

## **California Regional Water Quality Control Board**

Los Angeles Region



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**Terry Tamminen** Secretary for Environmental Protection

Arnold Schwarzenegger Governor

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October 13, 2004

Mr. Ken Verheyen Astro Pak Corporation 12201 Pangborn Avenue Downey, CA 90241 CERTIFIED MAIL RETURN RECEIPT REQUESTED CLAIM NO. 7003 3110 0003 3258 3694

Dear Mr. Verheyen:

## GENERAL WASTE DISCHARGE REQUIREMENTS FOR SODIUM AND POTASSIUM PERMANGANATE INJECTION AT PETROLEUM HYDROCARBON FUEL AND/OR VOLATILE ORGANIC COMPOUND IMPACTED SITES – FORMER ASTRO PAK FACILITY, 8700-8706 CLETA STREET, DOWNEY, CALIFORNIA (FILE NO. 97-098, CI NO. 8808)

We have completed our review of your application for coverage under General Waste Discharge Requirements for the injection of sodium and potassium permanganate solution at the referenced above site in Downey, California.

Astro Pak Corporation (hereinafter Discharger) owns a former facility commonly known as the Astro Pak Facility (Site) located at 8700-8706 Cleta Street in Downey, California (Figure 1) (Latitude: 118° 07' 45", Longitude: 33° 55' 53"). The business activities at the Site involved an industrial cleaning service that used solvents, primarily tetrachloroethene (PCE) and trichloroethene (TCE). Site investigations indicate that soil and groundwater have been contaminated with volatile organic compounds (VOCs). The VOCs identified in the groundwater include PCE, TCE, cis-1,2-dicloroethene (DCE), 1,1-dichloroethane, 1,1-DCE, methylene chloride, vinyl chloride, and benzene.

On August 19, 2004, the Regional Board Executive Officer approved the Remediation Action Plan (RAP) for the Site. In the proposed RAP, the Discharger proposes to inject sodium and potassium permanganate through approximately twenty-six injection wells by geoprobes. The injection will be at two different depth zones at each injection well. The injection zones will be from 57-62 feet below ground surface (bgs) and 67-72 feet bgs respectively. On August 31, 2004, the Discharger submitted a report of waste discharge (RoWD) for injection of a sodium and potassium permanganate solution at the Site.

Groundwater depth ranges between 58 through 62 feet bgs in all twenty-seven monitoring wells installed at the site. Groundwater flow direction is to the south at a hydraulic gradient of approximately 0.0011 feet of vertical displacement per foot of horizontal distance (Figure 1).

A solution of permanganate will be injected in three phases. During the first phase the injection will be at seven injection wells (IW-1 - IW-7) using geoprobes along Buckles Street, southwest of the site. The second phase injection will be at twenty to twenty-six wells (IW-8 through IW-26) using geoprobes at the site (Figure 2). The third phase injection will be conducted only if

## California Environmental Protection Agency

necessary. During this third phase additional geoprobe injection wells will be used and the injection will be approximately six months after completion of phase II. The permanganate solution will have a powdered potassium permanganate suspended in sodium permanganate solution. The amount of sodium permanganate that will be injected in each injection point will be between 215 gallons to 500 gallons and the potassium permanganate amount will be between 110 pounds to 375 pounds.

Any potential adverse water quality impacts that may result shall be localized, of short-term duration, and shall not impact any existing or prospective uses of groundwater. In the event that hexavalent chromium concentrations exceed the baseline concentrations in any well outside the treatment area, the Discharger shall develop a contingency plan and submit to the Regional Board for approval within two months of finding the event.

Regional Board staff have determined that the proposed discharge meets the conditions specified in Order No. R4-2002-0030, "General Waste Discharge Requirements for Groundwater Remediation at Petroleum Hydrocarbon Fuel and/or Volatile Organic Compound Impacted Sites," adopted by this Regional Board on January 24, 2002.

Enclosed are your Waste Discharge Requirements, consisting of Regional Board Order No. R4-2002-0030 (Series No. 051) and Monitoring and Reporting Program No. CI-8808 and Standard Provisions.

The Monitoring and Reporting Program requires you to implement the monitoring program on the effective date of this enrollment (October 13, 2004) under Regional Board Order No. R4-2002-0030. All monitoring reports shall be sent to the Regional Board, <u>ATTN: Information Technology Unit.</u>

When submitting monitoring or technical reports to the Regional Board per these requirements, please include a reference to Compliance File No. CI-8808, which will assure that the reports are directed to the appropriate file and staff. Do not combine other reports with your monitoring reports. Submit each type of report as a separate document.

We are sending a copy of Order No. R4-2002-0030 only to the applicant. A copy of the Order will be furnished to anyone who requests it.

If you have any questions, please contact Mr. Orlando H. Gonzalez at (213) 620-2267 or Dr. Kwang Lee at (213) 620-2269.

Sincerely,

Jonathan Bishop Executive Officer

California Environmental Protection Agency

Enclosures:

- 1. Board Order No. R4-2002-0030
- 2. Monitoring and Reporting Program No. CI-8808
- cc: Mr. Robert Sams, Office of Chief Counsel, State Water Resources Control Board Mr. Michael Lauffer, Office of Chief Counsel, State Water Resources Control Board Mr. Desi Alvarez, Director of Public Works, City of Downey

- 3 -

- Mr. Ted Johnson, Water Replenishment District of Southern California
- Mr. Mark Stewart, Central Basin Watermaster, California Deparment of Water Resources
- Dr. Paris A. Hajali, Haley & Alrich, Inc.
- Mr. Lowell Kessel, Haley & Aldrich, Inc.

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