

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD  
CENTRAL VALLEY REGION

MONITORING AND REPORTING PROGRAM NO. R5-2002-0138-003

FOR  
TEICHERT AGGREGATES, HALLWOOD FACILITY  
YUBA COUNTY

This monitoring and reporting program (MRP) incorporates requirements for monitoring the designated disposal area, groundwater, and surface water bodies; the MRP is issued pursuant to Water Code Section 13267. Teichert Materials (hereafter “Discharger”) owns and operates a 752-acre aggregate processing facility (Hallwood Facility) located with the Gold Fields in Yuba County. The Discharger shall not implement any changes to this MRP unless and until a further revised MRP is issued by the Executive Officer.

Prior to implementation of sampling activities, Central Valley Regional Water Quality Control Board (Central Valley Water Board) staff shall approve specific sample station locations. Sample collection stations shall be established such that samples collected are representative of the volume and nature of the discharge or matrix of material(s) sampled. The person collecting the sample shall be identified along with the time, date, and location of each sample on the sample chain of custody form.

Field test instruments (such as those used to measure temperature, pH, EC, and dissolved oxygen) may be used provided that:

1. The operator is trained in proper use and maintenance of the instruments;
2. The instruments are calibrated prior to each monitoring event;
3. Instruments are serviced and/or calibrated by the manufacturer at their respective recommended frequency; and
4. Calibration reports are submitted as described in the “Reporting” section of this MRP.

**DESIGNATED DISPOSAL AREA WASTEWATER POND MONITORING**

The designated disposal pond shall be sampled as described below. All samples shall be collected when the Discharger is actively discharging to the pond.

| <u>Constituent/Parameter</u> | <u>Units</u> | <u>Sampling Frequency</u> | <u>Reporting Frequency</u> |
|------------------------------|--------------|---------------------------|----------------------------|
| Flow Rate                    | Million gpd  | Monthly                   | Quarterly                  |
| Freeboard                    | 0.1 feet     | Weekly                    | Quarterly                  |
| pH                           | Std. Units   | Monthly                   | Quarterly                  |
| Electrical Conductivity      | umhos/cm     | Monthly                   | Quarterly                  |
| Total Mercury <sup>1,2</sup> | ng/L         | Semiannually              | Semiannually               |

<sup>1</sup> Liquid samples collected for mercury analysis shall be filtered using a 0.45-micron filter prior to digestion and analysis or equivalent. Mercury samples shall be collected using the methods described in *Sampling Ambient Water for Trace Metals* (EPA Method 1669) or equivalent.

<sup>2</sup> Mercury samples shall be collected using the methods described in *Sampling Ambient Water for Trace Metals* (EPA Method 1669) or equivalent

## GROUNDWATER MONITORING

Groundwater samples shall be collected from all groundwater monitoring wells at the facility. Prior to sampling, the groundwater elevations shall be measured and the wells shall be purged of at least three well volumes and until temperature, pH, and electrical conductivity have stabilized. Stabilization occurs when field parameters vary less than 10 percent between at least two successive measurements during well purging. Low or no-purge sampling methods are acceptable if described in an approved Sampling and Analysis Plan. Depth to groundwater shall be measured to the nearest 0.01 foot. Samples shall be collected using standard EPA methods. Groundwater monitoring shall include, at a minimum, the following:

| <u>Constituent</u>           | <u>Units</u> | <u>Sampling Frequency</u> | <u>Reporting Frequency</u> |
|------------------------------|--------------|---------------------------|----------------------------|
| Depth to Groundwater         | 0.01 foot    | Semiannually              | Semiannually               |
| Groundwater Elevation        | 0.01 foot    | Semiannually              | Semiannually               |
| Gradient Direction           | Feet/Feet    | Semiannually              | Semiannually               |
| pH                           | Std. Units   | Semiannually              | Semiannually               |
| Electrical Conductivity      | umhos/cm     | Semiannually              | Semiannually               |
| Total Mercury <sup>1,2</sup> | ng/L         | Annually                  | Annually                   |

<sup>1</sup> Liquid samples collected for mercury analysis shall be filtered using a 0.45-micron filter prior to digestion and analysis or equivalent. Mercury samples shall be collected using the methods described in *Sampling Ambient Water for Trace Metals* (EPA Method 1669) or equivalent.

<sup>2</sup> Mercury samples shall be collected using the methods described in *Sampling Ambient Water for Trace Metals* (EPA Method 1669) or equivalent

## SURFACE WATER BODY MONITORING

The Discharger shall collect grab water samples from all surface water bodies (ponds, and/or channels) within 500 feet of the designated disposal area and any active excavation area ponds that have been mined in the past month. Because the DDA and excavation ponds are defined as the pond plus a 100 foot buffer zone, surface water samples shall be collected in areas within 600 feet of the designated disposal area pond or excavation pond water surfaces.

The excavation pond is not subject to this monitoring requirement, nor is the concrete lined water supply canal that traverses the Discharger's property. If another Discharger's wastewater ponds are within the area to be monitored, then those ponds do not need to be sampled as a result of this Order. If any of the water bodies requiring sampling are on land outside the Discharger's control, then the Discharger shall either obtain permission to access the water bodies or shall submit a report detailing how it proposes to comply with this monitoring requirement. Surface water body monitoring shall include, at a minimum, the following:

| <u>Constituents</u>     | <u>Units</u> | <u>Sampling Frequency</u> | <u>Reporting Frequency</u> |
|-------------------------|--------------|---------------------------|----------------------------|
| Electrical Conductivity | umhos/cm     | Quarterly                 | Quarterly                  |
| pH                      | Std. Units   | Quarterly                 | Quarterly                  |
| Turbidity <sup>1</sup>  | NTU          | Quarterly                 | Quarterly                  |
| Total Mercury           | ng/L         | Annually                  | Annually                   |

<sup>1</sup> If turbidity monitoring indicates the presence of turbidity in any water body in excess of 5 nephelometric turbidity units (NTUs) that water body shall be sampled within 7-days.

<sup>2</sup> Groundwater samples collected for mercury analysis shall be filtered using a 0.45-micron filter prior to digestion and analysis or equivalent.

<sup>3</sup> Mercury samples shall be collected using the methods described in *Sampling Ambient Water for Trace Metals* (EPA Method 1669) or equivalent

## REPORTING

All regulatory documents, submissions, materials, data, monitoring reports, and correspondence should be converted to a searchable Portable Document Format (PDF) and submitted electronically. Documents that are less than 50MB should be emailed to: [centralvalleysacramento@waterboards.ca.gov](mailto:centralvalleysacramento@waterboards.ca.gov)

Documents that are 50 MB or larger should be transferred to a CD, DVD, or flash drive and mailed to the following address:

Central Valley Regional Water Quality Control Board  
 ECM Mailroom  
 11020 Sun Center Drive, Suite 200  
 Rancho Cordova, California 95670

To ensure that your submittals are routed to the appropriate staff, the following information block should be included in any correspondence used to transmit documents to this office:

|   |                         |                        |
|---|-------------------------|------------------------|
| Facility Name: Teichert Materials, Hallwood Facility, Yuba County |                         |                        |
| Program: Non-15 Compliance  | Order: R5-2002-0138-003 | CIWQS Place ID: 229528 |

In reporting monitoring data, the Discharger shall arrange the data in tabular form so that the date, sample type (e.g., designated disposal area, groundwater, surface water body), and reported analytical result for each sample are readily discernible. The data shall be summarized to clearly illustrate compliance with waste discharge requirements and spatial or temporal trends, as applicable. The results of any monitoring done more frequently than required at the locations specified in the Monitoring and Reporting Program shall be reported to the Central Valley Water Board.

As required by the California Business and Professions Code Sections 6735, 7835, and 7835.1, all Groundwater Monitoring Reports shall be prepared under the supervision of a Registered Engineer or Professional Geologist and signed/stamped by the registered professional.

## A. Quarterly Reports

All sample data collected during the month shall be reported in the quarterly monitoring reports. Monthly Reports shall be submitted to the Central Valley Water Board **by the first day of the second month following the month of sampling** (e.g., the January monthly report is due by 1 May). At a minimum, the reports shall include the following:

1. The methods of sample collection, analysis, and laboratory results of all surface water body and designated disposal area monitoring;
2. A comparison of the monitoring data to the discharge specifications, provisions, and groundwater limitations and an explanation of any violation of these requirements;
3. A calibration log verifying calibration of all hand-held monitoring instruments and devices used to comply with the prescribed monitoring program; and
4. Copies of the laboratory analytical report(s), if requested by Central Valley Water Board staff.

## B. Semiannual Monitoring Report

The Discharger shall establish a semiannual sampling schedule for monitoring such that samples are obtained approximately every 6 months. The data shall be included in semiannual monitoring reports which shall be submitted to the Central Valley Water Board by the **1<sup>st</sup> day of the second month after the semiannual period** (i.e. the January-June semiannual report is due by August 1<sup>st</sup>) and may be combined with the 2<sup>nd</sup> quarter monitoring data. The Semiannual Report shall include the following:

1. The methods of sample collection, laboratory analysis, and results of the groundwater, surface water body, and semiannual monitoring required in the designated disposal area monitoring;
2. A scaled map showing relevant structures and features of the facility; the locations of the designated disposal area, excavation area(s), the associated buffer zones and sampling areas; and surface water body monitoring points;
3. A narrative description of all preparatory, monitoring, sampling, and analytical testing activities for the monitoring. The narrative shall be sufficiently detailed to verify compliance with the WDR, this MRP, and the Standard Provisions and Reporting Requirements. The narrative shall be supported by field logs for each well documenting depth to groundwater; parameters measured before, during, and after purging; method of purging; calculation of casing volume; and total volume of water purged;
4. Calculation of groundwater elevations and discussion of seasonal trends if any;

5. A comparison of the monitoring data to the surface water and groundwater limitations, and an explanation of any violation of those requirements;
6. Summary data tables of historical and current water table elevations and all analytical results;
7. A scaled map showing the locations of groundwater monitoring wells and groundwater elevation contours referenced to mean sea level datum; and
8. Copies of laboratory analytical report(s) for surface water body and groundwater monitoring, if requested by Central Valley Water Board staff.

### **C. Annual Monitoring Report**

An Annual Monitoring Report shall be submitted by **1 February of each year**, and may be combined with the third and fourth quarterly monitoring data. At a minimum, the Annual Monitoring Report shall include the following:

1. A written summary of the all significant actions taken during the year;
2. A tabular summary of the all data reported in the Monthly Monitoring Reports;
3. A statement of the approximate volume of recycled materials, type of recycled material (broken asphalt pavement, concrete, etc.), and the storage location of the recycled materials.
4. A map showing the current location of the designated disposal area and active excavation pond locations. The map shall indicate setback distances and locations of any surface water sampling points.
5. A discussion of compliance and the corrective action taken, as well as any planned or proposed actions needed to bring the discharge into full compliance with the waste discharge requirements; and
6. A discussion of any data gaps and potential deficiencies/redundancies in the monitoring system or reporting program.
7. A narrative discussion of the analytical results for all surface water body and groundwater locations monitored including spatial and temporal trends, with reference to summary data tables, graphs, and appended analytical reports (as applicable);

A letter transmitting the self-monitoring reports shall accompany each report. The letter shall include a discussion of violations discovered during the reporting period, and actions taken or planned for correcting noted violations, such as necessary operation or facility modifications. If the discharger has previously submitted a report describing corrective actions and/or a time

schedule for implementing the corrective actions, reference to the previous correspondence will be satisfactory. The transmittal letter shall contain a statement by the discharger, or the discharger's authorized agent, under penalty of perjury, that to the best of the signer's knowledge the report is true, accurate and complete.

This revised MRP must be implemented on the first day of the month following the issuance of the Order.

Ordered by: \_\_\_\_\_ Original signed by \_\_\_\_\_  
PAMELA C. CREEDON, Executive Officer

\_\_\_\_\_  
(Date)

DMC: 6/13/16