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## Central Valley Regional Water Quality Control Board

16 December 2014

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### **NOTICE OF APPLICABILITY (NOA); LIMITED THREAT GENERAL WASTE DISCHARGE REQUIREMENTS ORDER R5-2013-0073-01 (GENERAL ORDER); SACRAMENTO ENTERTAINMENT AND SPORTS CENTER, SACRAMENTO COUNTY**

Our office received a Report of Waste Discharge application on 9 December 2014 from Turner Construction Company for the Sacramento Entertainment and Sports Center Project (hereinafter Discharger and Project), for discharge of treated groundwater to surface water. Based on the application packet and subsequent information submitted by the Discharger, staff has determined that the project meets the required conditions for approval under the General Order for Limited Threat Discharges of Treated/Untreated Groundwater from Cleanup Sites, Wastewater from Superchlorination Projects, and Other Limited Threat Wastewaters to Surface Water (Limited Threat General Order). This project is hereby assigned Limited Threat General Order R5-2013-0073-01-040 and National Pollutant Discharge Elimination System (NPDES) Permit No. CAG995002. Please reference your Limited Threat General Order number, **R5-2013-0073-01-040**, and **CIWQS ID # 811435** in your correspondence and submitted documents.

The Limited Threat General Order is enclosed, and may also be viewed at the following web address:  
[http://www.waterboards.ca.gov/centralvalley/board\\_decisions/adopted\\_orders/general\\_orders/r5-2013-0073.pdf](http://www.waterboards.ca.gov/centralvalley/board_decisions/adopted_orders/general_orders/r5-2013-0073.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 are found in Attachment B of the Limited Threat General Order. Review of your effluent water quality data in comparison to the screening values, showed reasonable potential for the discharge to cause or contribute to an exceedance of iron, manganese, and vinyl chloride water quality objectives in the Sacramento River. However, your proposed treatment system addresses the water quality concern by reducing constituent concentrations

below water quality objectives; therefore, the Project qualifies for the Limited Threat General Order.

### **PROJECT DESCRIPTION**

The Sacramento Entertainment and Sports Center is currently being constructed at 609 L Street in downtown Sacramento. The Project is bordered to the north by J Street, to the south by L Street, and to the west by 5th Street. Soil in the site's footprint will be excavated to support construction. In order for the building foundation to be constructed, the local groundwater will need to be drawn down below the lowest point of the excavation for the foundation pile caps. To minimize the dewatering requirement, discrete areas requiring an excavation lower than the pile caps will be dewatered using localized sumps. The high groundwater table and the proximity to the Sacramento River provides for a challenging dewatering scenario. Sensitivity in dewatering the site is required due to the presence of a contaminant plume below the site, and the need to minimize any ground subsidence in the area surrounding the project.

A dewatering system has been installed at the site, composed of a set of vacuum well points along the perimeter of land within the property; enhanced with traditional gravity wells along 5<sup>th</sup> Street and along the western half of L and J Streets. Currently, dewatering effluent is discharged to the City of Sacramento's combined sewer system, and is regulated under permits issued to Sacramento Regional County Sanitation District and the City of Sacramento. The capacity of the existing combined sewer system is not expected to support the likely increase of discharge during the wet season due to engineering constraints of the combined sewer system. Therefore, the Discharger has obtained permission from the City of Sacramento to discharge approximately 4.0 MGD of treated groundwater to the City's storm water system via Sump 52, which in turn discharges to the Sacramento River, a water of the United States.

The proposed treatment system consists of three (3) 20,000 gallon settling/feed tanks, six (6) BF-1000 Bag Filter units plumbed in parallel to allow for independent operation and maintenance, pH adjustment (as needed), peroxidation (if and when needed), and six (6) media vessels plumbed three (3) in parallel lead (loaded with organo-clay media) followed by three (3) in series lag (loaded with secondary media). Following review of the initial test results with discharge to the combined sewer system, a secondary media will be selected and installed based on the results. The system also includes an auto notification alarm system and influent high water shutoff valve for system automation and safety. The water will be discharged to the combined sewer system during startup to ensure permit compliance prior to discharge to the storm drain.

This NOA authorizes the discharge of treated dewatered groundwater only, as described above. Construction site water shall not be discharged under this NOA.

### **EFFLUENT LIMITATIONS**

Effluent limitations are specified in Section V. EFFLUENT LIMITATIONS AND DISCHARGE SPECIFICATIONS of the Limited Threat General Order. The following effluent limitations are applicable to this discharge and are contained in Section V. A through C of the Limited Threat General Order:

**A. Effluent Limitations – Applicable to All Limited Threat Discharges**

**1. Priority Pollutants and Constituents of Concern**

Parameter	Units	Effluent Limitations		
		Annual Average	Average Monthly	Maximum Daily
Iron, Total Recoverable	µg/L	300	--	--
Manganese, Total Recoverable	µg/L	50	--	--
Vinyl Chloride	µg/L	--	0.5	1.0

**2. Acute Whole Effluent Toxicity.** Survival of aquatic organisms in 96-hour bioassays of undiluted waste for all limited threat discharges shall be no less than:

- a. 70%, minimum for any one bioassay; and
- b. 90%, median for any three consecutive bioassays.

**B. Effluent Limitations – Limited Threat Discharge to Specific Waterbodies**

4. 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.

The Sacramento River is listed under the Clean Water Act 303(d) List of impaired water bodies for chlordane, DDT (Dichlorodiphenyltrichloroethane), dieldrin, mercury, and PCB's (Polychlorinated biphenyls). Initial sampling data submitted by the Discharger indicated that the discharge from the Facility will not contribute to the impairment of the Sacramento River for these constituents. Therefore, no additional effluent limitations or monitoring are included in this Order based on the 303(d) list status of the Sacramento River.

**MONITORING AND REPORTING**

Monitoring and reporting requirements are contained in Attachment E of the Limited Threat General Order. The Discharger is required to comply with the following monitoring and reporting requirements as specified in Attachment E of the Limited Threat General Order.

**Monitoring Locations** – The Discharger shall monitor the effluent at the specified location as follows:

**Table E-1. Monitoring Station Locations**

Discharge Point Name	Monitoring Location Name	Monitoring Location Description
001	EFF-001	A location where a representative sample of the effluent can be collected prior to discharging to the City of Sacramento Storm Water System via sump 52.

**Effluent Monitoring** – The Discharger shall monitor the limited threat discharge during discharge to the Sacramento River as follows:

**Table E-2. Effluent Monitoring**

Parameter	Units	Sample Type	Monitoring Frequency	Required Analytical Test Method
Total Flow	gpd	Estimate	1/Day <sup>1</sup>	--
Electrical Conductivity @ 25 C°	µmhos/cm	Grab	1/Month <sup>1</sup>	2
pH	standard units	Grab	1/Day <sup>1</sup>	2
Turbidity	NTU	Grab	1/Day <sup>1</sup>	2
Temperature	°F	Grab	1/Month <sup>1</sup>	2
Dissolved Oxygen	mg/L	Grab	1/Month <sup>1</sup>	
Iron, Total Recoverable	µg/L	Grab	1/Month <sup>1</sup>	2
Manganese, Total Recoverable	µg/L	Grab	1/Month <sup>1</sup>	2
Vinyl Chloride	µg/L	Grab	1/Month <sup>1</sup>	2,3
Acute Toxicity	% survival	Grab	1/Project Term <sup>1</sup>	4

<sup>1</sup> When discharging to the surface water.

<sup>2</sup> Pollutants shall be analyzed using the analytical methods described in 40 CFR Part 136.

<sup>3</sup> For priority pollutant constituents with effluent limitations, detection limits shall be below the effluent limitations. If the lowest minimum level (ML) published in Appendix 4 of the Policy for Implementation of Toxics Standards for Inland Surface Waters, Enclosed Bays, and Estuaries of California (State Implementation Plan or SIP) is not below the effluent limitation, the detection limit shall be the lowest ML. For priority pollutant constituents without effluent limitations, the detection limits shall be equal to or less than the lowest ML published in Appendix 4 of the SIP.

<sup>4</sup> The acute toxicity testing samples shall be collected within 3 months of the initial discharge and analyzed using EPA-821-R-02-012, Fifth Edition. The test species shall be fathead minnows (*Pimephales promelas*).

**Receiving Water Monitoring** – Not required.

## REPORTING REQUIREMENTS

The Discharger must notify Central Valley Water Board staff 1) 24 hours before the initiation of the discharge, and 2) as soon as noncompliance is anticipated. The Discharger shall also notify Central Valley Water Board staff when the discharge ceases. Monitoring in accordance with the Limited Threat General Order shall begin upon initiation of discharge. Monitoring reports shall be submitted to the Central Valley Water Board on a quarterly basis, beginning with the Fourth Quarter 2014 report, which is due by 1 February 2015. If the discharge has not begun there is no need to monitor. However, a monitoring report must be submitted stating that there has been no discharge. 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.

## GENERAL INFORMATION AND REQUIREMENTS

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. 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 are subject to discretionary penalties of up to \$10,000 per violation and to Mandatory Minimum Penalties (MMP's) of \$3,000 per violation. In addition, late monitoring reports are subject to both discretionary penalties and mandatory penalties. When discharges do not occur during a quarterly report monitoring period, the Discharger must still submit a quarterly monitoring report 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 Low Threat General Order, should be submitted to the NPDES Compliance Unit, attention Lucio Orellana. Mr. Orellana can be reached at (916) 464-4660 or [Lucio.Orellana@waterboards.ca.gov](mailto:Lucio.Orellana@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](mailto:centralvalleysacramento@waterboards.ca.gov). Please also include the Discharger name, facility name, county, and CIWQS Place ID # 811435 in the body of the email. Documents that are 50 MB or larger should be transferred to a CD, DVD, or flash drive and mailed to our office, attention "ECM Mailroom-NPDES". Please include the enclosed Monitoring Report Transmittal Form as the first page of each monitoring report.

Questions regarding the permitting aspects of this Low Threat General Order, and written notification for termination of coverage under the Low Threat General Order, shall be directed to Jim Marshall of the Central Valley Water Board's NPDES Permitting Unit. Mr. Marshall can be reached at (916) 464-4772 or [James.Marshall@waterboards.ca.gov](mailto:James.Marshall@waterboards.ca.gov).

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.

Gary Ralls  
Turner Construction Company  
Sacramento Entertainment and Sports Center

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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](http://www.waterboards.ca.gov/public_notices/petitions/water_quality) or will be provided upon request.

*Original Signed by Adam Laputz for*

Pamela C. Creedon  
Executive Officer

Enclosure: General Order R5-2013-0073-01-040 (Discharger only)  
Monitoring Report Transmittal Form (Discharger only)

cc: David Smith, U.S. Environmental Protection Agency, Region IX, San Francisco (via email)  
Phil Isorena, Division of Water Quality, State Water Board, Sacramento (via email)