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

The following have received this report via email:

Mark Johnson, Regional Water Quality Control Board (RWQCB)
Larry Mencin, The Sherwin-Williams Company
Vera Nelson, EKI
Mara Feeney, Mara Feeney & Associates
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**MONTHLY SUMMARY REPORT
SHERWIN-WILLIAMS, EMERYVILLE, CALIFORNIA
May 2000**

I. ACTIONS TAKEN – APRIL 2000

A. IRMS

Extraction and Treatment System Expansion

- LFR continued analyzing data collected from the pumping tests on extraction wells EX-14, EX-15, and EX-16 on the former Rifkin Property to evaluate well yields and extent of the hydraulic capture zone for these wells.
- Groundwater elevations measured on 4/25/00 in groundwater monitoring wells/piezometers indicate there is an inward hydraulic gradient across the slurry wall at all measured locations except for three monitoring well/piezometer pairs (LF-22 and LF-12; LF-PZ26 and LF-PZ7; and LF-PZ33 and LF-PZ34). The calculated hydraulic potential difference between these monitoring well/piezometer pairs is approximately 0.01, 0.03, and 0.01 feet per foot, respectively. The increase in water levels inside the slurry wall is likely due to treatment system being off line or in recirculation mode a majority of the month of April.
- The RWQCB began evaluating whether to continue preparing a draft NPDES individual permit or to temporarily include the groundwater extraction and treatment system under the recently adopted General Waste Discharge Requirements Order No. 99-051, NPDES No. CAG912003.

Storm Water Handling and Environmental Cap

- Monitoring of the on-site multi-point storm drain system continued. Several rain events occurred during April and water was discharged to Temescal Creek from the multi-point system.

B. Site Investigation

- Further investigation work by Entrix is on hold pending access for drilling from the UPRR and South BGR (Wareham Property). Entrix will continue to analyze the data received from the investigation work completed to date.
- QA/QC of the data from the site investigation has been completed. The data is being tabulated, posted, and evaluated.

C. NPDES and Groundwater Monitoring

- The groundwater extraction and treatment system was off line or in recirculation mode and not discharging water to Temescal Creek a majority of the time during month of April 2000. LFR evaluated the treatment

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system performance and continued to troubleshoot mechanical and chemistry problems with the MSE and granular activated carbon treatment systems as well as clogging of extraction well pumps and discharge lines from iron bacteria. LFR contracted the treatment system manufacturer to perform a site visit and evaluate potential problems with reductive precipitation treatment system chemistry. The system manufacturer proposed making several small adjustments to the operating ranges for pH and oxidation-reduction potential (ORP), but did not propose any significant changes in the treatment system chemistry. Because the treatment system was off line or in recirculation mode, the monthly NPDES samples were not collected for the month of April.

- LFR submitted the 1st quarter NPDES monitoring report and the 1st quarter groundwater monitoring report per the Site Cleanup Requirements (SCR) Order 98-009. The quarterly NPDES and groundwater monitoring reports were submitted in compact disk (CD) format.
- LFR performed the 2nd quarter sampling of wells and measurement of water levels for the Sherwin-Williams site and the former Rifkin Property. Based on conversations with the RWQCB, LFR implemented a reduced sampling plan for monitoring wells located outside of chemically-affected areas. The reduced sampling plan will be distributed to the CWG prior to the CWG meeting scheduled in June 2000.
- LFR began performing field tests on extraction well EX-2 to evaluate the effectiveness of non-corrosive and non-toxic chemicals to treat the iron bacteria that have been clogging the extraction well screens, pneumatic pumps, and extraction well discharge lines.
- Statistical analysis of data collected from monitoring wells located outside the slurry area indicate an increasing arsenic concentration trend in monitoring wells MW-5 on the former Rifkin Property and LF-11 near Building 35.
- Sampling of the monitoring wells west of the UPRR has been suspended pending resolution of access and health and safety issues along the tracks. Sherwin-Williams and LFR will proceed working with the City of Emeryville to gain access through the Shellmound Property to access the three monitoring wells west of the UPRR tracks.

D. Community Relations

- Information hotline telephone message updates and coordination with the local residents and businesses were updated bi-weekly to keep the local community informed of current activities.
- A CWG meeting was not scheduled during the month of April 2000.

II. ACTIONS EXPECTED – MAY 2000

A. IRMS

Extraction and Treatment System Expansion

- LFR will continue to analyze the data collected during the pumping tests performed on the former Rifkin Property to evaluate well yields and extent of hydraulic capture zones. A meeting will be scheduled between Sherwin-Williams and the Chiron Corporation to discuss results of the pumping tests.
- The RWQCB will continue to evaluate whether to continue preparing a draft NPDES individual permit or to temporarily include the groundwater treatment system under the recently adopted General Waste Discharge Requirements Order No. 99-051, NPDES No. CAG912003.

Storm Water Handling

- Monitoring of the on-site multi-point storm drain system will continue.

B. Site Investigation/Risk Assessment

- Further investigation work by Entrix is on hold pending access for drilling from the UPRR and South BGR (Wareham Property). Entrix will continue to analyze the data received from the investigation work completed to date.
- QA/QC of the data from the site investigation has been completed. The data is being tabulated, posted, and evaluated.
- Entrix will analyze the data from the investigation work completed to date and begin applying it to the risk assessment.

C. NPDES and Groundwater Monitoring

- The treatment system was brought back on line the first week of May and treatment system operations and monitoring will continue in accordance with NPDES requirements.
- In addition to the current field test performed on extraction well EX-2, LFR will perform field tests on extraction well EX-5 to evaluate the effectiveness of non-corrosive and non-toxic chemicals to treat the iron bacteria that have been clogging the extraction well screens, pneumatic pumps, and extraction well discharge lines. LFR will submit several 10-gallon samples to MSE Technology Applications, Inc. to perform bench-scale testing.
- Sampling of the monitoring wells west of the UPRR has been suspended pending resolution of access and health and safety issues along the tracks. Sherwin-Williams and LFR will proceed working with the City of Emeryville to gain access through the Shellmound Property to access the three monitoring wells west of the UPRR tracks.

D. Community Relations

- A CWG meeting is not scheduled in May 2000.
- Sherwin-Williams has received bids for planting trees along Horton Street and work will be scheduled.
- Information hotline telephone message updates and coordination with the local residents and businesses will be conducted as needed to keep the local community informed of current activities.

III. PLANNED ACTIVITIES – JUNE 2000

A. IRMS

Extraction and Treatment System Expansion

- The RWQCB will continue to evaluate whether to continue preparing a draft NPDES individual permit or to temporarily include the groundwater treatment system under the recently adopted General Waste Discharge Requirements Order No. 99-051, NPDES No. CAG912003.

Storm Water Handling

- Monitoring of the on-site multi-point system will continue.

B. Site Investigation/Risk Assessment

- Assuming access for drilling from the UPRR and South BGR (Wareham Property) is granted, Entrix will continue with the investigation work.
- Entrix will analyze the data from the investigation work completed to date and begin applying it to the risk assessment.

C. NPDES and Groundwater Monitoring

- Treatment system operations and monitoring will continue in accordance with NPDES requirements.
- LFR will evaluate if the reagents used to treat iron bacteria in extraction wells EX-2 and EX-5 have an adverse effect on the process chemistry of the MSE groundwater treatment system.
- Sampling of the monitoring wells west of the UPRR has been suspended pending resolution of access and health and safety issues along the tracks. Sherwin-Williams and LFR will proceed working with the City of Emeryville to gain access through the Shellmound Property to access the three monitoring wells west of the UPRR tracks.

D. Community Relations

- A CWG meeting is anticipated to be scheduled at the Sherwin-Williams' Emeryville plant in June 2000.
- Information hotline telephone message updates and coordination with the local residents and businesses will be conducted as needed to keep the local community informed of current activities.

VI. ACTION ITEMS BY OTHERS

- A revised schedule for the RI/RA/FS was presented in the January 8, 1999 Workplan Addendum. The RWQCB has accepted this schedule and the RWQCB should formally revise SCR Order 98-009 to reflect the modified schedule.
- The RWQCB will continue to evaluate whether to continue preparing a draft NPDES individual permit or to temporarily include the groundwater treatment system under the recently adopted General Waste Discharge Requirements Order No. 99-051, NPDES No. CAG912003.
- The City of Emeryville has been asked to clear access through the Shellmound Property to allow access to the monitoring wells along the western side of the UPRR tracks. The City has indicated they will send Sherwin-Williams a draft access agreement.
- The RWQCB may need to prompt the UPRR and South BGR (Wareham Property) concerning access issues for further offsite investigation to be completed.

V. COMPLIANCE WITH ORDER

Due to access issues on neighboring properties, several milestones in the current schedule will likely not be met. A revised schedule will be determined once the access issues have been resolved.

The following deliverables for tasks were submitted by the dates noted. The tasks and schedule are in accordance with the SCR Order, and revised dates agreed by the RWQCB. As noted above, the SCR schedule needs to be revised by the RWQCB for future tasks.

<u>Task</u>	<u>Anticipated Delivery Date</u>
Public Participation Plan (Final)	April 17, 1998*
Current Site Conditions, Site Use History, and Human-Made Conduits (Final)	June 19, 1998*
Health and Safety Plan (Final)	July 8, 1998*
QAPP (Final)	July 16, 1998*

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Evaluation of Existing IRMs (Final)**August 10, 1998*****Workplan Addendum for Site Investigations
(including Entrix response to comments)****January 8, 1999****** FINAL REPORT SUBMITTED****No obstacles have been identified which threaten compliance with the Order.**