
Central Valley Regional Water Quality Control Board

1 September 2017

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General Manager
Recology, Hay Road
6426 Hay Road
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NOTICE OF APPLICABILITY (NOA); GENERAL WASTE DISCHARGE REQUIREMENTS ORDER R5-2016-0076 FOR LIMITED THREAT DISCHARGES TO SURFACE WATER; RECOLOGY HAY ROAD LANDFILL DEWATERING PROJECT, SOLANO COUNTY

Our office received a Notice of Intent application on 20 June 2017 from Recology Hay Road (hereinafter Discharger) for continued coverage for the discharge of dewatered groundwater to surface water. The Discharger is currently covered under a Notice of Applicability (NOA) for the Limited Threat General Order R5-2013-0073, which has been renewed by Order R5-2016-0076. Based on the application packet submitted by the Discharger, staff has determined that the project meets the required conditions for approval under the General Order for Limited Threat Discharges to Surface Water (Limited Threat General Order), Tier 1B. This project is hereby assigned Limited Threat General Order R5-2016-0076-012 and National Pollutant Discharge Elimination System (NPDES) Permit No. CAG995002. Please reference your Limited Threat General Order number, **R5-2016-0076-012**, in your correspondence and submitted documents.

The enclosed Limited Threat General Order may also be viewed at the following web address: http://www.waterboards.ca.gov/centralvalley/board_decisions/adopted_orders/general_orders/r5-2016-0076_mod.pdf. You are urged to familiarize yourself with the contents of the entire document. The Limited Threat General Order prescribes mandatory discharge monitoring and reporting requirements. The project activities shall be operated in accordance with the requirements contained in this NOA and the Limited Threat General Order.

CALIFORNIA TOXICS RULE / STATE IMPLEMENTATION POLICY MONITORING

The Limited Threat General Order incorporates the requirements of the California Toxics Rule (CTR) and the State Water Resources Control Board's (State Water Board), *Policy for Implementation of Toxics Standards for Inland Surface Waters, Enclosed Bays, and Estuaries of California*, 2005, also known as the State Implementation Policy (SIP). Screening levels for CTR constituents and other constituents of concern are found in Attachment I of the Limited Threat General Order. Review of your water quality data in comparison to the screening values showed reasonable potential for the discharge of iron and manganese to cause or contribute to an exceedance of water quality objectives in the A-1 channel of Alamo Creek. Water quality-based effluent limitations for iron and manganese are required in this NOA. Based on the effluent data it appears that the Discharger can comply with the effluent limits without additional treatment.

PROJECT DESCRIPTION

The Discharger's Recology Hay Road Landfill Dewatering Project (Project) is located in Solano County. The Discharger currently conducts dewatering activities from land that is located directly west of the existing landfill, known as the "Borrow Pit" area (see enclosed Project Map). Dewatering of the Borrow Pit is necessary to harvest earthen material as landfill cover and for base liner construction. Dewatered groundwater from the Borrow Pit is pumped to an onsite storm water channel that drains into a Habitat Preservation Area (Bird Sanctuary Pond) created by the Discharger in order to mitigate landfill impacts on local migratory bird populations. The Habitat Preservation Area drains under Highway 113 and flows north for approximately ½ mile into the A-1 channel of Alamo Creek. The Discharger has historically discharged dewatered groundwater from the Borrow Pit to surface water under the Limited Threat General Order R5-2008-0082-019 and R5-2013-0073-019, and proposes to continue this activity under the renewed Limited Threat General Order R5-2016-0076. Furthermore, per the Notice of Intent the Discharger proposes to modify the source of water that is discharged.

The Discharger collects groundwater from a french drain consisting of perforated galvanized pipe that was installed in July 2016 around the northern boundary of unlined disposal module DM-1 in order to maintain a 5 foot separation between groundwater and the base of waste disposal within module DM-1. This separation is required by Title 27 Waste Discharge Requirements Order R5-2016-0056 (Title 27 WDRs) regulating the landfill. The Discharger proposes to allow the water collected from the french drain to flow by gravity to the Borrow Pit. This new source of groundwater will comingle with the groundwater within the Borrow Pit and be discharged via the Borrow Pit pump system to the onsite storm water channel. Periodic or seasonal treatment of the discharge water is currently necessary to decrease the pH to within the effluent limitation range, primarily during the summer months. The Discharger sparges carbon dioxide into the water prior to discharge. The proposed combined discharge will continue to need periodic pH treatment.

Dewatering is expected to occur throughout the year and flow rates may fluctuate seasonally in both the french drain and Borrow Pit. The total daily discharge flow from the combined Borrow Pit and french drain, based on the first quarter 2017 average, would be approximately 1.3 million gallons per day (MGD). The maximum daily discharge from the combined Borrow Pit and french drain would be approximately 3.0 MGD.

EFFLUENT LIMITATIONS

Effluent limitations are specified in Section V. Effluent Limitations and Discharge Specifications of the Limited Threat General Order. Based on the information provided in the NOI, only effluent limitations for pH, iron, and manganese, as specified in Section V.A.1 of the Limited Threat General Order, are applicable to this discharge. The applicable effluent limitations are shown below:

1. **pH (Section V.A.1.b.ii).** The pH of all limited threat discharges within the Sacramento and San Joaquin River Basins (except Goose Creek) shall at all times be within the range of 6.5 and 8.5.
2. **Constituents and Parameters of Concern.** The following constituents and parameters in Table 1 below have been identified as having reasonable potential to cause or contribute to an in-stream excursion from water quality objectives, and shall not exceed the effluent limitations as listed.

Table 1. Effluent Limitations for Constituents and Parameters of Concern

Parameter	Units	Average Monthly	Maximum Daily
Iron, Total Recoverable	µg/L	470	930
Manganese, Total Recoverable	µg/L	80	160

RECEIVING WATER LIMITATIONS

The Limited Threat General Order includes receiving surface water limitations in Section VIII.A. Based on the information provided in the NOI, only the following receiving surface water limitations are applicable to this discharge:

- Bacteria (VIII.A.2);
- Biostimulatory substances (VIII.A.3);
- Chemical constituents (VIII.A.4);
- Color (VIII.A.5);
- Dissolved oxygen (VIII.A.6.b.iv);
- Floating material (VIII.A.7);
- Oil and grease (VIII.A.8);
- pH (VIII.A.9.a);
- Pesticides ((VIII.A.10);
- Radioactivity (VIII.A.11);
- Suspended sediments (VIII.A.12);
- Settleable substances (VIII.A.13);
- Suspended material (VIII.A.14);
- Taste and odors (VIII.A.15);
- Temperature (VIII.A.16);
- Toxicity (VIII.A.17); and
- Turbidity (VIII.A.18.a).

MONITORING AND REPORTING

Monitoring and reporting requirements are contained in Attachment C of the Limited Threat General Order. The Discharger is required to comply with the following specific monitoring and reporting requirements for the effluent in accordance with Attachment C of the Limited Threat General Order.

Monitoring Locations – The Discharger shall monitor the effluent at the specified location as follows in Table 2:

Table 2. Monitoring Station Locations

Discharge Point Name	Monitoring Location Name	Monitoring Location Description ¹
001	EFF-001	A location where a representative sample of the effluent can be collected prior to discharging to the on-site storm water channel.

¹ See enclosed Project Map.

Effluent Monitoring – When discharging to the A-1 channel of Alamo Creek, the Discharger shall monitor the effluent at EFF-001 in accordance with Table C-2 of the Limited Threat General Order and this NOA. The applicable monitoring requirements are as follows in Table 3.

Table 3. Effluent Monitoring

Parameter	Units	Sample Type	Minimum Sampling Frequency	Required Analytical Test Method
Total Flow	MGD	Estimate	1/Day	--
Electrical Conductivity @ 25 °C	µmhos/cm	Grab	1/Month	1, 2
Manganese (total recoverable)	µg/L	Grab	1/Quarter	2
Iron (total recoverable)	µg/L	Grab	1/Quarter	2
pH	standard units	Grab	1/Day	1, 2
Turbidity	NTU	Grab	1/Month	1, 2
Temperature	°F	Grab	1/Month	1, 2
Dissolved Oxygen	mg/L	Grab	1/Month	1, 2
Selenium	µg/L	Grab	1/Year	2
Chronic Toxicity	--	Grab	1/Year	2, 3

- ¹ A hand-held field meter may be used, provided the meter utilizes a U.S. EPA-approved algorithm/method and is calibrated and maintained in accordance with the manufacturer's instructions. A calibration and maintenance log for each meter used for monitoring required by this Monitoring and Reporting Program shall be maintained at the Facility.
- ² Pollutants shall be analyzed using the analytical methods described in 40 C.F.R. part 136 or by methods approved by the Central Valley Water Board or the State Water Board.
- ³ See the Monitoring and Reporting Program (Attachment C) of the Limited Threat General Order for chronic whole effluent toxicity monitoring requirements.

Section II.B.2 of the Limitations and Discharge Requirements section of the Limited Threat General Order requires that dischargers submit new analytical results every 5 years for pollutants specified in Table I-1 of Attachment I. The Project is considered a Tier 1B discharge. Therefore, the Discharger shall submit monitoring results by 20 June 2022 for the following constituents shown in Table 4, below:

Table 4. Effluent Characterization Monitoring

Parameter ¹	Units	Sample Type	Required Analytical Test Method
Biochemical Oxygen Demand (BOD)	mg/L	Grab	2
Total Suspended Solids (TSS)	mg/L	Grab	2
Dissolved Oxygen (DO)	mg/L	Grab	1, 2
Hardness	mg/l	Grab	1, 2
pH	standard units	Grab	1, 2
Temperature	°F	Grab	1, 2
Electrical Conductivity @ 25 °C	µmhos/cm	Grab	1, 2

Parameter ¹	Units	Sample Type	Required Analytical Test Method
Total Dissolved Solids (TDS)	mg/L	Grab	1, 2
Turbidity	NTU	Grab	1, 2
Unionized Ammonia Nitrogen, Total (as N)	mg/L	Grab	2
Chlorine, Total Residual	mg/L	Grab	1, 2
CTR Priority Pollutants ³	µg/L	Grab	2

1. A hand-held field meter may be used, provided the meter utilizes a U.S. EPA-approved algorithm/method and is calibrated and maintained in accordance with the manufacturer's instructions. A calibration and maintenance log for each meter used for monitoring required by this Monitoring and Reporting Program shall be maintained at the Facility.
2. Pollutants shall be analyzed using the analytical methods described in 40 C.F.R. part 136 or by methods approved by the Central Valley Water Board or the State Water Board.
3. See Attachment I, Table I-3 of the Limited Threat General Order.

Receiving Water Monitoring - Not required. The on-site storm water channel into which the discharge occurs has multiple inputs prior to the discharge reaching the A-1 channel of Alamo Creek. Therefore, receiving water monitoring in the A-1 channel would not effectively identify possible impacts to the receiving water caused by the Discharger's effluent. Compliance with receiving water limitations will be evaluated through effluent monitoring.

Monitoring Report Submittals - Monitoring in accordance with this NOA shall begin upon the date of this NOA. Monitoring reports shall continue to be submitted to the Central Valley Water Board on a quarterly basis. Table 5, below, summarizes the monitoring report due dates required under the Limited Threat General Order. Quarterly monitoring reports must be submitted until your coverage is formally terminated in accordance with the Limited Threat General Order, even if there is no discharge during the reporting quarter.

Table 5. Monitoring Periods and Reporting Schedule

Sampling Frequency	Monitoring Period Begins On...	Quarterly Report Due Date
1/Day, 1/Week, 1/Month, 1/Quarter	1 September 2017	1 May (1 Jan – 31 Mar) 1 Aug (1 Apr – 30 Jun) 1 Nov (1 Jul – 30 Sep) 1 Feb, of following year (1 Oct – 31 Dec)

GENERAL INFORMATION AND REQUIREMENTS

The Discharger must notify Central Valley Water Board staff within 24 hours of having knowledge of 1) the start of each new discharge, 2) noncompliance, and 3) when the discharge ceases. The Central Valley Water Board shall be notified immediately if any effluent limit violation is observed during implementation of the project.

Discharge of material other than what is described in the application is prohibited. The required annual fee (as specified in the annual billing you will receive from the State Water Resources Control Board) shall be submitted until this NOA is officially terminated. You must notify this office in writing when the discharge regulated by the Limited Threat General Order is no longer necessary by submitting the Request for Termination of Coverage (Attachment E). If a timely written request is not received, the Discharger will be required to pay additional annual fees as determined by the State Water Resources Control Board.

ENFORCEMENT

Failure to comply with the Limited Threat General Order may result in enforcement actions, which could include civil liability. Effluent limitation violations may be subject to a Mandatory Minimum Penalty (MMP) of \$3,000 per violation. In addition, late monitoring reports may be subject to MMPs or discretionary penalties of up to \$1,000 per day late. When discharges do not occur during a quarterly report monitoring period, the Discharger must still submit a certified quarterly Monitoring Report Transmittal Form (see attached) indicating that no discharge occurred to avoid being subject to enforcement actions.

COMMUNICATION

All documents, including monitoring reports, response to inspections, written notifications, and documents submitted to comply with this NOA and the Limited Threat General Order, should be submitted to the NPDES Compliance unit, attention Kari Holmes. Ms. Holmes can be reached at (916) 464-4623 or kari.holmes@waterboards.ca.gov.

We have transitioned to a paperless office, therefore, please convert all documents to a searchable Portable Document Format (pdf) and email them to centralvalleysacramento@waterboards.ca.gov. **Please include the following information in the email:** Attention: NPDES Compliance Section; Discharger: Recology Hay Road; Facility: Recology Hay Road Landfill Dewatering Project; County: Solano; and the CIWQS place ID 747412 in the body of the email. Documents that are 50 megabytes or larger must be transferred to a DVD, or flash drive and mailed to our office, attention "ECM Mailroom-NPDES". Please include the attached Monitoring Report Transmittal Form as the first page of each monitoring report.

Any person aggrieved by this action of the Central Valley Water Board may petition the State Water Board to review the action in accordance with California Water Code section 13320 and California Code of Regulations, title 23, sections 2050 and following. The State Water Board must receive the petition by 5:00 p.m., 30 days after the date of this NOA, except that if the thirtieth day following the date of this Order falls on a Saturday, Sunday, or state holiday, the petition must be received by the State Water Board by 5:00 p.m. on the next business day. Copies of the law and regulations applicable to filing petitions may be found on the internet at: http://www.waterboards.ca.gov/public_notices/petitions/water_quality or will be provided upon request.

ORIGINAL SIGNED BY ADAM LAPTUZ FOR

Pamela C. Creedon
Executive Officer

Enclosures (3): General Order R5-2016-0076 (Discharger only)
 Monitoring Report Transmittal Form (Discharger only)
 Project Map

cc: David Smith, U.S. EPA, Region IX, San Francisco (email only)
 NPDES Unit, Division of Water Quality, State Water Board, Sacramento (email only)

Project Map – Recology Hay Road, Landfill Dewatering Project
 Site and Discharge Location Map
 R5-2016-0076-012



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LEGEND

	French drain
	Landfill Boundary
	Property Boundary

NOTES AND REFERENCES
 1) Coordinate System: NAD 1983 StatePlane California II FIPS 0402 Feet



PROJECT		RECOLOGY HAY ROAD SOLANO COUNTY, CALIFORNIA	
TITLE		SITE AND DISCHARGE LOCATION MAP	
PROJECT No.	1602002	PLN No.	1602002-01
DESIGN	AD	SCALE	AS SHOWN
DATE	10/27/17	REV	0
CLIENT	NO	DATE	10/27/17
REVISED BY	NJ	DATE	10/27/17

FIGURE 2