@aol.com>, <JTurner@BrwnCald.com>, <LHenry@BrwnCald.com>, <spay@dhs.ca.gov>, <setian.kathy@epa.gov>, <collins.patti@epamail.epa.gov>, <jniland@geomatrix.com>, <mbutherus@gjo.doe.gov>, <jeffrey.short@hq.doe.gov>, <jay.tomlin@oak.doe.gov>, <john.wood@oak.doe.gov>, <kochking@sbcglobal.net>, <Baoatman@ucdavis.edu>, <cjudal@ucdavis.edu>, <stimm@waterboards.ca.gov>, <ROD@weiss.com>
Date: 9/16/05 11:26AM
Subject: Re: DOE Areas Risk Characterization Redline Attached

Thanks Bob. I have reviewed the red-line changes as well as the responses to comments. I require no further changes to this submittal and await the final document when it becomes available.

>>> "Bob Devany" <ROD@weiss.com> 08/19/2005 8:10:19 PM >>>

The revised DOE redline of the Draft Human Health Risk Characterization for DOE Areas is attached (RevE_1mrgd.pdf (main text/figures/tables and Appendices.pdf (Appendicies A - E) . The revisions are based on the responses to RPM and UC Davis comments submitted by DOE on July 19, 2005. A cross reference document (RTC_Roadmap.pdf) showing the sections, tables and figures that were changed in response to the RPM and UC Davis comments is also attached to facilitate your review. The RTC Roadmap also contains some updated responses reflecting the current state of the information that we have.

Please contact me or Jay if you have any questions, or if you require some or all of the document as a hard copy.

DOE requests a two-week turnaround for RPM concurrence of the proposed changes. Please contact Jay if you require additional time. Once approved, DOE will issue the final document.

Bob Devany
Weiss Associates
Emeryville CA
(510) 450-6144
www.weiss.com

CC: <lehrlibrary@weiss.com>, <lmn@weiss.com>

per cent of a big number can be unacceptable and require alternatives in the FS; furthermore, in cases where the risk due to background already exceeds the CERCLA risk range, no additional site contributions are acceptable.

This is consistent with a discussion I had with Linda Henry at the last RPM meeting; she agreed to the same procedure. Christine may want to forward a copy of this email to her.

Kathy Setian
Superfund Remedial Project Manager
U.S. Environmental Protection Agency Region 9
75 Hawthorne St.
San Francisco, CA 94105
Phone: 415-972-3180 Fax: 415-947-3526

CC: "Tomlin, Jay" <jay.tomlin@Oak.doe.gov>