State of California
California Regional Water Quality Control Board
Santa Ana Region

STAFF REPORT

July 19, 2013

Item: *8

Subject: Waste Discharge Requirements for Chino Valley Truck Wash, City of Ontario, California, Order No. R8-2013-0035

DISCUSSION:

Chino Valley Truck Wash (CVTW) is owned and operated by Mr. Curt Van Diest (Discharger). The CVTW is located at 1441 South Euclid Avenue in the City of Ontario, California, as shown on "Attachment A".

On July 22, 2011, Regional Board staff received a report of waste discharge (ROWD) from the Discharger. CVTW is a commercial tanker and truck washing facility that specializes in cleaning the insides of liquid transfer tanker trucks. The CVTW does not wash or clean trucks that carry hazardous wastes. The insides of tanker trucks with residual food waste are cleaned with high pressure water containing detergents and sanitizers. All discharges from the cleaning process, including water softener regeneration brine, flow to a floor drain and then into a nearby sump. Wastewater from this sump flows into other sumps at the rear of the facility and finally all washwater is pumped into several on-site wastewater ponds (see Attachment B). The ponds were constructed with native soil and are not lined. Approximately 660 gallons per day of washwater is discharged to the un-lined ponds.

Board staff reviewed the ROWD application, and concluded that the application was incomplete. Consequently, on August 30, 2011, Board staff conducted an inspection at CVTW in an effort to gather more information regarding the facility. During the inspection, Board staff collected water samples from the wastewater ponds. Samples collected from the ponds were analyzed for inorganic constituents. As noted in the table below, the concentrations of total dissolved solids (TDS) and nitrate-nitrogen in the wastewater from the ponds exceeded water quality objectives for the underlying Chino North Groundwater Management Zone, as specified in the Water Quality Control Plan for Santa Ana River Basin (Basin Plan). The Basin Plan establishes water quality standards (including beneficial uses, water quality objectives) to protect the quality of waters of the State including groundwater basins. In addition, the Basin Plan prohibits the discharge of wastes to the ground that could adversely impact water quality unless proper control measures are implemented. High salinity wastes, such as wastes having a specific conductance greater than 2,000 umhos/cm, should be discharged to either a Class I or II surface impoundment. The specific conductance of the wastewater sample collected from the CVTW ponds was 5,280 umhos/cm.

TRUCK WASH SAMPLE RESULTS

Constituent	Wastewater Sample Results	Basin Plan Objective*
Total Dissolved Solids	4,320 mg/L	420 mg/L
Nitrate	94.6 mg/L	5 mg/L
Specific conductance	5,280 umhos/cm	<2,000 umhos/cm

* Basin Plan Objective for the Chino North groundwater management zone, which the Chino Valley Truck Wash discharges to.

Since the wastewater discharges from the truck wash exceeded the Basin Plan water quality objectives, Regional Board staff informed the Discharger that in order to continue to operate the truck wash, the Discharger must submit a plan with the design details and a schedule for construction of an impervious surface impoundment in accordance with the California Code of Regulations, Title 27, Section 20310, Table 4.1, Construction Standards for Units, and Section 20375.

The ROWD application that the Discharger submitted did not include design details for the surface impoundments for the discharge of wastewater from the truck wash, and did not comply with the above-referenced regulations. However, during a Regional Board Staff site inspection on June 11, 2013, staff observed that the Discharger was actively modifying the surface impoundments at the site to comply with the surface impoundment requirements of Title 27.

The discharge from the CVTW facility to the on-site surface impoundments is defined as a designated waste[1] in accordance with Title 27, Section 20210. Therefore, Board staff determined that it was necessary to draft waste discharge requirements for the CVTW in order to protect waters of the state.

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[1] The discharge of brine and high salinity wastes to land could adversely impact quality of waters of the State. Therefore, the brine waste and other high salinity wastes are classified as “designated wastes” pursuant to California Water Code Section 13173(b). Title 27, §20210, requires that designated wastes be discharged either to Class I or Class II waste management units. Title 27, § 20310, specifies the construction standards for waste management units including surface impoundments.

The proposed Order requires regular inspections of the facility, water quality monitoring, and freeboard documentation. These requirements are consistent with Title 27, the Basin Plan, and other State and federal laws and regulations and are considered to be adequate for the protection of the beneficial uses of the waters of the region.

STAFF RECOMMENDATION:

Adopt Order No. R8-2013-0035, as presented.

Comments were solicited from the following:

U. S. Environmental Protection Agency, Region 9 – Eileen Sheehan
State Water Resources Control Board, Division of Clean Water Program – Leslie Graves (lgraves@waterboards.ca.gov)
State Water Resources Control Board, Office of Chief Counsel – David Rice
California Integrated Waste Management Board, Sacramento – Susan Markie
South Coast Air Quality Management District – Jay Chen (jchen@aqmd.gov)
Jane Troy, San Bernardino County, Department of Public Health – LEA (Jane.troy@dph.sbcounty.gov)
California Department of Public Health, Drinking Water Program, District 20 – Riverside – Steve Williams
Yvonne Elliott, City of Ontario, yelliott@ci.ontario.ca.us

STATE OF CALIFORNIA

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
SANTA ANA REGION

ORDER NO. R8-2013-0035

WASTE DISCHARGE REQUIREMENTS
FOR
Mr. CURT VAN DIEST
dba CHINO VALLEY TRUCK WASH
CLASS II SURFACE IMPOUNDMENT
SAN BERNARDINO COUNTY

TENTATIVE

The California Regional Water Quality Control Board, Santa Ana Region (hereinafter Regional Board), finds that:

1. The Chino Valley Truck Wash (hereinafter CVTW) is owned and operated by Mr. Curt Van Diest (hereinafter Discharger). The CVTW is located at 14411 South Euclid Avenue, Ontario, California, as shown on Attachment A.

2. CVTW is a commercial tanker and truck washing facility that specializes in cleaning the insides of liquid transfer tanker trucks (tanker trucks). The CVTW only washes and cleans tanker trucks that carry non-hazardous products. Tanker trucks that arrive at the CVTW contain approximately 10 to 20 gallons of liquid food waste, such as vegetable oil, residual egg wastes, and various juices such as orange, apple, grape, and lemon juice. Any residual solid food waste in the tanker truck is removed during a pre-rinse process, and discharged to a catch basin. Solid food wastes from the catch basin are disposed of at a local municipal solid waste landfill. After the solid waste is removed, CVTW cleans the insides of the tanker trucks with high pressure water containing detergents and sanitizers.

3. All discharges from the washing process flow to a floor drain and then into a nearby sump, which is referred to as the wash-bay sump. In addition, brine waste from water softener regeneration is also discharged to the wash-bay sump. The wash-bay sump is approximately four feet in diameter and four feet deep and is concrete lined. Washwater and the brine waste from the wash-bay sump drain to the back of the facility into another sump (rear-sump) with at least two to three times the capacity of the wash-bay sump. Washwater from the rear-sump is then pumped into several on-site ponds in the rear of the facility. The ponds were constructed with native soil and are not lined. These waste containment structures are hereinafter collectively referred to as the surface impoundments or the “ponds”. Approximately 660 gallons per day of washwater

are discharged to the ponds at the site. A diagram of the CVTW facility is included as Attachment B.

4. On July 22, 2011, the Discharger submitted a Report of Waste Discharge (ROWD). On August 30, 2011, Regional Board staff conducted an inspection to gather additional information needed to evaluate the ROWD. The purpose of the inspection was to collect additional information about the truck wash operations and to characterize the wastes contained in the ponds.

5. On November 28, 2011, Regional Board staff provided comments on the ROWD and the following analytical results from the samples collected during the August 30, 2011 inspection.

    a. The sample collected from the pond contained high levels of total dissolved solids and nitrates that exceeded the water quality objectives specified in the Water Quality Control Plan for the Santa Ana River Basin (Basin Plan). The specific conductance was above the objective specified in the Basin Plan for land disposal.

CHINO TRUCK WASH SAMPLE RESULTS

Constituent	Results of the Washwater Sample	Basin Plan Water Quality Objective*
Total Dissolved Solids	4,320 mg/L[1]	420 mg/L
Nitrate	94.6 mg/L	5 mg/L
Specific Conductance	5,280 umhos/cm[2]	2,000 umhos/cm (Basin Plan Prohibition)

* Basin Plan Objective for the Chino North Groundwater Management Zone, where the CVTW is located.

6. Regional Board staff informed the Discharger that the discharge from CVTW exceeded the Basin Plan objectives and the waste containment system must be designed and constructed according to the California Code of Regulations, Title 27, Section 20310, Table 4.1, Construction Standards for Units, and Section 20375. Regional Board staff also informed the Discharger that a less costly alternative surface impoundment design could be considered, as long as the alternative affords equivalent protection against water quality impairment (see Title 27, Section 20080(b)).

7. This Order requires as the Discharger to comply with the requirements of the California Water Code, Title 27, and the Basin Plan.

[1] mg/L= milligrams per liter

[2] umhos/cm= micro mhos per centimeter

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8. A revised Basin Plan became effective on January 24, 1995, and was subsequently amended a number of times. The Basin Plan specifies beneficial uses and water quality objectives for waters in the Santa Ana Region. The requirements contained in this order are necessary to implement the Basin Plan.

9. The CVTW overlies the Chino North Groundwater Management Zone, the beneficial uses of which include:

   a. Municipal and Domestic Supply
   b. Agricultural Supply
   c. Industrial Service Supply
   d. Industrial Process Supply

10. The discharge of brine and high salinity wastes to land poses a threat to the quality of waters of the State because of their potential to adversely impact quality of waters of the State. Therefore, the brine waste and other high salinity wastes are classified as "designated wastes[3]" pursuant to Title 27 Regulations. Title 27, § 20210, requires that designated wastes be discharged either to Class I or Class II waste management units. Section 20310, Title 27, provides design criteria for Class II waste management units. Construction standards for waste management units are specified in Table 4.1.

11. This project involves an action taken by a regulatory agency where the regulatory process includes procedures for protection of the environment and, as such, is exempt from provisions of the California Environmental Quality Act (Public Resources Code, §21000 et seq.) in accordance with §15308, Chapter 3, Title 14 of the California Code of Regulations.

12. The Regional Board has notified the Discharger and interested agencies and persons of its intent to prescribe waste discharge requirements for the CVTW, and has provided them with an opportunity to submit their written views and recommendations.

13. The Regional Board, in a public meeting, heard and considered all comments pertaining to the discharge.

IT IS HEREBY ORDERED that the Discharger, in order to meet the provisions contained in Division 7 of the California Water Code and regulations adopted thereunder, shall comply with the following:

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[3] See California Water Code Section 13173 for a definition of "designated waste."

A. WASTE DISCHARGE SPECIFICATIONS

1. The ponds at the CVTW shall be designed and constructed in accordance with the California Code of Regulations, Title 27, Section 20310, Table 4.1, Construction Standards for Units, and Section 20375, or the ponds shall be designed in accordance with an approved engineered alternative as specified in Title 27, Section 20080(b).

2. All washwater shall be maintained on property owned or controlled by the Discharger.

3. There shall be no discharge to a pond if less than 12 inches of freeboard exists in that pond.

4. The discharge of hazardous waste, or designated wastes to the ponds, other than those described in this Order, is prohibited.

5. The discharge shall neither cause nor contribute to the contamination or pollution of surface water, soil or soil-pore liquid beneath the ponds, or groundwater, through the release of waste constituents.

6. The Discharger shall implement the following Water Quality Protection Measures (WQPMs) at the site by insuring that all ponds are equipped with a liner or an alternative liner containment system in accordance with A.1, above. The liners or the alternative liners must have a hydraulic conductivity of $\leq 1x10^{-6}$ cm/s[4] to impede vertical migration of waste constituents. The ponds must be designed to prevent overflows and offsite discharges.

7. Within 60 days of adoption of this Order, the Discharger shall complete the construction of the ponds and submit a “completion report” with information regarding the capacity of the ponds and the nature of the liners, including test results for the liners to show that the liners meet the Title 27 requirements for hydraulic conductivity.

B. PROVISIONS

1. The Discharger shall comply with all waste discharge specifications, provisions, and monitoring and reporting requirements of this Order immediately upon its adoption.

[4] cm/s=centimeters per second

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2. Compliance with these requirements shall be evaluated based on the following:

   a. Periodic inspections by Regional Board staff;
   b. Evaluation of the monitoring reports submitted in accordance with the attached monitoring and reporting program; and
   c. Any other relevant information.

3. The Discharger shall permit Regional Board staff:

   a. To enter, photograph, and inspect the premises in which a discharge source is located;
   b. To copy any records required to be kept under terms and conditions of this order; and
   c. To sample any discharges.

4. The Discharger shall maintain a copy of this Order at the site so as to be available at all times to site operating personnel.

5. At any time, the Discharger may file a written request, including appropriate supporting documents, with the Executive Officer of the Regional Board, proposing any appropriate modifications to the Monitoring and Reporting Program (M&RP) No. R8-2013-0035. The Discharger shall implement any changes in the revised M&RP upon receipt of a signed copy of the revised M&RP.

6. The Discharger shall notify the Executive Officer of the Regional Board by telephone (951-782-4130) or by email (wb-rb8-region8info@waterboards.ca.gov) within 24 hours of any violations of this Order that may have an immediate adverse impact on human health or the environment. This notification shall be followed within 5 days by a written report to the Executive Officer. The report shall include, at a minimum, the following:

   a. The approximate date and time of the discharge;
   b. The flow rate and duration of the discharge;
   c. The type and source of the discharge;
   d. The location(s) where discharge(s) occurred;
   e. Water sample collection points, with chain of custody records;
   f. The cause of the discharge; and
   g. A description of corrective actions implemented.

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7. The Discharger shall file a report of waste discharge with the Regional Board at least 120 days before making any material or proposed changes in the character, location, volume, or disposal methods of the discharge.

8. If any portion of the facility is to be closed, the Discharger shall notify the Executive Officer of the Regional Board at least 180 days prior to beginning any partial or final closure activities. The site closure must be performed in accordance with a closure plan approved by the Executive Officer of the Regional Board and must conform to all applicable federal and state requirements.

9. Ninety days prior to the cessation of disposal operations at the facility, the Discharger shall submit a workplan, subject to approval of the Executive Officer, for assessing the extent, if any, of impacts to natural geologic materials by wastes. Within 120 days following the workplan approval, the Discharger shall submit an engineering report presenting results of the assessment. A California registered civil engineer or a certified engineering geologist must prepare the workplan and the engineering report.

10. Upon cessation of operations at the facility, all remaining liquid in the surface impoundment shall be completely removed from the site and disposed of in a manner approved by the Executive Officer.

11. The Discharger shall provide evidence of an existing irrevocable fund for repair, closure, and post-closure maintenance of the ponds as required under Section 21769, Title 27. Evidence of the fund shall be provided within 3 months following the adoption of this Order.

12. The Executive Officer of the Regional Board is hereby authorized to amend the M&RP.

I, Kurt V. Berchtold, Executive Officer, do hereby certify that the foregoing is a full, true, and correct copy of an order adopted by the California Regional Water Quality Control Board, Santa Ana Region, on July 19, 2013.

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Kurt V. Berchtold
Executive Officer

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Attachment A - Location Map

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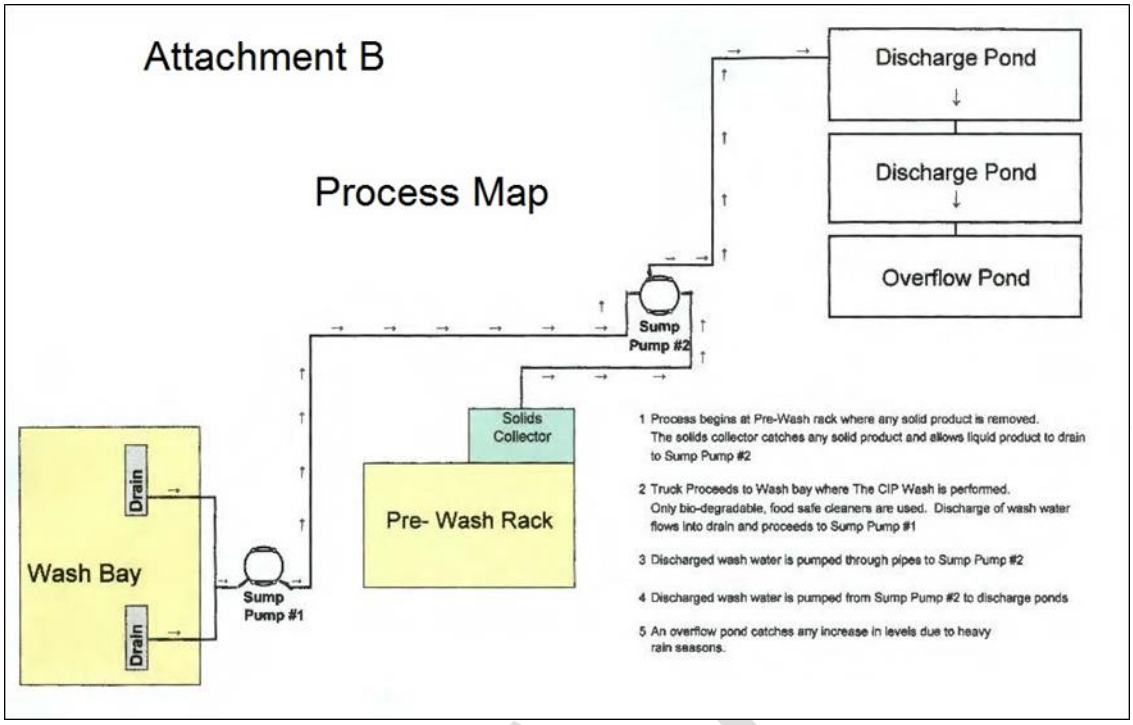
Attachment B
Process Map
Discharge Pond
Discharge Pond
Overflow Pond
Sump Pump #2
Solids Collector
Pre- Wash Rack
Wash Bay
Drain
Drain
Sump Pump #1
1 Process begins at Pre-Wash rack where any solid product is removed. The solids collector catches any solid product and allows liquid product to drain to Sump Pump #2
2 Truck Proceeds to Wash bay where The CIP Wash is performed. Only bio-degradable, food safe cleaners are used. Discharge of wash water flows into drain and proceeds to Sump Pump #1
3 Discharged wash water is pumped through pipes to Sump Pump #2
4 Discharged wash water is pumped from Sump Pump #2 to discharge ponds
5 An overflow pond catches any increase in levels due to heavy rain seasons.

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STATE OF CALIFORNIA
CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
SANTA ANA REGION

MONITORING AND REPORTING PROGRAM NO. R8-2013-0035
FOR
Mr. Curt Van Diest
dba CHINO VALLEY TRUCK WASH
CLASS II SURFACE IMPOUNDMENT
SAN BERNARDINO COUNTY

TENTATIVE

A. GENERAL MONITORING REQUIREMENTS

1. This Monitoring and Reporting Program (M&RP) establishes the requirements for monitoring and reporting associated with the disposal of designated wastes to surface impoundments ("ponds") at the Chino Valley Truck Wash (CVTW) facility.

2. Sample collection, preservation, and analysis of wastewater shall be performed in accordance with the most recent edition of *Standard Methods for Examination of Water and Waste*. Sample analysis shall be performed at a laboratory certified by the State Department of Public Health through the Environmental Laboratory Accreditation Program (ELAP).

3. All reports shall be maintained by the Discharger and shall be retained for a minimum of 5 years.

B. SITE INSPECTIONS AND MONITORING REQUIREMENTS

1. The Discharger shall conduct an annual, comprehensive inspection of each surface impoundment to assess the conditions of the Water Quality Protection Measures (WQPMs), including the integrity of the pond liner and berms, and to identify any deficient areas for maintenance to achieve compliance with the requirements of the Order. The comprehensive inspection shall be conducted in September of each year. The Discharger shall also inspect the facility after each significant storm event that results in 0.5 inches or more of rain to assess the effectiveness of the WQPMs and to identify any areas in need of repair or maintenance in order to achieve compliance with this Order.

2. All facility repair and maintenance activities must be completed by October 15 of each year to prepare the facility for the rainy season (October 1 to April 30).

3. At a minimum, the Discharger shall:

   a. Inspect the pond annually to implement any needed repair and maintenance to achieve compliance with Waste Discharge Specification, A.6 of the Order.

   b. Record the pond freeboard in a permanent log on a weekly basis during the rainy season (November – March), and monthly during the dry season (April – October).

4. Semi-annually the Discharger shall collect a water sample from one of the ponds in accordance with the schedule specified in Section C.1, below. The water sample shall be analyzed for the following constituents:

Constituents	Units	Frequency
Chloride	mg/l	Semi-annually
pH	pH Units	Semi-annually
Total Dissolved Solids	mg/l	Semi-annually
Sulfate	mg/l	Semi-annually
Nitrate Nitrogen	mg/L	Semi-annually

C. REPORTING REQUIREMENTS

1. A self-monitoring report (SMR) shall be submitted in accordance with the following schedule:

Task Description	Monitoring Period	Report Due
Monthly Pond Freeboard Inspection and Record Keeping	May – September	October 31[a]
Weekly Pond Freeboard Inspection and Record Keeping	November - March	April 30
Semi-annual Water Quality Monitoring	April 1 – September 30	October 31
	October 1 – March 31	April 30
Annual Facility Inspection	September of each year	October 31
Annual Facility Maintenance	No later than October 15	October 31
Post-storm facility Inspection	After each storm events resulting in 0.5 inch or more of rain	April 30

[a] Reports that are due on the same dates can be combined for submittal.

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An electronic copy of the monitoring report shall be uploaded to Geotracker[1] (in PDF format).

2. The semi-annual monitoring report shall include the following information:

   a. A summary of the average daily volume of washwater (gallons/day).

   b. A tabular summary of the weekly or monthly measurements of freeboard in all ponds for the past six months;

   c. A summary of the facility inspections performed for the past six months. The summary shall include a table that shows the date(s) and the name of the person who performed the annual comprehensive facility inspection and any post-storm inspection, problem areas identified, and corrective measures implemented for various waste management components of the facility, such as ponds or pond berms;

   d. A summary of any off-property discharges documented under Provision B.6 of the Order; and

   e. A copy of the laboratory analytical results of the pond water sample.

3. All reports submitted to the Board shall be signed by a responsible officer or a duly authorized representative of the Discharger, and shall be submitted under penalty of perjury to the Executive Officer of the Regional Board.

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Kurt V. Berchtold
Executive Officer

July 19, 2013

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[1] Information on Geotracker can be accessed at http://www.waterboards.ca.gov/ust/electronic_submittal/