



1900 Powell Street, 12th Floor
Emeryville, California 94608-1827
(510) 652-4500, FAX (510) 652-2246

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Date	May 15, 1998
From	Mark D. Knox, P.E.
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Deliver To	Name Of Firm	FAX Number
Mark Johnson	RWQCB	510 286-1380
Barbara Cook, P.E.	DTSC	510 540-3819
Susan Hugo	ACHD	510 337-9335
Ric Notini	Chiron Corp.	510 923-7476
Ignacio Dayrit	City of Emeryville	510 595-3724
Larry Mencin	The Sherwin-Williams Company	216 566-2730
Nick Maoloni	The Sherwin-Williams Company	216 566-2730
John Gerulis	The Sherwin-Williams Company	216 566-2730
Dave Gustafson	The Sherwin-Williams Company	216 566-1792
Frank McHugh	The Sherwin-Williams Company	510 654-7997
Paul Germain	45 th Street Artists Co-op	510 655-2807
Tom Kalinowski, Sc.D.	EKI	650 578-9131
Mara Feeney	Mara Feeney & Associates	415 863-5671
Jody Sparks	TAG	916 753-5318
Peggy Peischl	Treadwell and Rollo	510 253-4985
Jane Riggan, M.S.W.	CDHS	510 450-3773
Robert Cave	BAAQMD	415 749-5030

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Comments: ATTACHED IS THE MONTHLY STATUS REPORT FOR THE SHERWIN-WILLIAMS SITE IN EMERYVILLE, CALIFORNIA.

Please address questions or comments to any of the undersigned:

Larry Mencin, The Sherwin-Williams Company
Mark Knox or Mike Marsden, Levine-Fricke-Recon Inc.
Mara Feeney, Mara Feeney & Associates

216 566-1768
510 652-4500
415 863-8760

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MONTHLY SUMMARY REPORT
SHERWIN-WILLIAMS, EMERYVILLE, CALIFORNIA
May 1998

I. ACTIONS TAKEN: APRIL 1998

A. IRMs

Extraction and Treatment System Expansion

- The preliminary results from the MSE treatability study work were received and the technology looks very promising with effluent sample results for 14 samples collected over 3 days all below 25 ppb. MSE summarized the treatability studies for their proprietary technology based on the information gathered in March and April. Sherwin-Williams is proposing to implement the MSE technology on a full scale instead of expanding the electrochemical co-precipitation system. The results of the pilot study and proposal to implement the MSE technology will be addressed in the Evaluation of IRMs report to be submitted to the RWQCB. Sherwin-Williams is proceeding with issuing a contract to MSE to design and construct the full scale system.
- Sherwin-Williams is prepared to proceed with sewer connection and discharge of treatment system effluent to EBMUD upon approval by the City of Emeryville of an encroachment permit. Counsel for Sherwin-Williams has proposed reasonable permit terms and conditions with the City but the City has not responded to Sherwin-Williams' attempt to discuss these issues. As a result, the City's refusal to approve the sewer connection is the only impediment to advancing this remedial goal. The City's refusal to approve has already delayed this phase of remediation by several months and this was previously approved by EBMUD in December 1997. At a minimum, even a temporary 1-year connection will greatly facilitate the discharge of treated groundwater (and therefore the lowering of groundwater levels within the slurry wall) by allowing the current treatment system to run at a higher flowrate and to allow for discharge at slightly higher concentrations (200 ppb) while the groundwater treatment system is being expanded in the summer of 1998.
- LFR has completed the evaluation for the placement of additional wells within the slurry wall based on pump test data. Additional extraction wells will be proposed to supplement the 3 extraction wells within the slurry wall and the proposed number and placement of the wells will be included in the Evaluation of IRMs report to be submitted in May. LFR began to design the extraction system expansion.

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Stormwater Handling

- Continued monitoring of tanks containing stormwater/groundwater mixture. Sherwin-Williams has decided to implement off-site treatment of the stormwater pending discussions with the RWQCB and DTSC.
- Continued with discharge of clean stormwater from the northern part of the site from the multi-point stormwater collection system. LFR will continue to collect samples from periodic stormwater discharges to verify the concentration of arsenic (if any) in the stormwater being discharged to the creek.

Completion Reports

- The completion reports (including the report on the Horton Street remediation and the stormwater summary report) are near completion and undergoing internal review. Comments on the draft Rifkin property report on demolition and disposal of the south brick wall were submitted from Erler and Kalinowski on behalf of Chiron at the end of April.

B. Site Investigation

- Continued with the implementation of the tasks under the Site Cleanup Requirements Order. The Health and Safety Plan was submitted to the RWQCB on April 6, 1998 with copies going to the Consultative Workgroup members. Sherwin-Williams requested a 15-day extension for submittal of the Public Participation Plan (letter to RWQCB dated April 3, 1998) and this report was submitted on April 17, 1998. Other work that continued to be implemented included the Quality Assurance Project Plan, Current Site Conditions, Site Use History, Human-Made Conduits Evaluation and Evaluation of Existing IRMs.

C. NPDES and Groundwater Monitoring

- Quarterly groundwater samples and water levels were collected for the second quarter 1998. Continued to compile data for the quarterly NPDES and groundwater monitoring reports and the reports were submitted to the RWQCB on April 30, 1998.
- The treatment system experienced equipment problems with the electrochemical cell (E-cell) in the beginning of April. An internal fiberglass part in the E-cell (the second of two E-cells in series) was noticed to be cracked and the system was taken off line April 1, 1998. LFR evaluated options to specially fabricate the piece of equipment or have the manufacturer fabricate another piece. The system was temporarily modified to operate with only one E-cell (initially the system was operated off-line without discharge to the creek to verify NPDES compliance) and the system

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was restarted by mid-April with discharge to the creek. The RWQCB was notified of this situation.

- Due to financial and capacity problems with the laboratory designated for the project, Quanterra was selected as the new laboratory for the project.

D. Other Tasks

- The February 2, 1998 risk report for the retaining wall along Horton Street was submitted to the RWQCB and later copied to DTSC at the request of the RWQCB. Sherwin-Williams needs to receive input from RWQCB on the February 2, 1998 risk report. DTSC provided comments in a March 27, 1998 letter. LFR has evaluated options for covering the wall pending regulatory approval of the risk analyses and discussion with the RWQCB and the DTSC.
- Continued to evaluate potential unknown sources of water within the slurry wall.

II. ACTIONS EXPECTED: MAY 1998

A. IRMs

Extraction and Treatment System Expansion

- Sherwin-Williams is proposing to implement the MSE technology on a full scale instead of expanding the electrochemical co-precipitation system. An additional third phase of the pilot study will be implemented at the end of May to refine data previously collected and more accurately identify optimal reagent usage in the process. The proposal to implement the MSE technology will be addressed in the Evaluation of IRMs report to be submitted to the RWQCB. Sherwin-Williams is proceeding with issuing a contract to MSE to design and construct the full scale system.
- Sherwin-Williams' request to proceed with sewer connection and discharge of treatment system effluent to EBMUD (see discussion in Section I.A. above) still awaits approval by the City of Emeryville for an encroachment permit. Counsel for Sherwin-Williams and the City have made some progress in negotiating permit terms but the sewer connection approval continues to be delayed.
- Additional extraction wells will be proposed to supplement the 3 extraction wells within the slurry wall and the proposed number and placement of the wells will be included in the Evaluation of IRMs report to be submitted in May. LFR continued with the design of the extraction system expansion.

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Stormwater Handling

- Continue monitoring of tanks containing stormwater/groundwater mixture. Sherwin-Williams has decided to implement off-site treatment of the stormwater pending discussions with the RWQCB and DTSC. Assuming discussions with the agencies are completed in May then Sherwin-Williams will authorize the off-site hauling and treatment of stormwater anticipated to be implemented in late May or June.
- Continue with discharge of clean stormwater from the northern part of the site from the multi-point stormwater collection system. LFR will continue to collect samples from periodic stormwater discharges to verify the levels of arsenic in the stormwater being discharged to the creek.

Completion Reports

- The completion reports (including the report on the Horton Street remediation and the stormwater summary report) are near completion and undergoing internal review. Comments on the Rifkin property report on demolition and disposal of the south brick wall were submitted from Erler and Kalinowski on behalf of Chiron at the end of April. LFR will review the comments received and finalize the report incorporating Chiron's comments. The report will then be submitted to the RWQCB.

B. Site Investigation

- A Consultative Workgroup meeting was held on May 6, 1998. Another meeting was tentatively scheduled for June 10, 1998 at 9:00 AM. Continue with the implementation of the tasks under the Site Cleanup Requirements Order. RWQCB and the Consultative Workgroup did not provide comments on the Health and Safety Plan. The Public Participation Plan (PPP) was submitted in April and discussed at the May 6, 1998 Consultative Workgroup meeting. Comments on the PPP were due from the Consultative Workgroup on May 8, 1998. The Quality Assurance Project Plan was submitted on April 30, 1998 on schedule. Work will continue on the reports addressing Current Site Conditions, Site Use History, Human-Made Conduits Evaluation, and Evaluation of Existing IRMs. The Evaluation of Existing IRMs is scheduled to be submitted by May 20, 1998.

C. NPDES and Groundwater Monitoring

- Received and evaluated the data from the second quarter groundwater sampling and water level measurements conducted the previous month.
- Continue operation of treatment system and monitoring NPDES parameters with discharge to Temescal Creek. Assuming the damaged E-cell can be

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repaired and/or parts obtained (see above) the second E-cell will be repaired and brought back on-line.

D. Other Tasks

- The February 2, 1998 risk report for the retaining wall along Horton Street was submitted to the RWQCB and later copied to DTSC at the request of the RWQCB. Sherwin-Williams needs to receive input from RWQCB on the February 2, 1998 risk report. DTSC provided comments in a March 27, 1998 letter. LFR has evaluated options for covering the wall pending regulatory approval of the risk analyses and discussion with the RWQCB and the DTSC.

III. PLANNED ACTIVITIES - JUNE 1998

A. IRMs

Extraction and Treatment System Expansion

- MSE will begin design of their proprietary groundwater treatment technology based on the results of the pilot study and as proposed in the Evaluation of IRMs report to be submitted in May.
- Sherwin-Williams anticipates proceeding with sewer connection and discharge of treatment system effluent to EBMUD assuming approval by the City of Emeryville of an encroachment permit. If the City continues to deny approval then see discussion in Section I.A. above.
- Additional extraction wells will be proposed to supplement the 3 extraction wells within the slurry wall and the proposed number and placement of the wells will be included in the Evaluation of IRMs report to be submitted in May. LFR anticipates completing the design of the extraction system expansion and submitting the drawings and specifications to several contractors for bidding.

Stormwater Handling

- Continue monitoring of any tanks remaining on-site containing stormwater/groundwater mixture. Sherwin-Williams has decided to implement off-site treatment of the stormwater pending discussions with the RWQCB and DTSC and it is assumed these issues will be resolved in May. Assuming discussions with the agencies are completed in May then Sherwin-Williams will authorize the off-site hauling and treatment of stormwater anticipated to be implemented in June (sooner if possible).

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- Continue with discharge of clean stormwater from the northern part of the site (if any) from the multi-point stormwater collection system. LFR will continue to collect samples from periodic stormwater discharges (if any) to verify the levels of arsenic in the stormwater being discharged to the creek.

Completion Reports

- The completion reports (including the report on the Horton Street remediation and the stormwater summary report) are near completion and undergoing internal review. Comments on the Rifkin property report on demolition and disposal of the south brick wall were submitted from Erler and Kalinowski on behalf of Chiron at the end of April. LFR will review the comments received and finalize the report incorporating Chiron's comments. The report will then be submitted to the RWQCB.

B. Site Investigation

- A Consultative Workgroup meeting is tentatively scheduled for June 10, 1998 at 9:00 AM.
- Continue with the implementation of the tasks under the Site Cleanup Requirements Order. It is assumed the final PPP will be submitted in June based on the RWQCB comments with input from the Consultative Workgroup received in May. The Quality Assurance Project Plan and the Evaluation of Existing IRMs (both reports submitted in May with comments to be received by the end of May and in early June) comments will be discussed at the June Consultative Workgroup meeting and addressed in June. Work will continue on the reports addressing Current Site Conditions, Site Use History, and Human-Made Conduits Evaluation. These reports are scheduled to be submitted by June 19, 1998.

C. NPDES and Groundwater Monitoring

- Continue to evaluate the data from the second quarter groundwater sampling and water level measurements conducted in April. Begin preparation of quarterly report.
- Continue operation of treatment system and monitoring NPDES parameters with discharge to Temescal Creek. Assuming the damaged E-cell has been repaired and/or parts obtained (see above) the second E-cell will be on-line. Begin preparation of quarterly report.

D. Other Tasks

The February 2, 1998 risk report for the retaining wall along Horton Street was submitted to the RWQCB and later copied to DTSC at the request of the RWQCB. Sherwin-Williams

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needs to receive input from RWQCB on the February 2, 1998 risk report. DTSC provided comments in a March 27, 1998 letter. LFR has evaluated options for covering the wall pending regulatory approval of the risk analyses and discussion with the RWQCB and the DTSC.

IV. ACTION ITEMS BY OTHERS

- Need approval from the City for the encroachment permit to discharge to the sanitary sewer.
- RWQCB approval needed for the risk analyses conducted on the retaining wall on Horton Street.
- Need input from the RWQCB and Consultative Workgroup on the Public Participation Plan (comments due May 8, 1998), the QAPP (comments due May 20, 1998) and the Evaluation of Existing IRMs (report due May 20, 1998 and comments due June 4, 1998).
- RWQCB to confirm schedule for the next Consultative Workgroup meeting tentatively set for June 10, 1998.

V. COMPLIANCE WITH ORDER

The following deliverables for tasks, currently ongoing, are anticipated to be submitted by the dates noted. The tasks and schedule are in accordance with the Site Cleanup Requirements Order.

<u>Task</u>	<u>Anticipated Delivery Date</u>
Health and Safety Plan	April 6, 1998*
Public Participation Plan	April 17, 1998*
QAPP	April 30, 1998*
Evaluation of Existing IRMs	May 20, 1998
Current Site Conditions, Site Use History, and Human-Made Conduits	June 19, 1998

* REPORT SUBMITTED

- A request for 15-day extension of the Public Participation Plan was noted in Sherwin-William's letter to the RWQCB dated April 3, 1998. The PPP has been submitted. No other obstacles have been identified which threaten compliance with the Order.