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Phase I Report

DRUM REMOVAL ACTION
OMEGA CHEMICAL SITE

Prepared for:

Omega Chemical Site PRP Organized Group
c/o Boone & Associates
901 Corporate Center Drive
Suite 204
Monterey Park, California 91754

October 13, 1995

Volume II

Prepared by:

Harding Lawson Associates
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APPENDIX A
PHASE I WORK PLAN

Phase I Work Plan
Drum Removal Action
Omega Chemical Facility
12504 East Whittier Boulevard
Whittier, California

Prepared for

Omega Chemical Site PRP Organized Group
c/o Boone and Associates
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1.0 INTRODUCTION

This Phase I Work Plan (Plan) has been prepared for the Omega Chemical Site PRP Organized Group (PRP Group) by Harding Lawson Associates (HLA). This Plan has been prepared in response to the Administrative Order (Order No. 95-15) pursuant to Section 106 of the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) of 1980, as amended, 42 USC Section 9606 (a), issued by the U.S. Environmental Protection Agency (EPA) and dated May 9, 1995.

1.1 Objective

HLA has prepared this Plan for the removal of drummed wastes and decontamination of equipment from the Omega Chemical facility (Site) located at 12504 East Whittier Boulevard in East Whittier, California.

The work effort required to properly assess, sample, evaluate, remove, and dispose of the drummed wastes, waste located in other containers, cylinders, tanks, process equipment, and all and any other hazardous wastes associated with the property will collectively be called the Drum Removal Action (DRA).

The Order states that the activities outlined in the Phase I Work Plan must be completed within 60 calendar days from approval of the Plan. This Plan presents HLA's approach to the tasks required to properly manage, transport, and dispose of the drums by determining the hazards associated with the drum contents.

The Plan consists of the following elements:

- Site Safety and Health Plan (SSHP)
- Work Plan (WP)
- Transportation and Disposal Plan (TDP)
- Sampling and Analysis Plan (SAP)
- Data Collection Quality Assurance Plan (DCQAP)
- Contingency Plan

1.2 Site Description

The Site is located at 12504 East Whittier Boulevard, Whittier, California (see Plate 1). The Site is approximately 40,000 square feet in area and consists of two buildings: a warehouse (150 by 160 feet) and an administrative building (80 by 30 feet) surrounded by a service yard. The west, east, and south boundaries of the Site are enclosed with a concrete block wall approximately 2 feet high. Additionally, a fence reaches a maximum height of 4 feet along the northeast boundary of the Site.

Adjacent to the Site and to the east is an indoor roller skating rink called Skateland, and west of the Site is Kaiser Hospital. Residential areas are located across the street and to the south of the Site.

The Order reports the numerous hazardous waste process units that were identified on Omega's RCRA Part A permit; however, all of these units were not observed at the Site during the March 14, 1995, Site visit by HLA.

The following units have been identified on Omega's RCRA Part A permit:

- 600-gallon storage tank (unknown contents)
- 20-gallon-per-hour incinerator
- 2,000-gallon-per-day pH modification chemical treatment unit
- 2,000-gallon-per-day organic compound reaction chemical treatment unit
- 0.5-ton-per-hour thermal treatment unit
- 20,000-gallon-per-day low temperature oxidation chemical treatment unit
- 2,000-gallon-per-day dewatering/drying physical treatment unit
- 2,000-gallon-per-day distillation physical treatment unit
- 3,000-gallon-per-day evaporation physical treatment unit
- 2,000-gallon-per-day solidification/stabilization physical treatment unit
- 200,000-gallon storage tank

The following provides a description of the process or waste management units that were identified on the Site during the Site visit and are included in the DRA (see Plate 2):

- Approximately 2,700 55-gallon drums are located throughout the outside service yard as shown on Plate 2. The drums remain from previous Site operations and are reported to contain primarily halogenated compounds and hazardous wastes with characteristics of ignitability and corrosivity. The drums outside, in the service yard, are stored on two large concrete pads.

- Five 5,000-gallon aboveground storage tanks (ASTs) are located in the western portion of the Site are reportedly contain process sludge. The tanks sit on a concrete pad and are surrounded by low walls.

- A rainwater sump is located in the southern portion of the Site and is considered to have served as a point of collection for surface runoff.

- Two distillation columns and two evaporators are located on the Site.

1.3 Site History

Omega Chemical Corporation (Omega) is a California corporation that had corporate offices in Whittier, California, from 1976 until at least 1991. The Site, located at 12504 East Whittier Boulevard, operated as a spent solvent recycling and treatment facility. The Site is currently owned by Mr. Dennis O'Meara, president of Omega. Drums and bulk loads of waste solvents and chemicals from various industrial activities were processed to produce commercial products. Chemical, thermal, and physical treatment processes were used to recycle and reuse the wastes. Wastes generated from these treatment activities included still bottoms, aqueous fractions, and nonrecoverable solvents.

The following historical information regarding the drums has been summarized from the Order. The accuracy of the following information has not been independently verified.

The Site is known to have operated as an offsite hazardous waste treatment and storage facility under Interim Status designation from 1976 until 1991.

Omega entered into an Administrative Order on Consent, EPA Docket No. RCRA-09-91-0005 ("RCRA Order") to implement a RCRA facility investigation and interim measures, which were signed by EPA on October 17, 1991.

On August 27, 1993, at the request of the Department of Toxic Substances Control (DTSC), EPA Federal On-Scene Coordinator, Mr. Richard Martyn, tasked the Technical Assistance Team (TAT) to conduct a site assessment at the Site. Mr. Martyn is also the EPA On-Scene Coordinator for the Phase I work. The following observations were made during the assessment:

- Approximately 2,700 drums of hazardous waste were observed to entirely fill all available storage space onsite.

- Drums were sometimes stacked on pallets, and in rows three high.

- Many drums were weathered; however, only a few drums were noted as leaking.

The conclusion of the assessment was that Omega represented a significant waste management problem; however at that time the DTSC was working with Mr. O'Meara, and it was recommended to retain the DTSC as the lead agency.

In January 1995, a second preliminary assessment of the Site was performed by the EPA and the following observations were made:

- Over 2,700 drums were present stacked three high, some without pallets between them

- A large majority of the drums appeared to be extremely corroded

- Numerous drums were observed leaking into other drums and onto the concrete pad

- Numerous spills were observed leading away from the drums to other parts of the property

1.4 Status of Drums

On March 16, 1995, HLA personnel visited the Site to assess the status of the drums located at the Site. Approximately 2,700 55-gallon drums were counted in the outside service yard.

Approximately 83 of these drums have been overpacked by IT Corporation because of deteriorated drum conditions. IT Corporation's Hazard Characterization (HazCat®) analyses on these drums revealed halogenated compounds and hazardous waste characteristic of ignitability and corrosivity. Labels identifying the exact contents of the drums were not evident. None of the drums with secured tops were opened, so the exact contents of most of the drums remain unknown.

Approximately 1,000 drums, located in the warehouse, are suspected to contain new and/or recyclable CFC product. The validity of this will be determined once both of the following conditions have been met:

- Omega justifies that this material is a useable product and provide facility batch records or other documents that indicate the material had been reclaimed; and

- Omega demonstrates that the facility has proper certification and approval, with any and all applicable permits from the local Health and/or Fire department, for the storage of such a material at the facility. Further, the owner of the facility must be in compliance with any and all OSHA requirements, including but not limited to worker training and notification requirements, placarding, and warning signs.

If records can not be made available showing the above information, then the materials/containers identified onsite by the owner as "usable product" will be sampled and sent to an EPA-approved laboratory to confirm this assertion. The results of the analysis will be compared to typical established industry standards for reclaimed CFCs to determine whether this is a useable product. If a material/container is determined to be a useable product, it will be set aside until compliance with all local codes and regulations has been determined.

If the analysis confirms the material(s) to be waste CFC refrigerant, then an amendment to the Phase I Work Plan will be submitted which will outline the management process to be implemented for the removal of these wastes from the Site.

1.5 Project Schedule

Appendix A includes a schedule of the activities associated with this Plan. One week has been provided for EPA review. Field activities will be initiated within three days of work plan approval. The DRA is scheduled to be completed within 60 days from EPA approval of the work plan.

2.0 ORGANIZATIONAL RESPONSIBILITIES AND CONTACTS

2.1 EPA On-Scene Coordinator

The EPA has designated Mr. Richard Martyn to serve as the EPA On-Scene Coordinator. Mr. Martyn will be present onsite or will be available during the DRA. The EPA On-Scene Coordinator will work with the Project Coordinator; together they are responsible for overseeing the implementation of the Order. All communications, documents, reports, and other correspondence between the PRP Group and the EPA regarding the activities onsite relevant to the Order will be directed through the EPA On-Scene Coordinator and the Project Coordinator.

2.2 Project Coordinator/Senior Superfund Project Manager

The Project Coordinator/Senior Superfund Project Manager will initially be Dr. Rajeev Sane; however, the position will be transferred to Dr. Ian Webster after the first few weeks of project implementation. The Project Coordinator/Senior Superfund Project Manager supervises all activities at the Site. The Project Coordinator, or his designee, will be the representative for signing hazardous waste manifests and review of DRA progress. The EPA On-Scene Coordinator will work with the Project Coordinator; together they are responsible for overseeing the implementation of the Order. All communications, documents, reports, and all other correspondence between the PRP Group and the EPA regarding the activities onsite relevant to the Order will be directed through the EPA On-Scene Coordinator and the Project Coordinator.

2.3 Program Manager

The Program Manager has overall responsibility for HLA in the execution of work at the Site. The Program Manager is Mr. Matthew McCullough, P.E. Mr. McCullough will work with the Project Manager to evaluate and resolve regulatory issues related to the DRA and will be available to support the Project Coordinator and EPA On-Scene Coordinator throughout the DRA. The Program Manager also serves as the advisor to the PRP Group on regulatory and technical strategies.

2.4 Project Manager

The Project Manager reports to the Program Manager and has responsibility for performance of technical aspects of work for the project. Mr. Andrew Keller will be the Project Manager for all phases of the project.

2.5 Site Supervisor

The Site Supervisor is Mr. Jim Hardesty. Mr. Hardesty is responsible for field implementation of the SSHP. As part of the requirements of the SSHP, the Site Supervisor will coordinate daily tailgate safety meetings; will work with the Field Activities Manager to establish the exclusion, contamination reduction, and support zones; and will ensure that the respiratory protection program is implemented and decontamination procedures meet established criteria. The Site Supervisor will also serve as the liaison between the EPA On-Scene Coordinator and Project Coordinator with the Project Manager.

2.6 Field Activities Manager

The Field Activities Manager is Mr. Ed McGlothin. Mr. McGlothin will direct the field activities onsite during the DRA. He will supervise field efforts and communicate regularly with the Site Supervisor and Project Manager regarding the status of the project.

2.7 Project Chemist

The Project Chemist is Mr. John Gaudot. Mr. Gaudot will be the primary point of contact for the onsite HazCat® analytical laboratory and if any samples require offsite laboratory analysis, he will coordinate sampling/laboratory analysis activities. Mr. Gaudot will provide oversight and quality assurance and quality control (QA/QC) of HazCat® and offsite analytical activities.

2.8 Designated Safety and Health Officer

The Designated Safety and Health Officer (DSHO) is Mr. Chris Corpuz. Mr. Corpuz has reviewed and approved the SSHP and serves as the primary advisor for health and safety-related issues. The Site Supervisor is responsible for field implementation of the SSHP.

2.9 QA/QC Officer

The QA/QC Officer is Mr. Doug Alvy. Mr. Alvy will assist the Program Manager in the removal and decontamination phases of the project and will ensure that all QA/QC procedures are followed and met.

2.10 Field Technicians

Field Technicians will be involved in the drum removal, tank decontamination, equipment facility decontamination, hazard characterization, waste disposal activities onsite, as well as other DRA activities.

2.11 Environmental Specialist

The Environmental Specialist will operate, maintain, and calibrate the weather station and ambient air monitoring equipment. He will also maintain daily logs and record daily observations of the weather conditions during the DRA.

2.12 Organization Chart

An organizational responsibilities chart is provided in Appendix B.

3.0 SITE SAFETY AND HEALTH PLAN

3.1 Introduction

It is HLA's intent to provide a safe work environment for employees and subcontractors. This SSHP has been developed to fulfill the following objectives:

1. Instruct employees and subcontractors on procedures to minimize the potential for injury or exposure to a hazardous condition.
2. Train employees and subcontractors on the proper action to be taken if a hazardous condition cannot be avoided by engineering controls.
3. Provide guidelines for emergency response for known hazards and hazardous situations.
4. Specify actions required to comply with applicable (1) Occupational Safety and Health Administration (OSHA) regulations and (2) state and local regulations or other requirements.

3.1.1 Purpose of the Site Safety and Health Plan

This SSHP is intended as a guideline that allows the Site Safety and Health Officer (SSHO) to respond to changing conditions and make professional judgments regarding the interpretation of monitoring data and related control measures. This SSHP also delineates health and safety responsibilities and assigns those responsibilities to project and office personnel. This document is to be read and understood by Site personnel. The specific requirements of this SSHP apply to HLA employees and subcontractors involved in implementing the DRA work. It is not applicable to other contractors and/or Site tasks unless authorized for such use by a designated HLA representative. Site personnel (employees and subcontractors) must be permitted access to this SSHP upon request. Site personnel are required to sign this SSHP as an acknowledgement of agreement, acceptance, and understanding of the contents.

3.1.2 Scope of Work

HLA will sample, characterize, and remove approximately 2,700 drums of unknown chemicals from the Site for appropriate disposal. This will involve industrial and hand-held equipment (e.g., forklift, tools) onsite. Drums will be opened and sampled. Site personnel will use hand tools and an air monitoring device such as a photoionization detector (PID) or a flame ionization detector (FID). Deteriorated drums will be overpacked and moved offsite for appropriate disposal using a forklift, hand tools, and a heavy-

duty truck. Decontamination of ASTs, distillation columns, evaporators, a sump, drum storage pads, and other equipment will be performed.

3.1.3 Implementation and Modification of the Site Safety and Health Plan

Before any activities begin on or around the Site, a health and safety tailgate meeting will be held with Site personnel to discuss safety procedures and to familiarize personnel with the potential hazards of the Site. Changes in this SSHP will be discussed with the Designated Safety and Health Officer (DSHO) before being applied at the Site. Site personnel will be informed of changes during the weekly tailgate meetings or when Site conditions or risks change.

The SSHO will perform daily inspections of the Site dependent on field activities. If any operation, practice, or equipment does not pass inspection, the SSHO will document the item in the logbook and initiate corrective actions. The SSHO will notify the DSHO of inspection findings, as appropriate. Operations will cease or the faulty equipment will be removed, as appropriate. Unacceptable practices and/or faulty equipment will be remedied immediately, and the SSHP will be modified to correct any deficiencies.

3.1.4 Approval of the Site Safety and Health Plan

Plan Prepared By:	Carol Hamilton (Name)	Staff Environmental Scientist (Title)
	(Signature)	(Date)
Plan Approved By:	Andrew Keller (Name)	Associate Environmental Scientist (Title)
	(Signature)	(Date)
	Chris Corpuz (Name)	Associate Industrial Hygienist (Title)
	(Signature)	(Date)

Plan Revised By:

(Name)	(Title)
(Signature)	(Date)
(Name)	(Title)
(Signature)	(Date)

3.2 Site and Project Information

This section provides a general description of the Site and a discussion of chemicals previously detected in onsite media and chemicals suspected to be present onsite. A discussion of Site zones is also provided.

3.2.1 Site Location and Description

The Omega Chemical Site is bounded on the northwest by Pacific Place, on the southeast by Washington Boulevard on the northeast by Whittier Boulevard and on the southwest by Putnam Drive. The Site is approximately 40,000 square feet and is comprised of two buildings, a warehouse and an administrative building; both are surrounded by a service yard. The size of the warehouse is approximately 150 by 160 feet and the administrative building is approximately 80 by 30 feet. A site plan is presented as Plate 2.

The Omega Site includes approximately 2,700 55-gallon-drums containing a variety of unknown materials. A large number of drums appear to have deteriorated due to long-term storage and exposure to the weather; however, only a few of the drums inspected displayed any signs of gross deterioration or leakage.

3.2.1.1 Site Status

____ Active/Open ____ Inactive/Open __X__ Inactive/Closed ____ Unknown

3.2.1.2 Site History

The Omega Site was a spent solvent recycling and treatment facility (primarily chlorinated hydrocarbons and chlorinated fluorocarbons) that operated from 1976 until at least 1991. Omega utilized a variety of chemical, thermal, and physical treatment processes to recycle and reduce wastes. Drums and bulk loads of waste solvents and chemicals from various industrial activities were processed to produce commercial products. Waste generated from the treatment activities included still bottoms, aqueous fractions, and non recoverable solvents. The Omega Site entered into an Administrative Order on Consent, to implement a RCRA facility investigation and interim measures, which was signed by EPA on October 17, 1991. On August 27, 1991, the DTSC requested the EPA to conduct a Site assessment at the Omega Site. The conclusion reached from the 1993 Site assessment was that Omega represented a significant waste management problem; however, the state was working with the owner/operator, and the Site should retain a state lead. In January 1995, the Superior Court ordered that all operations cease at the Site.

3.2.1.3 Surroundings

The Site is surrounded by Presbyterian Hospital, Nelles School for Boys, and Whittier Union High School. The area is well developed with primarily industrial, commercial, and residential areas. Additionally, the Puente Hills are located north of the Site.

3.2.1.4 Climate

Average Wind Speed and Direction: 7.5 (mi/hr) from the west-southwest

Humidity: _x_ Arid ___ Semiarid ___ Humid ___ Tropical

	Nov
Mean High Temperature (°F)	75.1
Mean Low Temperature (°F)	56.8

3.2.1.5 Locations of Resources Available to Onsite Personnel

Toilet facilities: Onsite
Drinking water supply: Onsite
Telephone: Onsite
Radio: N/A

3.2.2 Chemicals Detected in Onsite Media

Not applicable to the DRA.

3.2.3 Chemicals Suspected to be Present Onsite

Chemicals that have not been detected onsite but that HLA suspects may be present onsite include dilute aqueous waste, still bottom residuals, and non-recyclable organic wastes.

3.2.4 Site Control Zones

Site control zones will be established to prevent or minimize exposure (of unauthorized personnel) to hazards by establishing boundaries to reduce migration of contaminants into clean areas. A three-zone approach will be used for field activities, as appropriate (e.g., nonhazardous work sites do not require the use of site zones). The zones will be determined by the SSHO and/or the Site Supervisor and will be identified during safety briefings, as well as clearly marked by traffic cones, fencing, barricades, signs, or other means. These three zones will be designated as the Support Zone, the Contamination Reduction Zone, and the Exclusion Zone. Site entrance and exit will be through controlled access points established for each work location.

3.2.4.1 Support Zone

The Support Zone is the clean area in which the possibility of encountering hazardous materials or conditions is minimal. Therefore, personal protective and respiratory equipment are not necessary. This area will be used for administrative and other support functions needed to keep the exclusion zone and CRZ running smoothly. Inside the Support Zone, the following will be available: an effective means of communication, first-aid supplies, fire extinguisher, drinking water, and other appropriate support equipment. The Support Zone will also serve as the main point of contact for the visitor check-in and

initiation of emergency services when necessary. The Omega office or a portable trailer will be utilized for administrative purposes.

3.2.4.2 Contamination Reduction Zone

The Contamination Reduction Zone is the area where equipment and personnel are decontaminated before leaving the Exclusion Zone. The purpose of this zone is to reduce the probability that the support zone will become contaminated. The CRZ will be established just outside the exclusion zone. The CRZ will be the area where sealed, characterized, and DOT-transportable drums are transferred to vehicles located in the support zone. A fork lift will be dedicated to work exclusively in the CRZ to minimize hazard exposure and decontamination efforts.

The CRZ will also be utilized for decontamination of PPE and equipment leaving the exclusion zone. Personnel will remove and/or decontaminate personal protective equipment (PPE) and place it in appropriate containers. Site vehicles and equipment will also be decontaminated in the Contamination Reduction Zone. The Contamination Reduction Zone will consist of a decontamination pad (temporary or permanent); a means of washing protective equipment, site vehicles, and equipment; containers for liquids, solids, and PPE; first-aid supplies; an eyewash/emergency shower; and a fire extinguisher.

3.2.4.3 Exclusion Zone

The Exclusion Zone is the area where contamination does or could occur and the potential for exposure is greatest. The exclusion zone includes the work activities at the Site (e.g., initial drum handling, sampling, and steam cleaning, etc.) Only authorized, trained, and qualified personnel with the appropriate personal and respiratory equipment will be admitted. All personnel within the exclusion zone will wear level B PPE based on the EPA level of protection guidelines. Personnel entering the Exclusion Zone must use the buddy system. The level of protection may be modified to reflect any hazards discovered during the DRA. The exclusion zone will move and continually decrease in size as drum removal activities progress.

Work activities within the Exclusion Zone pose the greatest possibility of exposure to personnel and equipment. The Site Supervisor will be responsible for controlling the access points and keeping bystanders and unauthorized personnel to a minimum. The Exclusion Zone will be clearly marked with flagging, fencing, barricade tape, traffic cones, or other indicators to limit access.

3.2.5 Site Control

The Site will be enclosed by an 8-foot high chain-link fence with razor wire top to maintain Site control at the facility prior to initiation of field activities. A security guard will be onsite when the project management team or the workers are not present throughout the entire project.

3.3 Project Organization and Personnel Requirements

This section presents discussions of health and safety responsibilities of key personnel and HLA personnel requirements.

3.3.1 Organization and Safety Responsibilities

To meet its health and safety objectives, HLA has developed a line of reporting and tasked individuals with health and safety responsibilities. This information is presented below. Exhibit 1 presents an organization flow chart illustrating the lines of reporting for the personnel noted in this section.

PROGRAM MANAGER: Matthew McCullough
(Name)

To receive, consider, and initiate action upon recommendations from project personnel and/or the DSHO. Overall responsibility for the implementation and effectiveness of the HLA Health and Safety Program.

PROJECT MANAGER: Andrew Keller
(Name)

Acquaint field personnel with potential hazards and procedures to minimize the negative impact of those hazards. Make available proper PPE, adequate time and budget, and trained personnel to perform site work in a safe manner. Arrange for preparation of an SSHP. Investigate and report to the DSHO each work-related illness or injury, near-misses, accidents, and damage to physical property.

DESIGNATED SAFETY AND HEALTH OFFICER: Chris Corpuz
(Name)

Write or review and approve the SSHP. Implement health and safety procedures that are stated in the SSHP. Conduct periodic audits to confirm that the SSHP is being followed. Select PPE and monitoring instruments to be used at the field site. Revise SSHPs based on advisories received from the SSHO based on actual site conditions.

SITE SUPERVISOR: Jim Hardesty
(Name)

Ensure that site personnel have read and signed the master copy of this document Exhibit 2. Coordinate with the SSHO on accident investigations, as necessary. (See Accident Investigation Form in Exhibit 3

SITE SAFETY AND HEALTH OFFICER: Jim Hardesty
(Name)

Ensure that the guidelines, rules, and procedures in this document are followed for Site work. Check that Site personnel meet OSHA requirements regarding training, medical examinations, and fit testing. Be familiar with local emergency services. Conduct a tailgate health and safety meeting before work startup and weekly thereafter. Additional meetings may be required for specific projects or Site activities. Maintain and inspect PPE and monitoring instruments, monitor onsite hazards, and monitor the physical condition of Site personnel. Perform daily inspections of work site activities. Maintain health and safety files, which will include training and medical certifications, tailgate meeting notes and rosters, inspection reports, or other health and safety documentation, as applicable. Shut down operations that pose a potential threat to site personnel.

TECHNICIANS: Dave Hill, Alex Vargas, and Wes Haydock
(Names)

Obey health and safety work practices issued by law and by HLA. Wear PPE as directed by this SSHP. Use safety equipment as directed by this SSHP.

VISITORS

Follow the direction of the Site Supervisor or the SSHO. Read, understand, and sign the SSHP. Do not enter the work zones unless the appropriate OSHA-required training and medical monitoring has been obtained. Use PPE, as appropriate.

SUBCONTRACTORS: Allwaste, ENSCO
(Name)

Follow the guidelines, rules, and procedures in this document. Report recognized unsafe conditions and actions to the SSHO and/or the Site Supervisor. Provide Material Safety Data Sheets (MSDSs) for subcontractor-provided materials at the job site.

3.3.2 Personnel Requirements

A minimum of two personnel must perform the Site activities for this project; however, a total of twelve personnel is the maximum anticipated to be on the Site at a given time. The project is expected to take 60 days for completion.

3.4 Project Hazard Identification and Mitigation

This section discusses general health and safety work practices and hazard identification and mitigation. PPE and monitoring instruments that will be used onsite are also discussed.

3.4.1 General Health and Safety Work Practices

HLA's general safety policy advocates exercising every reasonable precaution when performing the work to prevent property damage and to protect the health and safety of employees, the public, and the environment.

Employees have certain responsibilities for their own safety, as follows:

- Report to work rested and physically and mentally fit to perform the job assignment.
- Working while under the influence of intoxicants, narcotics, or controlled substances is prohibited.
- Wear suitable clothing for the weather and the work.
- Wear PPE and follow established procedures for a particular job. Do not wear jewelry or loose-fitting clothing when operating or near equipment.
- Call the supervisor's attention to any behavior or condition that may cause injury or illness to others or damage to property.
- Read warning labels on containers and equipment. Follow specified precautions.
- Discontinue any operation that could lead to injury, illness, or property damage.
- Keep horseplay and other disruptive behavior away from the job.
- Promptly report to the Site Supervisor, SSHO, or DSHO any occupational injury, illness, or exposure to toxic material. If injured, get first aid. Small injuries can become serious if neglected.
- Promptly inform the Site Supervisor, SSHO, or DSHO whenever new substances, processes, procedures, or equipment that could present new safety and health hazards are brought into work areas or onto projects.
- Do not eat, smoke and/or chew tobacco, or chew gum in the Exclusion Zone or the Contamination Reduction Zone.
- Do not allow visitors without adequate safety training into the Exclusion Zone or the Contamination Reduction Zone.
- Work upwind of field activities when it is possible to do so.
- Perform work in a manner that will minimize dust from becoming airborne (i.e., use water spray or wet technique when feasible).
- Do not work alone inside the Exclusion Zone. Use the "buddy system" defined in OSHA 29 CFR Section 1910.120 or applicable state regulations during all work activities.
- Enter the Exclusion Zone only while in proper PPE and with a "buddy." The buddy system will also be in effect at any work zone where respirators are being worn.

- While in the Exclusion Zone, avoid contact with objects or soil unless the contact is necessary to the field operation.
- Be alert to abnormal behavior of other personnel that may indicate distress, disorientation, or other ill effects.
- Verify that vehicles have an ABC-rated fire extinguisher, a first-aid kit, and 32 ounces of eyewash fluid.
- Monitor weather conditions, particularly wind direction, because they could affect potential exposure.
- Be aware of the amount of solar radiation exposed skin is receiving. Take steps to minimize the potential for sunburn.
- Operate a vehicle only if you are a licensed driver. Seatbelts must be worn when operating a company vehicle or when driving a private vehicle on company business.
- Drive vehicles in a safe manner and obey traffic regulations.
- Operate a forklift only if you are a trained operator.
- Contact the DSHO if contact with human body fluids occurs during the administration of first aid.

These general safety responsibilities also apply to subcontractors and visitors.

3.4.2 Project Hazard Analysis

This section provides information regarding potential hazards that might be encountered during field activities and the risk(s) associated with each hazard. Projects are identified by activity numbers as follows:

Activity Number	Job Project
1	Mobilization/demobilization
2	Drum opening and sampling
3	Drum overpack and removal
4	Decontamination of AST's, distillation columns, evaporators, a sump, and drum storage pads
5	Assess other containers, cylinders, tanks, process equipment, hazardous equipment, substances, and wastes
6	Analyze other containers, cylinders, tanks, process equipment, hazardous equipment, substances, and wastes
7	Remove other containers, cylinders, tanks, process equipment, hazardous equipment, substances, and wastes

The hazard analysis evaluates the possible type of hazards at the site by project. This analysis is presented in Exhibit 4.

Procedures that will be used to minimize hazards identified onsite are listed in this section. The applicable activity number(s) is shown next to the procedure to mitigate the hazard. Hazards not presently applicable or anticipated to ever become applicable onsite are identified by "N/A."

Hazards	Activity Number	Procedures to Mitigate Hazards
Physical		
	All	Keep ground clutter in the work area to a minimum to minimize the potential for tripping.
	All	Use caution when the ground surface is slick or uneven.
	All	Clean up liquid spills or use sorbent material (e.g., dry soil) to minimize the potential for loss of footing.
	4,5,6,7	Use appropriate devices (e.g., ladder) to access high areas.
	All	Exercise caution when using hand tools.
	All	Use proper lifting and reaching techniques.
	All	Use hand carts or ask for assistance when lifting or moving heavy loads.
	N/A	Wear safety vests and be aware of motorized traffic when working in roadways or on road shoulders.
	3,7	Use a squeegee or a wide-head broom to guide drums into overpacks. Do not use hands, arms or legs to guide the drums.
Mechanical		
	N/A	Do not stand near backhoe buckets and earthmoving equipment.
	2,3,7	Establish communication hand signals with heavy equipment operators.
	All	Verify daily that all equipment and associated tools are in good condition.
	3,4,5,6,7	Do not stand or walk under elevated loads or ladders without appropriate guarding.
	N/A	Identify the drilling rig kill switches to personnel.
	2,3,4,5,6,7	Do not repair equipment while it is in operation.
	All	Immediately remove defective equipment from the work site for subsequent repair.
	2,3,4,5,6,7	Obtain safety training before operating heavy equipment, such as forklifts, bobcats, front-end loaders, and vacuum trucks.
	All	Wear a seatbelt if you are a heavy equipment operator or a motor vehicle occupant.
	2,3,4,5,6,7	Do not ride on the forks of lift truck, vacuum truck, or front-end loader buckets, or on a load, rigging, hook, or ball.
	N/A	Perform load tests (as required by OSHA regulations) on cranes and hoists before personnel are permitted to ride in the cage.

Hazards	Activity Number	Procedures to Mitigate Hazards
	All	Inspect motor vehicles and heavy equipment before operating.
	2,3,4,5,6,7	Do not wear loose clothing near operating equipment. Tie back long hair.
	All	Consult the DSHO if other mechanical hazards exist.
Electrical		
	N/A	Locate and mark buried utilities before drilling or excavating.
		Utilities located by _____ on _____. (To be completed by the Site Supervisor when location is complete.)
	N/A	Obtain permits, licenses, or right of entry required by local or state authorities.
	All	Maintain at least a 20-foot clearance (or minimum recommended by local utility company) from overhead powerlines. Contact the client for additional requirements.
	N/A	Contact the utility company for information regarding minimum clearance from high-voltage powerlines.
	N/A	If unavoidably close to buried or overhead powerlines, have power turned off, with circuit breaker locked and tagged or have the local utility company mask the wires.
	All	Properly ground electrical equipment. Use only three-wire grounded receptacles and extension cords.
	All	Do not stand in water when operating electrical equipment.
	All	Do not make electrical repairs or install electrical equipment unless you are qualified.
	All	If equipment must be connected by splicing wires, be sure connections are properly taped and that the splice is electrically and mechanically equal to the cord's quality.
	All	Be familiar with specific operating instructions for each piece of equipment.
	All	Consider all wires live until locked and tagged out.
	All	Do not use metal ladders within 4 feet of an electrical source.
	All	Use ground fault circuit interrupters (GFCIs) if operating outdoor electrical equipment.
Chemical		
	All	Use PPE as indicated in Section 3.4.3, or as directed by the SSHO.
	2,3,4,5,6,7	Conduct direct-reading air monitoring to evaluate respiratory and explosion hazards (list instrument, action level, monitoring location, and action to be taken in Section 3.5).

Hazards	Activity Number	Procedures to Mitigate Hazards
	N/A	Locate underground pipelines before drilling or excavating.
	All	Do not use spark-ignition equipment when in a flammable or combustible environment.
	All	Do not smoke, except in designated areas.
	2,3,4,5,6,7	Use fans to disperse airborne contaminants at the work site. No sparking or open flame equipment will be permitted inside the Exclusion Zone if there is a potential of reaching the Lower Explosive Limit (LEL) of contaminants present at the site.
	All	Respirators with high-efficiency particulate/air (HEPA) filters should be worn if there is a potential for contaminated dust at the site, or if asbestos-containing material (ACM) is being disturbed.
	4,5,6,7	Thoroughly ventilate chemical storage areas before entering.
	All	Consult the DSHO or SSHO for personal air monitoring.
Temperature		
Heat stress		
	All	When temperature exceeds 70°F, take frequent breaks in shaded area. Unzip or remove coveralls during breaks. Have cool water or electrolyte replenishment solution available. Drink small amounts frequently to avoid dehydration. Count the pulse rate for 30 seconds as early as possible in the rest period. If the pulse rate exceeds 110 beats per minute at the beginning of the rest period, shorten the work cycle by one-third.
Natural		
	All	Wear long sleeves and/or sun block on sunny days.
	All	Cease field activities during severe storms. Seek shelter until the storm has passed.
	N/A	If an earthquake occurs while working outside: - Stay away from buildings, trees, and power lines. - If operating a motor vehicle or heavy equipment, stop immediately but stay in the vehicle or piece of equipment until the tremors have stopped.
	All	Use a moisturizing cream before and after work as necessary to minimize wind burn.
Biological		
	N/A	Do not touch infectious waste or any items suspected of being infectious waste.
	All	Do not approach or agitate animals, especially ones behaving strangely or foaming at the mouth.

Hazards	Activity Number	Procedures to Mitigate Hazards
	N/A	Do not touch refuse suspected of being from a biological or animal laboratory. Contact the DSHO for procedures involving biological laboratory refuse.
	N/A	If possible, avoid contact with poisonous snakes or other reptiles by quietly walking away. If bitten, seek medical assistance immediately.
	All	Avoid contact with rodents because they frequently are hosts to fleas, which can carry typhus and the plague. Rodent urine and feces may also contain spirochetes harmful to human health.
	All	Avoid encounters with stinging insects.
Acoustical		
	All	Post appropriate signs in areas of hazardous noise.
	All	Use carplugs or earmuffs when noise prevents conversation in a normal voice at a distance of 3 feet. (This is a "rule of thumb" that indicates noise levels are exceeding 85 decibels.) Double protection (e.g., earplugs and muffs) must be used for noises exceeding 104 decibels.
	All	Contact the DHSO for a noise survey, as needed.
Confined Spaces		
	4,5,6	Confined spaces include trenches, pits, sumps, elevator shafts, runnels, or any other area where circulation of fresh air is restricted or the ability to readily escape from the area is restricted. Consult the DHSO and HLA Health and Safety Policy and Procedures Manual before entering a confined space.
	4,5,6	Obtain a permit for confined space entry from the DHSO.
	4,5,6	Monitor oxygen (O_2), LEL, and organic vapors before entering a confined space. If the following values are exceeded, do not enter: - O_2 less than 19.5 percent or more than 23 percent - Total hydrocarbons greater than 5 parts per million (ppm) above background, if all air contaminants are not identified. - Concentrations of specific contaminants exceeding action levels in Section 5.5.1 if all air contaminants are identified. - Flammable gases more than 10 percent of the LEL.
	4,5,6	Monitor O_2, LEL, and organic vapors continuously while inside a confined space. If Threshold Limit Values (TLVs) cited in Appendix A are exceeded, evacuate immediately. Record instrument readings.

Hazards	Activity Number	Procedures to Mitigate Hazards
	4,5,6	Ensure that at least one person capable of pulling personnel from the confined space is on standby outside the confined space. The observer must be trained in cardiopulmonary resuscitation (CPR) and first aid.
	4,5,6	Use portable fans or blowers to introduce fresh air to confined spaces whenever respirator use is required.
	4,5,6	Do not perform work that involves the use of flame, arc, spark, or other source of ignition in a confined space.
Fire/Explosion		
	All	Use a fire extinguisher only to escape or to fight very small fires. Do not attempt to fight large fires.
	All	Field vehicles must have a 5-pound ABC-rated fire extinguisher.
	3,4,5,6,7	Heavy equipment (e.g., drilling rig) must have a 20-pound ABC-rated fire extinguisher.
	All	Obtain fire extinguisher use training.
	All	Obtain "hot work" permits when appropriate.
	N/A	Work with explosives or around unexploded ordnance at a site only if you are authorized and qualified to do so.
	All	Explosive or flammable material will be stored only in approved facilities as described in 27 CFR Section 181 or applicable state regulation.
	All	Do not smoke or operate spark-ignition equipment within 50 feet of explosive or flammable storage or where flammable liquid or vapor is present.
	All	Do not use equipment that may generate a spark where the potential presence of explosive gas or vapor is suspected. At these sites, an explosimeter must be used.
	All	Use a combustible gas indicator when working at a site with the potential for explosive gas or when the potential for flammable vapor exists.
	N/A	Use fans as an engineering control to limit buildup of explosive gas.

1 = Mobilization/demobilization
2 = Drum opening and sampling
3 = Drum overpack and removal
4 = Decontamination of AST's, distillation columns, evaporators, a sump, and drum storage pads
5 = Assess other containers, cylinders, tanks, process equipment, hazardous equipment, substances, and wastes
6 = Analyze other containers, cylinders, tanks, process equipment, hazardous equipment, substances, and wastes
7 = Remove other containers, cylinders, tanks, process equipment, hazardous equipment, substances, and wastes

3.4.3 Required Personal Protective Equipment and Related Safety Equipment and Procedures

Personal Protective Equipment. This section describes the available levels of PPE as specified by 29 CFR 1910.120 Appendix B. The SSHO will be responsible for selecting the PPE appropriate to the actual work site conditions. Site personnel will only use PPE for which they have received training on the appropriate use and inspection. PPE for HLA employees will be supplied by HLA. Subcontractors and Site visitors will be required to supply their own PPE.

Since the exclusion zone is the area where contamination does or could occur and this is the zone with the highest potential for exposure to contaminants by dermal contact or inhalation, all personnel within this zone will wear Level B PPE. The forklift operator in the exclusion zone will also be in Level B PPE and will have a dedicated air cylinder to supply air to the forklift operator. A detailed description of the control zones and the level of PPE that personnel within each zone will be required to wear is given in Section 4.3 of the Plan.

Related Safety Equipment and Procedures. Spill containment materials will be available onsite at all times. The material will include absorbent (clay), booms, and absorbent pads. Shovels, brooms, and empty drums will be available as needed. An explosion-proof pump will also be available to remove materials from drums which show signs failing. Appendix C details the procedures which ensure that drums are safely handled and opened during DRA activities.

3.4.3.1 Levels of Personal Protective Equipment

Level D PPE

A work uniform affording minimal protection used for nuisance contamination only. The following constitute Level D PPE, which may be used as appropriate:

- Coveralls or field clothing
- Nitrile gloves and undergloves (optional as applicable)
- Boots/shoes; chemical-resistant, steel toe and shank
- Safety glasses or chemical splash goggles
- Hardhat (optional as applicable)

- Earplugs and/or earmuffs (optional as applicable)
- Escape mask (optional as applicable)
- Face shield (optional as applicable)

Modified Level D PPE

This level of protection applies when concentration(s) and type(s) of airborne substance(s) are known to be below the PELs/threshold limit values (TLVs). Air-purifying respirators should be readily available. The following Modified Level D PPE, which may be used as appropriate:

- Chemical-resistant clothing (Saranex)
- Coveralls or field clothing
- Nitrile gloves
- Undergloves
- Boots, chemical-resistant, steel toe and shank
- Safety glasses or chemical splash goggles
- Hardhat (optional as applicable)
- Earplugs and/or earmuffs (optional as applicable)
- Escape mask (optional as applicable)
- Face shield (optional as applicable)

Note: Use of an air-purifying respirator with Modified Level D PPE will constitute Level C PPE.

Level C PPE

This level of protection applies when the concentration(s) and type(s) of airborne substance(s) are known and the criteria for using air-purifying respirators are met. The following constitute Level C PPE, which may be used as appropriate:

- Full-face or half-mask, air purifying respirators (NIOSH-approved) with appropriate cartridges. Employees working on this project will use organic vapor/acid mist/HEPA filter cartridges unless analysis of contaminants indicate a more appropriate cartridge

- Chemical-resistant clothing (hooded Saranex unless approved by the DSHO or SSHO)
- Coveralls or field clothing
- Nitrile gloves
- Undergloves
- Boots, chemical-resistant, steel toe and shank
- Boot covers, chemical-resistant (disposable)
- Hardhat (optional as applicable)
- Earplugs and/or earmuffs (optional as applicable)
- Escape mask (optional as applicable)
- Face shield (optional as applicable)

Level B PPE

This level of protection applies when the highest level of respiratory protection is necessary but a lesser level of skin protection is needed. The following constitute Level B PPE, which may be used as appropriate:

- Positive pressure, full-face self-contained breathing apparatus (SCBA), or positive pressure supplied air respirator with escape SCBA (NIOSH-approved)
- Hooded Saranex
- Coveralls or field clothing
- Nitrile gloves
- Undergloves
- Boots, chemical-resistant, steel toe and shank
- Boot covers, chemical-resistant (disposable)
- Earplugs and/or earmuffs (optional as applicable)
- Hardhat (optional as applicable)
- Earplugs and/or earmuffs (optional as applicable)
- Face shield (optional as applicable)

3.4.3.2 Unknown Situations

For unknown, uncharacterized, and unanticipated situations, field activities must begin in Level B PPE. Downgrade to Level C or D PPE will not be permitted until analytical data for the Site have been reviewed. The DSHO and/or the SSHO must approve the downgrade. The forklift operator will remain in Level B PPE with a dedicated air tank during all exclusion zone activities.

3.4.3.3 Confined Spaces

The following policies and procedures serve as a general guideline for confined space entry situations, a detail description of the confined space policy and procedures to be implemented, if needed, during DRA activities is included as Appendix D.

1. Employees will not enter manholes, underground vaults, chambers, tanks, silos, or other similar places that receive little ventilation, unless it has been determined that it is safe to enter.

2. Entry into a confined space will be prohibited until a written "confined spaces entry permit" has been completed and its atmosphere has been tested from the outside for toxic and flammable contaminants and oxygen content.

3. Entry into a confined space will be prohibited if flammable gases exceed 10 percent of the lower explosive limit (LEL) or oxygen concentration is less than 19.5 percent or exceeds 23.5 percent.

4. Entry into a confined space containing toxic contaminants in concentrations at or exceeding the threshold limit value (TLV) will be permitted only with appropriate PPE (i.e., respiratory protection) and will only be performed by qualified personnel.

5. The DSHO will be contacted for further information about OSHA confined space regulations.

3.4.3.4 Heat Stress

Before the workers actually begin work in their PPE ensembles the anticipated duration of the work mission shall be established. Several factors limit mission length, including:

- Suit/Ensemble permeation and penetration rates for chemicals.
- Ambient temperature and weather conditions (heat stress cold stress).

- Capacity of personnel to work in PPE.

The following work-rest schedule will be used for fit and acclimatize workers:

Temperature Adjusted (°F)	Physiological Monitoring After Minutes of Work
72.5-77.5	120 minutes of work
77.5-82.5	90 minutes of work
82.5-87.5	60 minutes of work
87.5-90	30 minutes of work
90 or above	15 minutes of work

To calculate the adjusted temperature: $T_{(Adjusted)} = T_{(Actual)} + (13 \times \text{fraction sunshine})$

Measure the air temperature with a standard thermometer. Estimate fraction of sunshine by judging what percent of the sun it out:

100% sunshine	No cloud cover	1.0
50% sunshine	50% cloud cover	0.5
0% sunshine	Full cloud cover	0.0

One or more of the following control measures will be used to help control heat stress:

- To replace water and salt lost from sweating, employees will be encouraged to drink more water than that to satisfy their thirst. Cool fresh water will be available. Employees will be encouraged to slightly increase their sodium intake, unless medically restricted.
- Work regimes will provide adequate rest periods for cooling down.
- All breaks will be taken in a cool rest area.
- Employees will remove PPE during rest periods.
- Employees will not be assigned other tasks during rest periods.
- All employees will be informed of the importance of adequate rest, reduced alcohol intake, and proper diet in the prevention of heat stress.

Cold stress is not anticipated for this project.

3.4.4 Exclusion Zone Air Monitoring for DRA Activities

This section describes instruments and procedures that to be used in air monitoring during DRA activities. It may not be necessary to perform all of these activities at the Site. Final decisions regarding air monitoring will be made by the DSHO or the SSHO.

A daily monitoring log will be kept by the SSHO for each piece of air monitoring equipment. The following information will be recorded:

- Name and model number of the equipment
- Calibration information
- Field work to be performed
- Air monitoring results and monitoring locations
- PPE worn
- Accidents or incidents
- Unusual occurrences and personnel complaints
- Weather information
- Postcalibration results, if performed

Air monitoring will be performed at the rim or bungs of the drums to monitor the VOC concentration in the drum headspace. Air monitoring results will also be recorded in a field logbook.
This section does not address ambient air monitoring. A detailed description of these activities is presented in Section 4.7, Ambient Air Monitoring for Offsite Receptors.

3.4.4.1 Gases and Vapors

A PID with a 10.2 eV lamp or FID will be used to monitor concentrations of volatile organic compounds (VOCs) at the drum head. Monitoring will be conducted continuously during sampling or intrusive activities. When the contents of a drum are known an appropriate Draeger tube will be used to determine the action level. Calibration of monitoring equipment will be performed daily before startup of work (Exhibit 5). Calibration gas to be used will be specific to the instrument per manufacturer instructions.

If deemed necessary by the site safety supervisor or DHSO personal monitoring will be accomplished using organic vapor badges during DRA activities. The badges will give a time waited exposure level. This data will be used to determine if the PPE is appropriate. The badges will be worn on the lapels of workers clothing during DRA activities. At the end of the day they will be removed and sent to a laboratory for analysis. Upon receipt of the results of the site safety officer will be evaluate the propriety of the PPE and make changes as necessary.

Action levels for known contaminants will be based on the PEL or TLVs of the contaminants (see Exhibit 6), whichever level is the most conservative. Due to the implementation of engineering controls, such as carbon scrubbers, to reduce the concentration of VOCs at the drum head when levels exceed 500 ppm; action levels *in the breathing zone* are not anticipated to ever exceed 500 ppm VOC. Refer to Appendix C, Drum Handling and Opening Procedures, for a detailed description of monitoring procedures at the drum head.

Action levels for unidentified total atmospheric organic contaminants for DRA activities at the drum head are based on the following:

Instrument Reading for One Minute at the Drum Head	Action
Background	Level D
Above background	Level D - introduce engineering controls (e.g., fans) and don respirator
Above background to <5 ppm above background	Level C
5 ppm above background	Level C - leave area, upgrade to Level B
5 to <500 ppm above background	Level B
500 ppm above background	Level B - implement engineering controls (e.g., carbon scrubber)

3.4.4.2 Explosion Hazard

A combustible gas indicator (CGI) and organic vapor analyzer (OVA) will be used at sites as appropriate to monitor the possible presence of explosive gases (e.g., methane). Equipment calibration will be performed daily before startup of work per manufacturer instructions (Exhibit 5). As the SSHP is intended to be a stand-alone document, Exhibit 5 of the SSHP is a duplication of Appendix F of the Plan. The alarm will be set to 10 percent of the LEL. If feasible, calibration gas to be used will be specific to the combustible gases suspected to be present.

Continuous monitoring for the presence of combustible gases will be performed at the sampling point. If the monitoring instrument indicates greater than 10 percent of the LEL, personnel must leave the area.

Explosion-proof fans should be used to lower the LEL. Personnel must not reenter the area until the LEL is less than 10 percent.

3.5 Decontamination and Disposal Procedures

Procedures to be followed for equipment and personnel decontamination and disposal of investigation-derived material are described below.

3.5.1 Personnel Decontamination

The sequence for personnel decontamination for Level C PPE or Level B PPE field activities is described below. Personnel decontamination for Level D PPE or Modified Level D PPE activities will include the applicable procedures described below. Decontamination will occur at either a temporary job site decontamination pad or at a central decontamination pad as follows:

1. If gross contamination is present, wash PPE in detergent or other appropriate solution and rinse in clean water.
2. Remove disposable overboots (if used). Remove outer gloves.
3. Wash chemical-resistant boots with detergent solution and rinse with clean water.
4. Remove SCBA belt and straps (if used) and remove coveralls. Starting at the neck, roll the coveralls off from the inside out and down past the boots. Take care to prevent the release and dispersion of dusts or prevent contact with decontamination water that may have accumulated on the coveralls. Avoid contaminating clothing inside the coveralls during removal.
5. Remove the respirator. Clean and disinfect the respirators and place into a plastic bag for storage.
6. Place disposable PPE in an appropriate container (plastic garbage bags in drums) for disposal.
7. Remove liner gloves.
8. Thoroughly wash hands and face.

3.5.2 Equipment Decontamination

Decontamination of equipment will occur at either a temporary job site decontamination pad or a central decontamination pad. Equipment will be washed in an appropriate solution and rinsed in clean water. If equipment can not get wet, gross contamination will be wiped with a dry or damp paper towel.

3.5.3 Investigation-Derived Waste Disposal

This section describes procedures for disposing of investigation derived waste (IDW). Each IDW drum will be issued a unique number. The number will be recorded on the drum and in a log. Information as to the drum contents, the location the contents were collected, and the date filled will also be recorded on the drum and in the drum log.

3.5.2.1 Personal Protective Equipment

Used PPE will be placed in plastic garbage bags, placed in drums, and stored onsite until appropriate disposal is determined.

3.6 Emergency Procedures

Pertinent emergency information and the contingency plan are provided in this section.

3.6.1 Emergency Telephone Numbers

Ambulance: 911

Police: 911

Fire Department: 911

Hospital: Presbyterian Inter-Comm Hospital: (310) 698-0811 (Switchboard); (310) 698-2511

Poison Control Center: (213) 222-3212 (Los Angeles)

CHEMTREC: 1-800-424-9300

Client Contact:	Ian A. Webster	Office:	(213) 977-6382
Project Manager:	Andrew Keller	Office: Pager:	(714) 556-7992 (714) 291-7137
DSHO:	Chris Corpuz	Office: Pager:	(415) 884-3149 (800) skypage #3081589
RSO:	N/A	Office:	

3.6.2 How to Report an Emergency

When calling for assistance in an emergency situation, the following minimum information should be provided:

1. Name of person calling
2. Telephone number of caller's location
3. Name of person(s) exposed or injured
4. Nature of emergency
5. Actions already taken

The recipient of the call should hang up first - not the caller.

3.6.3 Emergency Routes

Name of Facility: Presbyterian Inter-Comm Hospital Address: 12401 E. Washington Boulevard

Telephone Numbers: (310) 698-0811 (Switchboard); (310) 698-2511 (Emergency)

Specific Directions: Exit to the north from the site then turn right onto Whittier Boulevard. Turn right on Washington Boulevard and the Presbyterian Inter-Comm Hospital will be on the right side of the road.

3.6.4 Emergency Signals

In the unlikely event that an emergency situation occurs, all field activities at that site will cease. The emergency situation will be signaled by a blast from a carbon dioxide (CO_2)-propelled air horn.

The following hand/body emergency communication signals should be used when other forms of communication are difficult or impossible:

Signal	Meaning
Hand clutching throat	Out of air/can't breathe
Hands on top of head	Need assistance
Thumbs up	OK/I'm all right/I understand
Grip partner's wrist or both hands around partner's waist	Leave area immediately

If the emergency occurs in the Exclusion Zone, all field personnel will quickly move to the Contamination Reduction Zone for an appropriate decontamination before exiting to the Support Zone. In life-threatening emergencies, decontamination may not be appropriate. The emergency decontamination decision will be made by the SSHO. Emergency situations occurring outside of the Exclusion Zone in Level D PPE will not require decontamination at the Contamination Reduction Zone before administering first aid.

Minor emergencies will be handled within the Support Zone utilizing the onsite first-aid kit. A portable emergency eyewash or a total of 32 ounces of eyewash fluid will be available in the field vehicle. Either an emergency shower or a shower facility will be available for personnel decontamination. If working at a remote location (more than 15 minutes from an emergency medical facility), at least one onsite HLA person will be trained in first aid. Exhibit 6 is a summary of American National Red Cross first-aid procedures. The appropriate emergency response personnel (i.e., ambulance and fire department) will be contacted for all major emergencies.

Routes to the nearest hospital are provided at the front and the back of this document. Plate 3 also presents the route to the nearest hospital. The SSHO should drive the hospital route before field activities begin. A written report of all emergencies will be submitted to the DSHO. Accident forms are located in Exhibit 3. Copies of this report will also be sent to the appropriate agencies.

4.0 WORK PLAN

All activities will be conducted consistent with Occupational Safety and Health Administration (OSHA) regulations, Department of Transportation (DOT) requirements, treatment/disposal site or recycling facility acceptance parameters, and any other applicable federal, state, and local regulations.

4.1 Security and Access Restriction

The west, east, and south boundaries of the Site are currently enclosed with a concrete block wall approximately 2 feet high with a 4-foot-high fence on the northeastern boundary. As the current security for the Site has been determined in the Order to be insufficient in its ability to restrict access from persons who congregate at public facilities in the area of the Site, an 8-foot-high chain-link fence, with razor wire top, along the perimeter of the property, which is of sufficient height and design to control unauthorized access to the Site. Appropriate warning signs will be posted on the fence to help prevent exposure of unauthorized and unprotected people to Site hazards.

Site access will be controlled as follows:

- During drum removal activities the fence, signage, and onsite authorized personnel will provide security and access restriction.

- Throughout the entire project, a security guard will be onsite when the project management team or the workers are not present. Arrangements have been made with the Whittier Police Department to make nightly visits to the Site and check-in with the onsite security guard.

4.2 Mobilization

Inventory Site. The site will be initially cataloged for equipment, structures and drum locations. A detailed drum inventory will be included as an ongoing process during the DRA.

Mobilization of Equipment and Personnel. Before initiation of the DRA, HLA will mobilize personnel and equipment to the Site and set up a temporary field office. It is anticipated that the current Omega facilities will be used as field offices and staging areas. If this is not a viable option, a portable trailer will be situated onsite to serve as a temporary field office.

SSHP Review. HLA has prepared an SSHP that covers all phases of this Plan and is included in Section 3.0. Onsite personnel performing the DRA will review the SSHP and sign the master copy of the document, indicating they have read and understand all elements of the SSHP. Copies of the SSHP will be available for their review and will be readily available onsite.

4.3 Establishment of Control Zones

Preparation of Control Zones. Control zones will be constructed and safety zones established by the Project Manager. Exclusion, contamination reduction, and support zones with access points will be established. The exclusion zones will be marked off with portable barricades and caution tape during drum removal and equipment decontamination to prohibit unauthorized personnel from entering the work area. It is currently anticipated that two sets of control zones will be utilized to efficiently implement the DRA.

Exclusion Zone. An exclusion zone is the area where contamination does or could occur. This zone has the highest potential for exposure to contaminants by dermal contact or inhalation. All personnel within the exclusion zone will wear Level B personal protective equipment (PPE), based on the EPA Level of Protection guidelines. The level of protection in this area may be modified to reflect any hazards discovered during the DRA. The exclusion zone will move, and continuously decrease in diameter, as drum removal activities progress. The exclusion zone will be divided into two areas: the drum storage area and the initial staging area.

The drum storage area comprises the area where drums are removed from their storage position. The drums will be visually inspected for structural integrity and possible hazards associated with drum handling. The drums will not be opened at this point but may be overpacked if warranted. The initial staging area will be established proximal to the drum storage area. The initial staging area comprises the area where drum opening, initial screening, and sampling occurs. Drums will remain in the initial staging area until HazCat® results are available. Additionally, an assessment of drum integrity and the drum's ability to be transported per DOT requirements will be made. Overpacking will be performed as necessary based on field observations. A forklift will be dedicated to work exclusively in the exclusion zone to minimize the hazard exposure and decontamination efforts.

Contamination Reduction Zone (CRZ). The CRZ is the transition between the exclusion zone and the support zone. The purpose of the zone is to reduce the probability that the support zone will become contaminated or affected by other Site hazards. The CRZ will be established just outside the exclusion zone. The CRZ will be the area where the sealed, characterized, and DOT-transportable drums are

transferred to the transportation vehicles located in the support zone. A forklift will be dedicated to work exclusively in the CRZ to minimize hazard exposure and decontamination efforts. Additionally, the CRZ will be utilized for decontamination of technician's PPE and field equipment leaving the exclusion zone. The decontamination procedures are outlined in the SSHP, Section 3.0 of this Plan.

Support Zone. The support zone is the uncontaminated area where workers should not be exposed to hazardous conditions. This is the area used for administrative and other support functions needed to keep the operations in the exclusion zone and CRZ running smoothly. Supplies will be sent to the Site on an as-needed basis; therefore, a supply storage area is not necessary. Because of the limited working space at the Site, this zone will initially be quite restricted, but as drum removal activities progress it will increase in size. The Omega office or a portable trailer will be utilized for administrative purposes.

Posting. Portable barricades and caution tape will be employed in readily visible locations to delineate the exclusion zone, CRZ, and support zone, if determined necessary.

4.4 Establishment of HazCat® Stations

A HazCat® station will be established in the laboratory within the warehouse building at the Site (see Plate 2). The HazCat® System of Haztech Infosystems, Inc., is the field screening test system to be utilized in identifying the primary hazard characteristics of the drum contents. The results of the field screening evaluation for hazard characterization will be the basis for determining appropriate handling procedures, transportation, and disposal of the drums. The Department of Transportation (DOT) basic description and shipping procedures will be determined based on tentative assignments as provided in 49 Code of Federal Regulations (CFR) Part 172.101 (c) (11).

The station will be equipped with a chemical hood, under which characterization will be performed, and any necessary reagents, test papers, supplies, and protective clothing to facilitate testing.

Level C PPE will be used at the HazCat® station unless information gathered during the sampling indicates that additional PPE is necessary.

4.5 Waste Verification

Drum Inventory. HLA will mark each drum with a unique drum number and approximate location. This information and other markings on the drum exterior will be included in a drum inventory database along with other information that assists the drum removal activities. The drum inventory will consist of

numbering the drums, visually inspecting drum conditions, and logging drum characteristics. The drums will be clearly numbered using paint sticks and paint pens. A detailed drum inventory will be developed as the DRA progresses.

If Omega's drum numbering and drum content code is discernible and provides useful information it will be recorded and included in the database.

Waste Identification/Verification. Each drum will be opened and the contents will be visually assessed (identified). Because current drum labeling is inadequate to verify specific drum contents and individual analytical reports are not available, the contents of drums containing wastes will be determined by sampling and HazCat® analysis. If the HazCat® of the drum contents is inconclusive, inconsistent, or of concern to the field chemist, samples will be collected as described in Section 6.0 and taken to a state-certified laboratory for hazardous waste characterization. Refer to Section 6.0, Sampling and Analysis Plan (SAP), for a detailed description of activities. Those drums with discernible labels will be visually examined to assess whether any information recorded on the labels may be used to aid in waste profiling. Drums will also be inspected for leaks and other damages.

All applicable information will be entered in the drum inventory database.

4.6 Waste Sampling (HazCat® System)

Drum Handling Procedures. As part of the waste sampling procedures, drums will be moved from the storage location, utilizing a forklift by the pallet or with a drum grabber or picker, to the sampling location. Refer to Appendix C for a thorough description of drum handling and opening procedures. Initially, the sampling area will be co-located near the drum storage area because of the confined conditions at the Site. As space becomes available the drum sampling area may be enlarged to accommodate more drums.

The sampling area will be designed and constructed with plastic sheeting and temporary berming. Additionally, adequate volumes of absorbent will be kept nearby during drum moving. All personnel will be instructed on the hazards of drum handling before moving the drums and will be warned to be alert for new information about potential hazards.

Drums will be opened by personnel in Level B PPE. Before opening, all drum ring tops and/or bungs will be wiped clean and made free of debris. If a drum cannot be opened by conventional means, nonsparking puncturing tools may be used. Bulging drums, if encountered, will be opened remotely or

with safety shielding per 29 CFR 1919.120 (j) (2) (vi). Bulging drums will be vented through the vent bungs before being opened. Field personnel will not attempt to puncture a bulging drum that cannot be vented by conventional means. Damaged drums that cannot be handled safely and open drums will be placed in overpack containers prior to movement, if necessary. Appendix C provides guidance for determining when the overpacking of drums is necessary. The Field Activities Manager will assist the Field Technicians in this determination.

Drum Sampling. A detailed SAP is provided in Section 6.0, and the Data Collection Quality Assurance Plan (DCQAP) is provided in Section 7.0 of the Plan. Drums that were previously overpacked will be resampled and a hazard characterization will be performed.

Waste Profiling. Broad spectrum waste profiles will be established at the TSDF at the onset of the DRA. Samples of the wastes will be collected and provided to the TSDF prior to arrival of the wastes. The analytical results from analyses of wastes by the TSDF, will be used to confirm waste profiles. If a waste is encountered that does not fit into a pre-established profile at the TSDF, additional profiles will be established. Independent analyses of samples are not anticipated to be performed, as the TSDF's analysis of incoming wastes will be provided to the Project Chemist, and any other appropriate DRA persons, and will be used to confirm and document waste profiling. The TSDF is required to perform an analysis of at least ten percent of inbound drums in order to accept the wastes per the TSDF's RCRA Waste Analysis Plan.

Sample Analysis. Representative samples of the waste from the drums will be taken to the HazCat® station for hazard characterization. The HazCat® System of Haztech Infosystems, Inc., is the field screening test system to be utilized in identifying the primary hazard characteristics of the drum contents. This system will identify compatible wastes and will be the basis for determining appropriate handling and transportation procedures and disposal options for the drums. A detailed description of the sampling procedures are provided in Section 6.0 SAP.

The appropriately trained HazCat® chemist will perform a HazCat® procedure based on industry standard practices. The tests will include a sulfide screen, cyanide screen, oxidizer screen, chlorinated screen (hot wire), pH test, water reactivity, and Char test. Based on the test results, further tests may be conducted to more fully characterize the wastes. All results from the HazCat® testing will be recorded on a HazCat® report form with the corresponding drum identification number.

4.7 Ambient Air Monitoring for Offsite Receptors

The purpose of this section is to describe the ambient air monitoring procedures to be utilized in identifying and quantifying airborne contaminants generated as a result of DRA activities for the protection of offsite receptors. It is not anticipated that ambient air monitoring for the protection of onsite workers will be necessary, due to the implementation of engineering controls and PPE. Refer to Section 3.4.4 for a description of exclusion zone air monitoring for DRA activities. A weather station will be centrally located on top of the warehouse to record the temperature and wind speed and direction. The weather station will be installed approximately 3 days prior to initiation of field activities so that Site-specific meteorological data can be gathered. The meteorological data will assist in determining appropriate sampling locations, average wind speeds for the area, and any unique macroclimatological effects caused by the Puente Hills, local topographical changes, and nearby building influences.

It is anticipated that two sampling locations, one upwind and one downwind, will be established at the Site. The upwind location will provide ambient air concentrations of selected chemicals prior to any potential contribution from onsite activities. The downwind sample location will provide both ambient concentration, in addition to any Site-specific contributions. The difference between the two locations can be attributed to Site activities.

Sampling performed at the upwind and downwind locations will include:

- Total Organic Vapors - Flame ionization detectors (FIDs) will be utilized to determine the total organic vapor concentration at the sampling locations. The sampling equipment will provide data in the parts per million range and serve to document any significant potential releases. Because of the industrial nature of neighboring properties, the potential exists that the upwind sampling location will have detectable concentrations of organic vapors. If the downwind concentration exceeds the average upwind concentration by more than 2 standard deviations of the upwind average, site activities will be stopped, and the source will be investigation. This equipment will be utilized on all days involving drum openings and equipment decontamination. If the daily monitoring indicates that no significant increase in the ambient air organic vapor concentration is attributable to the Site activities, the monitoring will be discontinued.

- Particulate Matter - A Miniram Model MIE PDM-3 with a data logger will be employed to determine real-time aerosol and dust concentrations ranging from 0.01 to 100 mg/m^3. The equipment will provide total particulate concentration at the upwind and downwind sampling

locations. If the downwind concentration exceeds the upwind concentration by more than a factor of 10, Site activities will be stopped and the source of the particulate matter will be investigated. Appropriate dust/aerosol suppression methods will be implemented to control the source. No speciation of the particulate matter is anticipated at this time because of the limited potential for dust generation during the DRA. If the daily monitoring indicates that no significant increase in the ambient particulate matter air concentration is attributable to the Site activities, the monitoring will be discontinued.

- Speciated Volatile Organic Hydrocarbons - After approximately the first week of the DRA and routine operation is underway, upwind and downwind samples will be collected for speciated organic vapors. Two evacuated Summa canisters will slowly be released over a 4-hour period during routine operations. The canisters draw in the ambient air as the pressure starts to equilibrate with the atmospheric pressure. The canisters will be closed with approximately 5 inches of vacuum left to serve as a leak check during transfer for laboratory sampling. EPA protocols will be followed regarding the preparation, sampling, transfer, and analysis of the Summa canisters. EPA Method TO14 will be utilized to provide low (0 to 5 ppbv) detection limits for common industrial aromatic and chlorinated hydrocarbons. Two samples will be collected on three separate days to determine if any increased ambient air concentrations can be attributed to the DRA. Because of the industrial nature of neighboring properties, the potential exists that the upwind sampling location will have detectable concentrations of aromatic and chlorinated hydrocarbons.

All air monitoring equipment will be calibrated at the opening and close of each field day according to the manufacturer's recommended procedures. Refer to Appendix F for instrument calibration procedures. Equipment manuals will be kept with each instrument. Calibrations will be recorded on the appropriate calibration form. Equipment maintenance will be conducted, if required, following the manufacturer's recommended procedures. Any maintenance performed on the FID will be recorded on the instrument's calibration log.

4.8 Waste Sample Evaluation

Waste Sample Validation. After HazCat® results for the various waste streams are received by HLA, the results will be reviewed and validated following the DCQAP. The DCQAP is outlined in Section 7.0 of this Plan. The information will be included in the drum inventory database.

Waste Stream Characterization. HLA will use the results to characterize the various waste streams in relation to the applicable federal and state regulations to decide the recommended means of disposal or recycling.

4.9 Drum Labeling

Labeling of Drums. All drums will be marked, labeled, and/or placarded in accordance with all applicable federal and state laws and regulations. In addition to the marking and labeling required by law, the drums will also be marked with the drum identification number, as described in Section 4.5 of this Plan.

4.10 Waste Transportation and Disposal

Drums will be loaded onto the transportation vehicle once the waste has been characterized and as space becomes available on the transportation vehicle. The removal of drums will be an ongoing process, as the wastes will be sampled, analyzed, and characterized on a continuous basis. This method will allow for successively more space free of obstructions; therefore, the increased mobility will minimize potential hazards associated with working in confined areas.

The location of the drum loading stations will not be fixed. It will be necessary to adjust the locations as drum removal activities progress in order to ensure timely and efficient drum removal.

Initially, the two drum loading stations will be established at the north-northeast side of the Site and at the northeast side of the Site. The majority of drums are located in the service yard; however, there are drums inside the warehouse that require removal. The drums inside the warehouse will be moved via forklift to an initial staging area where drum opening, screening, and sampling will occur.

Drum Overpacks. If determined to be necessary from the visual assessment, drums may be overpacked and staged to meet transportation and disposal regulations. Appendix C provides guidance for determining if overpacking is necessary.

Bulk Containerization. Two 30-yard roll-off bins are located at the south corner of the property. The roll-offs contain 55-gallon drum-shaped polyurethane hardened resins. If it appears the polyurethane was reacted in 55-gallon drums and the drums were then cut away. The hardened resins will be transferred into cubic yard, DOT-approved, boxes for shipment and disposal. If found to be safe and efficient, other wastes may be bulk containerized onsite.

Hazardous Waste Manifests. A uniform hazardous waste manifest will be completed for each shipment of hazardous waste. The Project Coordinator, or his designee, is responsible for signing the hazardous waste manifest prior to transportation of the hazardous waste. The manifest will be completed in compliance with all applicable federal and state laws and regulations. If a hazardous waste is to be transported out of state, the hazardous waste manifest appropriate for that state will be utilized. In addition, a land disposal restriction form will be attached to the manifest, if appropriate. All necessary signatures and information will be entered on the manifest prior to transportation of the hazardous waste.

Waste Disposal Options. Waste disposal options include the direct transportation of wastes to ENSCO's incineration facility. ENSCO's incineration facility is a Part B permitted RCRA facility, located in El Dorado, Arkansas, and is capable of storing approximately 31,000 drums. The facility can accept 55-gallon steel drums as well as all DOT-approved containers. Certificates of Destruction will be provided for all waste shipments that are incinerated.

Alternative TSDFs may be used if they are determined to be more appropriate than the proposed disposal facility. The most appropriate disposal facility will be determined based on the type of waste, hazardous classification, cost of disposal, and regulatory status of the waste facility. The determination of the appropriate disposal facility will be made onsite as the wastes are being characterized. Alternatively, if the waste is transported to a transfer facility, determination of the most appropriate disposal facility will be made once the waste has reached the transfer facility and disposal options have been explored. All TSDFs will be approved to accept CERCLA wastes.

4.11 Equipment Decontamination

Equipment to be decontaminated onsite currently includes five ASTs, five distillation columns, two evaporators, one rainwater sump, and two drum storage pads. After a detailed initial assessment, an updated equipment list will be prepared. The ASTs are assumed to contain wastes; all other structures are assumed to be empty.

Aboveground Storage Tanks. The contents of the five ASTs will be removed and the ASTs pressure washed or steam cleaned. The decontaminated surfaces then will be triple rinsed in accordance with industry standard protocols. If entry into the ASTs is required in order to decontaminate the structure, entry will be performed under confined space conditions. Refer to Appendix D for the policy and procedures to be implemented when confined space entry conditions are required. ASTs are anticipated to be able to be cleaned in one operation; however, this may change once a more detailed assessment of the condition and extent of contamination of the structures are performed.

Distillation columns. The five distillation columns will be either pressure washed or steamed cleaned, and all decontamination surfaces will be triple rinsed in accordance with industry standard protocols. Distillation columns are anticipated to be able to be cleaned in one operation; however, this may change once a more detailed assessment of the condition and extent of contamination of the structures are performed.

Evaporators. The two evaporators will be either pressure washed or steamed cleaned, and all decontamination surfaces will be triple rinsed in accordance with industry standard protocols. If entry into the ASTs is required in order to decontaminate the structure, entry will be performed under confined space conditions. Refer to Appendix D for the policy and procedures to be implemented when confined space entry conditions are required. Evaporators are anticipated to be able to be cleaned in one operation; however, this may change once a more detailed assessment of the condition and extent of contamination of the structures are performed.

Rainwater sump. The contents of the rainwater sump will removed, the sump will be washed out with a pressure washer, then the decontaminated surfaces will be triple rinsed in accordance with industry standard protocols. The sump is anticipated to be able to be cleaned in one operation; however, this may change once a more detailed assessment of the condition and extent of contamination of the structure is performed.

Drum Storage Pad. The two drum storage pads will be steam cleaned, then the decontaminated surfaces will be triple rinsed in accordance with industry standard protocols. The storage pads are anticipated to be able to be cleaned in one operation; however, this may change once a more detailed assessment of the condition and extent of contamination of the structures are performed.

Obvious signs of visual contamination will be removed from equipment structures to eliminate any potential threat to human health or the environment. Because of the uncertainties associated with the ownership of the equipment, the final disposition cannot be determined at this time.

4.12 Decontamination Waste Disposal

Rinse water from equipment decontamination operations will be collected into temporary tanks, drums, or containers. The rinse waters will be managed and disposed of as hazardous wastes. The classification of the wastes will depend on the equipment from which the waste was derived and any additional knowledge obtained during decontamination activities that will aid in assessing the hazardous

materials/wastes that the rinse water may be contaminated with. All rinse waters will be disposed of at an appropriate, permitted TSDF or recycling facility.

4.13 Weekly Progress Reports

Weekly written summary reports will be provided to the EPA which will include a summary of the current and future week's activities. The summary will contain information regarding changes in personnel, the percentage of the project that has been completed, potential problem areas, and the projected work for the following week. Refer to Exhibit A, in this section, for a sample report.

4.14 Technical Memorandum

To assist in documenting and detailing a course of action for unforeseen changes that may occur in the field, a technical memorandum will be written. The technical memorandum will be prepared to ensure a clear line of communication and submitted to the EPA for approval. The memorandum will include a brief description of the proposed addition or modification, the purpose of the proposed activity, its estimated cost and possible alternatives. Refer to Exhibit B, in this section, for a sample report.

4.15 Phase I Report

A final Phase I report detailing all Site activities will be prepared and provided to the EPA.

5.0 TRANSPORTATION AND DISPOSAL PLAN

5.1 Overview

This Transportation Disposal Plan has been developed to provide the following:

- Proper completion of the Hazardous Waste Manifests,
- Proper completion of RCRA Hazardous Waste labels and/or TSCA PCB labels and any other required documents,
- Proper loading of the truck according to DOT-requirements,
- Vehicle inspections prior to departure,
- Two main transportation routes from the site to the nearest freeway,
- Procedures to be strictly followed in case of an incident while in transport, and
- Discussion of proposed transfer and disposal facilities.

5.2 Checklist for Manifests

The following checklist will be utilized to ensure hazardous waste manifest are properly completed:

1. Only current manifests will be used. *Failure to have a current manifest will result in the material being returned to the generator.* For shipments manifested to Arkansas, an Arkansas manifest will be used and for shipments manifested to California, a California manifest will be used.

2. The Generator Certification section will be signed and dated.

3. The Transported Acknowledgment section will be signed and dated.

4. EPA ID numbers for generator, transporter and facility will be filled in.

5. Section 11a-11d will have a proper DOT shipping description for all regulated waste. DOT shipping descriptions will include the proper shipping name, hazard class, ID#, and packing group at a minimum.

6. EPA waste codes will be indicated in Section I, the Waste Number section. "NR" will be used for EPA non-regulated material and "PCB" will be used for Polychlorinated Biphenyls. (Shipments to Arkansas will use "NR" for EPA non-regulated material.)

7. Verification will be made to ensure that no waste codes are manifested that are unacceptable at the receiving facility.

8. Waste Profile (WP) number will appear on the manifest either in Section 11a-11d or Section 15. The WP numbers for the materials will agree with the WP numbers provided on the ENSCO

Shipment Confirmation. The Site Supervisor will be notified of any discrepancy. Failure to have an approved WP number will result in the materials being returned to the generator.

9. The Load number will be indicated in Section 15.

10. 24-hour emergency response information (contact and phone numbers) will be listed in Section K.

11. Container types and numbers will be accurately indicated in Section 12 and correspond to the actual load count.

5.3 Land Disposal Restriction Notification Form

The following procedures will be implemented for completion of the land disposal restriction notification form for restricted wastes:

1. For any restricted waste, a Land Disposal Restriction Notification Form will be provided by the generator and attached to the manifest.

2. Land Disposal Restriction Notification Form will be signed and dated by the generator.

5.4 Preparation/Shipment of Drums

The following procedures will be implemented during the preparation and shipment of drums:

1. Drums of EPA and California regulated waste will have hazardous waste label that includes:

   - Generator information,
   - DOT shipping name,
   - UN or NA number,
   - Manifest number and line,
   - EPA and California waste code numbers, and
   - The WP number for regulated and non-regulated materials.

2. DOT-regulated material will have the appropriate hazard class label(s).

3. TSCA PCB articles and material will have on each article or drum:

   - TSCA PCB label
   - the date the PCB's were removed from service (storage date)

- a unique identifying number

TSCA PCB shipping papers must include a list stating for each article or drum:

- the unique identification number
- waste type
- storage date
- weight in kilograms

4. Inspections of all loads will be made to ensure that all drums are properly secured and not leaking.

5.5 Loading Requirements

The following procedures and precautions will be implemented during the loading of the drums.

1. Guard the drum from hazards. The following precautions will be taken with all hazardous materials shipments:

   - Do not drop, jar, or bump the drum. Impact can cause breakage and release of hazardous materials, fumes or vapors.
   - Keep away from heat. Excessive heat, such as when drums are stored next to heating units or loaded into a trailer and left in the hot sun, can increase the possibility of hazard from hazardous materials.
   - Protect the drum from moisture. Moisture can deteriorate the structural integrity of the drums.
   - Keep drum loading and shipment area well ventilated. Air circulating between drums prevents fumes and materials from becoming mixed and contaminated each other.
   - Avoid friction against drum. Don't slide drums of hazardous materials, as heat generated through friction may create a hazard.
   - Check the characteristics of the loading guide (hazardous materials) to ensure that shipments of incompatible hazardous material not loaded together.

2. Check shipping papers to be certain they accurately completed. Drums must be in good condition and require appropriate RCRA Hazardous Waste and/or TSCA PCB labels and markings. Report any discrepancies to the Site Supervisor.

3. Smoking and open flames are prohibited around any unit being loaded or unloaded.

4. The parking brake on the vehicle must be set and the engine must not be running while the vehicle is being loaded or unloaded.

5. Tools which might damage the shipment must not be used on any drums.

6. When Class 4 Flammable solids, Class 5 Oxidizing materials, or Class 8 Corrosive liquids are transported, they are to be so loaded as to provide ready accessibility for removal.

7. All hazardous materials should be kept free from extreme changes in temperature.

8. Tanks, barrels, drums, and cylinders must be reasonably secured against movement within the motor vehicle during transport and against relative movement between each other. Such motion might create friction or cause damage to valves or fittings and result in dangerous leakage.

9. Heaters may be used when transporting Class 3 Flammable liquids or Class 2 Flammable gases, provided:

   - It is a catalytic heater;
   - The heater's surface temperature cannot exceed 130° F. (54° C);
   - The heater is not ignited in a loaded vehicle;
   - There is no flame, either on the catalyst or anywhere in the heater;
   - The heater bears the manufacturers' certification "Meets DOT requirements for catalytic heaters used with flammable liquid and gas."; and,
   - The heater is also marked "Do Not Load Into or use in cargo compartments containing flammable liquids or gas if flame is visible on catalyst or in heater."

10. Vehicles equipped with heaters, not meeting the specifications outlined above, may be used to transport Class 3 Flammable liquid or Class 2 Flammable gas **only** if the device is first rendered inoperable by emptying or removing the heater fuel tank, closing its discharge valve, and disconnecting its fuel feed line.

11. Damaged or leaking packages of hazardous materials may be reloaded into a recovery drum for shipment to destination. A recovery drum must be of metal construction. Cushioning must be provided if necessary, and there must be a means of absorbing any free liquid. The drum, the cushioning and the absorptive material must be compatible with the hazardous material. The

drum must be marked with the proper shipping name of the hazardous material, the name and address of the consignee, labeled as required, and bear the additional marking "Recovery Drum". The capacity of a recovery drum must not exceed 110 gallons.

12. Transfer of Class 3 Flammable Liquids:

- Transfer of Class 3 Flammable liquids between containers not in metallic contact may be made only if metallic bonds or ground conductor are provided. Such bonding shall be made by first connecting an electrical conductor to the container to be filled and then to the containers from which the liquid is to be emptied. The latter connection must be at a point away from the opening from which the liquid is to be discharged.
- No Class 3 Flammable liquid shall be unloaded or loaded with the engine running unless the vehicle engine is used for the operation of the pump.

13. Class 4 Flammable Solids and Class 5 Oxidizing Materials shall be handled as follows:

- Lading shall be entirely within and covered by the body of the vehicle or by tarpaulins or by other suitable means and the tailgate or door shall be securely closed and fastened.
- Commodities which are susceptible to heat or spontaneous combustion shall be loaded in such a manner as to insure adequate ventilation between packages.
- Extra precautions shall be taken to prevent wetting of Class 4 Flammable solids and Class 5 Oxidizing materials which become more hazardous when wet.

14. Class 8 Corrosive materials shipments shall be loaded and unloaded as follows:

- Frangible containers of acids shall be individually handled when loaded or unloaded by hand.
- Frangible containers may be loaded in tiers if the weight of the upper tiers is upon the crates of boxes enclosing the frangible packagings and not upon the frangible packagings themselves. Means must be provided to prevent shifting or the tiers and individual frangible packagings in the tiers.
- Class 8 Corrosive materials may be hauled with other lading only as permitted by the loading chart. Ready access must be provided to corrosive liquids to permit their removal.
- Nitric acid loaded in the same motor vehicle with other acids or corrosive materials in carboys must be separated from the other carboys by a 2 by 6 inch plank, set on edge, nailed across the vehicle floor. The board shall be placed a distance of at least 12 inches from the nitric acid carboys and the space between shall be filled with an incombustible absorbent material such as sand, sifted ashes, etc.

15. Class 2 Gasses loading should be conducted as follows:

Cylinders shall be securely lashed in an upright position; or loaded into racks securely attached to the motor vehicle; or packed in boxes or crates which will prevent their overturn; or loaded in horizontal position. Spec. DOT - 4L cylinders must be loaded upright and securely braced. Cylinders of liquefied hydrogen cannot be transported by common carrier. Other carriers must comply with special loading rules of DOT.

16. Loading and Unloading of Division 6.1 Poisons and Division 2.3 Poisonous Gases

- Division 2.3 Poisonous Gases or Irritating Substance may not be transported if there are any inter connecting means of any character between containers.
- No Division 2.3 Poisonous Gases or Irritating Substance may be loaded into any cargo tank.

5.6 Pre-Transport Vehicle Inspection

Driver Rules

1. Only drivers who qualify under Federal Motor Carrier Safety Regulations can handle hazardous materials.
2. Vehicles carrying hazardous materials must meet federal requirements.
3. The driver must inspect his or her vehicle before loading hazardous materials or leaving the Site. Inspection should follow the procedure set forth in ATA Form C0830 (Appendix E). The driver must check to see that the vehicle is equipped with emergency equipment - fire extinguisher, red flags, flares, fuses, electric lantern; or reflective devices. (Note 1: Vehicles transporting hazardous materials must be equipped with a fire extinguisher having an Underwriter's Laboratories rating of X 10 B:C or more. Note 2: Flame producing warning devices are prohibited on any motor vehicle transporting Class 1 Explosives, Division 1.1, 1.2, or 1.3; on any tank truck transporting Class 3 Flammable liquids; or Division 2.1 Flammable Compressed Gas whether loaded or empty; or on any motor vehicle using compressed gas as a motor fuel.)
4. Tire Inspections: The driver must inspect tires before leaving the terminal and upon his return. He must also inspect tires every two hours or 100 miles, whichever comes first, while the vehicle is placarded. If any tire is leaking or otherwise defective he must drive to the nearest safe place for repair. If a tire is "hot", the driver shall notify the terminal immediately and not move the vehicle until the defective tire has been removed.
5. Placarding: Placards must be displayed on the vehicle before it leaves the Site. There should be a supply of assorted placards in the cab of the vehicle if it is not equipped with permanent placards. All placards must be removed when the hazardous materials are unloaded, except for tank vehicles or portable tanks not yet cleaned and purged.

6. Smoking: Do not smoke when driving, loading or unloading hazardous materials, or when within 25 feet of a vehicle that is placarded.

7. Fires: Do not drive near open fires. Pass open fires only when it is positively safe to do so and there is no alternative route. Don't park within 300 feet of an open fire.

8. Routing: Avoid tunnels, narrow streets, alleys and heavily populated areas unless there is no practicable alternative route or unless pickups and deliveries must be made in the area.

9. Rail Crossings. Any cargo tank or placarded vehicle containing hazardous materials, or any vehicle carrying any amount of chlorine, must make a full stop not more than 50 feet or less than 15 feet from the nearest rail of a highway grade crossing. Stops are not required at crossings which are marked "abandoned" or "exempt", street car crossings, crossings used exclusively for industrial switching within a business district, or crossings directed by a flagman, police officer, or functioning green traffic signal. If no stop is required you must reduce speed and take due care in crossing.

10. Fueling: When fueling a placarded vehicle the engine must be off and the driver or attendant must stay at the nozzle until fueling is completed.

11. Parking: Vehicles transporting hazardous materials cannot be parked on or within 5 feet of the traveled portion of a public street or highway except for brief periods when the necessities of operation require the vehicle to be parked, and it is impracticable to park the vehicle in any other place.

12. Attendance: Vehicles containing hazardous materials, other than Class 1 Explosives, Divisions 1.1, 1.2, or 1.3 that are parked on a public street or highway or the shoulder thereof must be attended by the driver. However, the vehicle need not be attended while the driver is performing duties which are incident and necessary to his duties as operator.

    A vehicle is attended when the person in charge of the vehicle is on the vehicle, awake, and not in the sleeper berth, or is within 100 feet of the vehicle and has it within unobstructed view.

5.7 Routes to Nearest Highway

The facility is located approximately 700 feet northwest of the corner of Whittier and Washington Boulevard on Whittier Boulevard. The nearest interstate is the 605 Freeway, approximately 2.25 miles northwest of the site. Whittier and Washington Boulevards provides the two most direct access routes from the facility to the nearest interstate. The following information should be utilized in determining the safest and most effective route from the Site to the 605 Freeway.

Whittier Boulevard - The Site is located along a frontage road that parallels Whittier Boulevard. The nearest exit from the frontage street does not allow a left hand turn onto Whittier Boulevard. Additionally, the corner of Whittier and Washington does not allow a U-turn.

If Whittier Boulevard is the preferred route, it is recommended to travel northwest on the frontage road approximately 200 yards to an exit that allows a left-hand turn. Care should be taken entering Whittier as

the boulevard is a major surface street thoroughfare. Both north and south bound entrance ramps are provided from Whittier Boulevard onto the 605 Freeway.

Washington Boulevard - If Washington Boulevard is the preferred route, leave the nearest frontage road exit, make a right-hand turn, proceed to the corner of Whittier and Washington and make a right-hand turn and proceed to the 605 Freeway.

Washington Boulevard is bounded by more industrial activities and truck traffic is common place. Both north and south bound entrance ramps are provided from Washington Boulevard onto the 605 Freeway.

5.8 Emergency Procedures

In the event of accident, breakdown or other emergency the driver must follow established company procedures for protecting the scene, obtaining assistance, notifying the fleet and gather information necessary for making reports. In addition, the following procedures should be followed when hazardous materials/wastes are involved:

On The Highway

1. Do not let people congregate in the vicinity of the accident or fire unless they are authorized to engage in combatting the fire or helping to handle the accident.

2. Keep fires, flame and lighted cigarettes, cigars and pipes away from the scene.

3. Set up warning signals on the highway to prevent further accident. Emergency signals shall be used as a required in DOT Safety Regulations 392.22 to 392.25. It is recommended that flame producing signals not be used when transporting hazardous materials of any type. The use of flame producing signals is specifically prohibited by the DOT for any cargo tank vehicle used a for transporting flammable liquids or flammable compressed gas and for any vehicle transporting Class 1 explosives, Divisions 1. 1, 1.2 or 1.3. Such signals must be placed a safe distance from vehicles, if used at all, when flammable or combustible liquids are seeping or leaking from a fuel container.

4. Prevent leaking liquids from draining onto the highway or into sewers and streams by damming up the liquid or by digging a drainage trench only if it can be performed safely.

5. Know your load. Refer to shipping papers for name a and hazardous materials classification of each commodity in your unit. Give information to firemen or police in case of emergency involving your unit. If unit displays "DANGEROUS WHEN WET" placards, advise firemen of the fact that your load includes water-reactive materials.

6. Show shipping papers and manifests to emergency response personnel so they can determine the nature of the contents and plan fire fighting techniques accordingly.

7. Leaking tanks may be transported only the minimum safe distance necessary to reach a place where safe transfer of the hazardous material to another tank may be made.

8. Flammable liquid may be transferred from one container to another or from one vehicle to another on public roads in emergencies only. Containers must be bonded or grounded before and during transfer of the liquid from one container to another. Emergency signals (non-flame producing) must be set up during this operation.

9. Flammable solids and oxidizing materials should be unloaded if it will decrease the fire and other hazards. Broken boxes and loose materials should be gathered and disposed.

Vehicle Break Downs

1. Emergency signals shall be used as required in rules 392.22 to 392.25 of the DOT Safety Regulations.

2. Special effort should be made to remove the vehicle to a place where the hazards of the load being transported may be protected against exposure.

3. Repair and maintenance of vehicles transporting hazardous materials are subject to the following restrictions:

   a) Except for a vehicle placarded COMBUSTIBLE, heat-producing repairs may not be made on the fuel or cargo containment systems of any placarded vehicle; e.g. welding or cutting could be done on a spring shackle, but not on the door of a van.

   b) Repair and maintenance on a placarded vehicle (except one placarded COMBUSTIBLE) may be made in a garage or closed space only under the following conditions:

      i) The cargo containment and fuel containment systems are closed (except as necessary to run the engine);

      ii) Provision must be made for immediate removal of the vehicle in case of emergency;

      iii) The vehicle must be removed from the building on completion of the work;

      iv) If the vehicle is transporting Division 1 .1, 1.2, or 1.3 explosives, flammable liquid or flammable gas, all sources of spark, flame or glowing heat in the enclosure (including a heat system drawing air from the enclosure) must be shut down or made explosion-proof by an acceptable method. This does not apply to the electrical system of the vehicle if its use is necessary in connection with the maintenance or repair.

   c) No heat-producing repair may be made on a cargo tank used for flammable liquids or gases, or poisonous liquids, or on a fuel tank of any type unless the tank, or any compartment has first been made gas-free.

Emergency Assistance, Accidents And Incidents

1. If hazardous materials on a vehicle are found to be leaking, damaged, on fire or have any appearance of being in unsafe condition the driver should notify the fleet safety director or a responsible individual as quickly as possible under the circumstances. He or she must not leave his or her vehicle to make such a notification unless there is no danger to the general public or

unless the vehicle is under guard by a responsible individual. It may be necessary to have another person make such notification while the driver stays with the vehicle.

2. If a vehicle transporting hazardous materials is involved in an accident, the driver should ascertain if the hazardous materials have been damaged or if it appears that such materials may become involved for any other reason such as fire in the wreckage. After he or she has taken the necessary steps to protect the scene and the public he or she should contact his or her fleet as outlined above.

Required Notification for Hazardous Material, Hazardous Waste or Hazardous Substances Incidents (spills, leaks, discharges, etc.)

Whenever there is a spillage or leakage of hazardous materials, including hazardous wastes and hazardous substances in a vehicle, or there is direct involvement of the hazardous materials arising out of a motor vehicle accident, special reports must be made in accordance with the following:

IMMEDIATE NOTICE OF CERTAIN HAZARDOUS MATERIALS INCIDENTS (49 CFR, 171.15)

(1) A call to the DOT National Response Center must be made as promptly as possible if an incident involves hazardous materials during transportation, loading, unloading or storage and results in one or more of the following:

- Death of any person(s).
- Injury requiring hospitalization of any person(s).
- Estimated damage to carrier or other property exceeding $50,000.
- An evacuation of the general public occurs lasting one or more hours.
- One or more major transportation arteries or facilities are closed or shut down for one hour or more.
- Fire, breakage, spillage or suspected radioactive contamination involving a shipment of radioactive materials.
- Fire, breakage, spillage or suspected contamination involving a shipment of etiologic agents.
- In the judgement of the carrier there exists a situation which should be reported even though it does not meet one of the specific criteria listed above.

SPECIAL DOT PHONE NUMBERS (National Response Center): Nationwide, 1-800-424-8802; Washington, D.C. Metropolitan Area, 202-426-2675.

(2) In making a telephone report, the following information must be provided to the extent that it is available:

- Name of reporter
- Name and address of carrier represented by reporter
- Phone number where reporter can be contacted

- Date, time and location of incident
- Extent of injuries, if any
- Classification, name and quantity of hazardous materials involved
- Type of incident, nature of hazardous materials involvement, and whether or not there is a continuing danger to life at the scene.

DETAILED HAZARDOUS MATERIALS INCIDENT REPORTS (49 CFR, 171.16)

(1) A written report must be made within 15 days of discovery of an incident arising out of the transportation, loading, unloading or storage of hazardous materials as follows:

- As a follow-up to any such incident reported by phone in accordance with the criteria set forth, above.
- As the result of an unintentional release of hazardous materials from any packaging including a cargo tank.
- As the result of release of any amount of hazardous waste.

(2) The report in duplicate shall be sent to:

Information Systems Manager
Research & Special Programs Administration
U. S. Dept. of Transportation
Washington. D.C. 20590

The report shall be made on the prescribed form DOT F-5800.1 available from American Trucking Associations, as form C0670.

(3) The filing of a Hazardous Materials Incident Report does not relieve the interstate carrier from the necessity of also filing an MCS 50T report with the Regional Motor Carrier Safety Office, if the hazardous materials incident arises out of a motor vehicle accident.

(4) In filing a Hazardous Materials Incident Report, the carrier should endeavor to provide all of the information required to complete the report and to provide as much information as possible about the incident. These reports are analyzed by DOT to discover unsafe or inefficient packagings of hazardous materials, and to make such changes in the hazardous materials regulations as experience indicates are necessary for safety.

(5) For reports of hazardous waste discharges a copy of the hazardous waste manifest must be attached to the written report.

(6) The filing of the reports mentioned above does not relieve a carrier from the responsibility to report spillages of hazardous materials, or spillages of other materials that may create a pollution problem to local, state and federal agencies concerned with environmental controls as required in the area where any such spillage occurs.

HAZARDOUS SUBSTANCE DISCHARGE NOTIFICATION (49 CFR, 171. 17)

(1) Any release of hazardous substances or hazardous wastes must be reported to the U.S. Coast Guard National Response Center at (toll free) 800-424-8802 or 202-426-2675. (Note: Only spills of hazardous substances which equal or exceed the designated reportable quantity are required to be reported, however, it is recommended that all spills be reported.)

(2) The report must be made by either the driver or a company official as soon as that person has knowledge of the discharge.

(3) The discharge notification should include:

(a) The information listed in (2) above;

(b) The name of the shipper; and

(c) The quantity of hazardous substance discharged, if known.

There are severe penalties for failure to make these reports.

(4) Releases of reportable quantities of an extremely hazardous waste or CERCLA hazardous substance listed in Title 40, Part 355, section 355.40, when they occur in transportation or storage incidental to transportation must be immediately reported to the local emergency planning committee, or if none available to the state emergency planning commission, or as a last resort by dialing 911 or calling the operator.

5.9 Waste Disposal

Waste disposal options include the direct transportation of wastes to ENSCO's incineration facility. ENSCO's incineration facility is a Part B permitted RCRA facility, located in El Dorado, Arkansas, and is capable of storing approximately 31,000 drums. The facility can accept 55-gallon steel drums as well as all DOT-approved containers. Certificates of Destruction will be provided for all waste shipments that are incinerated.

Alternative TSDFs may be used if they are determined to be more appropriate than the proposed disposal facility. The most appropriate disposal facility will be determined based on the type of waste, hazardous classification, cost of disposal, and regulatory status of the waste facility. The determination of the appropriate disposal facility will be made onsite as the wastes are being characterized. Alternatively, if the waste is transported to a transfer facility, determination of the most appropriate disposal facility will be made once the waste has reached the transfer facility and disposal options have been explored. All TSDFs will be approved to accept CERCLA wastes.

6.0 SAMPLING AND ANALYSIS PLAN

This SAP has been prepared for the removal of approximately 2,700 drums of unknown chemicals, the decontamination of five AST's, five distillation columns, two evaporators, one sump, two drum storage pads, and other equipment identified onsite as having been impacted by former operations conducted at the Site.

6.1 Purpose and Scope

The purpose of this SAP is to define project activities necessary to ensure that field activities performed and data generated during the removal of the drums at the Site are technically valid and adequate to document the removal actions. This SAP specifies the requirements and procedures for field sampling, hazard and characterization, and laboratory analysis to be conducted and is intended to serve as a guidance document for use in the field at the Site. The QAPP Section 7.0, is referenced throughout the SAP and is intended to serve as an additional guidance.

The sampling procedures specify the sampling rationale, procedures, and related field operations for the drum removal and decontamination of onsite equipment and structures impacted by former operations conducted onsite. The DCQAP specifies sampling and analysis QA/QC requirements for this project.

6.2 Approach

The overall strategy of the SAP is to properly manage, transport and dispose of the drums by determining the hazards associated with each drum contents. Additionally, the SAP is designed to determine the basic waste characteristics of each drum's contents to determine safe, effective, and efficient disposal options.

The SAP consists of the following three steps:

1. Field sampling,
2. Hazard characterization,
3. TSDF waste profiling,
4. Laboratory sampling, if necessary.

Each drum will be field screened utilizing the HazCat® procedures discussed in Section 6.4. The HazCat® procedure will identify the hazards associated with the drum contents and allow for the proper profiling, labeling, transportation, and disposal of the drum contents.

If the HazCat® of the drum contents is inconclusive, inconsistent, or of concern to the field chemist, samples will be collected as described in Section 6.3 and transferred to a state-certified laboratory for hazardous waste characterization.

6.3 Drum Sampling Procedures

The first step in sampling is to open the bung or drum head on the drum.

The second step in sampling will be to screen the drum by visual observation and use of a photoionization detector (PID)/flame ionization detector (FID). The drum number and the PID/FID readings and observations should be noted in a field log book.

Samples for hazard characterization will be collected from all drums containing liquid or solid. A total of approximately 2,700 drums will be sampled. For each sample collected, the drum numbers from which material is collected will be recorded.

The method of sample collection will depend on the prevailing weather conditions and condition of the solid material. It is anticipated that one of the following sampling methodologies will be employed to obtain a representative sample from each drum. Sampling equipment will be decontaminated before samples are collected, or disposable sampling equipment will be utilized, and placed in drums after use for disposal as investigation-derived waste (IDW).

The sampling procedures to be used to obtain a representative sample of the waste - Sampling methods and equipment will vary with the form and consistency of the waste materials to be sampled; however, sampling will be conducted in accordance with "Test Methods for Evaluating Solid Waste, Physical/ Chemical Methods." Sampling strategy is outlined in Tables 6.1. Table 6.1 defines recommended sampling equipment and corresponding limitations. This strategy is a suggested guideline but actual methods used will depend on the particular situation.

Transfer the sample to the HazCat® area.

TABLE 6.1
SAMPLERS RECOMMENDED FOR VARIOUS TYPES OF WASTES

Waste Type	Recommended Sampler	Limitations
Liquids, sludges, and slurries in drums, vacuum trucks, barrels, tank trucks, and similar	Drum thieve	Not for containers greater than 2.5 m deep.
	a) Plastic	Not for wastes containing ketones, nitrobenzene, dimethylformamide mesityl oxide, or tetrahydrofuran
	b) Glass	Not for wastes containing hydrofluoric acid and concentrated alkali solutions.
	c) Stainless steel, etc.	Not for wastes with HCl, HNO_3.
Powdered or granular solids in bags, drums, barrels, and similar containers	a) Grain sampler	Limited application for sampling moist and sticky solids with a diameter 0.6 cm (¼")
	b) Sampling trier	May incur difficulty in retaining core sample of very dry granular materials during sampling.
Dry wastes in shallow containers	Trowel or scoop	Not applicable to sampling deeper than 8 cm (3").
		Difficult to obtain reproducible mass of samples.
Solids deeper than 8 cm (3")	a) Soil auger	Does not collect undisturbed core sample.
	b) Veihmeyer sampler	Difficult to use on stony, rocky, or very wet soil.
Wastes in storage tanks	Weighted bottle sampler	May be difficult to use on very viscous liquids.

6.4 HazCat® Procedures

HazCat® procedures will consist of the following:

- A small sample of the unknown substance will be placed on a watch glass.
- The substance will be examined to determine if it is reacting with the air. Signs of heat or vapors being evolved will be noted.
- A small quantity of water will be placed on the sample using a pipet. The sample will be examined for signs of reactions.
- The pH of the sample will be tested by wetting the pH paper with the water on the watch glass.
- The sample will be tested with oxidizer paper and watched for any color change in the paper.
- The sample will be tested for cyanide using a draeger tube specific for cyanide. Any change in the color of the tube will be noted. If a color change is noted, the following procedures will be stopped and we will refer to the Sensidyne manual for further tests.
- A small quantity of hydrochloric acid (0.1N) will be added to the sample. The sample will be watched for any signs of reaction.
- The sample will be tested for sulfides by touching the sample with sulfide paper. Any color change will be noted.
- A small piece of wire will be heated and touched on a small part of the unknown.
- A new sample of the unknown will be placed on the watch glass and a burning match will slowly be moved under the watch glass. If the sample burns and how vigorously it burns will be noted. Samples that burn quickly with a strong flame will be classified as Flammable (Class 3).
- A small sample of unknown will be placed in a test tube and a char test will be performed. The Btu content will be estimated based on the flammability of the vapors given off and the residual ash left after the test.
- The hot wire test will be performed on the sample by dipping a bare copper wire in the sample and heating the wire with a propane torch. A green flame is a positive for chlorine. The chlorine will be estimated by the extent of the green flame.

6.5 Waste Profiling

Broad spectrum waste profiles will be established at the TSDF at the onset of the DRA. Samples of the wastes will be collected and provided to the TSDF prior to arrival of the wastes. The analytical results from analyses of wastes by the TSDF, will be used to confirm waste profiles. If a waste is encountered that does not fit into a pre-established profile at the TSDF, additional profiles will be established. Independent analyses of samples are not anticipated to be performed, as the TSDF's analysis of incoming wastes will be provided to the Project Chemist, and any other appropriate DRA persons, and will be used

to confirm and document waste profiling. The TSDF is required to perform an analysis of at least ten percent of inbound drums in order to accept the wastes per the TSDF's RCRA Waste Analysis Plan.

6.6 Speciated Volatile Organic Hydrocarbon Sampling and Analysis

After approximately the first week of the DRA and routine operation is underway, upwind and downwind samples will be collected for speciated organic vapors. Two evacuated Summa canisters will slowly be released over a 4-hour period during routine operations. The canisters draw in the ambient air as the pressure starts to equilibrate with the atmospheric pressure. The canisters will be closed with approximately 5 inches of vacuum left to serve as a leak check during transfer for laboratory sampling. EPA protocols will be followed regarding the preparation, sampling, transfer, and analysis of the Summa canisters. EPA Method TO14 will be utilized to provide low (0 to 5 ppbv) detection limits for common industrial aromatic and chlorinated hydrocarbons. Two samples will be collected on three separate days to determine if any increased ambient air concentrations can be attributed to the DRA. Because of the industrial nature of neighboring properties, the potential exists that the upwind sampling location will have detectable concentrations of aromatic and chlorinated hydrocarbons.

6.7 Drummed Waste Laboratory Analysis

If the hazard characterization results are inconclusive, inconsistent, or of concern to the field chemist, samples of drummed wastes will be taken to a state-certified laboratory for analysis. Samples will be collected as described in Section 6.3. The following steps will be utilized to ensure the samples collected are properly identified and transported and that the requested analyses are performed.

Sample Labels. Sample labels are required for all samples. Site- and time-dependent information will be added to the labels using indelible ink. The labels will be protected from water and solvents with clear tape. Each label will contain the following information:

- Project name
- Name of collector
- Date and time of collection
- Sample number
- Preservative (if any)
- Method of analysis

Sample Identification System. A sample identification system will be used in the field to identify each sample collected during the sampling program. This coding system will provide a tracking record to allow retrieval of information about a particular sample and ensure that each sample is uniquely identified. Each sample will be identified by a unique code that indicates the site number, sample type, sample point, and sequence number.

Chain-of-Custody. Sample possession will be documented through the use of a chain-of-custody (COC) record. The COC will be used to document the integrity (i.e., quality) of samples during collection, transportation, analysis, and reporting. The possession of the samples will be traceable from the time samples are collected until the analyses are reported by the laboratory.

Each sample label and COC form will contain the following information:

1. Sample site type, which describes the nature of the media sampled (COC only)
2. Site identification (ID), which is keyed into a location by an alphanumeric code or a descriptive title
3. Sampling date
4. Time of sample collection, in 24-hour clock designation
5. Sampling technique
6. Name and signature of personnel responsible for sample collection
7. Specific name of the chemical or physical analysis to be performed
8. Project name (COC only)
9. Airbill number (COC only)
10. Laboratory ID (COC only)
11. Sample label or tag number
12. Preservation technique used and whether sample has been filtered

A sample label will be placed on the sample container before sample collection, when possible. The necessary information will be written on the label in permanent ink before sample collection, and the label will be secured to the container. All sample information recorded in the field will also be copied onto the COC before sealing the shipping cooler.

Samples will remain in the HLA Site Supervisor's custody or control following sample collection. The Site Supervisor will inspect each COC form to ensure it is accurate and legible before being released for transport to the laboratory. If necessary, a hazardous materials label will be placed on a readily visible portion of the sample cooler to warn transportation personnel of its contents. Individuals relinquishing custody or receiving custody will sign, date, and record the time on the COC form or airbill, if applicable. Copies of the COC form and airbill will be placed inside the sample cooler (at 4°C) in a tamper-proof envelope taped in place. The coolers will then be sealed with evidence tape. The courier will obtain custody of the samples through the airbill or shipping bill.

Transportation of Samples to Laboratory. All samples will be accompanied by a COC form. When transferring samples, the HLA field representative relinquishing and the individual receiving the sample(s) will sign and date the chain of custody form. When samples are shipped to Del Mar Analytical for analysis, the COC form will accompany each shipment and the method of shipment, courier name(s), and other pertinent information will be entered on the. A copy will be retained at the file or project office.

Laboratory Analysis. Upon receipt of samples by the laboratory, each field sample will be noted on a laboratory logsheet. The sample log-in clerk will physically apply a unique laboratory sample number to each sample. If sample tags are received with the samples, the laboratory sample number will also be applied to these. Care will be taken to ensure that the sample number does not interfere with information recorded on the sample label.

6.8 Decontamination Procedures for Sampling Equipment

Reusable sampling equipment that contacts drum contents will be decontaminated before each use. Decontamination will consist of Alconox wash or potable and deionized water rinses, as appropriate.

- Before individual sample collection, the equipment will be cleaned in an Alconox solution, rinsed with potable water, and rinsed with deionized water.
- All sampling equipment will be allowed to air dry before reuse.
- Clean sample containers will be provided as needed.

6.9 Calibration Procedures

The analytical instruments will be calibrated for target analytes in accordance with the required analytical method. The initial calibrations, continuing calibrations, and calibration evaluation will be

performed and calculated in accordance with the methods outlined in Appendix F, Instrument Calibration Procedures.

The field logs and sample record logs are discussed below.

6.10 Documentation Control

All project files will be maintained by the HLA Project Manager. All documents will be kept in project files in the field office and in HLA's Santa Ana, California office.

7.0 DATA COLLECTION QUALITY ASSURANCE PLAN

7.1 Project Description

The DCQAP has been prepared to address the collection of scientifically sound and defensible data for the removal of approximately 2,700 drums, decontamination of five ASTs, five distillation columns, two evaporators, one sump, and two storage pads at the Omega Site in Whittier, California. Adherence to this plan will ensure that the data collected by HLA are documented and of known precision, accuracy, and completeness.

This DCQAP is applicable to all HLA activities and to the management of HLA subcontractor activities in the collection and evaluation of data. The data quality objectives for the removal action are: (1) to remove approximately 2,700 drums at the site; (2) to identify the hazardous characteristics of the drums' contents; and (3) to present data that can be legally defended in a court of law.

In order to accomplish the preceding objectives, this DCQAP is designed to implement specific project procedures necessary to maintain an acceptable level of quality of technical results. This DCQAP including QC procedures and the Work Plan (Section 4.0) has been developed to meet the applicable quality guidelines of the following documents:

- EPA *Quality Assurance/Quality Control Guidance for Removal Activities under CERCLA* (April 1990)

The DCQAP and the Work Plan specify appropriate controls, responsibilities, and records requirements for observations, sample collection, and measurements. Project procedures relevant to this project and referenced in this DCQAP are contained in the Work Plan.

A complete description of the location, size, important features, and chronological history of the Site has been provided in Sections 1.2 and 1.3 of this Plan.

7.2 Project Organization and Responsibilities

Project organization and key personnel applied to each project task are outlined in Section 2.0; Organization Responsibilities and Contacts.

7.3 Quality Assurance Objectives For Measurement

The overall QA objectives are to develop and implement procedures for obtaining and evaluating data in an accurate, precise, and complete manner so that analytical data, sampling procedures, and field characterization provide information that is internally comparable and representative of actual field conditions. Furthermore, it is an objective of the QA program that data collection procedures will be sufficiently documented so that data are traceable and legally defensible in a court of law.

This DCQAP establishes procedures necessary to produce technical products of consistent quality. This uniformity will be accomplished through the formal standardization and documentation of field and laboratory techniques and activities. In addition, project deliverables will be distributed and reviewed in accordance with specific guidelines. All field and laboratory activities will be coordinated and reviewed to ensure consistency with overall project objectives. Actual field and laboratory activities will be performed by properly trained and qualified personnel and will conform to specific procedures outlined in this DCQAP and the Field Sampling Plan (Section 6.0).

Project deliverables resulting from these activities will be submitted to QA personnel to be reviewed for accuracy, precision, completeness, comparability, and representativeness. The definitions of these terms are as follows:

- Accuracy - The degree of agreement of a measurement with an accepted reference or true value.
- Precision - A measure of mutual agreement among individual measurements of the same property, usually under prescribed similar conditions. Usually expressed in terms of the standard deviation.
- Completeness - The amount of valid data obtained from a measurement system compared to the amount that was expected and needed to be obtained to meet the project data goals.
- Comparability - Expresses the confidence with which one data set can be compared to another.

- Representativeness - Refers to a sample or group of samples that reflects the characteristics of the media at the sampling point. It also includes how well the sampling point represents the actual parameter variations that are under study.

Project goals for accuracy and precision are established for the results of chemical analyses of field and laboratory QC samples. Refer to the Quality Assurance Program included in Appendix G. These goals have been subdivided by sample medium and analytical method. The goals are consistent with the standard QA/QC goals referenced for each method. If precision and accuracy goals are not specified for an analytical method in the respective published manuals, laboratory-defined criteria will be adopted. The actual precision and accuracy of the chemical analysis results will be calculated using the analytical results of field and laboratory QC samples specified in Section 7.8 and using Appendix G.

As the attainment of project precision and accuracy goals is reviewed, project goals may be revised to address site- and media-specific concerns. Such site- and media-specific QC goals may be developed, for example, in cases where complex sample matrices and sample heterogeneity prevent attainment of original precision and accuracy goals for laboratory and field QC samples.

Comparable data are obtained by consistently using standard analytical and characterization methods and standard sampling procedures, and by reporting all values in consistent units. For example, no mixtures of standard and metric units will be reported for depths, distances, elevations, etc. Results of standard and nonstandard analyses will not be compared without taking into account the potential influence of differences in methodology on sample results.

Representative data are obtained by following proper and consistent procedures for sample collection and as well as application of approved standard analytical methods. Additionally, the sampling points will adequately reflect the characteristics of the medium that is sampled.

In striving to meet the QA objectives outlined above, HLA will implement data reduction and validation procedures described in Section 7.8. QC measurements for these activities are addressed in Appendix G.

In the event of a "nonconforming" item occurrence (an occurrence that could render the quality of an item or activity unacceptable or indeterminate with respect to specific requirements), a nonconformance report will be initiated and processed in accordance with Appendix G. This procedure addresses the identification, documentation, segregation, tracking, review, approval, disposition, and notification of affected organizations concerning nonconforming items and activities. If deemed necessary, corrective action, in accordance with Section 7.13, will also be initiated.

7.4 Sampling Procedures and Field Measurements

Sampling procedures are described in detail in the SAP Field Sampling Plan (FSP) Section 6.0. The FSP provides a general description of collection and preservation methods; sample storage, shipping, and sample custody; analytical test methods; and the sample identification system.

Field parameters will be measured using instruments that have been calibrated and are operated according to the manufacturers' guidelines and recommendations. Field measurements will be recorded by a qualified HLA engineer/scientist who has been trained in the use and calibration of each instrument.

7.5 Sample Custody

To comply with the guidelines outlined in the EPA *Users Guide to the Contract Laboratory Program*, sample possession must be documented. Because samples collected during any investigation could be used as evidence in a court of law, their possession must be traceable from the time the samples are collected until they are introduced as evidence in legal proceedings. To document sample possession, chain-of-custody (COC) procedures will be followed.

In collecting samples for evidence, enough of a quantity will be collected to provide a good representation of the medium being sampled. Quantities of samples collected are predetermined by the test method for the particular analyte of interest.

The Site Chemist and the Site Supervisor will be responsible for the custody of the samples collected until they are transferred or properly dispatched. The Site Supervisor will assess whether proper custody procedures were followed during the field work and will decide if additional sample collection is required.

Samples will be accompanied by a COC record. During transfer, individuals relinquishing and receiving the samples will sign, date, and note the time on the record. The COC form will document the sample custody transfer from the sampler, through a courier, to the laboratory.

- Samples will be packaged properly for shipment and dispatched to the Del Mar Analytical Laboratory for analysis, with a separate chain-of-custody record accompanying each shipment. A copy of the COC record will be retained in the project files.

- Del Mar Analytical Laboratory will accept custody of the shipped samples and verify that the information on the sample identification tags matches that on the COC records.

- Del Mar Laboratory will use the sample identification number or assign a unique laboratory number to each sample, and ensure that all samples are transferred to the proper analyst or stored in the appropriate secure area.

- Del Mar's laboratory custodian will distribute samples to the appropriate analysts. Laboratory personnel will be responsible for the care and custody of samples from the time they are received until the sample is either exhausted or is returned to the custodian.

7.6 Calibration Procedures

The equipment used in collecting field data will include a variety of instruments. Proper maintenance, calibration, and operation of each instrument will be the responsibility of the HLA personnel assigned to each task. Instruments and equipment used during the study will be maintained, calibrated, documented for calibration, and operated according to the manufacturers' guidelines and recommendations. A list of instruments requiring calibration will be maintained for the duration of the study in a calibration notebook (see Exhibit A). A record of all instrument calibration activities also will be maintained in a Site calibration notebook. Any required service, repairs, or replaced parts will be noted.

If an instrument is found, upon calibration, to have been used when it was out of calibration limits (to the extent that resultant data would be invalid), the occurrence will be considered unusual and subject to corrective action in accordance with Section 7.13.

Laboratory calibration procedures will be conducted in accordance with the approved EPA QA/QC guidelines and laboratory policies.

7.7 Analytical Procedures

In general, Del Mar Analytical will adhere to the following:

- "Test Methods for Evaluating Solid Wastes, Physical/Chemical Methods," EPA Publication SW-846 [Third Edition (November, 1986), as amended by Updates I (July, 1992), II (September, 1994), and IIA (August, 1993)].

- Title 21, Code of Federal Regulations, CFR Part 58, *Good Laboratory Practices*;
- Criteria described in *Methods for Chemical Analysis of Water and Wastes* (EPA, 1979; EPA-600/4-79-202);
- Requirements outlined in *Users Guide to the Contract Laboratory Program* (EPA, 1986).
- Physical testing will be conducted in accordance with American Society for Testing and Materials standards (Annual Book of ASTM Standards, 1994).

7.8 Data Reduction, Validation, and Reporting

Quality assessment of the analytical data will adhere to the procedures in the EPA *Users Guide to the EPA Contract Laboratory Program* for analysis of chemical data. These procedures specify the documentation needed and the technical criteria required to complete QA/QC of the data.

Validation of laboratory data will be performed by HLA specialists in analytical chemistry or physical testing and will adhere to the guidelines presented in the draft document *Scientific and Technical Standards for Hazardous Waste Sites* (California Department of Health Services [DHS], 1990). The laboratory will be required to submit results that are supported by sufficient backup data and QA/QC results to enable the reviewer to conclusively determine the validity of the data.

Validation of all data obtained from field measurements will be performed by qualified field personnel. Validation will be performed by checking calibration procedures utilized in the field and by comparing the data to previous measurements obtained at the specific site.

The Quality Assurance Officer (QAO) will check the data sets to ensure that QC was performed in accordance with the DCQAP.

7.9 Internal Quality Control

QC consists of specific checking, examination, and inspection as described in the procedures for field data collection, sample collection, and analysis. Documentation of QC actions is provided on field logs, data reports, related records or documents, and correspondence, all of which are then filed and maintained in the controlled project file.

7.10 Performance and System Audits

Field and office activities will be monitored and periodically audited by the QAO to evaluate the implementation effectiveness of the project QA program to produce reliable sampling and field measurement data.

Audit reports will be issued to the Project Manager with copies to the HLA Program Manager. Field audits will evaluate the execution of sample collection, sample identification, sample control, COC, field documentation, instrument calibration, field measurement, and data acquisition procedures. Office audits will evaluate data reduction and management activities, project record completeness and retrievability, and conformance to procedures for the issuance of all work products.

The initial audits will be conducted at both the office and the Site beginning at the inception of onsite activities in order to evaluate implementation of the DCQAP and project procedures.

It is not currently anticipated that audits of analytical laboratories will be necessary. However, the selected laboratory will be required to provide documentation of state certification. If inconsistencies or performance aberrations are noted during routine analytical data assessment and inspection, corrective action may be required (Section 7.13).

7.11 Preventive Maintenance

All instruments and equipment will receive routine preventive maintenance, which will be recorded in instrument-specific maintenance logs. At a minimum, all instruments will be inspected for usable condition and calibration status prior to field use.

Laboratory instruments will be maintained according to the QA/QC plan established by the laboratory. Calibration and maintenance will be performed in accordance with approved EPA calibration and maintenance checks.

7.12 Specific Routine Procedures to Assess Data

Chemical data will be validated according to accuracy, precision, and completeness for both the field and analytical laboratory programs. The primary goal of the programs is to ensure that the data reported are representative of conditions onsite. To meet this goal, a combination of statistical procedures and qualitative evaluations will be used to check data quality. If problems arise and the data are found to

deviate from previous analyses or analyses of surrounding conditions, the data will be annotated rather than removed from the database. Repetition of sample collection and analysis will be used only in extreme cases of QC problems.

7.13 Corrective Actions

The need for corrective action may be identified during QC review of data and reports, during field and office audits, or during QA monitoring of activities. Identification, correction, verification, and documentation of corrective actions so identified are controlled by the appropriate sections of this DCQAP. Laboratory nonconformance may be noted during routine analytical data assessment and inspection. In such instances, the laboratory, QAO, and appropriate technical specialist will discuss the situation, and a corrective action report (CAR) will be prepared documenting the corrective action to be implemented (see Exhibit C). If necessary, HLA will perform an audit of the laboratory to confirm that corrective actions are implemented and are appropriate. The CAR will be distributed to the project file, Project Manager, and QAO.

During performance of a field investigation, the predictability of field conditions is limited. If conditions are encountered that are outside or contrary to those anticipated in project planning and not provided for or contrary to field investigation procedures, affected work will be stopped. The Task Managers or Project Manager will be immediately consulted, and their decision will be followed concerning direction of work. Any such deviation from approved procedures will be documented in field notebooks, and a CAR will be prepared. The involved Task Managers or Project Manager will be responsible for preparing and processing the CAR. The cause and actions to prevent recurrence will be approved by the project manager and the QAO. The QAO will verify completion of all actions required by the CAR. If appropriate, data sheets will be annotated. The CAR will be distributed to the project file, Project Manager, and QAO.

7.14 Quality Assurance Reports

The QAO will issue periodic QA activity reports to the Project Manager with copies to the HLA Program Manager. These reports will identify any audits conducted, audit findings, and finding resolution status. In addition, QA reports will include results of QA activities, i.e., assessments of measurement data accuracy, precision, and completeness; QA surveillance; and any corrective action items.

The Phase I report will include a QA section. A summary of the QA program results and quality of generated data will be discussed in this QA section.

EXHIBIT A

WEEKLY PROGRESS REPORT FORM

EXHIBIT B

EXHIBIT B

TECHNICAL MEMORANDUM FORM

EXHIBIT C

EXHIBIT A

LIST OF INSTRUMENTS REQUIRING CALIBRATION

ID NO.	INSTRUMENT	SERIAL NUMBER	CALIBRATION FREQUENCY

INSTRUMENT		DATE CALIBRATED	NEXT CALIBRATION DUE
ID NO.	DESCRIPTION		

CALIBRATION STANDARD:				CALIBRATED BY:			
AS-FOUND CONDITION				CALIBRATION DATA			

COMMENTS:

NAME: SITE:

INSTRUMENT		DATE CALIBRATED	NEXT CALIBRATION DUE
ID NO.	DESCRIPTION		

CALIBRATION STANDARD:				CALIBRATED BY:			
AS-FOUND CONDITION				CALIBRATION DATA			

COMMENTS:

NAME: SITE:

INSTRUMENT		DATE CALIBRATED	NEXT CALIBRATION DUE
ID NO.	DESCRIPTION		

CALIBRATION STANDARD:				CALIBRATED BY:			
AS-FOUND CONDITION				CALIBRATION DATA			

EXHIBIT B

CALIBRATION RECORD

COMMENTS:			
NAME:		SITE:	
1. Project Number	2. Project Name		3. CAR Identification Number
4. Responsible Manager		5. Date	6. Personnel Involved
7. Reference Document(s)			
8. Unusual Occurrence or Unexpected Event Description			
9. Cause Determination			
10. Corrective Action to Preclude Recurrence			
11. Schedule Date	12. Approval (PM & QAO)	13. Completion Date	14. Submitted by

CORRECTIVE ACTION REPORT

15. VERIFICATION
Actions:

By QAO: Date:

8.0 CONTINGENCY PLAN

8.1 Contingency Plan

This Contingency Plan has been developed by HLA to present procedures that should be followed in the event of an emergency at the Site. A variety of events that are potential hazards to human health and the environment are discussed, including the following:

- An explosion or fire
- A chemical or petroleum spill or accident
- Other events presenting a hazard to human health or the environment

This section also specifies the general procedures should be followed, who should be notified, and the information that should be reported for the first person on the scene of an emergency.

8.2 Response Sequence for First Arrivals

If you are first on the scene, respond as follows:

1. Evacuate the incident area (if necessary). Rescue injured personnel and provide first aid as necessary. Remember that your safety must be the primary consideration.

2. Restrict access to the incident area.

3. Restrict the use of ignition sources for incidents involving flammable substances.

4. Call the Site Supervisor or the appropriate local emergency response organization (e.g., paramedics, fire department). Report the following information:

    - Your name
    - Company affiliation
    - Telephone number from which you are calling
    - Location and type of incident
    - Injuries, if any, and the number and type of those injuries
    - Details concerning the substance(s) involved (identification, amount, spill rate, size of area involved), if known

- Direction the spill is moving and the direction the wind may be dispersing airborne contaminants
- Surficial material on which the spill occurred (e.g., asphalt, gravel)
- Any first response action that has been taken
- The time the incident occurred or when you discovered it
- Any additional pertinent information

5. Notify the SSHO after the emergency response team has been contacted. The SSHO will then notify the local DSHO.

6. Coordinate with emergency response personnel when they arrive.

8.3 Response for Incidents Involving Another Contractor

If the incident involves another contractor's activity:

- Initiate steps 1 through 4 under Section 8.2.
- Decontaminate and remove PPE if the incident is not life- or health-threatening.
- Proceed to the predetermined assembly point.
- Make sure the SSHO knows you are present.

8.4 Emergency Response for Severe Weather Conditions

This section specifies what you should do in the event of a severe weather emergency, including electrical storms, high winds, and heavy rain or hail.

Electrical Storms

- Seek shelter at the support facility or in the field vehicles.
- Do not stand near or under high objects, such as trees and drilling rigs.
- If possible, lower the drilling rig mast.

High Winds

- Seek shelter at the support facility (if anchored) or in the field vehicles.
- Do not drive high-profile vehicles at high speeds.
- Park vehicles heading into the wind.

- If blowing dust is a hazard, don a respirator or wear safety goggles and a kerchief covering your nose and mouth.

Heavy Rain or Hail

- Seek shelter at the support facility or in the field vehicles.
- Do not attempt to drive a vehicle if you are in an area that is flooding or has the potential for flooding unless you are moving out of a low area.

8.5 Emergency Response for Earthquakes

Inside

If an earthquake occurs while you are in a building, follow these instructions:

- Stand in an interior doorway or get under a desk or table.
- Stay away from areas containing a large amount of glass.
- Do not use stairways or elevators during the tremor.
- If possible, turn off gas supplies and ignition sources.
- Be aware of the potential for live downed wires.
- Make sure the telephone handset is on the hook. Do not use the telephone for non -emergency calls.
- Evacuate the building when the tremors have ceased. Be aware of the potential for aftershocks.
- Walk briskly. Do not run. Do not pick up personal items.
- Report to a predetermined assembly area and notify your supervisor or the area monitor that you are safe.
- Report missing persons.

Outside

If an earthquake occurs while you are outside, follow these instructions:

- Avoid buildings, trees, areas with large amounts of glass, and power lines.
- Avoid downed wires.
- If operating heavy equipment or a motor vehicle, stop immediately but stay in the vehicle until the tremors have stopped.
- If operating a motor vehicle on a bridge, proceed to solid ground if the end of the bridge is close.

- If operating a motor vehicle on a bridge at mid-span, get out of the vehicle and begin walking to the nearest solid ground.

8.6 Emergency Response for Flash Floods

If a flash flood warning is issued, climb to higher ground. Seek shelter on stable ground. Do not stay in an area that is characterized by uncompacted material on a steep slope.

8.7 Emergency Response for Fires

If a small fire occurs, extinguish it with the fire extinguisher in the field vehicle. Remember to follow these directions to put out the fire:

- Aim at the base of the flame.
- Use the appropriate type of fire extinguisher (e.g., do not use a water-type fire extinguisher or an electrical fire).
- Remember that the spray only lasts a few seconds.

If a large fire occurs at the work site, follow these instructions:

- Move flammable and combustible items out of the path of the fire, only if such action can be performed safely.
- Call the fire department and report the information outlined under Section 8.2, step 4.
- Do not attempt to put out a large fire with the field vehicle fire extinguisher.
- Report the incident to the Site Supervisor.

8.8 Fire Prevention

Steps to be taken to minimize the potential of a fire include the following:

- Obey "No Smoking" signs.
- Label and store flammable liquid containers in a protected, ventilated, and approved area.
- Use only approved containers for flammable liquid storage.
- Use minimum amounts of flammable liquids.
- Shut off engines before refueling, if possible.
- Do not refuel a hot engine unless an ABC-rated fire extinguisher is nearby.
- Store oily rags in a self-closing metal container. Dispose of containers properly.

- Bond and ground all flammable liquid containers and transfer equipment when transferring or filling product.
- Use intrinsically safe equipment in areas potentially containing flammable vapor.

8.9 Emergency Response for Explosions

If an explosion occurs, follow these instructions:

- Initiate steps 1 through 4 under Section 8.2.
- If feasible, decontaminate yourself and others.
- Do not address medical emergencies until you are out of danger.
- Call the Site Supervisor or local emergency response organization when you are out of danger to report the incident.

8.10 Emergency Response for Spills

The following sections provide guidance regarding emergency response to a chemical spill including initial response to the incident and cleanup. Precautions you should take to minimize the likelihood of a spill are presented at the end of this section.

8.11 Initial Spill Response

When a spill occurs:

- Minimize or contain the flow by shutting off a valve, repairing the leak, righting an overturned barrel, or whatever action is appropriate. Remember that your safety is of primary concern. Only attempt emergency response actions if you can do so without injury or harm to yourself.
- Provide first aid to injured persons as needed.
- If the spill occurs on a porous surface (e.g., soil, gravel) mark the area so that samples may be taken to determine the area of impact. If the spill occurs on concrete, asphalt, or similar material, use sorbent material to contain the spill. Sorbent materials will be kept in field vehicles and in the support facility. Cover the area with soil, a tarp, plastic, or other appropriate material if the spilled material is volatile and cannot be cleaned up immediately.
- Call the Site Supervisor or the local emergency response organization (as applicable) to report the incident. Supply the information listed under Section 8.2.
- Dependent on the location and chemical nature of the spilled liquid, initial response action may require donning Level C or Level B PPE.

8.12 Spill Site Decontamination

Site personnel involved in the response action will undergo limited personal decontamination upwind of the incident site. Further decontamination will be completed at the decontamination area in the support zone. The SSHO will authorize site personnel to leave the job site or continue work, as appropriate. The Site Supervisor will provide guidance regarding decontamination and/or disposition of equipment and vehicles.

If personnel come in contact with site contaminants, they should remove and dispose of contaminated PPE, change out of contaminated field clothing, and wash exposed skin with soap and water.

8.13 Cleanup Materials and Used Personal Protective Equipment Disposal

- Materials used in spill cleanup must be collected and placed in barrels and stored at the Site. Contaminated soil, soil cleaned from equipment, and decontamination water will also be drummed or placed in a rolloff container and stored. The Site Supervisor should assess whether the surficial material on which the spill is located requires treatment or removal and relay this information to the Project Manager.
- Decontamination of large equipment may be performed at a temporary decontamination pad set up at the Site or at a central decontamination pad.
- Tools used during spill cleanup will be thoroughly cleaned at the decontamination pad.
- Used PPE will be rinsed of gross contamination, placed in barrels, and stored at the job site.

8.14 Spill Prevention

To minimize the potential for a spill, follow these guidelines:

- Receive instruction concerning recognition of potential spill problems, preventative maintenance actions, and increased safety awareness.
- Inspect stored materials at the beginning of each workshift. The container condition, as well as any notation of leaks or staining that may be related to or indicative of a potential spill, will be recorded in a field logbook. Deficiencies or corrective actions must be reported immediately to the Site Supervisor.
- Inspect transfer vehicles and equipment at the beginning of each day. Equipment conditions, as well as any notation of leaks or staining that may be related to or indicative of a potential spill, will be recorded in a field logbook. Loose and or worn connections and worn hoses will also be noted. Any abnormalities must be reported immediately to the Site Supervisor and steps should be taken to remedy the situation before continuing transfer activities.

- Make sure materials being stored are compatible with the containers in which they are being stored. Incompatible materials shall not be stored together.
- Store containers larger than 1 gallon separately from smaller quantities. Larger liquid storage containers will be stored in a warehouse and must have a secondary containment system. This system can be as simple as a liner with a berm constructed of 4-inch by 4-inch boarding and should be able to contain an amount 10 percent greater than that of the original container.
- Transfer liquid with catch basins under each joint or valve or with the hose or pipe lined so that no liquid can escape.

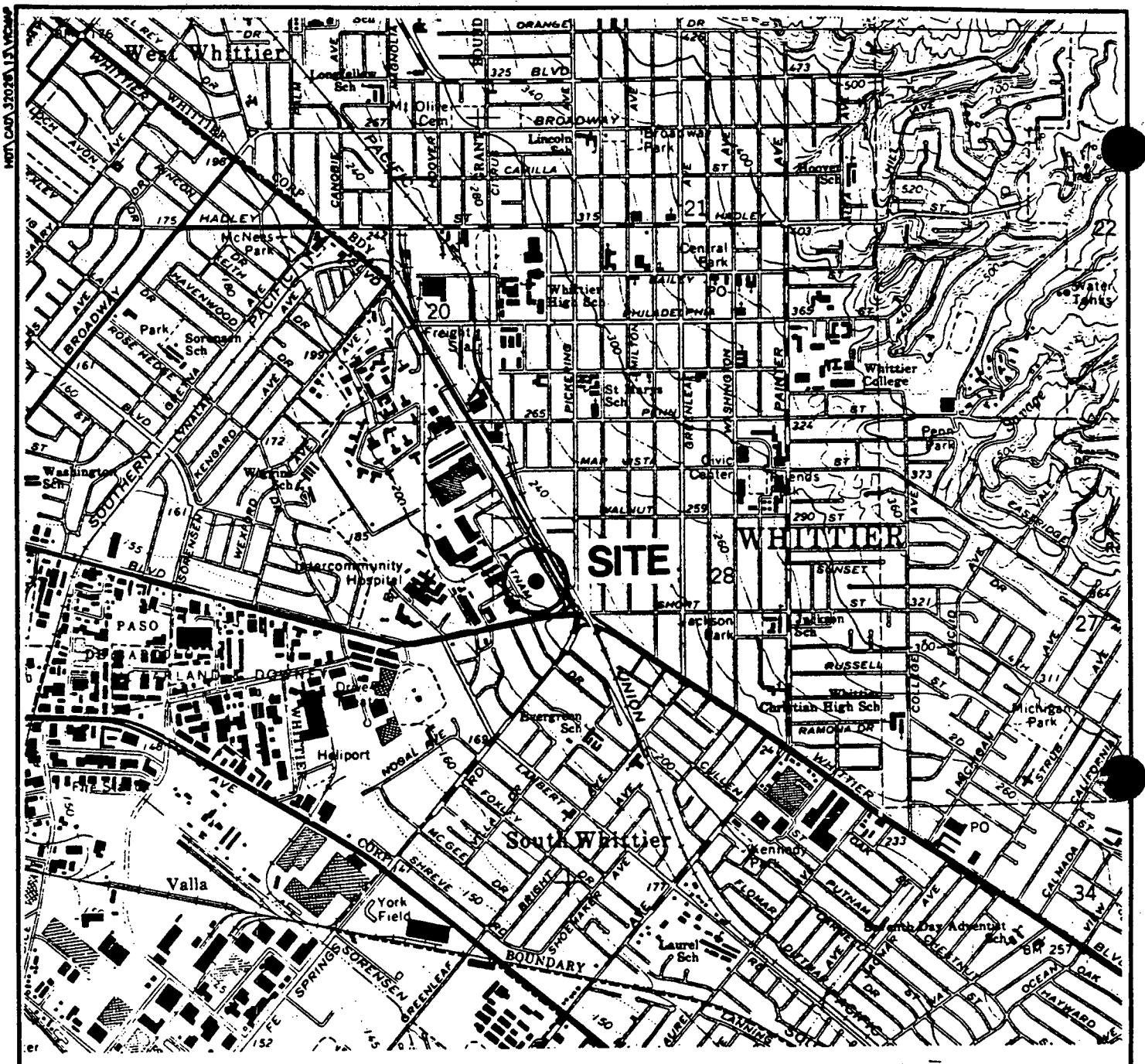
8.15 Responsibilities of Site Personnel

- Follow the first response directives in Section 8.2.
- Wear the correct and appropriate PPE for project completion.
- Use monitoring equipment applicable to the anticipated hazards (e.g., CGI, FID, PID)
- Have a decontamination area set up for fieldwork.
- Use approved decontamination procedures.
- Have available a means to decontaminate affected personnel.
- Treat minor injuries using the onsite first-aid kit.
- Take personnel with serious injuries to the nearest hospital to the Site or contact a medical emergency response team (Refer to Section 3.0, Health and Safety Plan).
- All personnel at the location where the incident has occurred must completely decontaminate and be debriefed by the SSHO before leaving the Site.
- Perform remedial actions as appropriate.

8.16 Emergency Response Equipment

The following is a list of minimum equipment that is required to be available for emergency response actions:

- 5-pound ABC-rated fire extinguisher
- First-aid kit
- Emergency shower
- Eyewash station or eyewash bottles (totaling 32 ounces)
- Appropriate type and quantity of absorbents for the situation
- Chemical-resistant brooms, shovels, and containment equipment



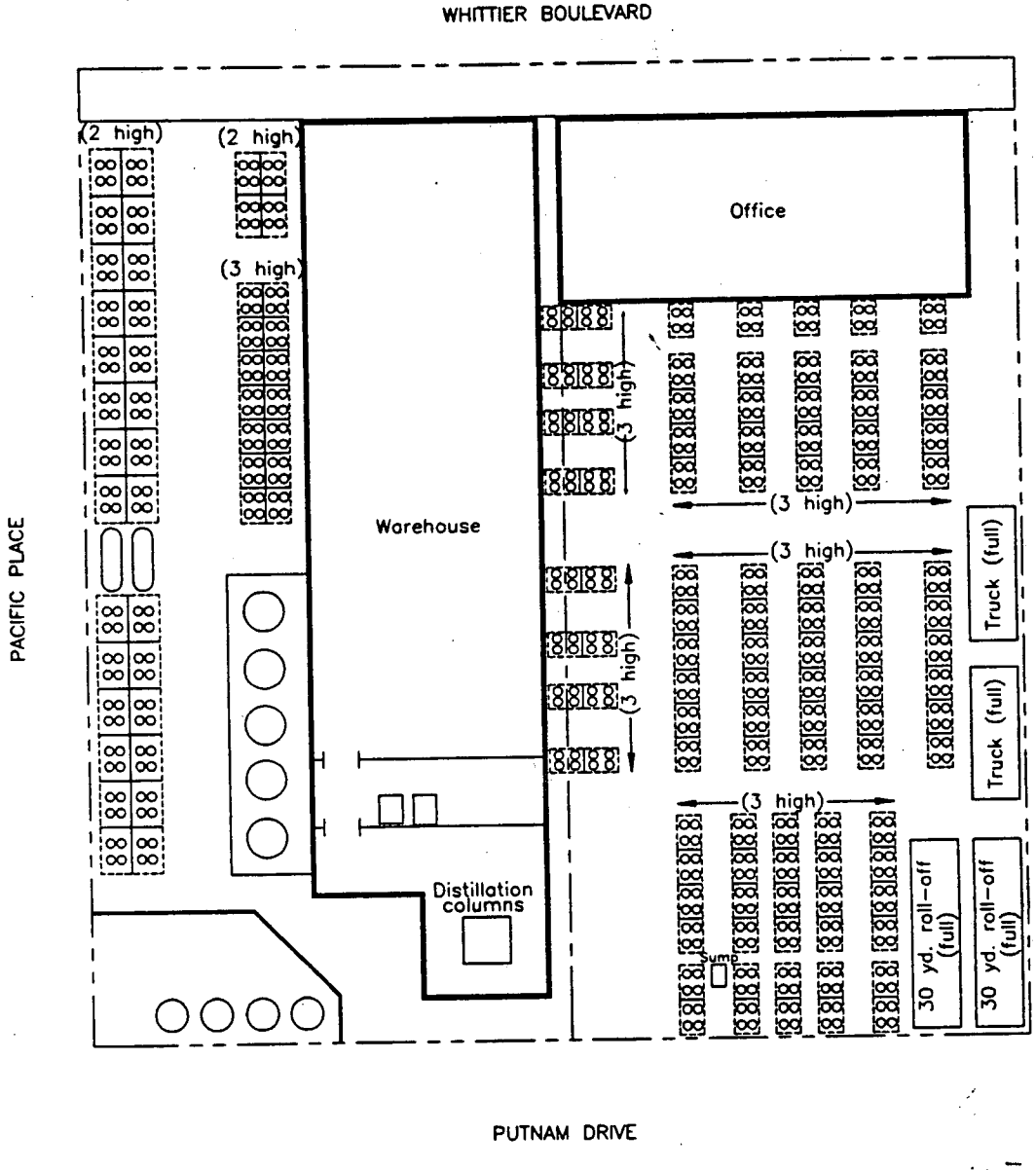
Reference: USGS 7.5-minute quadrangle, Whittier, California (photorevised 1981)

HARDING LAWSON ASSOCIATES
Engineering and
Environmental Services

VICINITY MAP
Omega Chemical Corporation
Whittier, California

PLATE

DRAWN	PROJECT-TASK NUMBER	APPROVED	DATE	REVISED DATE
JTL	32026-12		6/95	



EXPLANATION

Location of storage pallets

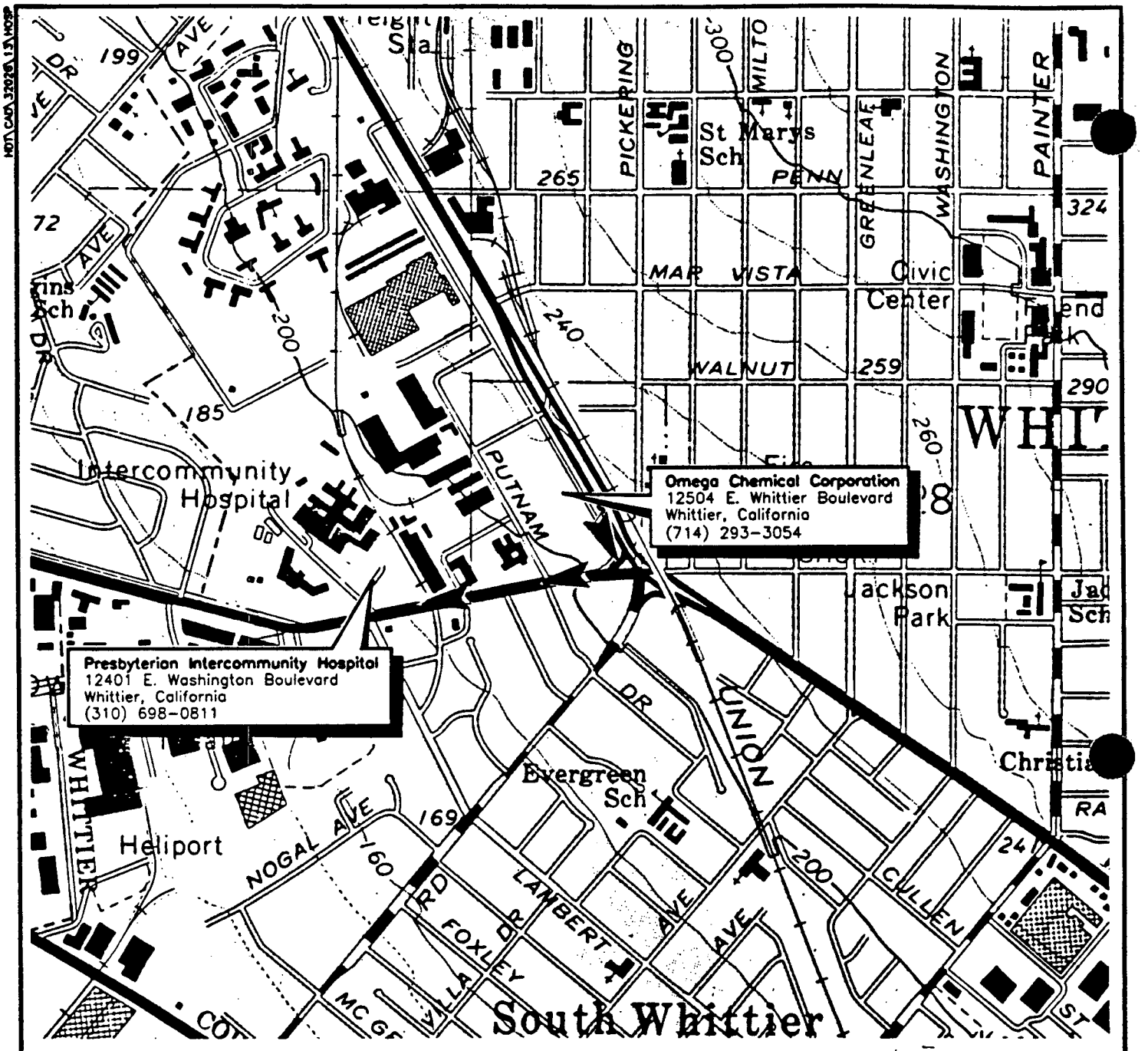
APPROXIMATE
Scale 0 20 40 feet

PLATE 2

HARDING LAWSON ASSOCIATES
Engineering and Environmental Services

SITE PLAN
Omega Chemical Corporation
Whittier, California

DRAWN	PROJECT-TASK NUMBER	APPROVED	DATE	REVISED DATE
JTL	32026-12		6/95	



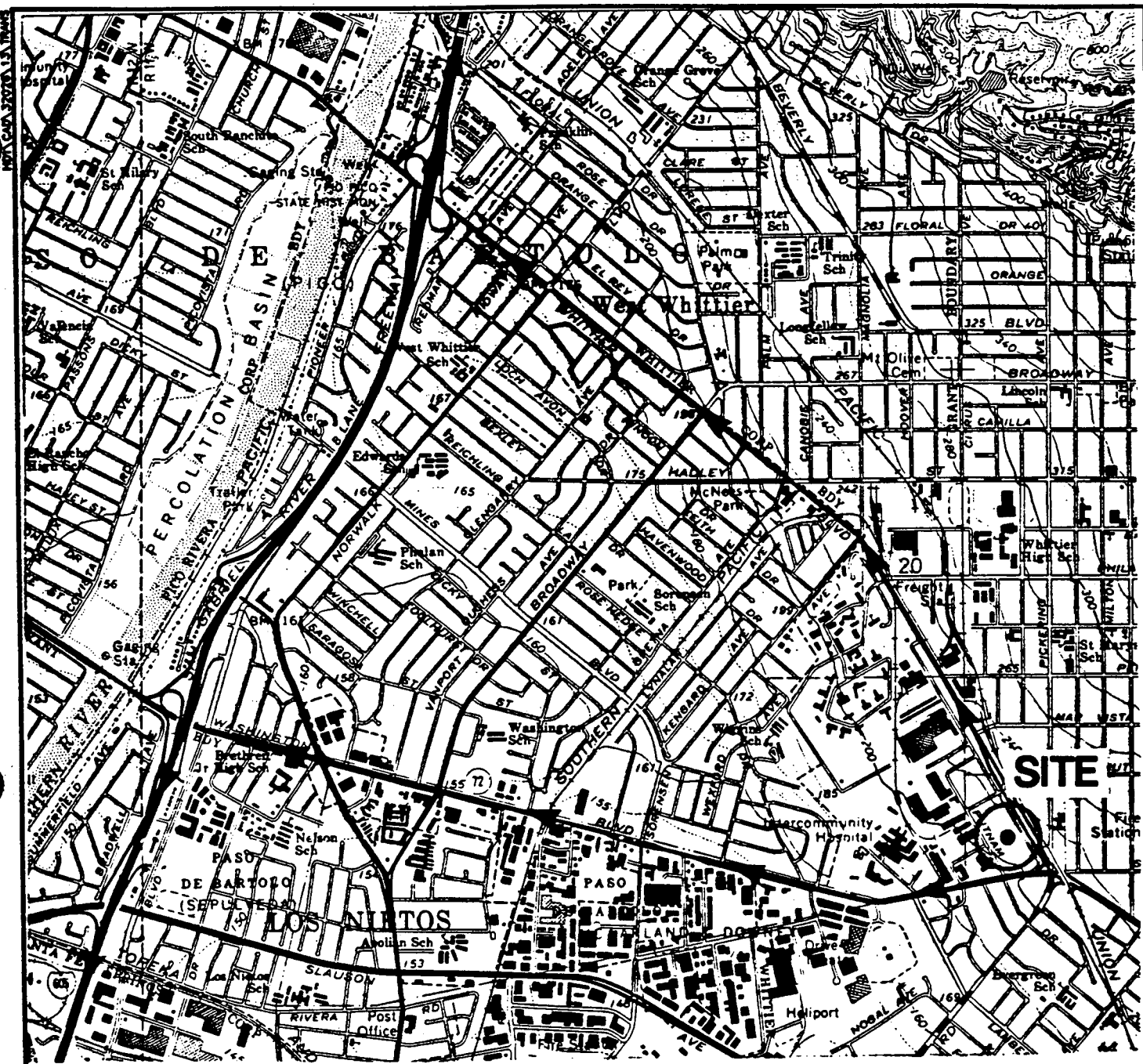
Reference: USGS 7.5-minute quadrangle, Whittier, California (photorevised 1981)

HARDING LAWSON ASSOCIATES
Engineering and
Environmental Services

TRAVEL ROUTE TO HOSPITAL
Omega Chemical Corporation
Whittier, California

PLATE

DRAWN	PROJECT-TASK NUMBER	APPROVED	DATE	REVISED DATE
JTL	32026-12		6/95	



Reference: USGS 7.5-minute quadrangle, Whittier, California (photorevised 1981)

PLATE

HARDING LAWSON ASSOCIATES
Engineering and
Environmental Services

TRANSPORTATION ROUTE MAP
Omega Chemical Corporation
Whittier, California

4

DRAWN	PROJECT-TASK NUMBER	APPROVED	DATE	REVISED DATE
JTL	32026-12		6/95	

APPENDIX A

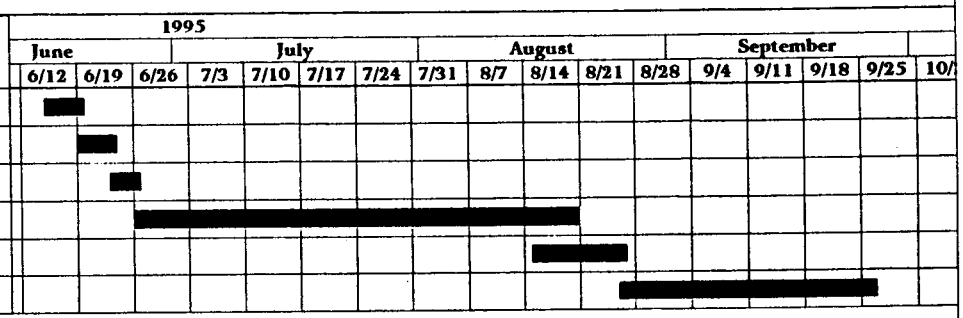
PROJECT SCHEDULE

OMEGA CHEMICAL CORPORATION

DRUM REMOVAL ACTION

Project Schedule

Task Name	Sched Start	Sched Fin
Preparation of Phase I Work Plan	06/15/95	06/19/95
EPA Approval of Work Plan	06/19/95	06/23/95
Initiate Field Activities	06/23/95	06/26/95
Drum Removal	06/26/95	08/20/95
Equipment Decontamination	08/15/95	08/26/95
Phase I Report Preparation	08/26/95	09/26/95



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Engineering and
Environmental Services

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APPENDIX B

ORGANIZATIONAL RESPONSIBILITIES CHART

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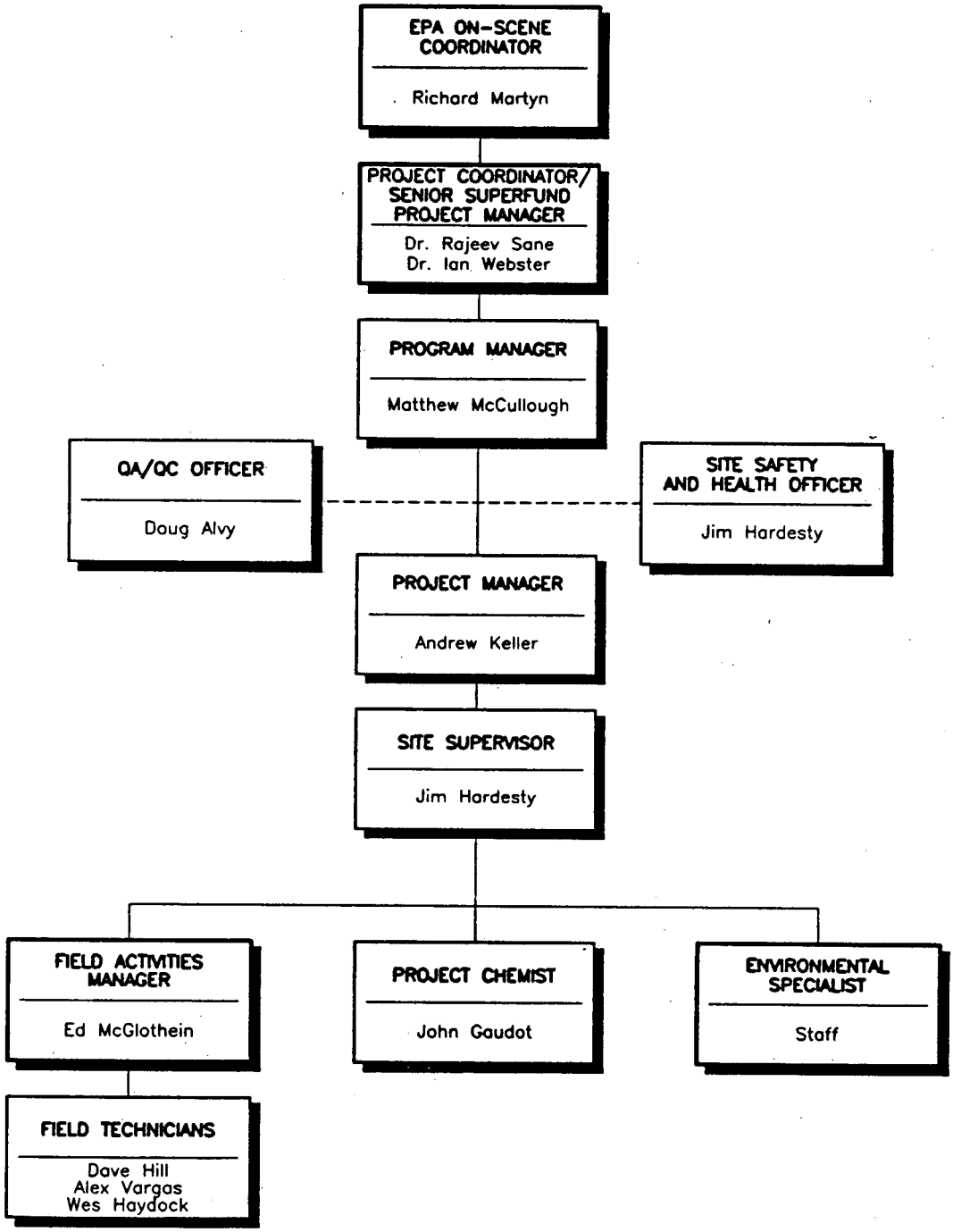

HARDING LAWSON ASSOCIATES
Engineering and Environmental Services

ORGANIZATIONAL RESPONSIBILITIES WORKCHART
Omega Chemical Corporation
Whittier, California

PLATE

DRAWN	PROJECT-TASK NUMBER	APPROVED	DATE	REVISED DATE
JTL	32026-13		6/95	

APPENDIX C

DRUM HANDLING AND OPENING PROCEDURES

APPENDIX C

DRUM HANDLING AND OPENING PROCEDURES

1. **Identify Chemical and Physical Hazards Present when Handling Drums.**

   a. Weight - A 55-gallon steel drum filled completely with water weighs approximately 450 lbs.

   b. Equipment - Several hazards exist when using drum handling equipment. These hazards may include:

      - Falling drums
      - Personnel being struck by equipment
      - Personnel getting their hands caught between the drum and the handling equipment resulting in a pinch point injury, and
      - Drum damage (dents, punctures, lids being stripped off resulting in a spill).

2. **Procedures Required Before Drum Movement Begins.**

   a. Damaged drums that cannot be handled safely will be overpacked. The decision to overpack the drums currently onsite will be based upon the appearance of the drum. Each drum will be inspected critically for any signs of failure. Such indications as rust, pitting, paint blisters, material weeping from seams or any other irregularities will be an adequate indicator to overpack the drum. The personnel inspecting the drums will be instructed to error on the side of caution and overpack any drum which they are unsure.

   b. It is important to select a transport route that impacts the least amount of people possible.

   c. Review the need to identify spill control equipment along the transport route or the need to have a spill control station with the material as it is being transported. An appropriate spill control station may be as little as an overpack drum with absorbent material inside.

3. **Drum Handling**

   a. Drum movement crews will generally use one of the following types of drum management tools available for moving drums:

      - The use of the forks on a lift truck, provided the pallet, holding the drums is in good shape. Slings will be available to rope the drums together on the pallet when determined appropriate.
      - Drums which appear to have sufficient side wall integrity will be lifted with a "clam" drum grabber which is designed to hold the drum without excess side wall pressure. This equipment will be the preferred drum handling device.
      - Drum holders designed to grasp the top ring with a single point or two point suspension system will be available. Their use for movement of drums from storage will be minimized due to the potential crushing action of the handling equipment.

- A man lift cage for the forklifts will be available, if necessary. It's use will be minimized to avoid hazards to personnel.

b. Drum slings and barrel grabbers will not to be used to move drums over long distances.

c. Inspection of material handling equipment is essential. Damaged equipment will not be used.

d. Personnel handling drums will stay at least an arms length away from drums in order to avoid physical injury.

e. Drums will be carefully placed to minimize damage during transport

- Drums will be placed so ring bolts, valves, etc., are faced away from other drums to prevent punctures or damage.

- Palletized drums may be bound together to prevent movement which could cause damage.

4. Drum Opening Procedures

a. Approach the drum under level "B" conditions.

b. Observe the condition of the drum.

c. Look specifically for any indication of pressure.

- Does the lid bulge?

- Does the sidewall appear to be under strain?

d. If either condition is apparent - **DO NOT** open the drum until a carbon scrubber is available. Follow the pressurized drum opening procedure at that time (Step #8).

e. All opening operations are to be made **slowly**, signs of pressure release should be observed closely. Halt any operation which is releasing pressure until all signs of release stop.

f. If the drum is not under pressure and has bung type opening:

- **Slowly** open the bung away from your body and monitor the vented gas within 6 inches of the bung opening with a PID or FID. If the meter exceeds 500 ppm, close the bung and obtain a carbon scrubber unit to control the gas release.

- With a carbon scrubber pulling from the bung area, **slowly** open the bung and sample the drum. Monitor the bung area and the carbon scrubber with the meter. Hold the bung area below 500 ppm. If the scrubber exhaust exceeds 400 ppm, replace the carbon canister.

- If the meter reads less than 500 ppm, **slowly** open the bung and sample the drum with a glass rod.

- After the sample is obtained, reseal the bung and mark the drum and sample with a unique code and complete the sampling form.

g. If the drum is not under pressure and has an open top design:

- **Slowly** loosen the closure bolt. Monitor the area within 6 inches around the ring with a PID or FID meter. If the meter exceeds 500 ppm, reseal the drum and obtain a carbon scrubber.

- With a carbon scrubber pulling from the drum ring area, **slowly** release the bolt and remove the drum lid. Monitor the drum and carbon scrubber exhaust throughout the opening operation. If the drum reading exceeds 500 ppm, allow the drum to vent to the carbon and wait for the meter reading to decrease before completing the opening operation. If the scrubber exhaust exceeds 400 ppm, replace the carbon canister before proceeding.

- Complete the sampling operation as noted for a drum with bungs.

- If the meter reading remains below 500 ppm, **slowly** release the closure bolt and open the drum. Complete the sampling procedure as before.

h. Drums under pressure will be handled on a case by case basis. If the drum is equipped with a bung in good condition, it may be slightly opened and allowed the vent to a carbon scrubber. Open top drums will require a remote opening device. No pressurized drum will be processed until a full review of the condition of the drum is made.

APPENDIX D

CONFINED SPACE POLICY AND PROCEDURES

CONFINED SPACE ENTRY POLICY AND PROCEDURES

1.0 PURPOSE

To establish a program for the safe entry of confined spaces in accordance with applicable federal, state, and local requirements. This policy and procedure is taken from the federal confined space standard. For more information, please refer to the federal permit-required confined spaces standard 29 CFR 1910.146, which is included as Attachment A of this policy.

2.0 GENERAL

A. **Application**. This policy applies to all HLA operations to protect our employees from the hazards of entry into permit-required confined spaces.

B. **Definitions**:

Attendant means an individual stationed outside one or more permit spaces who monitors the personnel authorized entry into the space and who performs all attendant's duties assigned in the employer's permit space program.

Authorized entrant means an employee who is authorized by the Site Supervisor to enter a permit space.

Confined space

1. Is large enough and so configured that an employee can bodily enter and perform assigned work; and

2. Has limited or restricted means for entry to exit (for example, tanks, vessels, silos, storage bins, hoppers, vaults, and pits are spaces that may have limited means of entry); and

3. Is not designed for continuous employee occupancy.

Emergency means any occurrence (including any failure of hazard control or monitoring equipment) or event internal or external to the permit space that could endanger entrants.

Entry means the action by which a person passes through an opening into a permit-required confined space. Entry includes ensuing work activities in that space and is considered to have occurred as soon as any part of the entrant's body breaks the plane of an opening into the space.

Entry permit (permit) means the written or printed document that is provided by the Site Supervisor to allow and control entry into a permit space.

Entry supervisor means the person (such as the Site Supervisor, foreman, or crew chief) responsible for determining if acceptable entry conditions are present at a permit space where entry is planned, for authorizing entry and overseeing entry operations, and for terminating entry as required by this section.

Hazardous atmosphere means an atmosphere that may expose employees to the risk of death, incapacitation, impairment of ability to self-rescue (that is, escape unaided from a permit space), injury, or acute illness from one or more of the following causes:

1. Flammable gas, vapor, or mist in excess of 10 percent of its lower flammable limit (LFL) or lower explosive limit (LEL);

2. Airborne combustible dust at a concentration that meets or exceeds its LFL or LEL;

   Note: This concentration may be approximated as a condition in which the dust obscures vision at a distance of 5 feet (1.52 m) or less.

3. Atmospheric oxygen concentration below 19.5 percent or above 23.5 percent;

4. Atmospheric concentration of any substance for which a dose or a permissible exposure limit is published in Subpart G, *Occupational Health and Environmental Control*, or in Subpart Z, *Toxic and Hazardous Substances*, of 29 CFR 1910 and which could result in employee exposure in excess of its dose or permissible exposure limit;

   Note: An atmospheric concentration of any substance that is not capable of causing death, incapacitation, impairment of ability to self-rescue, injury, or acute illness due to its health effects is not covered by this provision of the standard.

5. Any other atmospheric condition that is immediately dangerous to life or health.

   Note: For air contaminants for which OSHA has not determined a dose or permissible exposure limit, other sources of information, such as Material Safety Data Sheets that comply with the Hazard Communication Standard, §1910.1200 of 29 CFR, published information, and internal documents can provide guidance in establishing acceptable atmospheric conditions.

Immediately dangerous to life or health (IDLH) means any condition that poses an immediate or delayed threat to life or that would cause irreversible adverse health effects or that would interfere with an individual's ability to escape unaided from a permit space.

Isolation means the process by which a permit space is removed from service and completely protected against the release of energy and material into the space by such means as: blanking or blinding; misaligning or removing sections of lines, pipes, or ducts; a double block and bleed system; lockout or tagout of all sources of energy; or blocking or disconnecting all mechanical linkages.

Non-permit confined space means a confined space that does not contain or, with respect to atmospheric hazards, have the potential to contain any hazard capable of causing death or serious physical harm.

Oxygen deficient atmosphere means an atmosphere containing less than 19.5 percent oxygen by volume.

Oxygen enriched atmosphere means an atmosphere containing more than 23.5 percent oxygen by volume.

Permit-required confined space (permit space) means a confined space that has one or more of the following characteristics:

1. Contains or has a potential to contain a hazardous atmosphere;

2. Contains a material that has the potential for engulfing an entrant;

3. Has an internal configuration such that an entrant could be trapped or asphyxiated by inwardly converging walls or by a floor which slopes downward and tapers to a smaller cross section; or

4. Contains any other recognized serious safety or health hazard.

Permit-required confined space program (permit space program) means the Site Supervisor's overall program for controlling, and, where appropriate, for protecting employees from, permit space hazards and for regulating employee entry into permit spaces.

Permit system means the Site Supervisor's written procedure for preparing and issuing permits for entry and for returning the permit space to service following termination of entry.

Retrieval system means the equipment (including a retrieval line, chest or full-body harness, wristlets, if appropriate, and a lifting device or anchor) used for non-entry rescue of persons from permit spaces.

Testing means the process by which the hazards that may confront entrants of a permit space are identified and evaluated. Testing includes specifying the tests that are to be performed in the permit space.

Note 1. All employees, including standby persons required to enter confined spaces as identified in the project's Job Safety Plan (JSP) shall be trained in the operating and rescue procedures for safe entry of confined spaces.

Note 2. In addition to the requirements defined in this HLA procedure, HLA employees shall comply with all client rules, other more stringent government (i.e., OSHA) regulations, and permit requirements for confined space entry.

Note 3. Where client rules or more stringent regulations that govern confined space entry do not exist, HLA employees shall comply with the requirements of this procedure as a minimum.

C. **General requirements**

1. The HLA Site Supervisor shall evaluate the workplace to determine if any spaces are permit-required confined spaces.

2. If the workplace contains permit spaces, HLA shall inform exposed employees, by posting danger signs or by any other equally effective means, of the existence and location of and the danger posed by the permit spaces.

   Note: A sign reading "DANGER–PERMIT-REQUIRED CONFINED SPACE, DO NOT ENTER" or using other similar language would satisfy the requirement for a sign.

3. If the Site Supervisor decides that site employees will not enter permit spaces, the Site Supervisor shall take effective measures to prevent its employees from entering the permit spaces.

4. If the Site Supervisor decides that its employees will enter permit spaces, the employees will enter only after completing a written permit space entry. The written program shall be available for inspection by employees and their authorized representatives.

5. Entry procedures:

   a. Before an employee enters the space, the internal atmosphere shall be tested, with a calibrated direct-reading instrument, for the following conditions in the order given:

      1) Oxygen content,

      2) Flammable gases and vapors, and

      3) Potential toxic air contaminants.

   b. There may be no hazardous atmosphere within the space whenever any employee is inside the space.

   c. Continuous forced air ventilation shall be used as follows:

      1) An employee may not enter the space until the forced air ventilation has eliminated any hazardous atmosphere;

      2) The forced air ventilation shall be so directed as to ventilate the immediate areas where an employee is or will be present within the space and shall continue until all employees have left the space;

      3) The air supply for the forced air ventilation shall be from a clean source and may not increase the hazards in the space.

   d. The atmosphere within the space shall be periodically tested as necessary to ensure that the continuous forced air ventilation is preventing the accumulation of a hazardous atmosphere.

   e. If a hazardous atmosphere is detected during entry:

      1) Each employee shall leave the space immediately;

2) The space shall be evaluated to determine how the hazardous atmosphere developed; and

3) Measures shall be implemented to protect employees form the hazardous atmosphere before any subsequent entry takes place.

f. The Site Supervisor shall verify that the space is safe for entry, through a written certification that contains the date, the location of the space, and the signature of the person providing the certification. The certification shall be made available to each employee entering the space.

6. When there are changes in the use or configuration of a non-permit confined space that might increase the hazards to entrants, the Site Supervisor shall reevaluate the space and, if necessary, reclassify it as a permit-required confined space.

7. A space classified by the Site Supervisor as a permit-required confined space may be reclassified as a non-permit confined space under the following procedures:

a. If the permit space poses no actual or potential atmospheric hazards and if all hazards within the space are eliminated without entry into the space, the permit space may be reclassified as a non-permit confined space for as long as the non-atmospheric hazards remain eliminated.

b. If it is necessary to enter the permit space to eliminate hazards, entry shall be made using the procedures set forth in paragraphs d-k of this policy. If testing and inspection during the entry demonstrate that the hazardous within the permit space have been eliminated, the permit space may be reclassified as a non-permit confined space.

Note: Control of atmospheric hazards through forced air ventilation does not constitute elimination of the hazards.

c. The Site Supervisor shall document the basis for determining that all hazards in a permit space have been eliminated, through a certification that contains the date, the location of the space, and the signature of the person making the determination. The certification shall be made available to each employee entering the space. Should HLA arrange to have employees of another employer (contractor) perform work involving permit entry, HLA will communicate known hazards and check that the subcontractor has a written permit required confined spaces program.

8. In addition to complying with the permit space requirements, the HLA Site Supervisor shall:

a. Obtain any available information regarding permit space hazards and entry operations from the host client;

b. Coordinate entry operations with the host client; and

c. Inform the host client of the permit space program that the contractor will follow and of any hazards confronted or created in permit spaces, either through a debriefing or during the entry operation.

D. **Permit-required confined space program.** The HLA Site Supervisor will

1. Implement the measures necessary to prevent unauthorized entry;

2. Identify and evaluate the hazards of permit spaces before employees enter them;

3. Develop and implement the means, procedures, and practices necessary for safe permit space entry operations;

4. Provide

   a. Testing and monitoring equipment

   b. Ventilating equipment needed to obtain acceptable entry conditions;

   c. Communications equipment

   d. Personal protective equipment insofar as feasible engineering and work practice controls do not adequately protect employees;

   e. Lighting equipment as needed

   f. Barriers and shields

   g. Equipment, such as ladders, needed for safe ingress and egress by authorized entrants;

   h. Rescue and emergency equipment as needed.

   i. Any other equipment necessary for safe entry into and rescue from permit spaces.

5. Evaluate permit space conditions as follows when entry operations are conducted:

   a. Test conditions in the permit space to determine if acceptable entry conditions exist before entry is authorized to begin using the Entry Permit (see attachment);

   b. Test or monitor the permit space as necessary to determine if acceptable entry conditions are being maintained during the course of entry operations; and

   c. When testing for atmospheric hazards, test first for oxygen, then for combustible gases and vapors, and then for toxic gases and vapors.

6. Provide at least one attendant outside the permit space into which entry is authorized for the duration of entry operations.

7. Develop procedures for summoning rescue and emergency services, for rescuing entrants from permit spaces, and providing necessary emergency services to rescued employees, and for preventing unauthorized personnel from attempting a rescue.

8. Review entry operations when the Site Supervisor has reason to believe that the measures taken under the permit space program may not protect employees and revise the program to correct deficiencies found to exist before subsequent entries are authorized.

9. Review the permit-required confined space program, using the canceled permits, **within 1 year** after each entry and revise the program as necessary, to ensure that employees participating in entry operations are protected from permit space hazards.

E. **Permit system**

1. Before entry is authorized, the Site Supervisor shall document the completion of measures required by completing the entry permit (see Attachment B).

F. **Entry permit**. The entry permit that documents compliance with this section and authorizes entry to a permit space shall identify:

1. The permit space to be entered;

2. The purpose of the entry;

3. The date and the authorized duration of the entry permit;

4. The authorized entrants within the permit space, by name;

5. The personnel, by name, currently serving as attendants;

6. The individual, by name, currently serving as entry supervisor, with a space for the signature or initials of the entry supervisor who originally authorized entry;

7. The hazards of the permit space to be entered;

8. The measures used to isolate the permit space;

9. The results of initial and periodic tests performed by an indication of when the tests were performed;

10. The communication procedures used by authorized entrants;

11. Equipment, such as personal protective equipment and testing equipment.

G. **Training.**

1. The employer shall provide training so that all employees engaged in confined space work acquire the understanding, knowledge, and skills necessary for the safe performance of their duties.

2. The employer shall certify that the training has been accomplished. The certification shall contain each employee's name, the signatures or initials of the trainers, and the dates of training. The certification shall be available for inspection by employees and their authorized representatives.

H. **Duties of authorized entrants.** The authorized entrants shall:

1. Know the hazards that may be faced during entry, including information on the mode, signs or symptoms, and consequences of the exposure;

2. Properly use equipment;

3. Communicate with the attendant as necessary;

4. Alert the attendant when

   a. The entrant recognizes any warning sign or symptom of exposure to a dangerous situation, or

   b. The entrant detects a prohibited condition; and

   c. Exit from the permit space as quickly as possible whenever:

      1) An order to evacuate is given

      2) The entrant recognizes any warning sign or symptom of exposure to a dangerous situation;

      3) The entrant detects a prohibited condition; or

      4) An alarm is activated.

I. **Duties of attendants.** The Site Supervisor ensures that each attendant:

1. Knows the hazards that may be faced during entry;

2. Is aware of possible behavioral effects of hazard exposure in authorized entrants;

3. Continuously maintains an accurate count of authorized entrants in the permit space;

4. Remains outside the permit space during entry operations until relieved by another attendant;

5. Communicates with authorized entrants as necessary to monitor entrant status and to alert entrants of the need to evacuate the space;

6. Monitors activities inside and outside the space to determine if it is safe for entrants to remain in the space and orders the authorized entrants to evacuate the permit space immediately under any of the following conditions;

   a. If the entrant detects a prohibited condition;

   b. If the attendant detects the behavioral effects of hazard exposure in an authorized entrant;

   c. If the attendant detects a situation outside the space that could endanger the authorized entrants; or

   d. If the attendant cannot effectively and safely perform all the duties required.

7. Summon rescue and other emergency services;

8. Takes the following actions when unauthorized persons approach or enter a permit space while entry is underway:

   a. Warn the unauthorized persons that they must exit immediately if they have entered the permit space; and

   b. Inform the authorized entrants and the entry supervisor if unauthorized persons have entered the permit space.

9. Performs non-entry rescues as specified by the Site Supervisor's rescue procedure; and

10. Performs no duties that might interfere with the attendant's primary duty to monitor and protect the authorized entrants.

J. **Duties of entry supervisors.** The Site Supervisor shall ensure that each entry supervisor shall:

1. Know the hazards that may be faced during entry, including information on the mode, signs or symptoms, and consequences of the exposure;

2. Verify, by checking that the appropriate entries have been made on the permit;

3. Verify that rescue services are available and that the means for summoning them are operable;

4. Remove unauthorized individuals who enter or who attempt to enter the permit space;

5. Determine that entry operations remain consistent with terms of the entry permit and that acceptable entry conditions are maintained.

K. **Rescue and emergency services.**

1. The following requirements apply to Site Supervisors who have employees enter permit spaces to perform rescue services.

   a. The Site Supervisor shall ensure that each member of the rescue service is provided with, and is trained to use properly, the personal protective equipment and rescue equipment necessary for making rescues from permit spaces.

   b. Each member of the rescue service shall be trained to perform the assigned rescue duties. Each member of the rescue service shall also receive the training required of authorized entrants.

   c. Each member of the rescue service shall practice making permit space rescues at least once every 12 months, by means of simulated rescue operations in which they remove dummies, manikins, or actual persons from the actual permit spaces or from representative permit spaces. Representative permit spaces shall, with respect to opening size, configuration, and accessibility, simulate the types of permit spaces from which rescue is to be performed.

   d. Each member of the rescue service shall be trained in basis first-aid and in cardiopulmonary resuscitation (CPR). At least one member of the rescue service holding current certification in first aid and CPR shall be available.

2. When a Site Supervisor arranges to have persons other than the Site Supervisor's employees perform permit space rescue, the Site Supervisor shall:

   a. Inform the rescue service of the hazards they man confront when called on to perform rescue at the Site Supervisor's facility, and

   b. Provide the rescue service with access to all permit spaces from which rescue may be necessary so that the rescue service can develop appropriate rescue plans and practice rescue operations.

3. To facilitate non-entry rescue, retrieval systems or methods shall be used whenever an authorized entrant enters a permit space, unless the retrieval equipment would increase the overall risk of entry or would not contribute to the rescue of the entrant. Retrieval systems shall meet the following requirements.

   a. Each authorized entrant shall use a chest or full body harness, with a retrieval line attached at the center of the entrant's back near shoulder level, or above the entrant's head. Wristlets may be used in lieu of the chest or full body harness if the Site Supervisor can demonstrate that the use of a chest or full body harness is infeasible or creates a greater hazard and that the use of wristlets is the safest and most effective alternative.

b. The other end of the retrieval line shall be attached to a mechanical device or fixed point outside the permit space in such a manner that rescue can begin as soon as the rescuer becomes aware that rescue is necessary. A mechanical device shall be available to retrieve personnel from vertical type permit spaces more than 5 feet deep.

4. If an injured entrant is exposed to a substance for which a Material Safety Data Sheet (MSDS) or other similar written information is required to be kept at the work site, that MSDS or written information shall be made available to the medical facility treating the exposed entrant.

6.1 Confined Space Policy

Attachment A

(Confined Space Entry Permit)

All copies of permit will remain at job site until job is completed

CONFINED SPACE ENTRY PERMIT

Date _____ Job Number _____

Location _____

Description _____

Purpose of Entry _____

Effective date(s) and time(s) _____ Expiration date(s) and time(s) _____

	Signatures	Date
Site supervisor		
Entry supervisor		
Site Safety and Health Officer		
Entrant name(s)		
Certification of training current		
Stand-by name(s) (Must have current first aid and CPR)		

NOTE: Signatures indicate understanding of hazards as well as an understanding and acceptance of entry procedures. The Entry Supervisor signature also authorizes the entry.

All copies of permit will remain at job site until job is completed

CONFINED SPACE ENTRY PERMIT (continued)

HAZARDOUS WORK	Yes	No
Burning (Hot work permit required)		
Welding (Hot work permit required)		
Brazing (Hot work permit required)		
Open Flame (Hot work permit required)		
Steam Cleaning		
Other		

SPECIAL REQUIREMENTS	Yes	No
Lockout - De-energize/Tag-out		
Lines Broken - Capped or Blanked		
Purge - Flush and vent		
Ventilation		
Secure Area/Barricading		
Resuscitator - Inhalator		
Buddy System		
Shields/Barriers		
Emergency Egress Procedures in SSHP		
Tripod Emergency Escape Unit		
Lifelines and Escape Harness		
Fire Extinguishers		
Lighting		
Communications (e.g., hand signals and emergency)		
Protective Clothing as specified in SSHP		
Respirator as specified in SSHP		
Supplied Air as specified in SSHP		
Evacuation Alarm		
Other		

HAZARDS EXPECTED LISTED IN SSHP	Yes	No
Corrosive Materials		
Hot Equipment		
Flammable Materials		
Toxic Materials		
Drains Open		
Cleaning (e.g., chemical or water lance)		
Spark Producing Operations		
Spilled Liquids		
Pressure Systems		
Other		

TEST(S) TO BE TAKEN	Action Level	Yes	No
% Oxygen	<19.5% or >23.5%		
% LEL	Any % over 10		
Hydrocarbon/Volatile	5 ppm		
Carbon Monoxide	50 ppm		
Hydrocyanic Acid	10 ppm		
Hydrogen Sulfide	10 ppm		
Sulfur Dioxide	5 ppm		
Ammonia	25 ppm		
Dust	Meet/Exceed LEL		
Other			

NOTE: All confined spaces shall be tested for oxygen, % LEL, and toxic contaminants before entry. Continuous/periodic tests shall be conducted while person is inside the confined space.

CONFINED SPACE ENTRY PERMIT (continued)

Original is kept in DSHO's office. All field copies are to be returned to DSHO at job completion

Air Monitoring Log
Annotate pre-entry and post-entry air test results

Date	Time	Instrument (include model number)	Reading Location	Reading	Tester

Monitoring Diagram

Emergency Numbers

Ambulance_____

Fire_____

Hospital_____

Signatures (Acknowledgement of intent to enter confined space) Date

_____

Project Manager

_____

Site Supervisor

_____

Site Safety and Health Officer

_____

DSHO

APPENDIX E

SAFETY CHECKLIST

DRIVER'S INSPECTION REPORT

(SEE INSTRUCTIONS ON REVERSE SIDE)

MAINTENANCE CHECK DEFECTS ONLY. Explain under REMARKS C 338501

COMPLETION OF THIS REPORT REQUIRED BY FEDERAL LAW, 49CFR 396.11 & 396.13.

Truck or Tractor No. _____ Mileage (No Tenths) | | | | | | Trailer No. _____

Dolly No. _____ Trailer No. _____ Location: _____

ATA/VMRS System Code Numbers for Shop Use Only

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POWER UNIT

GENERAL CONDITION

- ☐ 02 Cab/Doors/Windows
- ☐ 02 Body/Doors
- ☐ ___ Oil Leak _____
- ☐ ___ Grease Leak _____
- ☐ 42 Coolant Leak
- ☐ 44 Fuel Leak
- ☐ ___ Other _____

_____ (IDENTIFY)

ENGINE COMPARTMENT

- ☐ 45 Oil Level
- ☐ 42 Coolant Level
- ☐ ___ Belts _____
- ☐ ___ Other _____

_____ (IDENTIFY)

IN-CAB

- ☐ 03 Gauges/Warning Indicators
- ☐ 02 Windshield Wipers/Washers
- ☐ 54 Horn(s)
- ☐ 01 Heater/Defroster
- ☐ 02 Mirrors
- ☐ 15 Steering
- ☐ 23 Clutch
- ☐ 13 Service Brakes
- ☐ 13 Parking Brake
- ☐ 13 Emergency Brakes
- ☐ 53 Triangles
- ☐ 53 Fire Extinguisher
- ☐ 53 Other Safety Equipment
- ☐ 34 Spare Fuses
- ☐ 02 Seat Belts
- ☐ ___ Other _____

_____ (IDENTIFY)

EXTERIOR

- ☐ 34 Lights
- ☐ 34 Reflectors
- ☐ 16 Suspension
- ☐ 17 Tires
- ☐ 18 Wheels/Rims/Lugs
- ☐ 32 Battery
- ☐ 43 Exhaust
- ☐ 13 Brakes
- ☐ 13 Air Lines
- ☐ 34 Light Line
- ☐ 49 Fifth-Wheel
- ☐ 49 Other Coupling
- ☐ 71 Tie-Downs
- ☐ 14 Rear-End Protection
- ☐ ___ Other _____

_____ (IDENTIFY)

☐ NO DEFECTS

TOWED UNIT(S)

- ☐ 71 Body/Doors
- ☐ 71 Tie-Downs
- ☐ 34 Lights
- ☐ 34 Reflectors
- ☐ 16 Suspension
- ☐ 17 Tires
- ☐ 18 Wheels/Rims/Lugs
- ☐ 13 Brakes
- ☐ 77 Landing Gear
- ☐ 59 Kingpin/Upper Plate
- ☐ 59 Fifth-Wheel (Dolly)
- ☐ 59 Other Coupling Devices
- ☐ 79 Rear-End Protection
- ☐ ___ Other _____

_____ (IDENTIFY)

☐ NO DEFECTS

REMARKS: _____

REPORTING DRIVER: Date _____

Name _____ Emp. No. _____

REVIEWING DRIVER: Date _____

Name _____ Emp. No. _____

MAINTENANCE ACTION: Date _____

Repairs Made ☐ No Repairs Needed ☐

R.O.#'s _____

Certified By: _____

Location: _____

SHOP REMARKS: _____

Reorder From: American Trucking Associations, 2200 Mill Road, Alexandria, VA 22314 1 800 ATA LINE

ATA FORM C0830 (REV. 1-90)

APPENDIX F

INSTRUMENT CALIBRATION PROCEDURES

APPENDIX F
INSTRUMENT CALIBRATION PROCEDURES

This appendix presents Harding Lawson Associates' (HLA's) standard operating procedures for field calibration and maintenance of direct reading instruments, personal sampling pumps, and detector tubes that may be used during field activities. Each equipment item is described and the calibration, operation, and maintenance procedures are detailed to the extent necessary to ensure proper care and use. Detailed procedures are provided in instrument-specific manuals from each manufacturer.

These standard operating procedures are intended to ensure that equipment is properly maintained and operated. These procedures were developed on the basis of the following assumptions:

- Procedures are consistent with the manufacturer's calibration, operation, and maintenance guidelines.
- Equipment calibration, operation, and maintenance procedures will be performed by properly trained HLA personnel.
- Only designated personnel will calibrate, operate, and maintain certain instruments.
- Records will be maintained to allow tracking of the calibration, operation, and maintenance of a given instrument.

PHOTOIONIZATION DETECTOR (HNU PI 101/HNU DL101/PHOTOVAC MICROTIP)

Theory of Operation

The portable photoionization detector (PID) detects the concentration of organic gases as well as a few inorganic gases. The basis for detection is the ionization of gaseous species. Every molecule has a characteristic ionization potential (IP) that is the energy required to remove an electron from the molecule, yielding a positively charged ion and the free electron. The incoming gas molecules are subjected to ultraviolet (UV) radiation, which is energetic enough to ionize many gaseous compounds. Each molecule is transformed into charged ion pairs, creating a current between two electrodes.

Three lamps, each containing a different UV light source, are available for use with most PIDs. Ionizing energies of the lamp are 9.5, 10.2, and 11.7 electron volts (eV). All three detect many aromatic and large molecule hydrocarbons. The 10.2 eV and 11.7 eV probes, in addition, detect some smaller organic molecules and some halogenated hydrocarbons. The 10.2 eV lamp is the most useful for environmental response work because it is more durable than the 11.7 eV lamp and detects more compounds than the 9.5 eV lamp. The following sections detail the proper calibration and field maintenance methods to be used with these PIDs.

HNU PI 101

The HNU PI 101 PID is designed for trace gas analysis in ambient air. The HNU PI 101 is factory-calibrated with certified standards of benzene, vinyl chloride, and isobutylene, with the reference standard being benzene. Because of the inherent toxicological risks associated with benzene and vinyl chloride, the primary calibration standard to be used should be isobutylene. When calibrating the unit with 100 parts per million (ppm) isobutylene, the SPAN control should be set at 9.8 and the unit should read approximately 70 ppm. This method of calibration converts the response of the unit to isobutylene to yield a direct reading of benzene that is based on the response factor of the unit using a 10.2 eV probe at a span setting of approximately 9.8. More simply stated, the required reading for calibration will be as follows:

$$= \text{Isobutylene ppm} \times \frac{\text{photoionization sensitivity (isobutylene)}}{\text{photoionization sensitivity (benzene)}}$$

$$= 100 \times 7/10$$

$$= 70 \text{ ppm}$$

When using probes with 9.5 eV or 11.7 eV lamps, consult the user's manual for photoionization sensitivities and required SPAN control settings because these units may change for each individual lamp.

In cases where hazardous chemicals have been identified, the HNU PI 101 can also be calibrated to provide direct reading results of these chemicals. Please consult the user's manual and the Designated Safety and Health Officer (DSHO) to select chemicals for concern of appropriate calibration. The steps calibration method for the HNU PI 101 with a 10.2 eV lamp follows:

1. Identify the probe by the lamp label. If a question exists, disassemble the probe and inspect the lamp. The energy of the lamp should be etched into the glass envelope.
2. Connect the probe to the readout assembly, making sure the red interlock switch is depressed by the ring on the connector
3. Set the SPAN control potential to 9.8.
4. Battery check - turn the function switch to BATT. The needle should be in the green region. If it is not, recharge the battery.
5. Zero set - turn the function switch to STANDBY. In this position, the lamp is off and no signal is being generated. Allow the unit to sit for a minute to warm the parts. Set the ZERO point with the ZERO set control.
6. Fill a dedicated tedlar bag with the 100 ppm isobutylene in air SPAN gas.
7. Turn the function switch to the 0 to 200 range position. Attach the sampling bag to the probe inlet. Adjust the SPAN control setting to read approximately 70 ppm at a span setting of 9.8.

8. Record the units achieved at the set SPAN control and the calibration phase used.

9. Lamp cleaning - if calibration cannot be achieved at the desired span potential, the lamp must be cleaned. (See specific instrument manual for instructions)

HNU DL-101-2

The HNU DL-101-2 applies microprocessor capabilities to the basic photoionization detection principles exhibited by the HNU PI 101. The microprocessor provides electronic zeroing, site and time data logging, and the ability to store up to 12 calibrations. The unit provides two basic modes of operation, the first being the survey mode and the second being the hazardous waste mode. Like the PI 101, the DL-101-2 is also factory-calibrated using benzene as the reference standard. The primary method of calibration will also use 100 ppm isobutylene in air (the calibration gas standard) with the unit in the survey mode. If several compounds are suspected, the hazardous waste mode may be utilized to store the needed amount of calibration curves. In either case, it is essential to identify the lamp voltage being used and the photoionization sensitivities of the chemical species of interest.

To calibrate in the survey mode, follow these instructions:

1. Identify the lamp energy. If this information is not available on the outside of the probe, disassemble the probe and inspect the lamp. The energy of the lamp should be etched into the glass envelope.

2. Press the power button to start the unit. Wait one minute to allow the unit to warm up.

3. Fill a dedicated tedlar bag completely with isobutylene calibration standard.

4. Press the CALIBRATE key on the front panel. "Calibrate" should appear on the liquid crystal display (LCD).

5. Press ENTER. "Zeroing Unit" will appear on the LCD. The unit will display the unit concentration before the electronic zero. The display will then prompt: CE/ENT/EXIT Conc = ___ppm. Enter the concentration of the calibration gas and press enter. "Attach gas to probe and /ENTER/" should appear on the LCD.

6. Attach the tedlar bag to the probe and press ENTER. Allow the sample to be naturally drawn into the unit. Press ENTER when ready. "xxxx ppm" should appear on the LCD. When the readings reach 100 ppm ($\pm$ 10 percent), press ENTER. The LCD should then display "Calibrating...please wait."

In the survey mode, the unit will save the calibration and then the LCD reverts to the operation screen. When additional calibrations are called for, utilize the hazardous waste mode and cross reference calibration responses with the DL-101-2 user's manual.

Photovac MicroTIP

The MicroTIP must be calibrated to display concentrations in units equivalent to ppm. First, a supply of zero gas (total hydrocarbon concentration <1 ppm) is used to set the zero point. Then Span Gas (100 ppm isobutylene in air) is used to set the sensitivity.

Following these steps for MicroTIP calibration:

1. Turn the MicroTIP on and allow five minutes for warm up.
2. Fill the dedicated zero gas tedlar bag with zero gas calibration standard.
3. Fill the dedicated span gas tedlar bag with 100 ppm isobutylene in air calibration standard.
4. Press SETUP and select the desired Cal Memory (i.e., 100 ppm) with the arrow keys and press ENTER. Press EXIT to leave setup.
5. Press CAL and attach the filled zero gas bag to the MicroTIP probe. Press ENTER and the MicroTIP sets its zero point.
6. MicroTIP then asks for the span gas concentration. Enter 100.0 and then connect the span gas bag to the MicroTIP probe.
7. Press ENTER and MicroTIP sets its sensitivity.
8. When the display reverts to normal, the unit is calibrated and ready for use. Remove the span gas bag from the inlet.
9. Record applicable calibration information.

ORGANIC VAPOR ANALYZER FOXBORO MODEL 128 (OVA/FID)

Theory of Operation

The Foxboro Model 128 organic vapor analyzer (OVA) is designed to detect and measure hazardous vapors and gases. The instrument utilizes the principle of hydrogen flame ionization for detection and measurement of organic vapors. The instrument measures organic vapor concentration by producing a response to an unknown sample, which can be related to a gas of known composition to which the instrument has been previously calibrated. During normal survey mode operation, a continuous sample is drawn into the probe and transported to the detector chamber by an internal pumping system.

The sample stream is metered and passed through particulate filters before reaching the detector chamber. Inside the detector chamber, the sample is exposed to a hydrogen flame that ionizes the organic vapors. When most organic vapors burn, they leave positively charged carbon-containing ions. An electric field drives the ions to a collecting electrode. As the positive ions are collected, a current

corresponding to the collection rate is generated. This current is measured with a linear electrometer preamplifier that has an output signal proportional to the ionization current. A signal conditioning amplifier is used to amplify the signal from the preamp and to condition for display on the probe/readout assembly.

The OVA will primarily be used in the survey mode. In the survey mode, the OVA is internally calibrated to methane by the manufacturer. When the instrument is adjusted to manufacturer's instructions, it indicates the true concentration of methane in air. In response to all other detectable compounds, however, the instrument reading may be higher or lower than the true concentration.

The following procedures detail the operation, calibration, hydrogen refilling, and recharging methods to be used with the OVA:

1. Startup Procedures

   a. Connect the probe/readout assembly to the sidepack assembly by attaching the sample line and electronic jack to the sidepack.

   b. Select the desired sample probe (close area sample or telescoping probe) and connect the probe handle. Before tightening the knurled nut, check that the probe accessory is firmly seated against the flat seals in the probe handle and in the tip of the telescoping probe.

   c. Move the INST/BATT switch to the test position. The meter needle should move to a point beyond the white line, indicating that the integral battery has more than four hours of operating life before recharging is necessary.

   d. Move the INST/BATT switch to the "ON" position and allow a five-minute warm up.

   e. Turn the PUMP switch on.

   f. Use the Calibrate Adjust knob to set the meter needle to the level desired for activating the audible alarm. If this alarm level is other than zero, the CALIBRATE switch must be set to a appropriate range.

   g. Turn the Volume knob fully clockwise (optional).

   h. Using the Alarm Level Adjust knob, turn the knob until the audible alarm is activated (optional).

   i. Move the Calibrate Switch to x1 and adjust the meter reading to zero using the Calibrate Adjust (zero knob).

   j. Open the hydrogen Tank Valve one or two turns and observe the reading on the Hydrogen Tank Pressure Indicator. (Approximately 150 pounds per square inch [psi] of pressure is required for each hour of operation.)

   k. Open the Hydrogen Supply Valve one or two turns and observe the reading on the Hydrogen Supply Pressure Indicator. The reading should be between 8 and 12 psi.

l. After approximately one minute, depress the IGNITER BUTTON until the hydrogen flame lights. The meter needle will travel upscale and begin to read "Total Organic Vapors." Caution: Do not depress igniter for more than six seconds. If flame does not ignite, wait one minute and try again.

m. The instrument is ready for use. NOTE: If the ambient background organic vapors are "zeroed out" using the Calibrate Adjust knob, the meter needle may move off-scale in the negative direction when the OVA is moved in a location with lower background. If the OVA is to be used in the 0 to 10 ppm range, it should "zeroed" in an area with very low background. A charcoal filter (Part No. 510095-1) can be used to generate the clean background sample.

2. Calibration Using Known Samples for Each Range

The accuracy is obtained when the instrument is calibrated with known concentrations for each range. Prepare separate samples of methane-in-air in these concentration ranges: 7 to 10 ppm, 90 to 100 ppm, and 900 to 1000 ppm. Calibrate the instrument as follows:

a. Place the instrument in normal operation and allow a minimum of 15 minutes for warm-up and stabilization.

b. Set the Gas Select control to 300.

c. Set the Calibrate switch to x1.

d. Set the Calibrate Adjust (Zero) knob so that the meter reads zero.

e. Check that the meter reads zero on the x10 and x100 ranges.

f. Set the Calibrate switch to x1 and introduce the sample with known concentration in the 7 to 10 ppm range.

g. Adjust R31 so the meter reading corresponds to the sample concentration.

h. Set the Calibrate switch to x10 and introduce the sample with known concentration in the 90 to 100 ppm range.

i. Adjust R32 so that the meter reading corresponds to the sample concentration.

j. Set the Calibrate switch to x100 and introduce the sample with known concentration in the 900 to 1000 ppm range.

k. Adjust R33 so that the meter reading corresponds to the sample concentration.

l. The instrument is now calibrated for methane and ready for service.

If the flame-out alarm is actuated, check that the pump is running, then press the IGNITER button. Under normal conditions, flame-out results from sampling a gas mixture that is above the lower explosive level, which causes the hydrogen flame to extinguish. If this is the case, reignition is all that is required to resume monitoring. Another possible cause for flame-out is restriction of the sample flow line, which would not allow sufficient air into the chamber to support combustion. The normal cause for such restriction is a clogged particle filter.

It should be noted that the chamber exhaust port is on the bottom of the case and blocking this port with the hand will cause fluctuations and/or flame-out.

3. Shut Down Procedure

   a. Close HYDROGEN TANK valve

   b. Close HYDROGEN SUPPLY valve

   c. Move INSTRUMENT switch to OFF

   d. Wait five seconds and move PUMP switch to OFF. The instrument is now in a shut down configuration.

4. Fuel Refilling

   Note: Use Prepurified or Zero grade hydrogen (certified total hydrocarbons as methane <0.5 ppm is recommended).

   a. The instrument and the charger should be completely shut down during hydrogen tank refilling operations. Refilling should be performed in a ventilated area. There should be no potential igniters or flame in the area.

   b. If you are making the first filling on the instrument or if the filling hose has been allowed to fill with air, the filling hose should be purged with hydrogen before filling the instrument tank. This purging is not required for subsequent fillings.

   c. The filling hose assembly should be left attached to the hydrogen supply tank when possible. Ensure that the FILL/BLEED valve on the instrument end of the hose is in the OFF position. Connect the hose to the refill connection on the Side Pack Assembly.

   d. Open the hydrogen supply bottle valve on the instrument panel and place the FILL/BLEED valve on the filling hose assembly in the FILL position. The pressure in the instrument tank will be indicated on the Hydrogen Tank Pressure indicator.

   e. After the instrument fuel tank is filled, close the REFILL valve on the panel, the FILL/BLEED valve on the filling hose assembly and the hydrogen supply bottle valve.

   f. The hydrogen trapped in the hose should not be bled off to atmospheric pressure. Caution should be used in this operation as described in Step (g) below because the hose will contain a significant amount of hydrogen at high pressure.

   g. The hose is bled by turning the FILL/BLEED valve on the filling hose assembly to the Bleed position. After the hose is bled down to atmospheric pressure, the FILL/BLEED valve should be turned to the FILL position to allow the hydrogen trapped in the connection fittings to go into the hose assembly. Then, again, turn the FILL/BLEED valve to the Bleed position and exhaust the trapped hydrogen. Then turn the FILL/BLEED valve to OFF to keep the hydrogen at one atmosphere in the hose so that at the time of the next filling there will be no air trapped in the filling line.

   h. Close the HYDROGEN TANK valve.

   i. With the HYDROGEN TANK valve and the HYDROGEN SUPPLY valve closed, a small amount of Hydrogen at high pressure will be present in the regulators and plumbing. As a leak check, observe the Hydrogen Tank Pressure indicator while the remainder of the system is shut down and ensure that the pressure reading does not decrease rapidly (more than 350 psi/hour), which would indicate a significant leak in the supply system.

5. Battery Charging

Warning: Never charge in a hazardous environment.

a. Plug charger connector into mating connector on battery cover and insert alternating current (AC) plug into 115V AC wall outlet.

b. Move the battery charger switch to the ON position. The lamp above the switch button should illuminate.

c. Battery charge condition is indicated by the meter on the front panel of the charger; meter will deflect to the left when charging. When fully charged, the pointer will be in line with the "charged" marker above the scale.

d. Approximately one hour of charging time is required for each hour of operation. However, an overnight charge is recommended. The charger can be left on indefinitely without damaging the batteries. When finished, move the battery charger switch to OFF and disconnect from the Side Pack Assembly.

It has been established that these battery charging procedures may not be effective when the battery has completely discharged. When this happens and the above procedures fail to charge the battery, perform the following additional steps:

e. Remove the battery from the instrument case.

f. Connect to any variable direct current (DC) power supply.

g. Apply 40 volts at 1/2 ampere (A) maximum.

h. Observe the power supply meter. As soon as the battery begins to draw current, gradually reduce the power maintaining 1/2 A maximum until the meter reads approximately 15 volts.

Note: The time required to reach the 15-volt reading will depend on degree of discharge.

i. Repeat steps (a), (b), (c), and (d) above to complete the charging cycle.

SAMPLING PUMPS (SKC, MSA, or Gillian)

Sampling pumps utilized to collect personal and area samples will be calibrated before and after sampling. In each case, the sampling pumps will be calibrated in accordance with parameters established in National Institute of Occupational Safety and Health (NIOSH) Manual of Analytical Methods (1984). Calibration will be performed onsite using a primary standard (i.e., electronic bubble meter or 1-liter glass buret). Calibrations of sampling trains will be conducted with the collection media (i.e., charcoal tubes, XAD-2 tubes, tenax, cyclone separators, impingers, etc.) in line with the primary standard to ensure quality data.

The following calibration procedures should be followed when calibrating sampling trains:

1. Electronic Bubble Meter Method

   a. Allow the pump to run five minutes before voltage check and calibration.

   b. Connect the collection media to the bottom of the calibration meter by Tygon tubing. Then connect the pump and the tubing to be used to the top of the meter. This will allow the sampling train to be calibrated as it is to be used.

   c. Visually inspect all Tygon tubing connections.

   d. Wet the inside of the electronic flow cell with the supplied soap solution by pushing on the button several times.

   e. Turn on the pump and adjust the pump rotameter, if available, to the appropriate flow rate setting.

   f. Press the button on the electronic bubble meter. Visually capture a single bubble and electronically time the bubble. The accompanying printer will automatically record the calibration reading in liters per minute.

   g. Repeat step f until two readings are within 5 percent.

   h. While the pump is still running, adjust the pump, if necessary.

   i. Repeat the procedure for all pumps to be used for sampling. The same cassette and filter may be used for all calibrations involving the same sampling method.

Bubble-meter Method

Perform calibration using the bubble-meter method as follows:

1. Allow sampling pumps to run for five minutes before calibration. Check voltage after five minutes. If the voltage is below the level specified by the manufacturer, the pump needs to be recharged. Check the manufacturer's instructions for proper charging procedures.

2. Wet the inside of the burette with the soap solution before setup.

3. Assemble the bubble meter and connect the sampling pump and the type of collection device intended for the field sampling.

4. Momentarily submerge the opening of the burette to capture a film of soap.

5. Draw two or three bubbles up the burette to ensure that they will reach the top.

6. Visually capture a single bubble and time (with a stopwatch) the bubble from 0 to 1000 milliliter (ml) or 0 to 100 ml, depending on the pump being calibrated.

7. Adjust the pump flow rate until the desired flow rate is achieved. For example, for a flow rate of 2 liters per minute, the bubble must travel from 0 to 1000 ml in 30 seconds. Verify the flow rate at least twice.

8. For pumps with rotameters, mark or record the position of the float (ball) when the pump is running at the desired flow rate. This will allow the industrial hygienists to adjust the pump flow rate back to the correct rotameter position if the float moves off the marked setting during sampling.

DETECTOR TUBES/PUMPS (Sensidyne/Gastech, Draeger, MSA)

Principle/Description

1. Detector tubes/pumps, when used with a variety of commercially available detector tubes, are capable of measuring the concentrations of a wide variety of compounds in industrial atmospheres.

2. Operation consists of using the pump to draw a known volume of air through a detector tube designed to measure the concentration of the substance of interest. The concentration is determined by a calorimetric change of an indicator that is present in the tube contents.

Applications/Limitations

1. Detector tubes/pumps can measure more than 200 organic and inorganic gases and vapors or for leak detection. Some aerosols can also be measured.

2. Detector tubes of a given brand are to be used only with a pump of the same brand. The tubes are calibrated specifically for the same brand of pump and may give erroneous results if used with a pump of another brand.

3. A limitation of many detector tubes is the lack of specificity. Many indicators are not highly selective and can cross-react with other compounds. Manufacturer's manuals describe the effects of interfering contaminants.

4. Another important consideration is sampling time. Detector tubes give only an instantaneous interpretation of environmental hazards. This may be beneficial in potentially dangerous situations or when ceiling exposure determinations are sufficient. When long-term assessment of occupational environments is necessary, short-term detector tube measurements may not reflect time-weighted average levels of the hazardous substances present.

5. Detector tubes normally have a shelf-life at 25 degrees Celsius (°C) of one to two years. Refrigeration during storage lengthens the shelf-life. Outdated detector tubes (i.e., beyond the printed expiration date) should never be used.

Performance Data

1. The specific tubes are designed to cover a concentration range that is near the Permissible Exposure Limit (PEL). Concentration ranges are tube-dependent and can be anywhere from one one-hundredth to several thousand ppm. The limits of detection depend on the particular detector tube.

2. Accuracy ranges vary with each detector tube ($\pm$ 25 percent).

3. The pump may be handled during operation (weighing from 8 to 11 ounces) or it may be an automatic type (weighing about 4 pounds) that collects a sample using a preset number of pump strokes. A full pump stroke of either type of short-term pump has a volume of about 100 cubic centimeters (cm^3).

4. In most cases where only one pump stroke is required, sampling time is about on minute. Determinations for which more pump strokes are required take proportionately longer.

Leakage Test

1. Each day before use, perform a pump leakage test by inserting an unopened detector tube into the pump and attempt to draw in 100 ml of air. After a few minutes, check for pump leakage by examining pump compression for bellows-type pumps or return to resting position for piston-type pumps. Automatic pumps should be tested according to the manufacturer's instructions.

2. In the event of leakage that cannot be repaired in the field, notify the DSHO to expedite repairs.

3. Record leakage test on the HLA Air Monitoring Calibration Form.

Calibration Test

1. Calibrate the detector tube for proper volume measurement at least quarterly.

2. Simply connect the pump directly to the bubble meter with a detector tube in-line. Use a detector tube and pump from the same manufacturer.

3. Wet the inside of the 100 cm^3 bubble meter with soap solution.

4. For volume calibration, experiment to get the soap bubble even with the zero mark of the buret.

   a. For piston-type pumps, pull the pump handle all the way out (full pump stroke) and note where the soap bubble stops; for bellows-type pumps, compress the bellows fully; for automatic pumps, program the pump to take a full pump stroke. For either type pump, the bubble should stop between the 95 cm^3 and 105 cm^3 marks. Allow four minutes for the pump to draw the full amount of air (This time interval varies with the type of detector tube being used in-line with the calibration setup).

   b. Also check the volume of 50 cm^3 (1/2 pump stroke) and 25 cm^3 (1/4 pump stroke) if pertinent. As in Section 1 above, a ± 5 percent error is permissible. If error is greater that ± 5 percent, send the pump for repair and recalibration.

5. Record the calibration information required on the Calibration Log.

6. It may be necessary to clean or replace the rubber bung or tube holder if a large number of tubes have been taken with the pump.

Additional Information

1. Draeger, Model 31 (bellows)

   When checking the pump for leaks with an unopened tube, the bellows should not be completely expanded after 10 minutes.

2. Draeger, Quantimeter 1000, Model 1 (automatic)

   A battery pack is an integral part of this pump. The pack must be charged before initial use. One charge is good for 1000 pump strokes. During heavy use, it should be recharged daily. If a "U" (undervoltage) message is continuously displayed in the readout window of this pump, the battery pack should be immediately recharged.

3. Mine Safety Appliances, Sampler Pump, Model A, Part No. 463998 (piston)

   The pump contains a flow rate control orifice protected by a plastic filter that periodically needs to be cleaned or replaced. To check the flow rate, the pump is connected to a buret and the piston is withdrawn to the 100-ml position with no tube in the tube holder. After 24 to 26 seconds, 80 ml of air should be admitted to the pump. Every six months, the piston should be relubricated with the oil provided.

4. Sensidyne-Gastec, Model 800, Part No. 7010657-1 (piston)

   This pump can be checked for leaks as mentioned for the Kitagawa pump; however, the handle should be released after one minute. Periodic relubrication of the pump head, the piston gasket, and the piston check valve is needed and is use-dependent.

Special Considerations

1. Detector tubes should be refrigerated when not in use to prolong shelf life.

2. Detector tubes should not be used when cold. They should be kept at room temperature or in a shirt pocket for one hour before use.

3. Lubrication of the piston pump may be required if volume error is greater than 5 percent.

COMBUSTIBLE GAS INDICATOR (Model 361 or equivalent)

Theory of Operation

The Model 361 Hydrogen Sulfide combustible gas and oxygen sensors operate simultaneously. Each sensing circuit is equipped with an individual, visual alarm descriptor. There is a common, pulsating audible alarm. One position of the FUNCTION switch enables the audible alarm to be turned off, if so desired. The alarm descriptors will remain on until the concentration returns to within the alarm setpoints and the reset button is depressed.

A low-battery alarm will activate the BATT descriptor on the display and a continuous, steady-sounding audible alarm. This steady sound indicates that the Model 361 must be removed from service and charged in a nonhazardous area.

> WARNING: Exposure of the combustible gas sensor to a concentration high enough to cause the readout to indicate a reading higher that 100 percent Lower Explosive Limit (LEL) will cause the readout to latch. When latched, the LEL readout will be blank and the descriptors for OVER and LEL ALARM will appear. This latching circuit is a warning that the gas concentration has exceeded the LEL and that all personnel must evacuate the area.

This latching circuit can be reset by removing the Model 361 to an area known to be free of combustible gas (fresh air) and turning off the instrument. The Model 361 can then be turned on and rezeroed in fresh air. This latch circuit does not operate during the first 30 seconds after turning on the instrument, thus providing sufficient time for sensor warm-up and rezeroing.

Toxic Gas Sensor

The toxic gas sensor used in the Model 361 is a membrane-sealed electrochemical cell. The cell requires an external voltage source to function and produces a current output that is proportional to the amount of H_2S present. The H_2S diffuses through the front membrane of the cell and is oxidized at the working electrode. Current flows through the liquid electrolyte (acid solution) to the counter/reference electrode where oxygen reduction occurs. The amount of current produced for a concentration of H_2S is dependent on the voltage across the working reference electrodes as well as the electrode materials and the electrolyte. The choice of the particular noble metal electrodes and the setting of the cell voltage optimizes the sensor for the detection of H_2S.

The current from the cell is fed to a current-to-voltage converter. This voltage signal is applied to an amplifier that drives the toxic gas readout and provides and input for an alarm comparator circuit.

Combustible Gas Sensor

The flammable properties of combustible gases are used as the basis of detection. The sensor consists of a pair of pelletized filaments called Pelements™ arranged in an electrically balanced bridge circuit. The detector pelement is treated with a catalyst that causes the combustible gases to combine with oxygen at much lower temperatures than would be required for normal burning. The inactive compensator pelement is also exposed to the sample flow and acts to offset any electrical changes caused by flow conditions, sample temperature, pressure, and/or humidity.

Combustible gases in the sample combine with oxygen in the air at the surface of the catalyzed detector pelement. Heat is liberated by this chemical reaction, thus increasing the temperature of the pelement and causing an associated increase in the pelement electrical resistance.

Increased resistance of the detector pelement unbalances the bridge circuit, causing a voltage change at the mid-point connection between the detector pelement and the compensating pelement. This voltage signal is applied to an amplifier that drives the combustible gas readout and provides an input for an alarm comparator circuit.

Oxygen Sensor

The oxygen sensor is a galvanic type cell containing gold and lead electrodes in a potassium hydroxide solution. The cell is sealed with a membrane that allows oxygen to diffuse into the active area. The current generated by the cell is proportional to the oxygen partial pressure in the atmospheric sample passing over the face of the membrane. The generated current passes through a resistance to provide a voltage input signal for an amplifier. The output of the amplifier drives the oxygen readout and also serves as an input to the alarm comparator circuit.

The following instructions detail the procedures for operation and calibration of the MSA Model 361 Combustible Gas Indicator.

Operating Instructions

The Model 361 oxygen calibration and toxic and combustible zero checks must be made in fresh air or with the inlet end of the sampling line in fresh air.

1. Turn the FUNCTION control to the HORN OFF position; the HORN OFF indicator will light and the descriptor percent LEL will show in the readout.
2. Set the readout to zero (00) by adjusting the LEL ZERO control (NOTE: this must be done within 30 seconds of turning ON to prevent the possibility of activating the off-scale LEL latching alarm).
3. Press the SELECT button firmly to obtain percent OXY on the readout; then set the readout to 20.8 percent by adjusting the OXY CALIBRATE control.
4. Press the SELECT button firmly to obtain PPM TOX on the readout; then set the readout to zero (00) by adjusting the TOX ZERO control.
5. Press the RESET button.
6. Turn the FUNCTION control to MANUAL for continuous readout of any one gas or to SCAN for automatic scanning of the three gas readings. (NOTE: All alarm functions operate in either position.)

7. Momentarily place a finger over the sample inlet fitting or the end of the sample line, if one is used. Observe that the FLOW indicator float drops, indicating no flow. If it does not, check the flow system and sample line for leaks.

8. The instrument is ready for calibration.

   WARNING: If an alarm is indicated by an ALARM or OVER sign in the readout or a pulsing horn, evacuate personnel from the area and notify the safety officer.

   A low battery condition is indicated by a BATT sign in the readout or by a steady horn; remove the Model 360 or 361 and recharge in a nonhazardous area to prevent potential ignition of combustible atmospheres.

Model 361 Calibration

1. Attach the flow control to the 0.75 percent pentane/15 percent oxygen calibration gas tank.

2. Connect the adapter-hose to the flow control.

3. Open the flow control valve.

4. Connect the adapter-hose fitting to the inlet of the instrument; within 30 seconds, the LEL meter should stabilize and indicate between 47 and 55 percent. If the indicator is not in the correct range, remove the right end of the indicator and adjust the LEL SPAN control to obtain 50 percent.

5. Verify the oxygen reading; it should be between 13 and 17 percent.

6. Disconnect the adapter-hose fitting from the instrument.

7. Close the flow control valve.

8. Remove the flow control from the calibration gas tank.

9. Attach the flow control to the 10 ppm hydrogen sulfide calibration gas tank (40 ppm gas may be used; the choice of H_2S calibration will depend on concentrations anticipated in the work place).

10. Open the flow control valve.

11. Connect the adapter-hose fitting to the inlet of the instrument; after approximately one minute, the TOX readout should stabilize and indicate between 7 to 13 ppm (35 to 45 ppm for 40 ppm H_2S). If the indication is not in the correct range, remove the right end of the indicator and adjust the TOX SPAN control to obtain 10 ppm (40 ppm for 40 ppm H_2S).

12. Disconnect the adapter-hose fitting from the instrument.

13. Close the flow control valve.

14. Remove the adapter-hose from the flow control.

15. Remove the flow control from the calibration gas tank.

CAUTION: Calibration gas tank contents are under pressure. Do not use oil, grease, or flammable solvents on the flow control or the calibration gas tank. Do not store calibration gas tank near heat or fire, nor in rooms used for habitation. Do not throw in fire, incinerate, or puncture. Keep out of the reach of children. It is illegal and hazardous to refill this tank. Do not attach any gas tank other than MSA calibration tanks to the flow control.

APPENDIX G

QUALITY ASSURANCE PROGRAM

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QUALITY ASSURANCE PROGRAM

DEL MAR ANALYTICAL

JANUARY 1995

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3.0 INTRODUCTION

Del Mar Analytical is committed to providing quality environmental analytical services to all of its clients. To maintain this high level of quality, an extensive Quality Assurance (QA) Program has been implemented within the Del Mar Analytical Network. Del Mar Analytical's goal is to provide legally defensible analytical data of known and supportable quality.

3.1 DEFINITION

A Quality Assurance Program is a company-wide system designed to ensure that data produced by Del Mar Analytical conforms to the highest standards set by state and/or federal regulations. The program functions at the management level through company goals and management policies, and at the analytical level through standard operating procedures and quality control. These two levels are administered through data control and review processes. The final result is a data package that is reproducible, technically accurate, and useful to the client.

3.2 SCOPE

Del Mar Analytical analyzes thousands of environmental and industrial samples every month. Sample matrices vary between air, drinking water, effluent water, groundwater, hazardous waste, sludge and soils. The Quality Assurance Program contains specific procedures and methods to test samples of differing matrices for chemical, physical and biological parameters. The Program also contains guidelines on maintaining documentation of analytical process, reviewing results, servicing clients and tracking samples through the laboratory.

3.3 PURPOSE

The Quality Assurance Program provides a means by which the integrity of data can be verified. Since engineering, environmental and industrial decisions are based on the data produced, it is essential that clear and extensive verification procedures exist. Accuracy, appropriate representation, completeness and precision are all aspects of a data package that verify the integrity of the analysis.

The Quality Assurance Program is also a useful historical document. The chronological development of any Quality Assurance Program relies on the adequate documentation of previous programs. Improvements and modifications can be instituted only if an established frame of reference exists and the comparative benefits of such changes can be judged.

The Quality Assurance Program is the format through which Del Mar Analytical can express its goals, policies, and commitment to generating data of the highest quality. The Quality Assurance Program outlines how the laboratory will meet those goals through time, resources, and its employees.

3.4 GOALS

Del Mar Analytical is dedicated to the production of high quality data at reasonable cost and turn-around-time. State-of-the-art analytical equipment is combined with professional client services so that projects, both large and small in scope, are successfully completed. Emphasis is placed upon meeting the clients' needs through the experience and flexibility of dedicated professionals. The company's organization, management policies, and routine activities are all designed to meet these goals.

3.5 MANAGEMENT REVIEW OF THE QUALITY ASSURANCE PROGRAM

Annually, a review of the Quality Assurance Program is conducted by the management of Del Mar Analytical. Included in this review is the Laboratory Director, Laboratory Manager, Technical Manager, Quality Assurance Officer, Marketing Manager, and Office Manager. This review helps to ensure that the laboratory's quality system is capable of meeting Del Mar Analytical's goal of producing quality data. All aspects of the Quality Assurance Program are reviewed. In general, results of audits, both internal and external, are reviewed along with proficiency evaluation results and staff training. In addition, future plans regarding staff, equipment and facility resources are reviewed. The Quality Assurance Officer is responsible for ensuring that the review occurs, and that all review findings are documented. Documentation consists of meeting minutes, along with written documentation of any necessary corrective actions revealed during the review of the quality system. The Quality Assurance Officer is also responsible for implementing the corrective actions, and for documenting that implementation had occurred. All review findings and corrective action documentation are kept on file with the Quality Assurance Officer.

4.0 PROJECT ORGANIZATION

Del Mar Analytical is structured to facilitate communications between management and analytical levels, and to ensure that the final data package produced for the client meets or exceeds regulatory standards. An example of Del Mar Analytical's organization chart may be found in Figure 4-1. The following are brief descriptions of the major organizational levels.

4.1 PRESIDENT/LABORATORY DIRECTOR

The President/Laboratory Director works closely with the Vice-President/Laboratory Manager and is responsible for all major financial decisions, including the expansion of satellite laboratory facilities, staff selection, promotion, and major instrument acquisition. The President/Laboratory Director is also ultimately responsible for the entire laboratory operation, final technical review, approval of analytical reports, and all aspects of client services.

4.2 VICE PRESIDENT/LABORATORY MANAGER

The Vice President/Laboratory Manager is responsible for all internal laboratory operations, which include Manager and Group Leader supervision, staff promotion and discipline, cross-training, and method interpretation. The Vice President/Laboratory Manager is also responsible for administering the Quality Assurance Program and has direct authority over the Quality Assurance Officer.

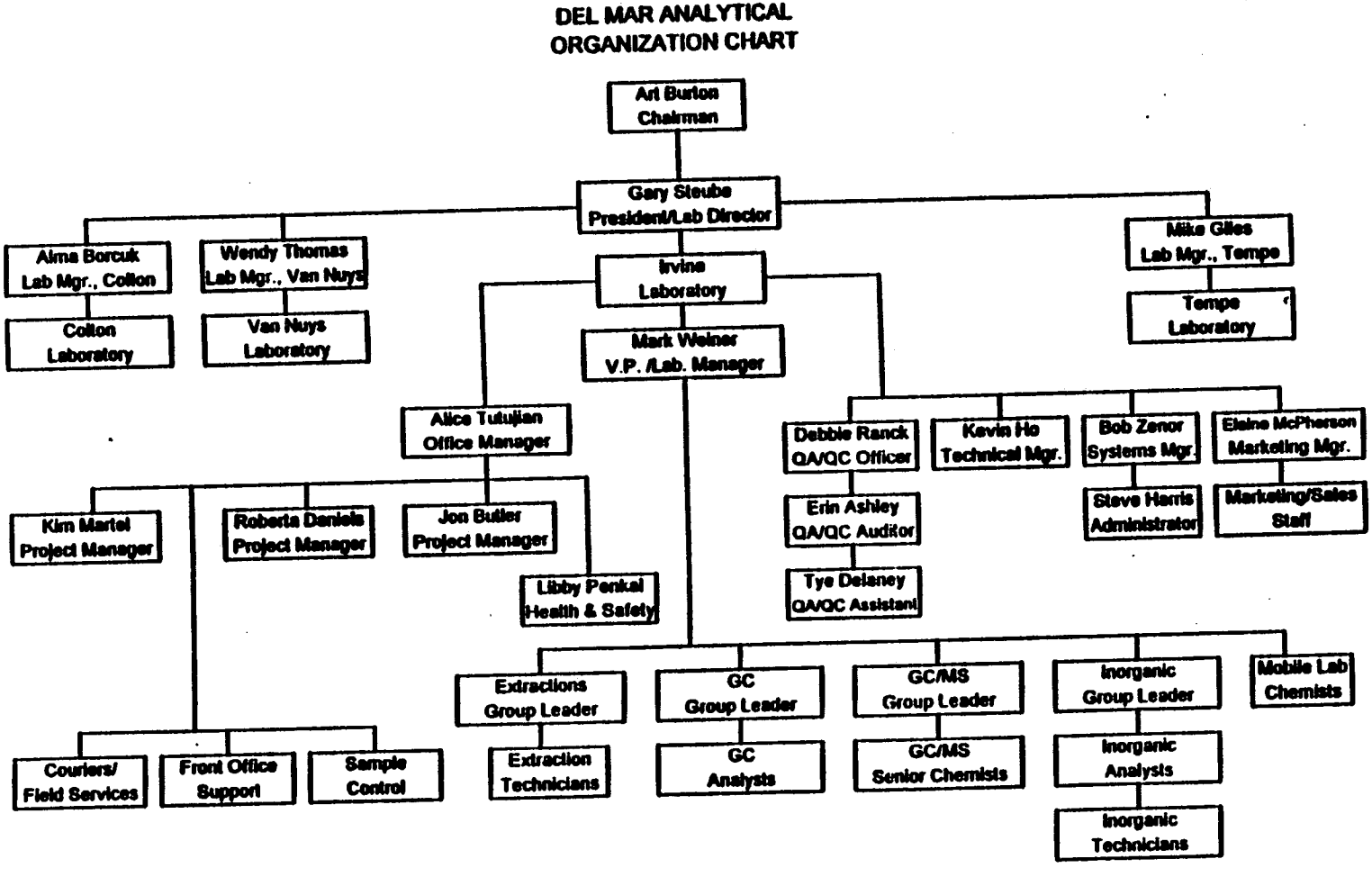
4.3 QUALITY ASSURANCE OFFICER

The Quality Assurance Officer is responsible for the implementation and review of the Quality Assurance Program, all quality control procedures, internal checks and audits, QC data reporting, and overseeing the Internal Quality Assurance Auditor. The QA/QC Officer has direct authority to request re-analysis of samples and to discontinue or suspend work on projects if deemed necessary. The QA/QC Officer answers directly to the Laboratory Director and the Laboratory Manager.

4.4 INTERNAL QUALITY ASSURANCE AUDITOR

The Internal Quality Assurance Auditor is responsible for reviewing the Analyst's files, notebooks, and raw data for documentation of all quality control measurements. In addition, it is the responsibility of the Internal Quality Assurance Auditor to control and maintain all documentation pertaining to the Quality Assurance Program, such as Standard Operating Procedures, Method Detection Limits Studies, and Performance Evaluation Studies. The Internal Quality Assurance Auditor maintains historical files of all quality system documents, as well as current, authorized

Figure 4-1
Del Mar Analytical Organization Chart



copies of quality system documents. Furthermore, the Internal Quality Assurance Auditor performs annual performance audits which are documented to assure that the requirements of the Quality Assurance Program are met.

Follow-up audits are scheduled as needed until corrective actions are fully implemented. Copies of all Performance Audits are given to the QA/QC Officer and the Laboratory Manager for review and input. The issuance and tracking of individual Analyst performance on blind check samples is also the Internal QA Auditor's responsibility. These results are provided to the appropriate Department Supervisor for review and inclusion with individual training records. The Internal QA Auditor reports directly to the QA/QC Officer.

4.5 QUALITY ASSURANCE/QUALITY CONTROL ASSISTANT

The Quality Assurance/Quality Control Assistant is responsible for the timely and accurate transcription of client/sample documentation, and QC Matrix Spike/Matrix Spike Duplicate data into final analytical reports. He or she works closely with the QA/QC Officer and the Project Managers to insure that proper QA/QC is followed during data transcription and report origination. The QA/QC Assistant generates and reviews, in conjunction with the QA/QC Officer, all QA/QC analytical reports and assists with the preparation of Control Charts.

4.6 HEALTH & SAFETY OFFICER

The Health and Safety Officer is responsible for administering the Health and Safety Program. This includes routine internal health and safety audits of the facility as well as management of the Hazardous Waste program. The Health and Safety Officer is also responsible for the execution of the Chemical Hygiene Program, which involves educating and training all personnel. He or she is responsible for monitoring and recording OSHA compliances and insuring the proper storage and disposal of laboratory hazardous and non-hazardous wastes.

4.7 SAMPLE CONTROL LEADER

The Sample Control Leader is responsible for receiving and entering samples into the LIMS log-in computer, recording sample condition and reviewing all Chain-of-Custody forms, as well as the review and coordination of the Sample Control staff's duties. He or she acts as a liaison between Project Managers and Analysts in respect to handling rush orders, resolving inconsistencies and problems with Chain-of-Custody forms, and routing of sub-contracted analyses.

4.8 MARKETING MANAGER

The Marketing Manager is responsible for developing new clients and proper company image, identifying and targeting potential markets, making presentations to clients, and updating and generating company literature. The Marketing Manager is directly responsible for the supervision and management of Del Mar Analytical's marketing staff.

4.9 SYSTEMS MANAGER

The Systems Manager is directly responsible for the design, implementation, and maintenance of Del Mar Analytical's GC Turbochrom program, LIM systems, QC computer programs, Telecation software for CLP data packages, and other related software. He or she also designs and writes programs for the company when commercial programs are not appropriate or applicable, and generates all electronic data deliverables as requested by clients.

4.10 TECHNICAL MANAGER

The Technical Manager is responsible for the development and implementation of new methods, maintenance and repair of all instruments and equipment, trouble-shooting, and the acquisition of new instruments. He or she is also responsible for training new personnel and cross-training current employees to operate in other departments. He or she works closely with the QA/QC Officer to insure proper calibration and operation of all analytical equipment. He or she also works directly with the Systems Manager to help implement new computer analytical programs, maintain current system, and develop ideas for future improvements.

4.11 PROJECT MANAGERS

Project Managers are responsible for thoroughly coordinating internal projects, maintaining clients' satisfaction and reviewing laboratory reports. All project status and technical questions generated by the client are directed to the Project Manager.

4.12 OFFICE MANAGER

The Office Manager oversees the Sample Control Group and is responsible for personnel supervision and promotion. The Office Manager directly supervises and manages the accounting, clerical and courier staff. He or she also conducts employee hiring, employee discipline, and performance reviews for the non-technical staff.

4.13 DATA PROCESSORS

The Data Processors are responsible for the timely and accurate transcription of client/sample documentation and analytical results into final analytical reports. They work closely with the Project Managers to insure that proper QA/QC is followed during data transcription and report generation. They prepare a variety of Deliverable Packages, such as: Los Angeles Region Water Quality Control Board Well Investigation Program (WIP) reports, NEESA Level III and IV reports, and custom report formats requested by clients.

4.14 SAMPLE CONTROL

The Sample Control Group is responsible for checking for sufficient sample volume, ensuring that bottles are properly prepared and preserved, receiving and entering samples into the log-in computer system, recording sample condition, and reviewing Chain-of-Custody forms. They act as a liaison between Project Managers and Analysts in respect to handling rush orders, resolving inconsistencies and problems with Chain-of-Custody forms, and routing of sub-contracted analyses.

4.15 COURIERS/SAMPLING TECHNICIANS/FIELD SERVICE TECHNICIANS

This group is responsible for general courier duties, water sampling by the grab method, and the proper installation of automatic ISCO 24 hour water sampling equipment.

4.16 ORGANICS SUPERVISOR

The Organics Supervisor is responsible for the supervision of operations within the GC Organics and GC/MS Organics Groups, secondary data review generated by group Analysts, maintenance of all group records and logs, and performance of Semi-Volatiles analyses by GCMS--8270/625 analyses.

4.17 INORGANICS SUPERVISOR

The Inorganics Supervisor is responsible for the supervision of operations within the Inorganics Group, which includes the Metals Group and Wet Chemistry Group, secondary data review generated by the group Analysts, maintenance of all group records and logs, and performance of AA and ICP Metals analyses.

4.18 EXTRACTIONS SUPERVISOR

The Extractions Supervisor is responsible for the daily functions of the Extractions Group, including evaluation of analyses and extractions, secondary data review, maintenance of all group record and activity logs, equipment operations, and employee performance.

4.19 ANALYSTS - GC, GC/MS, METALS, WET CHEMISTRY

The Analysts are responsible for all aspects of assigned analytical procedures, including overseeing sample preparation and preservation, performing the analyses, and reporting the results within the specified turn-around-times. They must adhere to all QC procedures specified in the analytical method and the full documentation of these procedures. In addition, they are responsible for routine maintenance of their equipment and ensuring sufficient supplies for analyses.

- Extractions
- Gas Chromatography
- GC/MS
- Metals
- Wet Chemistry

5.0 CERTIFICATION

Del Mar Analytical is certified by the State of California Department of Health Services under the Environmental Laboratory Accreditation Program (ELAP) for the analyses of drinking water, wastewater, and hazardous waste. Del Mar Analytical's ELAP certificate numbers are as follows:

- 1197 for the Irvine laboratory
- 1169 for the Colton laboratory
- 1855 for the Van Nuys laboratory
- 1794 for the Mobile laboratory

Del Mar Analytical is also certified by the State of Arizona Department of Health/Division of State Laboratory Services. Certificate numbers are as follows:

- AZO426 for the Tempe, AZ laboratory
- AZM426 for the Tempe, Mobile laboratory
- AZ0062 for the Colton, CA laboratory
- AZ0428 for the Irvine, CA laboratory

To keep informed of new technologies and regulations, many of our employees are active in professional organizations, which include the following:

- actLabs (Association of California Testing Laboratories)
- American Chemical Society
- American Council of Independent Laboratories
- American Water Works Associations
- Association of California Testing Laboratories
- Association of Hazardous Testing Materials
- California Water Pollution Control Association
- IAETL (International Association of Environmental Testing Laboratories)
- Water Pollution Control Federation

5.1 PERSONNEL SUMMARY

Total Staff.....83

Total Scientific Staff.....52

5.2 CERTIFICATES AND UNDERGRADUATE AND GRADUATE DEGREES HELD BY DEL MAR ANALYTICAL EMPLOYEES

- Analytical Chemistry
- Biochemistry
- Biology
- Business Administration
- Chemical Engineering
- Chemistry
- Drug and Chemical Technology
- Ecology
- Engineering
- English
- Environmental Science
- Forensic Sciences
- Geology
- Hazardous Materials Management
- Health Science
- Mathematics
- Petroleum Chemistry
- Pharmacy
- Physics
- Psychology
- Sociology
- Supervisor Training
- Zoology

6.0 CONFIDENTIALITY STATEMENT

The protection of confidential client information, business information and trade secrets is vital to the interests and the success of this organization. Such confidential information includes, but is not limited to the following:

- Client contact representatives
- Client lists
- Del Mar Analytical's organizational structure
- Financial Information
- Marketing Strategies
- Pending projects and proposals
- Scientific Data
- Specific client/project information

As a condition of employment, all employees are required to sign a non-disclosure agreement similar to the one shown in Figure 6-1.

Client data can be released to third parties only if requested in writing by Del Mar Analytical's client. Under certain circumstances and depending on client relationships, a verbal request by a client to release data to a third party may be honored. However, a verbal request must be approved by the President/Laboratory Director and documented in writing.

Figure 6-1
Non-Disclosure Agreement

MEMO TO ALL DEL MAR ANALYTICAL EMPLOYEES REGARDING CONFIDENTIAL COMPANY INFORMATION

This is an informational memo which is distributed annually in order to remind you that the work we do is confidential. Items listed below are not to be discussed with people who are not Del Mar Analytical employees.

Client Related Items

1. Our client's laboratory reports are confidential. We have legally binding contracts with many clients in which we agree to maintain the confidentiality of their data. In all cases, the client's permission is required before data can be reported to someone other than the client (including regulators and the client's client). A written record of the verbal permission being given by the client must be maintained.

2. The names of sites and contracts we are working on are confidential.

3. Client lists, client codes, client files, addresses, phone numbers and key contacts are all confidential information, as are any particular likes or dislikes of a client. In addition, billing information, including special pricing structures and quotes are confidential.

Operations Items

1. Del Mar Analytical's organization structure is confidential. Titles and job descriptions are not confidential, but specifics about the hierarchy and the printed organization charts are confidential.

2. Details about compensation are confidential. Employees are advised to refrain from discussing their compensation with each other. Employees who have access to payroll information are not permitted to discuss that information with any employee or non-employee except the Laboratory Director, Laboratory Manager, or Office Manager.

3. Performance reviews and personnel information/data are confidential. Employees who have information regarding employee's personal life, financial situation and/or the employee's career objectives are to consider the information confidential. The information is not to be disclosed to non-employees, nor should it be discussed with employees other than the Laboratory Director, Laboratory Manager, or Office Manager.

4 References on the performance of former employees are confidential and can only be given by the Laboratory Director, Laboratory Manager, or Office Manager.

5. Marketing strategies are confidential.

6. Technical improvements to methods, instruments or data reduction techniques are confidential.

7. Software applications authored by Del Mar Analytical employees are company property and are not to be removed from the building by any employee, including the author, without written permission. This restriction includes but is not limited to the programs for invoicing, sample control, report generation and QA/QC reports.

Please acknowledge that you have received this notice by signing below.

Signature: _____ Date: _____

7.0 EQUIPMENT AND FACILITIES

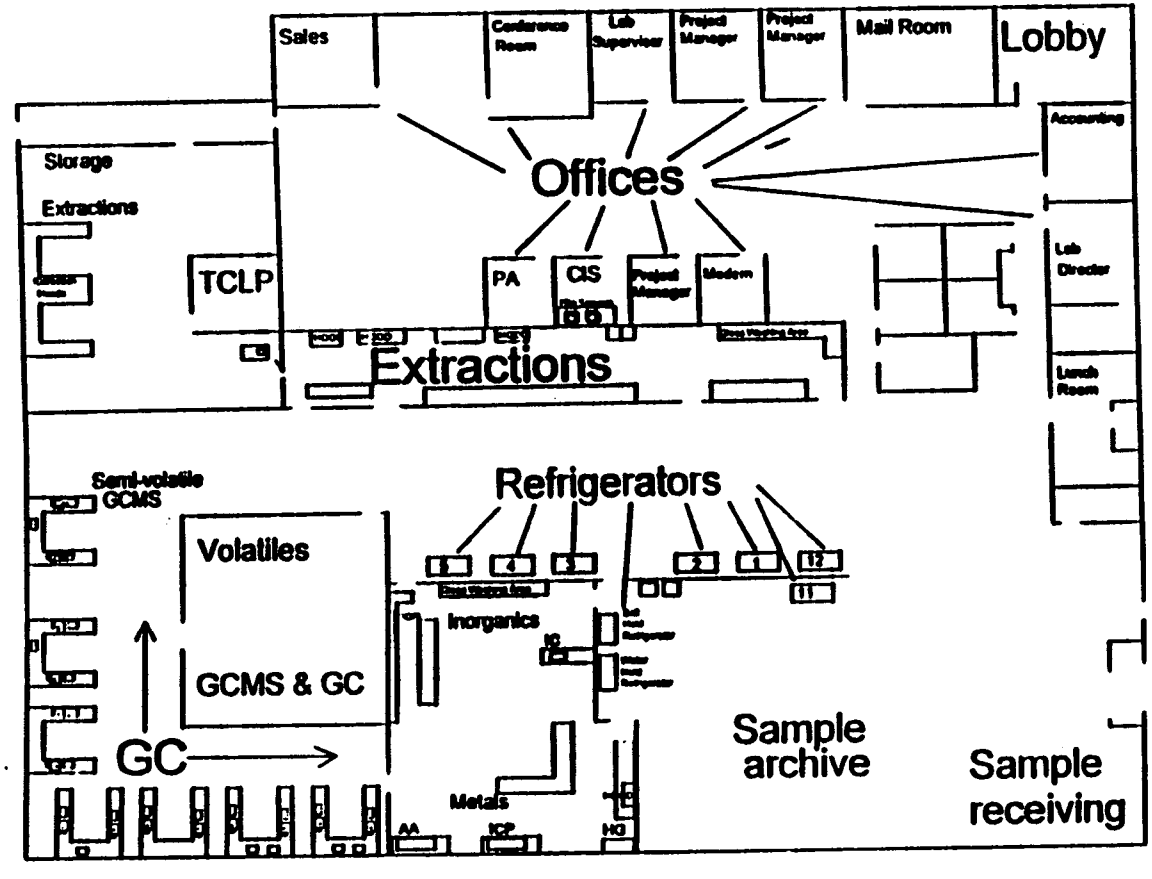
At approximately 24,000 square feet, Del Mar Analytical's Irvine Laboratory is one of the largest environmental laboratories in California. Del Mar Analytical's satellite laboratories include the Colton laboratory at approximately 3,500 square feet, the Van Nuys laboratory at approximately 4,800 square feet, and the Tempe laboratory at approximately 2,500 square feet. The square footage of each laboratory is comprised of both laboratory and office space. Within each laboratory are areas dedicated to specific functions including sample receipt, sample preparation, sample analysis, sample storage, sample archive, data archive, and report preparation. Laboratory floorplans are presented in Figures 7-1 through 7-4.

Each laboratory facility is equipped with safety equipment, including emergency showers, eye wash stations, fire blankets, fire extinguishers, fume hoods, respirators, safety glasses, spill cleanup kits and warning signs.

Del Mar Analytical purchases state-of-the-art analytical instrumentation for sample analyses. With multiple gas chromatograms (GC), gas chromatogram/mass spectrometers (GC/MS), atomic absorption spectrophotometers (AA), inductively coupled plasma spectrophotometers (ICP), infra-red spectrophotometers (IR) and many other analytical instruments, Del Mar Analytical can meet most project needs without subcontracting work to other laboratories. Del Mar Analytical has a policy of upgrading older analytical equipment to minimize down-time and to ensure that samples are analyzed by the best available technology. A list of the major laboratory instrumentation for each Del Mar Analytical laboratory is presented in Tables 7-1 through 7-4.

Figure 7-1
Irvine Floorplan

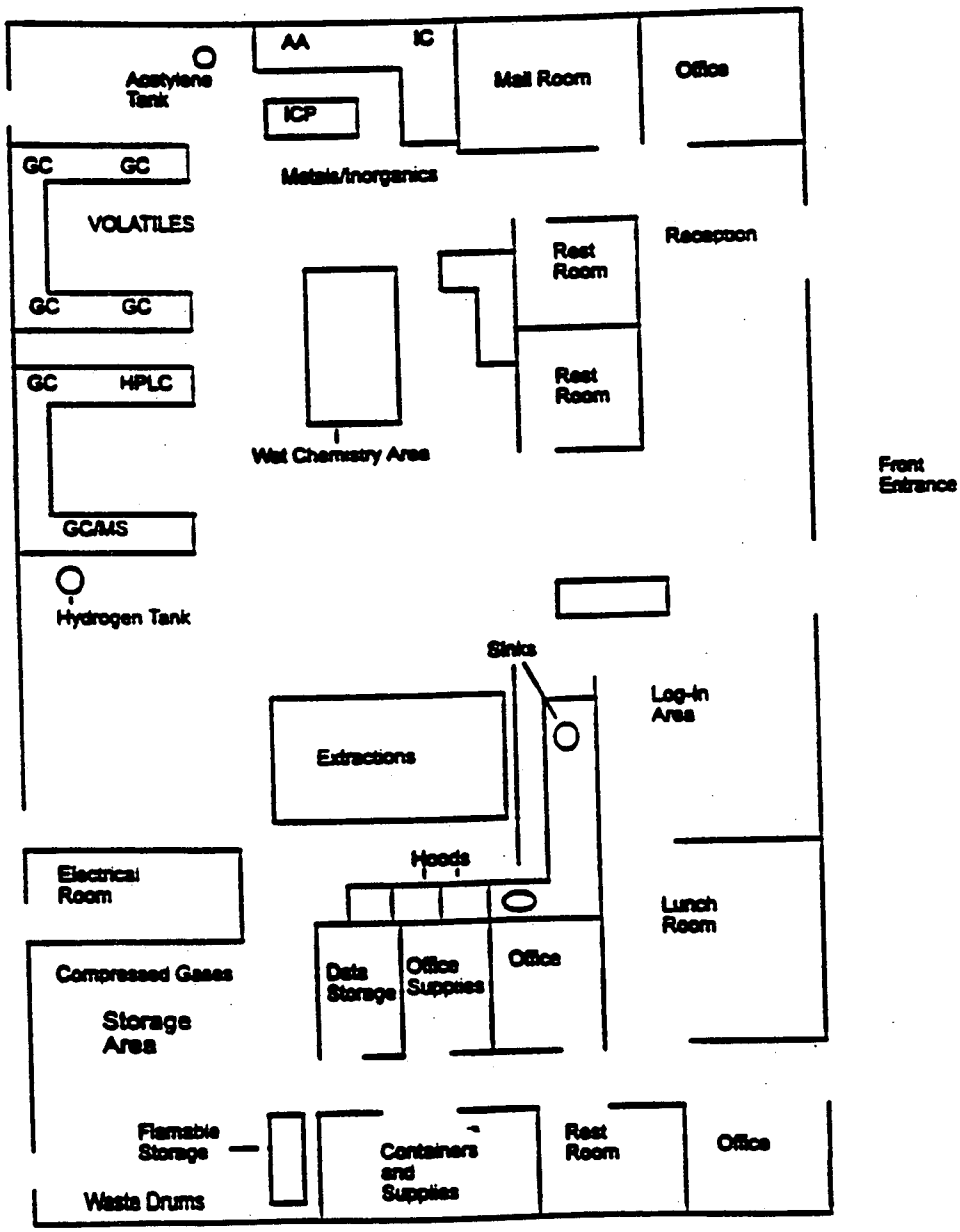
DEL MAR ANALYTICAL - Irvine Floorplan



APPROX. 25,000 Square Feet

Figure 7-2
Colton Floorplan

DEL MAR ANALYTICAL - COLTON FLOORPLAN



Approximately 5,000 Square Feet

Figure 7-3
Van Nuys Floorplan

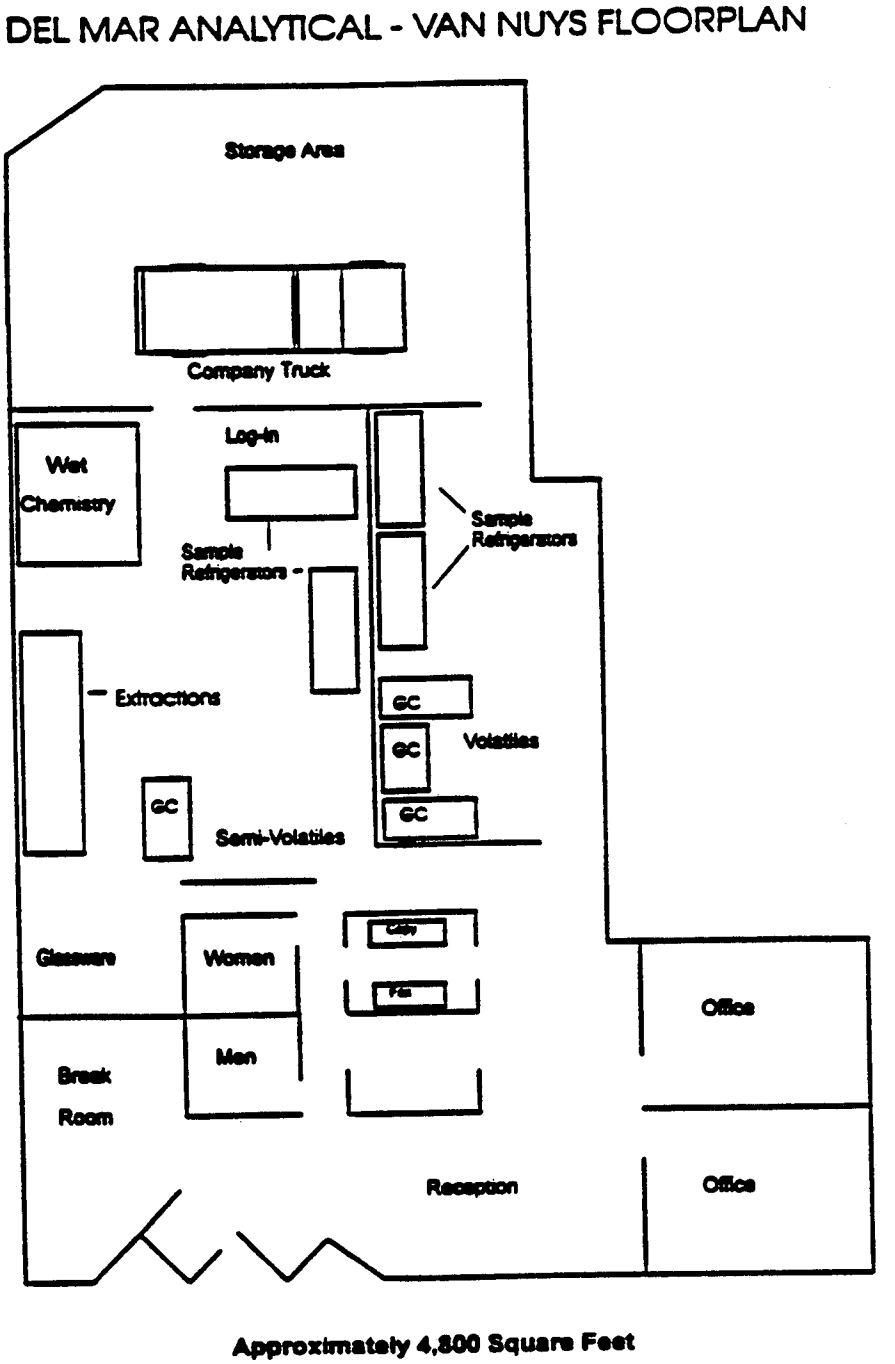
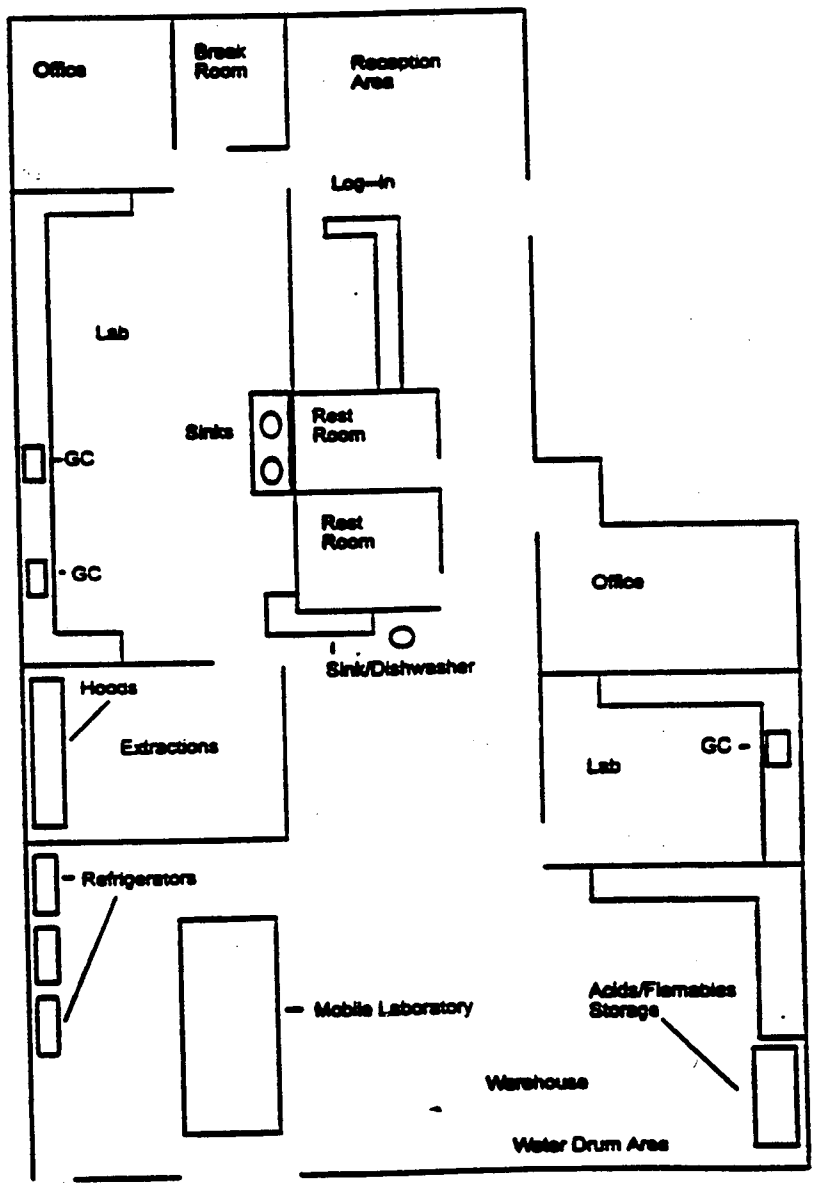


Figure 7-4
Tempe Floorplan

DEL MAR ANALYTICAL - TEMPE FLOORPLAN



Approximately 3,670 Square Feet

Table 7-1
Irvine Laboratory Instrumentation

Equipment List
Del Mar Analytical, Irvine

ITEM	BRAND	MODEL
Gas Chromatograph #1	Varian	3400
Mass Spectrometer #1	Finnigan	Incos50
Purge & Trap Concentrator #1	Tekmar	LSC2000
Auto Sampler #1	Tekmar	ALS2016
Gas Chromatograph #2	Varian	3400
Mass Spectrometer #2	Finnigan	Incos50
Purge & Trap Concentrator #2	Tekmar	LSC2000
Auto Sampler #3	Tekmar	ALS2016
Gas Chromatograph	Hewlett Packard	5890A
MSD Mainframe	Hewlett Packard	5971
Auto Sampler	Hewlett Packard	7673a
Gas Chromatograph #1	Hewlett Packard	5890
Auto Sampler #1	Hewlett Packard	7673A
Gas Chromatograph #2	Hewlett Packard	5890
Auto Sampler #2	Hewlett Packard	7673A
Gas Chromatograph #3	Perkin Elmer	8500
Auto Sampler #3	Perkin Elmer	AS8300
Gas Chromatograph #6	Perkin Elmer	Sigma 300
Purge & Trap Concentrator #6	Tekmar	LSC2000
Gas Chromatograph #7	Perkin Elmer	8500
Headspace Autosampler #7	Perkin Elmer	HS-101
Gas Chromatograph #8	Hewlett Packard	5890
Gas Chromatograph #9	Hewlett Packard	5890
Purge & Trap Concentrator #9	O.I. Analytical	4460A

Table 7-1 (continued)

Equipment List
Del Mar Analytical, Irvine

ITEM	BRAND	MODEL
Auto Sampler #9	O.I. Analytical	MPM16
Gas Chromatograph #10	Hewlett Packard	5890
Purge & Trap Concentrator #10	O.I. Analytical	4460A
Auto Sampler #10	O.I. Analytical	MPM-16
Gas Chromatograph #11	Hewlett Packard	5890
Purge & Trap Concentrator #11	O.I. Analytical	4460A
Auto Sampler #11	O.I. Analytical	MPM-16
Gas Chromatograph #12	Hewlett Packard	5890
Auto Sampler #12	Hewlett Packard	7673A
Gas Chromatograph #14	Hewlett Packard	5890
Purge & Trap Concentrator #14	O.I. Analytical	4460A
Auto Sampler #14	O.I. Analytical	MPM-16
TOC Analyzer	O.I. Analytical	700
Auto Sampler	Dionex	AS
Balance	Mettler	AE100
Conductance Meter	Yellow Springs	32
Ion Chromatograph	Dionex	4500
pH Meter	Beckman	PH140
Turbidity Meter	Shaban	20010
UV/VIS Spectrophotometer	Milton Roy Co.	Spec. 200
Atomic Absorption Spectrophotometer	Perkin Elmer	5100PC
Atomic Absorption Spectrophotometer	Perkin Elmer	3100
Auto Sampler	Perkin Elmer	AS900
Auto Sampler	Perkin Elmer	AS-60

Table 7-1 (continued)

Equipment List
Del Mar Analytical, Irvine

ITEM	BRAND	MODEL
Cold Vapor System	Perkin Elmer	FIAS200
Mercury Analyzer	Perkin Elmer/FIMS	
Inductively Coupled Plasma Spectrophotometer	Perkin Elmer	P-40
Inductively Coupled Plasma Spectrophotometer	Optima 3000XL	
Balance	Sartorius	8610-OUR
Balance	Mettler	PJ3600
Conductivity Meter	Corning	M90
Fixed Wavelength Infrared Spectrophotometer	Foxboro	Miran1FF
Flashpoint Tester	Koehler	K-162
Fourier Transform Infrared Spectrophotometer	Analect	RFX-30
Muffle Furnace	Lindberg	51442/59344
pH Meter	Beckman	PHL-32
Recirculating Bath	Lauda	RM90
Rotary Evaporator	Buchi	RE111
Sonic Disruptor	Tekmar	TM500
Turbo Evaporator	Zymark	ZW640-3R
Turbo Evaporator	Zymark	ZW640-1
Waterbath	Buchi	B-461

Table 7-2
Colton Laboratory Instrumentation

Equipment List
Del Mar Analytical, Colton

ITEM	BRAND	MODEL
Atomic Absorption Spectrophotometer	Perkin Elmer	Flame: 2380
Atomic Absorption Spectrophotometer	Perkin Elmer	Furnace: HGA220
Atomic Absorption Spectrophotometer	Perkin Elmer	Hydride: MHS-10
Ion Chromatograph	Wescan	
Inductively Coupled Plasma Spectrophotometer	Baird	ICP-2000
Spectrophotometer	Milton Roy	Spectronic-20D
pH Meter	Beckman	PH41
Fixed Wavelength Infrared Spectrophotometer	Foxboro	Miran1FF
Flashpoint Tester	Herzog	Tag Closed Cup
Sonicator	Fisher Scientific	50
Nephelometer	HF Instruments	DRT100B
Conductivity Meter	YSI	35
Rotator	Millipore	
Balance #1	American Scientific Products	S/P 180
Balance #2	Sartorius	PT-600-OUR
Balance #3	Sartorius	PT-600-00VI
Vortex	Baxter Scientific	SuperMixer2
Centrifuge	International Equipment	HN
Zero Headspace Extract	Gelman Scientific	
Turbo Evaporator	Zymark	ZW640-1
High Performance Liquid Chromatograph	Hewlett Packard	HPLC 1050
Ultra Violet Detector	Hewlett Packard	
Fluorescence Detector	Hewlett Packard	1046A

Table 7-2 (continued)

Equipment List
Del Mar Analytical, Colton

ITEM	BRAND	MODEL
Auto Sampler		
Pickering Reaction Module		
Gas Chromatograph #1	Hewlett Packard	5890
Purge & Trap Concentrator #1	Tekmar	LSC2000
Auto Sampler #1	Tekmar	ALS2016
Gas Chromatograph #2	Hewlett Packard	5890 Series II
Auto Sampler #2	Hewlett Packard	
Gas Chromatograph #3	Hewlett Packard	5890 Series II
Purge & Trap Concentrator	O.I. Analytical	MPM16
Purge & Trap Concentrator #3		4460A
Gas Chromatograph #4	Hewlett Packard	5890 Series II
Auto Sampler #4	Hewlett Packard	7673
Gas Chromatograph #5	Hewlett Packard	5890
Gas Chromatograph/Mass Spectrometer	Varian	3400
Purge & Trap Concentrator	Tekmar	LSC2000
Auto Sampler	Tekmar	ALS2016
Mass Spectrophotometer	Finnigan	INCOS50
Auto Sampler	Finnigan	A200S

Table 7-3
Van Nuys Laboratory Instrumentation

Equipment List
Del Mar Analytical, Van Nuys

ITEM	BRAND	MODEL
Gas Chromatograph #1	Hewlett Packard	5890
Controller	HNU	PI-52
Auto Sampler #1	O.I. Analytical	MPM-16
Link #1	Perkin Elmer Nelson	900 Series
Purge & Trap Concentrator	O.I. Analytical	4560
Gas Chromatograph #4	Hewlett Packard	5890 Series II
Auto Sampler #4	O.I. Analytical	MPM-16
Purge & Trap Concentrator	O.I. Analytical	4460A
Link #2	Perkin Elmer Nelson	600 Series
Gas Chromatograph #2	Hewlett Packard	5890 Series II
Auto Sampler #2	O.I. Analytical	MPM-16
Purge & Trap Concentrator	O.I. Analytical	4560
Lamp Power #1	O.I. Analytical	4430
Lamp Power #2	O.I. Analytical	4430
Integrator	Hewlett Packard	3396A
Gas Chromatograph #3	Hewlett Packard	5890 Series II
Auto Sampler #3A	Hewlett Packard	7673
Auto Sampler #3B	Hewlett Packard	7673
Link #3	Perkin Elmer Nelson	600 Series
Controller	Hewlett Packard	7673
Centrifuge	Fisher Scientific	Turbo
Mult. Probe	Jenco	6071
Fixed Infrared Spectrometer	Foxboro	Miran1FF
Turbo Evaporator	Zymark	Turbo II

Table 7-3 (continued)

Equipment List
Del Mar Analytical, Van Nuys

ITEM	BRAND	MODEL
Vortex	Baxter Scientific	S8223-1
Orbiter	Lab-Line	Constant
Balance #1	Sartorius	Portable
Balance #2	Sartorius	Handy

Table 7-4
Tempe Laboratory Instrumentation

Equipment List

Del Mar Analytical, Tempe

ITEM	BRAND	MODEL
Gas Chromatograph #1	Hewlett Packard	5890
Gas Chromatograph #2	Hewlett Packard	5890
Purge & Trap Concentrator	O.I. Analytical	MPM-16
Auto Sampler #2	Hewlett Packard	7573
Purge & Trap Concentrator	Zymark	Turbovap
Balance	Mettler	AE260
Fixe Wavelength Infrared Spectrophotometer	Horiba	OCMA220
Gas Chromatograph #1	Perkin Elmer	8500
Sample Concentrator	Various	
Gas Chromatograph #2	Hewlett Packard	5890 II
Purge & Trap Concentrator	O.I. Analytical	4460A
Auto Sampler	O.I. Analytical	MPM-16
Sonicator	Sonics & Materials	VC600-2
Ultrasonic Bath	Brasonic	5200
pH Meter	Orion	501
Conductivity Meter	YSI	35
Hot Plate	VWR Scientific	Dylatherm
Hot Plate	Fisher Scientific	200T
Mechanical Shaker	Lab-Line	3506
Gas Chromatograph #3	Hewlett Packard	5890
Fixed Wavelength Infrared Spectrophotometer	Horiba	OMCA220
Purge & Trap Concentrator	Tekmar	2000
Auto Sampler	Tekmar	2016

8.0 SAMPLING

Sampling is an important part of any analysis. The result may be only as useful as the quality of the sampling effort. While the majority of Del Mar Analytical's clients assume the responsibility for developing and implementing a sampling plan. Del Mar Analytical is capable of a variety of field sampling procedures.

8.1 SAMPLING CONTAINERS AND PRESERVATION

Containers are purchased in large lots from various commercial sources and are equivalent, in terms of construction materials and cleaning protocols, to those listed in the Federal Register, October 26, 1984 and SW-846 Revision 1 December 1987. Containers are prepared in a designated area, labelled with a sample label which indicates the added preservative and then stored. Samples brought to Del Mar Analytical by clients who have done their own sampling, are appropriately preserved and stored in refrigerators upon arrival. Preparation of containers is done by technicians relying on Standard Operating Procedures for Bottle Preservation. Bottles for organics analyses are purchased from suppliers who certify the containers to have been cleaned by protocols as prescribed in the EPA methods for organics analyses. As part of the analytical process, sample containers are provided to clients with the appropriate preservatives free of charge. A sample container and preservative guide can be found in Table 8-1.

8.2 SAMPLE COLLECTION

Del Mar Analytical technicians collect samples under the direction of the client or the regulating authority. There are standard operating procedures for sampling of monitoring wells, 24-hour automatic composite sampling, bacteriological sampling, and basic field parameters. Standard operating procedures include a list of all the equipment necessary to perform the sampling, detailed instructions about the use and calibration of the instruments and sampling procedures, as well as instructions on decontaminating the equipment and necessary field quality control measures. The field technician takes a copy of the standard operating procedures along with his field sampling data sheets as part of his reference materials.

Equipment is inspected before each use to ensure that it functions properly. Field instruments are calibrated in the laboratory before each sampling event. Appropriate sample containers, personal safety gear, sampling devices and temporary storage coolers are checked for cleanliness and proper working conditions before each use.

Table 8-1
Sample Container and Preservative Guide

SAMPLE CONTAINER AND PRESERVATIVE GUIDE

	METHOD	CONTAINER	VOLUME	PRESERVATIVE	HOLDING TIME
Volatile Organic Chemistry					
(VFH) Gasoline	8015 Mod./BLS-191	VOA-glass	2 40ml vials	Cool 4°C	7 days*/14 soil
(VFH) Gasoline/BTEX	8015 Mod./8020	VOA-glass	2 40ml vials	Cool 4°C	7 days*/14 soil
Halocarbons	601/8010	VOA-glass	2 40ml vials	Cool 4°C	14 days
Aromatics	602/8020	VOA-glass	2 40ml vials	Cool 4°C	7 days*/14 soil
Purgeables	624/8240/8260	VOA-glass	2 40ml vials	Cool 4°C	7 days*/14 soil
Trihalomethanes	502.2	VOA-glass	2 40ml vials	Cool 4°C	7 days*/14 soil
Volatile Organic Compounds	524.2	VOA-glass	2 40ml vials	Cool 4°C	7 days*/14 soil
* To extend the Holding Time to 14 days, prepare bottle with HCL to pH<2.					
Semi-Volatile Organic Chemistry					
(EFH) Diesel	8015 Mod./BLS-191	glass-amber	1L	Cool 4°C	7 days**/14 soil
EDB & DBCP	504	VOA-glass	3 40ml vials	Cool 4°C, HCl	28 days
Semi-Volatiles (BNAs)	625/8270	glass-amber	1L	Cool 4°C	7 days**/14 soil
Pesticides & PCBs	608/8080	glass-amber	1L	Cool 4°C	7 days**/14 soil
Phosphorous Pests.	614/622/8140	glass-amber	1L	Cool 4°C	7 days**/14 soil
Herbicides	615/8150	glass-amber	1L	Cool 4°C	7 days**/14 soil
Polynuclear Aromatics	8310	glass-amber	1L	Cool 4°C	7 days**/14 soil
Carbamate Pesticides	632	glass-amber	1L	Cool 4°C	7 days**
** Holding Times shown are days until extraction. Samples have a 40 day Holding Time after extraction.					
Organic Chemistry					
Total Organic Carbon	415.2/9060	VOA-glass	1 40ml vial	Cool 4°C, H_2SO_4 pH<2	28 days
Total Organic Halides (TOX)	9020	poly or glass	500ml	Cool 4°C, H_2SO_4 pH<2	28 days
Metal Analyses					
Mercury	245.2/7471	poly	500ml	HNO_3 to pH<2	28 days
Chromium VI	218.4/7196	poly	500ml	Cool 4°C	24 hours***
Organic Lead	CA DHS (LUFT)	glass-amber	1L	Cool 4°C	14 days
All Other Metals	200/6000/7000	poly	500ml	HNO_3 to pH<2	6 months
*** Indicates 24 hour Holding Time from extraction or sample preparation					

Table 8-1 (continued)

SAMPLE CONTAINER AND PRESERVATIVE GUIDE

	METHOD	CONTAINER	VOLUME	PRESERVATIVE	HOLDING TIME
Inorganic & Wet Chemistry					
Alkalinity	310.1	poly or glass	500ml	Cool 4°C	14 days
Ammonia (as N)	350.3	poly or glass	500ml	Cool 4°C, H_2SO_4 to pH<2	28 days
BOD	405.1	poly or glass	1L	Cool 4°C	48 hours
COD	410.4	poly or glass	500ml	Cool 4°C, H_2SO_4 to pH<2	28 days
Chloride	300.0	poly or glass	None	None	28 days
Chlorine Residual	330.5	poly or glass	200ml	None	Immediate
Cyanide	335.1/335.2/9010	poly or glass	1L	Cool 4°C, NaOH to pH>12****	14 days
Flashpoint	1010	poly or glass	100ml	Cool 4°C	NA
Fluoride	300.0/340.2	poly or glass	500ml	None	28 days
Hardness	SM2340B	poly or glass	500ml	HNO_3 or H_2SO_4 to pH<2	6 months
MBAS (Surfactants)	425.1	poly or glass	500ml	Cool 4°C	48 hours
Nitrate or Nitrite	300.0	poly or glass	500ml	Cool 4°C	48 hours
Oil & Grease	413.1/413.2	glass-amber	1L	Cool 4°C, HCl to pH<2	28 days
Ortho Phosphate	300.0	poly or glass	100ml	Cool 4°C, Filter	48 hours
Phenols	420.1	glass-amber	1L	Cool 4°C, H_2SO_4 to pH<2	28 days
Phosphorous	365.2	poly or glass	500ml	Cool 4°C, H_2SO_4 to pH<2	28 days
pH	150.1	poly or glass	500ml	None	Immediate
Solids (TDS.TSS.TS)	160.1/160.2/160.3	poly or glass	1L	Cool 4°C	7 days
Specific Conductance	120.1	poly or glass	500ml	Cool 4°C	28 days
Specific Gravity	SM2710F	poly or glass	500ml	None	NA
Sulfate	300.0	poly or glass	500ml	Cool 4°C	28 days
Sulfide	376.2	poly or glass	500ml	Cool 4°C, Zn Acetate+NaOH pH>9	7 days
Surfactants or MBAS	425.1	poly or glass	500ml	Cool 4°C	48 hours
TKN	351.4	poly or glass	500ml	Cool 4°C, H_2SO_4 to pH<2	28 days
TOC	415.2	VOA-glass	40ml	Cool 4°C, H_2SO_4 to pH<2	28 days
TRPH	418.1/BLS-181	glass-amber	1L	Cool 4°C, HCl to pH<2	28 days
Turbidity	180.1	poly or glass	100ml	Cool 4°C	48 hours
Microbiological Chemistry					
Bioassay (Effluent)	600/4-85/01	poly or glass	10 Gallons	Cool 4°C	36 hours
Bioassay (Haz. Waste)	Title 22/26	poly or glass	1L†	Cool 4°C	36 hours

**** If chlorinated, add 0.6g Ascorbic Acid † For soil or hazardous waste samples, at least 500g are needed.

Soil samples are typically collected in brass tubes and wide mouth jars (4 oz. and 9 oz. are available).

After collection, the samples are placed in a cooler with blue ice and temporarily stored until returned to the laboratory. When requested, a trip blank is prepared before sampling and accompanies the containers out to the sampling site and back to the laboratory in the same cooler.

9.0 CHAIN OF CUSTODY

The chain-of-custody form is the written documented history of any sample. This form is completed at the site by the sampling personnel and accompanies the samples to the laboratory where it is received and stored under the laboratory's custody. The purpose of the chain-of-custody form is to provide a legal written record of the handling of samples from the time of collection until they are received at the laboratory. An example of Del Mar Analytical Analytical's chain-of-custody form may be found in Figure 9-1.

9.1 FIELD DOCUMENTATION

At the sampling site, each sample is labelled with the client's sample identification, the date and time of sampling, the name of the client, the name of the sampler, and any other pertinent information. During the sampling process, the chain-of-custody form is completed with the address and phone number of the client, the analyses requested, the containers and preservatives used, and the sampling date and time. The samples are stored in a cooler with blue ice and remain solely in the possession of the field technician until the samples are returned to the laboratory. The field technician relinquishes the samples in writing on the chain-of-custody form to the sample control personnel.

9.2 LABORATORY RECEIPT DOCUMENTATION

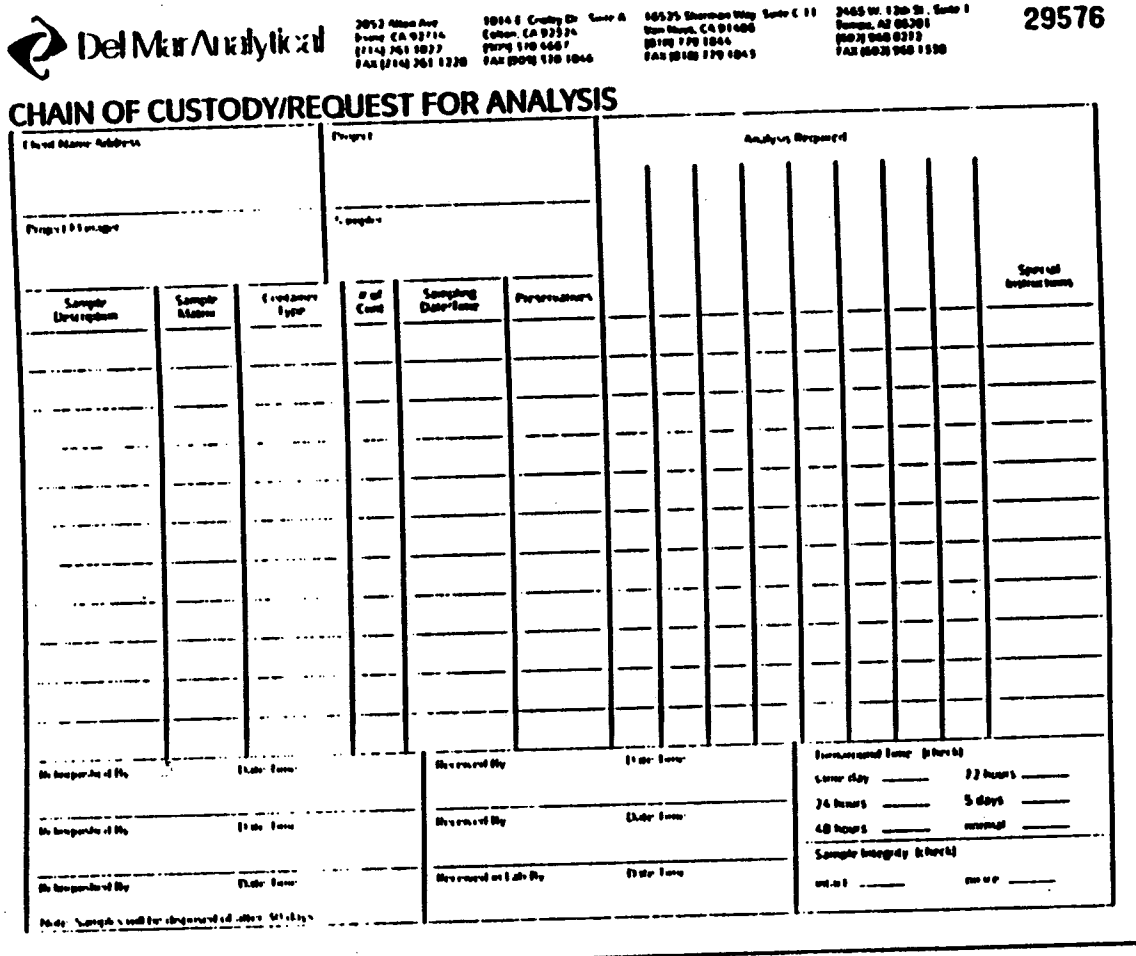
When the samples are received at the laboratory, Sample Control personnel check to ensure that all samples listed on the chain-of-custody are present and in acceptable condition. After inspecting the samples, the sample control personnel sign and date the Chain-of-Custody form, make any necessary notes of the samples' conditions (see section 9.3) and store them in appropriate refrigerators.

If samples are received without a chain-of-custody form, Del Mar Analytical will provide a generic chain-of-custody form to be completed by the client when the samples are brought to the laboratory. The client is always provided with a copy of the completed chain-of-custody form for his or her records.

9.3 SAMPLE INTEGRITY DOCUMENTATION

Sample Control personnel check all samples to ensure that method criteria are met. This criteria includes sample volumes, sample containers, preservatives, temperature, and presence of headspace. If analyses with short holding times are required, the dates are inspected to ensure that holding times have not been already violated.

Figure 9-1
Chain-of-Custody Form



Del Mar Analytical

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CHAIN OF CUSTODY/REQUEST FOR ANALYSIS

Sample Control personnel are also responsible for the compositing of samples and splitting of samples which have multiple analyses or subcontracted analyses requested. These parameters are documented on the form shown in Figure 9-2. Problems with sample integrity or paperwork inconsistencies are reported to the Project Manager for corrective action.

9.4 SAMPLE LOG-IN

Upon receipt at Del Mar Analytical, each sample is given a unique sample number and stored appropriately in matrix specific refrigerators. Separate refrigerators exist for drinking water samples and volatile samples. Each of these unique sample numbers are entered in a Laboratory Information Management System (LIMS) along with the client's name, the project name, the analyses requested, the turnaround status, the due date and any specific instructions regarding detection limits, hazardous materials, QC, or other pertinent information. The LIM system cross references the information in a variety of formats. Each Analyst can print out his or her own work list at any time. Furthermore, the Project Managers have access to the same information.

9.5 SAMPLE STORAGE

From the time of receipt until all analyses are complete, samples are stored in matrix specific refrigerators. Analysts and technicians retrieve the sample container allocated to their analysis from the designated refrigerator, analyze the sample, and return the remaining sample or empty container to the refrigerator from which it originally came. All samples are kept in the refrigerators for four weeks, which meets or exceeds most sample holding times. After four weeks the samples are moved to a dry sample archive area where they are stored for four additional weeks before they are disposed. This eight week holding period allows samples to be checked if a discrepancy or question arises. Upon request, samples may be stored in excess of six months at the laboratory. This extended holding period allows additional metal analyses to be performed on the archived sample and assists clients in dealing with legal matters or regulatory issues.

9.6 HAZARDOUS SAMPLES

To minimize exposure to personnel and to avoid potential accidents, hazardous samples are stored in an isolated area designated for hazardous waste only. Hazardous samples are divided according to hazard, and labelled with a strip of red sticker on the container. After analysis, the level of the contaminant is written on the red sticker and on a Hazardous Sample Notice form like the one presented in Figure 9-3. All hazardous samples are either returned to the client or disposed of appropriately through a hazardous waste disposal firm that lab-packs all hazardous samples and removes them from the laboratory.

Figure 9-2
Sample Receipt Form

SAMPLE RECIEPT FORM

CLIENT NAME:_____ PROJECT:_____ DATE:_____

DMA PROJECT MANAGER:_____ RECEIVED BY:_____

Check the Appropriate Response(s):	SAMPLE DESCRIPTION	SAMPLE I.D. #	REMARKS: (CONDITION, ETC.)
____ Custody Seals Broken			
____ Absent Chain of Custody			
____ Absent Sample Labels			
____ Sample Labels not Listed on C.O.C.			
____ Sample Labels do not Correspond with C.O.C.			
____ Sample has Headspace			
____ Sample is Leaking			
____ Sample is Broken			
____ Collection Dates not Listed on C.O.C.			
____ Collection Dates do not Correspond With C.O. C			
____ Improper Sample Container			
____ Insufficient Amount of Sample			
____ Improper Preservatives Used			
____ Expired Holding Time			
____ Other			

Figure 9-3
Hazardous Sample Notice

HAZARDOUS SAMPLE NOTICE

DATE:_____

LOG#:_____

CLIENT:_____

PROJECT:_____

___ SAMPLE POTENTIALLY HAZARDOUS

___ SAMPLE HAZARDOUS

SAMPLE ID	SAMPLE DESCRIPTION	HAZARD: COMPOUND & RESULT

These samples need to be tagged and separated accordingly.

Initials:_____

9.7 SAMPLE SHIPPING

In the event that Del Mar Analytical needs to ship samples, the samples are placed in a cooler with enough blue ice to ensure the that the samples remain at 4°C. The samples are carefully surrounded by packing material to avoid breakage, and a trip blank is enclosed for those samples requiring volatile organic analyses. The chain-of-custody form is signed by the courier and attached to the shipping paperwork. Samples are generally shipped overnight express or hand-delivered by a Del Mar Analytical courier to maintain sample integrity. Del Mar Analytical staffs full-time couriers at each facility. These couriers are trained to maintain the proper chain-of-custody documentation and to keep the samples intact and on ice. Courier service is provided free of charge.

10.0 ANALYTICAL METHODS AND STANDARD OPERATING PROCEDURES

Del Mar Analytical adheres to the test methods as prescribed in EPA SW-846 Revision 1, 1987 for the majority of its analytical procedures. Other method references may include the EPA Methods for Organic Chemical Analysis of Municipal and Industrial Wastewater (EPA 600 Series), EPA Methods for the Determination of Organic Compounds in Drinking Water (EPA 500 Series), California Title 22 Code, California AB 1803, Code of Federal Regulations 40, Luft Manual and Standard Methods, 18th Edition, 1992. Some of these methods have been modified and documented in the standard operating procedures used by Del Mar Analytical. It is our policy to modify methods only when the modification has shown to increase the efficiency and/or accuracy of the method without affecting the quality control. Any modification is tested to determine viability, and is only used after being approved by the Quality Assurance Officer. Major modifications are approved by all agencies governing the certification of Del Mar Analytical before being implemented.

Standard operating procedures are created for use as a reference for Analysts, and for documenting modifications to established methods. When approved, all standard operating procedures are signed and dated by the Quality Assurance Officer or Department Supervisor. All standard operating procedures are written in a standard format to maintain consistency. Any time a standard operating procedure is amended a new revision is issued with the new date it becomes effective. Table 10-1 is a directory of standard operating procedures for laboratory and clerical personnel.

Table 10-1
Standard Operating Procedures Directory

STANDARD OPERATING PROCEDURES DIRECTORY

STANDARD OPERATING PROCEDURES FOR LABORATORY PERSONNEL

EXTRACTION PROCEDURES

EPA Method 504, EDB & DBCP
EPA Method 608, Pesticides and PCBs in Water
EPA Method 615, Herbicides in Water
EPA Method 625, Semi-Volatile Organic Compounds; Continuous Extraction
EPA Method 625, Separatory Funnel Extraction
EPA Method 8015, Diesel Extraction
EPA Method 8015, Diesel in Water
EPA Method 8015, Jet Fuel Extraction
EPA Method 8080, Florisill Clean-up
EPA Method 8080, Pesticides and PCBs in Soil
EPA Method 8150, Herbicides
EPA Method 8270, Semi-Volatile Organic Compounds Extraction

METHOD EXCEPTIONS

EPA Method 160.1, Total Dissolved Solids
EPA Method 160.2, Total Suspended Solids
EPA Method 160.5, Settleable Solids
EPA Method 300, The determination of inorganic anions in water by Ion Chromatography
EPA Method 418 Modified soil, Total Recoverable Petroleum for SCL 418 Hydrocarbons (Soil)
EPA Method 418 Water, Total Recoverable Petroleum Hydrocarbons (Water)
EPA Method 502.2, Volatile Organic Compounds
EPA Method 601 & 602, Halogenated Volatile Organics (601), Aromatic Volatile Organics (602)
EPA Method 602, Purgeable Aromatics
EPA Method 624, Purgeables
EPA Method 625, Base/Neutral and Acids, Semi-Volatiles by GC/MS
EPA Method 3060, Alkaline Digestion to determine the total conc. of hexavalent chromium in solid wastes
EPA Method 7196, Hexavalent Chromium (Colorimetric Method)
EPA Method 7470, Mercury in liquid waste (Manual cold vapor technique)
EPA Method 7471, Mercury in solid waste (Manual cold vapor technique)
EPA Method 8000, SW-846 Quality Control: Organics
EPA Method 8010/8020, Halogenated Volatile Organics (8010), Aromatic Volatile Organics (8020)
EPA Method 8015 Modified for DHS LUFT Manual, Non-Halogenated Volatile Organics (Modified for TPH as gasoline)
EPA Method 8015 Modified for DHS LUFT Manual, Total Petroleum Hydrocarbons as Diesel

Table 10-1 (continued)

STANDARD OPERATING PROCEDURES DIRECTORY (Continued)

METHOD EXCEPTIONS (Continued)

EPA Method 8015 Modified for DHS LUFT Manual, Total Petroleum Hydrocarbons Jet Fuel
EPA Method 8020, Aromatic Volatile Organics
EPA Method 8080, Organochlorine Pesticides and PCB's
EPA Method 8240, GC/MS for Volatile Organics
EPA Method 8270, GC/MS for Semi-Volatile Organics (Capillary Column)

MISCELLANEOUS

ASTM D-1946-90, Standard Practice for the Analysis of Reformed Gas by G.C.
Bottle Preservation
EPA Method 415.1, Total Organic Carbon
EPA Method 6010, ICP Metal Analyses
EPA Method 8010/8020 & 601/602, Halogenated Volatile Organics (Supplement)
EPA Method 8015 Modified, Alcohol Scan by GC/FID
EPA Method 8015 Modified Air, Gas/BTEX by G.C. (based on EPA mod-8015/8020)
Glassware Cleaning
Ion Chromatographic Method for Determination of Sulfur
Laboratory Waste Disposal
Purge Water Preparation
Reagent Preparation
Sample Control
Sample Control Training Manual
Sample Result Reporting
Sample Weighing
Significant Figures
Statistician
SW-846 Method 9060, Total Organic Carbon

STANDARD OPERATING PROCEDURES FOR CLERICAL PERSONNEL

Courier
Data Processor
Project Management
Purchasing Agent
Report Processor

11.0 ANALYTICAL QUALITY CONTROL

Quality control measurements verify the integrity of the analytical results. While the goal of all quality control procedures remains constant, specific quality control procedures vary from method to method, and to some extent, with matrix type. Every Analyst is responsible for a thorough understanding of the goals of each quality control measurement and the control analyses as required per method. The Analyst is also responsible for the documentation of all quality control measurements associated with a particular method. All documentation is kept on file and securely stored for a minimum of ten years.

Del Mar Analytical adheres to the quality control procedures as prescribed in EPA SW-846 Chapter 1, Revision 1, 1992 for the majority of its analytical procedures. For projects which require a more in-depth validation of the data, Del Mar Analytical can provide different levels of documentation. For special regulatory or legal defensibility issues, custom data packages can be prepared.

11.1 CALIBRATION

Calibration of analytical instrumentation is essential to the production of quality data. Strict calibration procedures are followed for each method. These procedures are designed to determine and document the detection limits, the working range of the analytical instrumentation and any fluctuations which occur from day to day.

11.1.1 CALIBRATION FOR ORGANIC ANALYSES

EPA Method 8000, from EPA SW-846, Revision 1, December 1987, is a general introduction to the quality control requirements for gas chromatography analyses. Del Mar Analytical follows the quality control measures of EPA Method 8000 for all organic analyses as well as any additional measures required by specific EPA methods. Standard operating procedures for analytical methods and all quality control documentation measures are kept in the Analysts' notebooks and reference binders.

The majority of organic instrumentation is calibrated with internal standards. Because of the complex nature of the multipeak chromatograms produced by the method, some instruments necessitate the use of external standard calibration. Surrogate compounds are included in the calibration processes for all appropriate organic analyses.

Initially, each instrument is calibrated for the appropriate method. Once the operating parameters have been established according to the method, the Analyst prepares five or more standard solutions containing all the analytes of interest, internal standards, and surrogates that are appropriate for the method. These standard solutions are prepared at five different concentrations. One of the concentrations is at, or just above, the detection limit, and the other four should define the linear range for the instrument. All of the standard solutions are prepared using volumetric glassware and the highest quality solvents and stock standards commercially available. Volatile analyses are calibrated approximately every four weeks, or as necessary to maintain accurate calibration. Semi-volatile analyses are calibrated every six to eight weeks, or as necessary to maintain accurate calibration.

Standards for instrument calibration are obtained from a variety of sources. Dilution standards are prepared from stock standards purchased from commercial suppliers. Any stock standard purchased "neat" (>96% pure) is diluted by weight on an analytical balance using volumetric glassware. A standard log is maintained for each department, containing concentration, date of receipt, date of standard preparation, any dilutions made, lot number, supplier, type of solvent and a unique code number to identify the standard. A standard log is presented in Figure 11-1.

The five standard solutions are introduced into the instrument in the same manner as the sample extract whether it be by direct injection, by headspace analysis, or by purge and trap. The calibration factor (CF) for methods that use external standards, and the response factor (RF) for methods that use internal standards are calculated for the five standards. Calibration Factors and Response Factors for each analyte are calculated as follows:

$$\text{Calibration Factor} = \frac{\text{Total Area of Peak}}{\text{Concentration of Analyte}}$$

$$\text{Response Factor} = \frac{(\text{Area of Analyte})(\text{Conc. of Internal Standard})}{(\text{Area of Internal Standard})(\text{Conc. of Analyte})}$$

The CF or RF for each analyte at each concentration is tabulated to determine the graphical linearity of concentration versus response factor or calibration factor. The five CFs or RFs for each analyte must have a % Relative Standard Deviation (% RSD) of less than 20% for the GC methods and less than 30% for volatile GC/MS methods. The % Relative Standard Deviation is calculated as follows:

$$\%RSD = (SD/x) \times 100$$

Figure 11-1
Standard Log

ANALYST	DATE MADE	COMP.	DATE OPENED	SOURCE	LOT #	INITIAL CONC.	VOLUME DILUTED	FINAL VOLUME	MEOH LOT#	FINAL CONC	DMA CODE #	DATE DISPOSED	COMMENTS

Where

SD = Standard Deviation of initial 5 CFs or RFs for each compound calculated as follows:

$$SD=\sqrt{\frac{1}{n-1}\left[\sum_{i=1}^{n} x_i^2-\frac{\left(\sum_{i=1}^{n} x_i\right)^2}{n}\right]}$$

and

x = Mean of initial 5 CFs or RFs for each compound.

Alternatively, the least squares method may be used to determine linearity. A five point line must result in .999 or better using the least squares method to be considered linear. The CFs or RFs for each compound are calculated and kept in the Analysts' files.

The validity of the calibration curve must be checked daily for each instrument and more frequently for instruments with particularly sensitive detectors. The Analyst prepares a daily calibration check standard solution in the same manner as the initial calibration standard solution. The concentration of the daily calibration check standard is near the middle of the instrument's linear range. It is, therefore, sometimes referred to as a midpoint standard. If the calibration check standard differs from the calibration curve by more than 15% for the GC methods, 25% for the volatile GC/MS methods or 30% for the semi-volatile GC/MS methods, then the Analyst must take corrective action before samples are analyzed. The percent difference is calculated as follows:

$$\%\ \text{Difference}=\frac{(\text{Average CF or RF})-(\text{Calibration Check CF or RF})\ X\ 100}{(\text{Average CF or RF})}$$

The initial calibration curve is further verified by the use of a Laboratory Control Sample (LCS). The LCS is a standard from either a different lot number from the same supplier as the calibration standard or a different supplier altogether. The LCS is prepared and analyzed in the same manner as a sample for the same analysis. The LCS result is calculated and compared to the true value of the LCS. The percent difference (% D) between the result and true value is calculated as follows:

$$\%\ \text{Difference}=\frac{\text{True Value}-\text{Result}\ X\ 100}{\text{True Value}}$$

The acceptance limits for LCS are different for each method. In each method of EPA SW-846, Revision 1, 1992, tables of QA/QC criteria indicate method acceptance limits which may be applied to the LCS. Del Mar Analytical uses these tables as guidelines for LCS acceptance limits. In addition, LCS Control charts are maintained as well. These control Charts track the recovery of the LCS over time. Warning limits are set at two times the standard deviation of the mean recovery and control limits are set at three times the standard deviation of the mean recovery.

Some methods have prescribed limits for the CF, RF, % RSD and % Difference that may differ from the limits in EPA Method 8000. It should be noted that individual method specifications would take precedence over general procedures. In addition, there may be calibration procedures prescribed in the method, like GC/MS tuning with BFB (4,4-bromofluorobenzene) or DFTPP (decafluorotriphenylphosphine), which are not described here in detail but are described in detail in the standard operating procedures for the method.

11.1.2 CALIBRATION FOR INORGANIC ANALYSES

EPA Method 7000 from EPA SW-846, Revision 1, December 1992, is a general introduction to the quality control requirements for metal analyses. Del Mar Analytical follows the quality control measures established in EPA 7000 for metal analyses. Quality control measures for other inorganic and wet chemistry methods are set out in the individual methods of SW-486, 1992, and in Standard Methods for the Examination of Water and Wastewater" 18th Edition 1992 and Methods for Chemical Analysis of Water and Wastes, 1983. Standard operating procedures for the analysis and the quality control documentation measures are kept in the Analysts' files and reference binders.

The majority of inorganic instrumentation is calibrated with external standards, with the exception of the ICP spectrophotometer for metal analyses which is calibrated with the internal standard, yttrium. The calibration procedures and calculations for inorganics are similar to those of organics. Please refer to section 11.1.1.

11.2 RETENTION TIME WINDOWS

Most organic analyses use gas chromatography or liquid chromatography techniques; some inorganic analyses use liquid chromatography technique as well. For every chromatography analysis, each analyte will have a specific time of elution from the column to the detector. This is known as the analytes's retention time. The variance in the expected time of elution is defined as the retention time window. As the key to analyte identification in chromatography, retention time windows must be established on every column for every analyte

used for that method. These records are kept with the files associated with an instrument for later quantitation of the analytes.

Once the Analyst has determined that the instrument is in optimum working condition through calibration and calibration verification procedures, then he or she uses a mid-range calibration standard to establish the retention times for each of the individual analytes in a method. The Analyst makes three injections of the same standard over a 72-hour period, tabulating the retention times for each analyte for each of the three injections. The Standard Deviation of the three values for each analyte is calculated as follows:

$$Standard\ Deviation = \sqrt{\frac{1}{n-1}\left[\sum_{i=1}^{n} x_i^2 - \frac{\left(\sum_{i=1}^{n} x_i\right)^2}{n}\right]}$$

The retention time window is defined as the average retention time ± 3 Standard Deviations. Alternatively, the Analyst may use the computer software to determine the retention time windows. Both the Perkin Elmer Nelson Turbochrom software and the Hewlett Packard ChemStation software are capable of setting the retention time windows for the Analyst. Using multiple injections of a standard as described, the Analyst may configure the software to determine the retention time window. A peak outside of the retention time window will not be reported as a positive identification by the computer.

11.3 QUANTITATION

Organic analytes analyzed by gas chromatography are identified by comparing retention times of the sample and the standard. Most EPA Methods require that each analyte be confirmed on a second column, one with a different chemistry than the first column. Sample quantitation procedures are outlined in each method depending on the type of calibration used for the method. All calculations and instrumentation parameters are documented in the Analysts' notebooks.

Similarly, inorganic analytes are identified and quantitated by comparing the response of the analyte to the response of the standard. Confirmation is not always possible, although some methods, like metal analyses, allow for a secondary check under a different set of instrument operation parameters. Again, all calculation and instrument operating parameters are recorded in the Analysts' notebooks.

11.4 DETECTION LIMIT VERIFICATION

Method detection limits (MDL) are determined in accordance with 40 CFR 136. The MDL represents the concentration level for each analyte within a method at which the Analyst is 99% confident that the value is not zero. The detection limit is determined for each analyte on an annual basis. The Analyst prepares seven replicates of solution spiked at one to five times the reported detection limit with all the analytes of interest. Each of these aliquots is extracted and analyzed in the same manner as the samples. The standard Deviation (SD) of the replicates is calculated as follows:

$$SD=\sqrt{\frac{1}{n-1}\left[\sum_{i=1}^{n} x_i^2-\frac{\left(\sum_{i=1}^{n} x_i\right)^2}{n}\right]}$$

The detection limit is calculated as follows:

$$Detection\ Limit = t_{(n-1,1-\alpha=0.99)} \times Standard\ Deviation$$

where

$$t_{(n-1,1-\alpha=0.99)} = 3.143 \text{ for seven replicates.}$$

40 CFR 136 requires the analysis of seven replicates on one day only. Del Mar Analytical may choose to repeat the analyses on three non-consecutive days to account for any variances which may occur over time.

11.5 EQUIPMENT MAINTENANCE

Del Mar Analytical is dedicated to providing its clients with state-of-the-art technology. Instrumentation is purchased on the basis of accuracy, dependability, efficiency and sensitivity.

All instruments have log books in which adjustments, calibrations, routine maintenance, and any repairs are recorded. Service maintenance contracts are in place for many of the instruments for any major repairs. Most routine maintenance is performed by the Analyst or the Technical Manager. The highest quality gases, reagents and spare parts are kept on hand to minimize repair time and optimize instrument performance. By training staff to service their own instruments, preventative maintenance is performed more often thereby keeping the

instruments running better, reducing down-time and preventing Del Mar Analytical from relying on and waiting for technical service from the instrument manufacturers.

Each entry in the instrument log book includes the Analyst's initials, the date, a detailed description of the problem, a detailed explanation of the solution, and a verification that the instrument is functioning properly.

11.6 QUALITY CONTROL

The analytical process is controlled not only by instrument calibration, but by quality control measurements of the labor intensive portions of the analysis as well. These processes involve measurements of blanks, surrogates, accuracy and precision. With every analytical batch, a method blank, Laboratory Control Samples (LCS), spike, spike duplicate and surrogates are analyzed to determine the quality of the analytical process per batch of environmental samples. See Table 11-1 for a summary of minimum QC sample requirements.

11.6.1 METHOD BLANK

The method blank must be free of contamination to determine that neither the extraction procedure nor the analytical instrument contributed to the over-estimation of analytes in the environmental samples. With the exception of a few compounds on certain analyses, the method blank should quantitate to a value of less than half the reported detection limit for the analytes of interest. The exceptions are noted in the standard operating procedures for those methods. If unacceptable contamination is present in the method blank, corrective action is taken. Corrective action includes inspecting of the instrument, glassware, syringes and solvents for possible sources of contamination. The Analyst may determine that re-extraction and re-analysis of the sample is necessary prior to reporting the data.

11.6.2 ACCURACY

In the laboratory, accuracy is measured as percent recovery. Accuracy measurements are performed every twenty samples or once every analytical batch per matrix type, whichever contains fewer samples. For each matrix, an environmental sample from the analytical batch is spiked twice with a known quantity of the analyte(s) and analyzed in the same manner as the rest of the analytical batch. These samples are referred to as the matrix spike and matrix spike duplicate (MS/MSD). The % recovery is calculated and documented in a QC Data Report like the one presented in Figure 11-2. Percent recovery is calculated as follows:

$$\% \text{ Recovery} = \frac{\text{(Conc. of Matrix Spike) - (Conc. of Sample)}}{\text{Spike Conc. Added}}$$

Table 11-1
Summary of Minimum Quality Control Requirements

Analysis Type	Method Blank	Laboratory Control Sample	Surrogate Spike	Internal Standard	Matrix Spike/ Matrix Spike Duplicate
Metals Analysis (ICP,GFAA,FAA)	Every Analytical Batch			Every Sample (ICP only)	Once per Analytical Batch
Nonmetallic Inorganic Analyses (IC, Cyanide, other Colorimetric Methods)	Every Analytical Batch	Every Analytical Batch			Once per Analytical Batch
Organic Analysis (TRPH, TOC)	Every Analytical Batch	Every Analytical Batch			Once per Analytical Batch
GC Analyses	Every Analytical Batch	Every Analytical Batch	Every Sample (Only if required by the method)	Every Sample (Only if required by the method)	Once per Analytical Batch
GC/MS Analyses	Every Analytical Batch	Every Analytical Batch	Every Sample	Every Sample	Once per Analytical Batch

Figure 11-2
Quality Control Data Report

QC DATA REPORT

EPA METHOD: 8015 volatile
Matrix: Water

DATE: 6/13/94

SAMPLE # DF01202

Analyte	R1	Sp	MS	MSD	PR1	PR2	RPD	MEAN PR
	ppb	ppb	ppb	ppb	%	%	%	%
Hydrocarbons	2.8	110	120	120	107%	107%	0.0%	107%

Definition of Terms:

R1..... Result of Sample Analysis

Sp..... Spike Concentration Added to Sample

MS..... Matrix Spike Result

MSD..... Matrix Spike Duplicate Result

PR1..... Percent Recovery of MS: ((MS-R1) / SP) X 100

PR2..... Percent Recovery of MSD: ((MSD-R1) / SP) X 100

RPD..... Relative Percent Difference: ((MS-MSD)/(MS+MSD)/2)) X 100

Del Mar Analytical

The mean percent recovery is determined by calculating the average of the matrix spike and the matrix spike duplicate. The warning limits are defined as the average of the mean percent recovery of the most recent spike samples ± 2 standard deviations. Mean percent recovery results outside of the warning limits do not require corrective action unless a trend develops. A trend is defined as three consecutive results which are all above the upper warning limit or all below the lower warning limit.The % recovery of an analyte in a spiked sample must fall within the control limits set for that analyte. The control limits are defined as the average of the mean percent recovery of the most recent twenty spike samples ± 3 standard deviations. Mean percent recovery results outside of the control limits warrant immediate corrective action. Some methods, however, have preset acceptance limits, in which case the limits set by the method may be used. The standard deviation is calculated as follows:

$$Standard\ Deviation = \sqrt{\frac{1}{n-1}\left[\sum_{i=1}^{n} x_i^2 - \frac{\left(\sum_{i=1}^{n} x_i\right)^2}{n}\right]}$$

11.6.3 PRECISION

Precision is measured as the relative percent difference (RPD) between two values. Precision measurements are performed every twenty samples or once every analytical batch per matrix type, whichever contains fewer samples. Both the matrix spike (MS) and the matrix spike duplicate (MSD) are analyzed in the same manner as rest of the analytical batch. The relative % difference between the two spikes is calculated and documented. The relative % difference is calculated as follows:

$$\text{Relative \% difference} = \frac{\text{(Conc. of MS) - (Conc. of MSD)}}{\text{(Conc. of MS + Conc. of MSD)/2}}$$

The warning limits are defined as the average of the relative percent difference for the most recent twenty matrix spike/matrix spike duplicate pairs ± 2 standard deviations. Relative percent difference results outside of the warning limits do not require corrective action unless a trend develops. A trend is defined as three consecutive results outside of the warning limits. The relative % difference for a particular analyte must fall within the control limit established for that analyte. The control limits are defined as the average relative % difference for the most recent twenty matrix spike/matrix spike duplicate pairs ± 3 standard deviations. Relative percent difference results outside of the control limits warrant immediate corrective action. Some methods, however, have preset acceptance limits, in which case the limits set by the method may be used. The standard deviation is calculated in the same manner as the % recovery of the matrix spike.

11.6.4 QUALITY CONTROL DATA

The matrix spike (MS) and matrix spike duplicate(MSD) are reported by the Analyst on a daily basis. The QA/QC Assistant reviews the QA/QC data and then inputs the data into the computer. If the QA/QC Assistant finds any data that is suspected to be out of control, the QA/QC Officer is notified immediately. The QA/QC Officer then reviews the data and may take appropriate corrective action.

11.6.5 SURROGATES

In majority of organic analyses, surrogate compounds are spiked into all environmental samples, the method blank, matrix spike, and the matrix spike duplicate and act as a secondary check on accuracy. The percent recovery of the surrogate is documented, ensuring that all environmental samples have gone through the analytical process with acceptable uniformity. The control limits for surrogate recovery vary from analysis to analysis. Corrective action must be taken on any surrogate recovery outside of the control limit.

11.6.6 USE OF CONTROL CHARTS

Control charts like the one in Figure 11-3, are updated every twenty entries. The calculations from the latest twenty entries define the control limits until another control chart is established. As long as all the entries are within the control limits the analysis is considered acceptable. Because of the statistical nature of the control limits, it is assumed that one in every twenty entries will be outside the control limits. When this deviance occurs, the Analyst must check all calculations, all quality control measures, and verify that the sample preparation and analysis was performed accurately. If all the analytical measurements are verified as correct, then the deviation is attributed to matrix interference or statistical variances. However, any more than one entry outside the control limits requires a thorough examination of the entire analytical system to determine the source of the system error and to perform the corrective action. Any data belonging to the suspect entry's analytical batch should be reanalyzed.

11.7 MATERIALS

All commercially available materials purchased for use in the analytical process are of the highest purity and quality. These materials include all gases used for gas chromatography; all solvents, acids, and bases used in extraction or digestion, dilution, and standard preparation; stock standards; and any other routinely restocked items. On receipt of any of these items, the lot number from the manufacturer is recorded and the purity of the lot is established through a method blank and or a calibration check. Records are kept in appropriate departments.

Figure 11-3
Control Chart

Control Chart

Method 8015 modified
Matrix: Water

	Date	Sample #	Mean PR	RPD
1	6/1/94	DE02708	104%	0%
2	6/1/94	DE03357	89%	0.00%
3	6/2/94	Blank	97%	24.30%
4	6/2/94	DE03197	84%	4.08%
5	6/4/94	DE03172	102%	0.00%
6	6/6/94	DF00025	109%	0.00%
7	6/4/94	DE03197	100%	0.00%
8	6/6/94	DE03368	95%	8.70%
9	6/7/94	DE03373	93%	9.52%
10	6/8/94	Blank	105%	8.70%
11	6/7/94	DE03303	99%	8.70%
12	6/9/94	DF00107	92%	19.18%
13	6/8/94	DF00257	84%	0.00%
14	6/3/94	DE03356	103%	8.70%
15	6/3/94	DE03256	93%	8.70%
16	6/10/94	DF00833	96%	0.00%
17	6/12/94	Blank	109%	0.00%
18	6/10/94	DF00718	96%	8.70%
19	6/13/94	DF01202	107%	0.00%
20	6/9/94	DF00256	104%	8.00%

	Mean PR	RPD
AVERAGE OF MEAN PR OR RPD	97.92%	5.86%
STDEV X 2	14.98%	13.73%
STDEV X 3	22.47%	20.60%

11.8 GENERAL LABORATORY EQUIPMENT

Balances are checked weekly for accuracy using NBS P-class weights and once per month using NBS S-class weights. These checks are recorded in a log. For measurements which are out of range, the Laboratory Manager is immediately notified. Every year the balances are calibrated by a professional balance calibration company. Refrigerator temperatures are also checked daily and recorded in a log. If the temperature of any refrigerator is out of the acceptable range of 4°C ±2°C, the Laboratory Manager is immediately notified and the temperature is corrected or refrigerator repaired.

12.0 SELECTION OF SUBCONTRACT LABORATORIES

To continue providing the best possible service to its clients, Del Mar Analytical subcontracts to other laboratories analyses it is not certified to perform. These analyses include asbestos testing, bioassay toxicity testing, radioactivity testing, and microbiological testing. These laboratories are chosen based on many criteria: the laboratory's reputation, ability to meet turn-around-times, prices, service and Statement of Qualifications all go into the decision of which subcontract laboratory to use. All subcontracted laboratories must be California State Certified. If the work is performed under the jurisdiction of another state, the subcontract laboratory must be certified in that state. A subcontract laboratory is only used if it has been approved by the Laboratory Director. Whenever possible, analyses unable to be performed at Del Mar Analytical should be sent to its affiliated laboratories. Clients are informed verbally by the Project Manager when an analysis will be subcontracted to another laboratory. If a client does not give consent, every effort is made to satisfy the client. If necessary, samples are immediately returned to the client, and references are given to the client so that he or she can accomplish his or her goals.

13.0 CORRECTIVE ACTION AND COMPLAINT RESOLUTION

A Quality Control Program must have a corrective action implemented into every standard operating procedure. If the level of acceptance set by the methodology is not met, corrective action must be taken immediately. In accordance with EPA SW-846 Chapter 1, Revision 1, December 1992, the following steps are taken to maintain the integrity of the final data package:

1. Identification and definition of the problem;
2. Assignment of responsibility for investigating the problem;
3. Investigation and determination of the cause of the problem;
4. Determination of a corrective action to eliminate the problem;
5. Assigning and accepting responsibility for taking corrective action;
6. Implementing the corrective action and evaluating its effectiveness; and
7. Verifying that the corrective action has eliminated the problem.

These steps apply to any and all standard operating procedures at Del Mar Analytical. Notification of Corrective Action forms, like the one in Figure 13-1, are completed by the Analysts or Project Managers and copies are given to the Quality Assurance Officer for review and filing.

The process for complaint resolution follows the same steps taken with corrective action. If a client has a complaint, the Project Manager has the responsibility to resolve the problem. After a thorough investigation and discussions with the Analyst, Quality Assurance Officer, Laboratory Manager, Technical Manager and/or Laboratory Director, a solution or explanation is derived and recorded in a Corrective Action Report. An example of a Corrective Action Report is presented in Figure 13-2. Every attempt is made to resolve the complaint to the full satisfaction of the client.

Figure 13-1
Notification of Corrective Action Form

NOTIFICATION OF CORRECTIVE ACTION

Client: _____ Report/Sample #: _____

P/M: _____ Date: _____

FIELD SERVICES

- ☐ Pick-up / delivery missed
- ☐ Incorrect containers sent to client
- ☐ Complaint made by client
- ☐ Incorrect field sampling procedure
- ☐ Containers / supplies not delivered
- ☐ Other : _____

LOGIN / SAMPLE CONTROL

- ☐ Lost samples
- ☐ Samples not logged in properly
- ☐ Improper interpretation of C.O.C
- ☐ Samples delayed in login TAT _____
- ☐ Special remarks left out on Analysis Log Sheet
- ☐ Samples labeled incorrectly
- ☐ Other : _____

Date Rec'd _____ Date logged in _____

- ☐ L.U.F.T
- ☐ GC/MS
- ☐ PURGEABLES
- ☐ METALS DIGESTION
- ☐ METALS
- ☐ PESTICIDES
- ☐ INORGANIC
- ☐ ORGANIC EXTRACTION

- ☐ Hold time failure
- ☐ Missed analyses
- ☐ Calculation errors
- ☐ Data turned in without QC
- ☐ Failure to conform to methodology
- ☐ Transcription error
- ☐ Incorrect units were used
- ☐ Analytical interpretation error
- ☐ Fail to properly interpet C.O.C instructions / worklist
- ☐ Incorrect use of, or failure to use dilution factors
- ☐ Failure to report method used or detection limits
- ☐ Other : _____
- ☐ Sample number not checked against sample label
- ☐ Data turned in late despite anarytical results generated on time
- ☐ Failure to alert PM with problems which delay reporting of results
- ☐ Data is not consistent :

___ Results changed after review ___ Results are not consistent within the report

- ☐ MARKETING
- ☐ PROJECT MANAGEMENT

- ☐ Incorrect pricing
- ☐ Errors in Quotation
- ☐ Analytical capability promised that could not be delivered
- ☐ Follow up / status report not delivered to client as promised
- ☐ Dissatisfied client
- ☐ Other : _____

COMMENTS

_____

_____

_____

_____

_____

_____

_____

Figure 13-2
Corrective Action Report

CORRECTIVE ACTION REPORT

Department:	LUFT	Client:	XXX
Method:	EPA mod. 8015	Project:	XXX
Date:	3-17-94	Matrix:	Soil

Identification and Definition of Problem:

The a,a,a-trifluorotoluene surrogate used for the EPA mod. 8015 volatile analysis was outside of acceptance limits for samples ABC and XYZ.

Determination of the Cause of the Problem:

Although the sample results were less than 1000 ug/Kg, both samples contained hydrocarbons which coeluted with the surrogate. This coelution resulted in a larger area count for the surrogate peak and therefore, a higher recovery of the surrogate.

Corrective Action:

Since the gas chromatograph is not capable of separating the interfering hydrocarbons from the surrogate, no actions were taken. The surrogates and QA/QC for the other samples were within acceptance limits.

QA/QC Officer Signature: Debbi Ranck Date: 6-24-94

14.0 PERFORMANCE AUDITS

Del Mar Analytical participates in the following proficiency programs:

1. The EPA Water Pollution Study Audit Program
2. The EPA Water Supply
3. State of Arizona Department of Health Services
4. State of California Department of Health Services

The following licenses, accreditations and certifications are held by the Del Mar Analytical network:

1. A_2LA accreditation
2. State of Arizona DHS for hazardous waste testing and drinking water analyses
3. State of California DHS for hazardous waste testing and drinking water analyses

Each spring and fall quarter, Del Mar Analytical receives ampules from the EPA Performance Evaluation Program for the Water Supply and Water Pollution Studies. In addition, Del Mar Analytical analyzes samples annually for the Daily Monitoring Requirement Quality Assurance (DMR QA) program. These evaluations contain a variety of organic and inorganic analytes whose values are unknown to the laboratory. The analytes must be correctly identified and accurately quantitated. The results of these analyses are kept on file with the Quality Assurance Officer and are available upon request.

Clients are encouraged to submit quality control samples to Del Mar Analytical and on request, arrangements may be made to split samples and subcontract to another laboratory as a confirmatory check.

In addition, performance evaluation samples are administered to Analysts at random intervals. In order to assure that their performance is acceptable, new Analysts are administered check samples immediately after the training program.

15.0 INTERNAL AUDITS

An audit of the laboratory's quality system is conducted by the Internal Quality Assurance Auditor on a yearly basis. All areas of the laboratory are audited to ensure that all policies and procedures outlined in the quality manual are being implemented. Areas of the laboratory that are audited include, but are not limited to, purchasing, data processing/handling, project management, complaint resolution, and sample control. In addition, performance audits are done at random for every Analyst on a yearly basis. The Internal Quality Assurance Auditor reviews the Analyst's files, notebooks and raw data for documentation of all quality control measurements. Each Analyst maintains a series of quality control notebooks which contain sample results, calculations, calibration data, QA/QC recoveries and control charts, copies of corrective action reports, methodology, reagent preparation information, SOPs and method exceptions. Analysts must also have maintenance logs, adequate tools and supplies to keep instruments operational. The Analyst's data reporting procedures are reviewed to ensure that results are easily traceable. The quality system audits and performance audits are documented using checklists based on the most recent Standard Operating Procedure for each area of the laboratory. See Figure 15-1 for an example. During the audit, any problems and/or policy violations are documented by the Internal Quality Assurance Auditor in writing. It is the ultimate responsibility of the Quality Assurance Officer to ensure that corrective actions have been implemented to correct any problems found during an audit. If any audit findings cast doubt on the correctness or validity of test results or calibration, the client whose work may have been affected will be notified in writing immediately. Once corrective action is implemented, a follow-up is scheduled to ensure that the problem has been corrected. See Figure 15-2 for an example of the corrective action and follow-up report that is used for documentation.

Figure 15-1
Internal Quality Assurance Audit Checklist

INTERNAL QUALITY ASSURANCE AUDIT

DEPARTMENT: METALS

ANALYST: _____ **DATE:** _____

ITEM	ACCEPT.	COMMENTS
Housekeeping is adequate: area is kept clean and free of clutter.		
Instrument maintenance log is current.		
Current methods binder, including certificates, accessions and SOP is organized and readily accessible in the lab. Analyst knows location of and has read her or his methods.		
Analyst knows the location of current QA manual.		
Containers have appropriate labels, including waste bottles and waste containers.		
Date of receipt and of opening is written on the reagent and standard bottles.		
Date of expiration is written on the reagent and standard bottles.		
Chemicals are stored according to compatibility: acids, bases, oxidizers, solids and standards, etc. stored separately.		
Reagent log is properly filled out with the appropriate information.		
Instrument operating conditions are documented, i.e. analyte(s), Argon flow rate(s), calculations and formulas, primary and secondary wavelengths, units etc.		
Detection limits and dates established are documented.		
ICP instrument run logs are current and complete, including analyst's signature, client name, date, dilution/multiplication factor ID, instrument, labworks number and title on the cover.		
All entries are in ink and correction fluid is not used.		
Errors are corrected by lining out with a single line, initialing, and writing the full data.		
Blank pages are marked out with a "Z" and with analyst's signature.		
Corrective action forms are prepared when necessary.		
Personal protective equipment is used properly i.e. labcoats and gloves are always worn, and goggles are always worn when working under the hood or handling acids.		
Calibration is done daily (midpoint), upon method change, or when control limits of 85 - 115 % for Initial Check Standards or Subsequent Check Standards are not met.		

Figure 15-1 (continued)

INTERNAL QUALITY ASSURANCE AUDIT

DEPARTMENT: METALS
(CONTINUED)

ITEM	ACCEPT.	COMMENTS
Complete calibration is done monthly at a minimum of 3 levels plus a blank		
Coefficient of correlation is 0.995 or greater.		
Initial Check Standard, from a dissimilar source, is run immediately following daily instrument calibration. The recovery must be between 85 - 115 %.		
A Subsequent Check Standard is run after every 10 samples and at the end of a run. The recovery must be between 85 - 115 % for soils, TCLPs, STLCs, hazardous samples and all waters.		
A Blank is run immediately after each Subsequent Check Standard. The Blank must be less than the detection limit.		
The corresponding Method Blank, Method Blank Spike and Method Blank Spike Duplicate are run once during a run in which their associated samples are analyzed.		
The Method Blank must be less than the detection limit.		
The recovery for the Method Blank Spike must be between 80 - 120 %		
The Matrix Spike (MS) and Matrix Spike Duplicate (MSD) shall be run every 20 samples. The recoveries must be between 80 - 120 % and the relative percent difference (RPD) is < 20%		
Matrix Spike & Matrix Spike Duplicate sheets (QC Data Report and Control Chart) are filled out and current.		
The Interference Check Solution is run at the beginning of an analytical run and once every week. The recovery must be within 20 % of the true value.		
The Internal Standard of Yttrium is included in every samples except when testing for elements with wavelengths much greater than that of Yttrium, such as Potassium and Sodium		

QA AUDITOR: _____ **ANALYST:** _____
(SIGNATURE) (SIGNATURE)

QA OFFICER: _____
(SIGNATURE)

16.0 DATA REDUCTION, REPORTING, REVIEW AND VALIDATION

The data review process at Del Mar Analytical starts at the Sample Control level. Sample Control personnel review chain-of-custody forms and input the sample information and required analyses into a computer database. The transaction of the chain-of-custody forms and the computer data is reviewed by the Sample Control Group Leader. Final review of the chain-of-custody forms and computer data is performed by the Project Managers.

The next level of data review occurs with the Analysts. As results are generated, analysts review their work to ensure that the results generated meet QC requirements and relevant EPA and other Methodologies. Moreover, a second level of review is performed by a second analyst to ensure data compliance. Second level peer review is accomplished by checking analytical results against raw data and evaluating results for accuracy. At this time, blank runs, QA/QC check results, continuing calibration results, laboratory control samples, sample data, and spike information are evaluated. Issues that deem further review include the following:

- The calibration check standard or LCS is out of the specified limits.
- QC spikes and/or duplicate sample data are outside the specified control limits for accuracy and precision.
- Unusual detection limit changes are observed.
- A trend indicating that the QC samples are approaching control limits is observed on control charts.
- Samples having unusually high results.
- Samples exceeding a regulatory limit.
- Raw data indicating some type of contamination or poor technique.

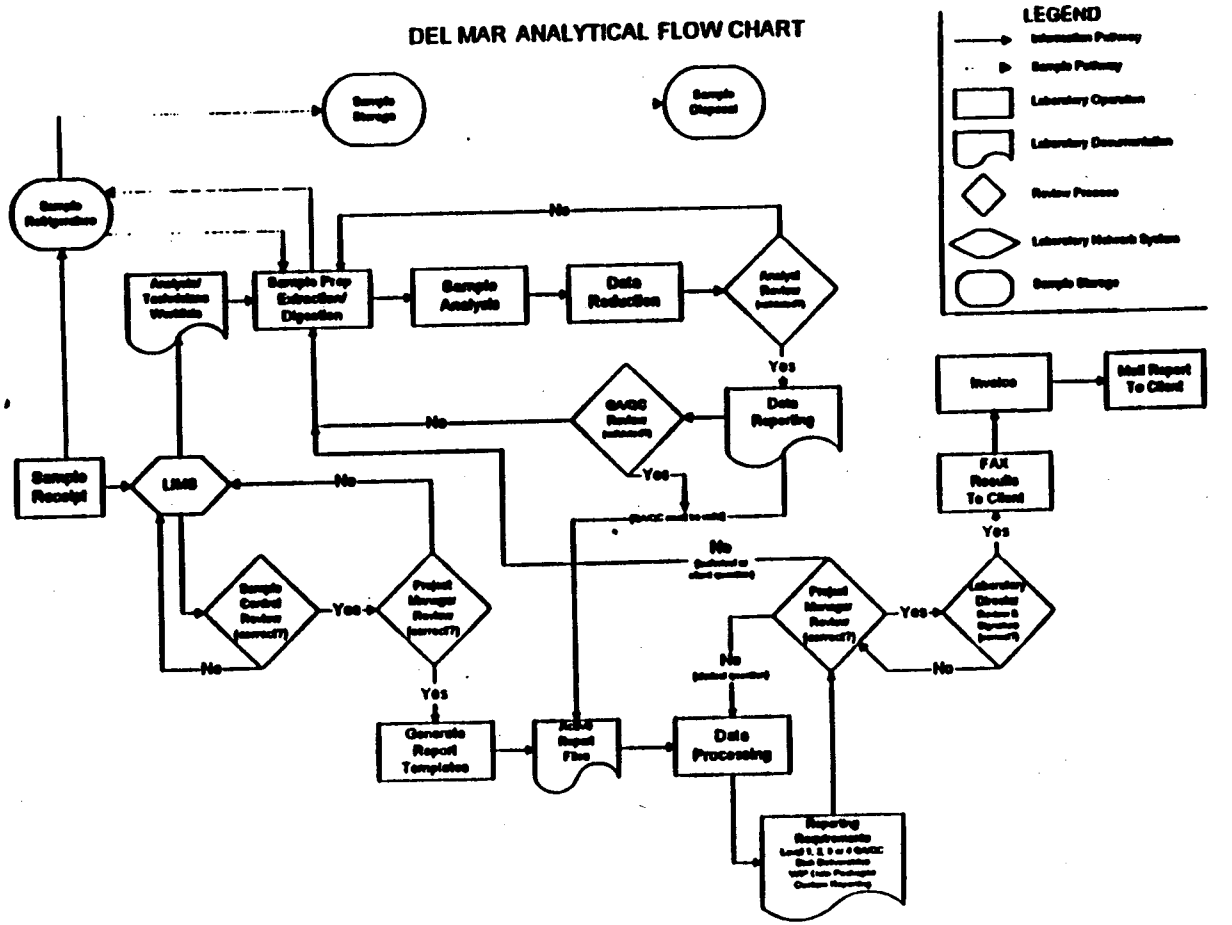
Data which is validated as acceptable by the analysts is transferred onto worksheets. Unacceptable analytical results are brought to the attention of the Laboratory Manager, Project Manager, the Quality Assurance Officer or Technical Manager for further investigation. Corrective action is initiated whenever necessary.

After analysis, the Analyst transcribes the results onto laboratory report worksheets. A random 15% of reports are checked by the Laboratory Manager, Quality Assurance Officer, and/or Technical Manager for transcription errors and acceptable quality control requirements. The results are then entered into the computer database and a hardcopy is printed for the client. The Project Manager reviews the results for appropriateness and completeness. The Project Manager will review the report against most of the same criteria as the Analyst. The primary focus of data review at this level is against previous trends in a project and against information generated by other analyses.

The entire set of worksheets is checked against the chain-of-custody form a second time to assure that all analyses requested have been performed. Quality control results are checked to assure that calculations are correct. Analytical problems identified are brought to both the attention of the Laboratory Manager and the Quality Assurance Officer for corrective action. The final, typed report is then reviewed and signed by the Laboratory Director. The accounting personnel also check the report for any clerical or billing errors. When complete, the report is sent out to the client.

Copies of final reports including the original chain-of-custody form and the laboratory worksheets are kept in a secure filing area for a minimum of ten years. A visual summary of the flow of samples and information through the laboratory, as well as data review and validation, is presented in Figure 16-1.

Figure 16-1
Del Mar Analytical Flow Chart



17.0 TRAINING

At the start of their employment at Del Mar Analytical, all new employees receive a copy of the Employee Handbook, the Chemical Hygiene Plan and a copy of the Quality Assurance Manual. These are his or hers to keep as reference materials. It is the responsibility of the new employee to read, understand and acknowledge the contents of these manuals. Once the new employee has read and understood the contents of the manual, he or she must sign a document that states that he or she agrees to adhere to the requirements prescribed therein. These records are kept on file with the Laboratory Director.

The Employee Handbook contains information about the company's history and objectives, administrative scheduling, benefits, and general administrative policies. The Chemical Hygiene Plan contains pertinent information about the possible hazards of chemicals to which employees may be exposed and how to properly interact with those chemicals. The Quality Assurance Manual contains information about the goals of the Quality Assurance Program and its implementation.

To aid in the training of a new Analyst, each department has a reference binder which includes copies of the methods, all related extraction, cleanup, dilution methods, analytical Standard Operating Procedures, all relevant quality control documentation forms and corrective action reports. The Analyst must read and understand the contents of the binder and be able to answer questions to demonstrate his/her understanding. Additional verbal instruction from an experienced Analyst, the group leader, Technical Manager and the Quality Assurance Officer is provided to ensure a working understanding of the requirements set out by the analytical methods, Quality Assurance Program Manual, Employee Handbook and Chemical Hygiene Plan.

An experienced Analyst introduces the new Analyst to all the instrumentation involved in his or her analyses. Standard Operating Procedures, preventative maintenance, and troubleshooting for the instrument are reviewed by both the experienced and new Analyst. A maintenance logbook explaining any previous history specific to each instrument is reviewed by both the experienced and the new Analyst.

Once the new Analyst feels comfortable with all the analytical and documentation requirements and demonstrates the ability to operate the instrumentation satisfactorily, he or she will spend time observing the actual performance of the analysis by the experienced Analyst. Gradually, the new Analyst will help at various steps in the process in the presence of the experienced Analyst. Eventually, the new Analyst will perform the entire analysis in the presence of the experienced Analyst to ensure adequate proficiency. Once the new Analyst has

demonstrated proficiency in the analytical procedures and has demonstrated the ability to maintain quality assurance documentation. he or she will begin to analyze samples on his or her own.

Once the new Analyst has assumed responsibility for the analysis, routine review of data by the new Analyst's Supervisor continues as part of regular data review processes. Regular auditing by the Internal Quality Assurance Auditor ensures continued compliance with Quality Assurance requirements.

Please see Figure 17-1 as an example of training guidelines for 8240 analyses.

Figure 17-1
Training Guidelines for 8240 Analyses

TRAINING SUMMARY

The following training summary is provided as a guideline for training individuals in Volatile Organic Analysis. specifically EPA methods 624 and 8240.

I. Introduction
   A. Equipment
      1. Purge and Trap
      2. GC
      3. MS
      4. Data System
   B. Data System
      1. MSDS
      2. IDOS
   C. Method
      1. Overview of volatile analysis
      2. Method exceptions

II. Documentation
   A. Instrument analysis logbook
   B. Instrument maintenance logbook
   C. Standard preparation logbook

III. Start-up Procedure
   A. Bootstrapping

IV. Mass Assignment Calibration
   A. FC-43
   B. Scan parameters
      1. Mass range FC-43,35-525

V. Manual Tune
   A. Parameters
      1. Defined
      2. Adjustments
   B. "Ideal" Tune
      1. Ratios of masses 69:131:219
      2. Resolution
   C. Documentation
      1. Hardcopy of manual time
      2. File

Figure 17-1 (continued)

TRAINING SUMMARY (Continued)

VI. Creating FC-43 Calibration Table
- A. Acquisition
- B. Check Fit
- C. Documentation
  1. Hardcopy fit
  2. File

VII. Gas Chromatograph Parameters
- A. Temperature programs
  1. BFB
     a. Isothermal run (170)
  2. Standards, blanks, and samples
     a. Temperature ramp

VIII. Bromofluorobenzene (BFB) Tune
- A. Scan parameters
  1. Mass range BFB.35-260
- B. Acquire BFB
- C. Check for pass or fail
  1. View chromatogram (CHRO)
  2. Select scan (S)
     a. Identify and explain mass relationship of 50:95:174:177
  3. List mass (L)
  4. Get report (B)
- D. If BFB fails to meet criteria
  1. Document why in logbook
  2. Reshoot
  3. After 3-4 attempts, manual tune again
- E. If BFB meets criteria
  1. Run on a 12 hour curve
  2. After 12 hours, re-run BFB

IX. Preparation for analysis
- A. Explain sample lists
  1. Sample numbers
  2. Sample due dates
  3. Sample holding times
  4. Special notes

Figure 17-1 (continued)

TRAINING SUMMARY (Continued)

B. Explain matrix
   1. Water, drinking water
   2. Soil, medium soil
   3. Sludge
   4. Air
C. Finding samples in refrigerator
   1. Volatile room
   2. Main hall

X. Acquisition of standard
A. Glassware
B. Standards
   1. Internal standard and surrogate
   2. Volatile standard
   3. Miscellaneous standards
C. Analysis of standard
   1. Water
   2. Low soil
   3. Medium soil
D. Quantitation of standard
   1. TCA (DOVO)
   2. Mapping in missed compounds
   3. Editing quantitation list
   4. Updating standard (R:T;S)
F. Check standard for compliance
   1. 5-Point calibration
   2. Daily calibration

XI. Acquisition of VOA blank
A. Glassware
B. Standards
   1. Internal standard and surrogate
C. Analysis
   1. Same conditions as standard
D. Quantitation of blank
   1. Check IS area
   2. Check surrogate recovery
   3. Check for compliance (<D.L.)
   4. Check for quantitation against correct standard

Figure 17-1 (continued)

TRAINING SUMMARY (Continued)

- E. Write up of blank
  - 1. Quantitation list
  - 2. Chromatograms
  - 3. CSPECs
    - a. Spectral matches
    - b. Nonspectral matches
  - 4. Library searches

XII. Analysis of samples
- A. Soils
  - 1. Identify if sample requires dilution
    - a. Observe physical characteristics
      - i. Color
      - ii. Matrix
      - iii.Odor (DO NOT smell directly)
    - b. Client history
  - 2. Sample weights
  - 3. Dilution factors
  - 4. Extractions
- B. Waters
  - 1. Refer to XII A-1
  - 2. Dilution factors
- C. Analysis of samples
- D. Quantitation of samples
- E. Check for compliance
  - 1. Internal standards
  - 2. Surrogates
  - 3. Acceptable limits for amounts
    - a. Calibration curve
    - b. Dilutions
- F. Write up of samples
  - 1. Refer to XI E

XIII. Review final data package
- A. BFB
- B. DCAL
- C. Blank
- D. Samples

Figure 17-1 (continued)

TRAINING SUMMARY (Continued)

XIV. Shutdown procedure

XV. QA/QC
- A. Forms to turn in
- B. Nonconformance

XVI. Reporting data

XVII. Miscellaneous section
- A. Stop acquisition
- B. ACQU/O
- C. SAMPLR
- D. Changing number of scans while acquiring
- E. Taping data
- F. Standard preparation
- G. 5-Point calibration
- H. Instrument maintenance
- I. Troubleshooting

_____ has been successfully trained in the above procedures and has demonstrated the ability to perform the analysis, maintain all QA/QC requirements, and report results on his or her own.

Supervisory Signature: _____ Date: _____

QA/QC Officer Signature: _____ Date: _____

18.0 GLOSSARY OF TERMS

ACCREDITATION: Accreditation is awarded to a laboratory which meets the prescribed standards of a recognized accreditation organization. Environmental laboratory accreditation is available from the American Association for Laboratory Accreditation (A_2LA) and the California Department of Health Services Environmental Laboratory Accreditation Program.

ACCURACY: The measure of how close a result is to the true value. It is usually expressed as the percent difference between the true value and the value obtained by an analytical determination. (See Matrix Spike/Matrix Spike Duplicate)

AMERICAN ASSOCIATION FOR LABORATORY ACCREDITATION (A,LA): The American Association for Laboratory Accreditation is an organization which accredits laboratories based upon internationally accepted criteria for competence described in the ISO/IEC Guide 25-1990, "General Requirements for the Competence of Calibration and Testing Laboratories".

ANALYTICAL BATCH: A group of no more than 20 samples of similar matrix which is extracted and/or analyzed together. The chemical reagents and the analytical process is kept constant for each analytical batch. A specific set of quality control samples are analyzed with each analytical batch and are used to estimate the quality of the results of the entire batch.

ATOMIC ABSORPTION SPECTROPHOTOMETER (AA): An instrument which is used to detect and quantify metals. Typically this instrument can analyze only one metal per analysis.

BLANK: A blank is a quality control sample designed to monitor the introduction of contamination into the sampling and analytical process. There are several types of blanks:

Calibration Blank: An organic or aqueous solution that is as free of analytes as possible and prepared with the same volume of reagents used in the preparation of calibration standards. The calibration blank is used to give the "0" reading for the calibration of the instrument.

Equipment Blank: Reagent Grade Water which is opened in the field, poured over and through the sample collection device, and returned to the lab as a sample. Equipment blanks are a check of the cleanliness of the sampling device.

Field Blank: An organic-free aqueous solution that is transferred from one preserved vessel to another at the sampling site. This serves as a check on reagent and environmental contamination.

Method Blank: An organic or aqueous solution that is as free of analyte as possible and is processed in the same manner as an environmental sample. The method blank is used to assess contamination originating from preparation and analytical procedures.

Trip Blank: Reagent Grade Water which is transported to the sampling site in an appropriate sample container and returned to the laboratory without being opened. The trip blank is analyzed to assess contamination originating from sample transport, shipping and site conditions.

Travel Blank: See TRIP BLANK

CERTIFICATION: A state issued document certifying that a laboratory may officially perform environmental analyses for the purpose of determining compliance with environmental regulations. California certification is divided into categories of Drinking Water, Hazardous Waste, Wastewater, Bulk Asbestos Testing, Proposition 65 Analyses, Shellfish Sanitation, Radiochemistry and Pesticide Residues in Food. Each category is further subdivided into "Fields of Testing" which include specific methods. California laboratories are certified for individual fields of testing only after applying for certification and passing an audit.

CHAIN-OF-CUSTODY FORM: The document which includes the signatures of each person who has had custody of the environmental samples from the source to the laboratory. The chain-of-custody form is critical evidence of sample integrity if the laboratory data must be defended in court.

CONTRACT LABORATORY PROGRAM (CLP): A program administered by the EPA which defines the Data Quality Objectives for commercial laboratories hired by the EPA. Acceptance as a CLP laboratory is an EPA vendor approval.

DATA QUALITY: The ability of a specific set of data to satisfy a given purpose. Data quality is affected by sample collection procedures, sample transportation, sample storage integrity, quality control of sample analysis and data reporting.

DATA QUALITY OBJECTIVES (DQO): A description of the factors which define the acceptability of data for a specific project or assessment program.

DATA VALIDATION: A systematic process to review data and to identify outliers, omissions or suspect values in order to assure the validity of the data.

ENVIRONMENTAL LABORATORY ACCREDITATION PROGRAM (ELAP): The program administered by the California State Department of Health Services which audits and certifies environmental laboratories.

ENVIRONMENTAL SAMPLE: A sample originating from the project site which is analyzed for the purpose of site or process assessment.

GAS CHROMATOGRAPH (GC): An instrument which uses separation technology to detect and quantify organic components of a sample.

GAS CHROMATOGRAPH/MASS SPECTROMETER (GC/MS): A gas chromatograph linked to a mass spectrometer which is capable of identifying chemical compounds based upon their unique ion fragmentation pattern.

HIGH PERFORMANCE LIQUID CHROMATOGRAPH (HPLC): An instrument which uses separation technology to detect and analyze organic compounds. This instrument is typically used to detect and quantify the presence of high molecular weight compounds (semi-volatile) and polar compounds.

ION CHROMATOGRAPH (IC): An instrument which uses separation technology to detect and quantify anions.

INDUCTIVELY COUPLED ARGON PLASMA SPECTROPHOTOMETER (ICP): An instrument used to measure metals. Typically this instrument is used to detect and quantify multiple metals in each analysis.

MATRIX SPIKE/MATRIX SPIKE DUPLICATE (MS/MSD): A quality control technique used to measure the accuracy and precision of an analytical batch (an analytical batch includes samples of the same matrix). One sample is chosen as a representative of the matrix and is divided into two portions. Each portion of the sample is spiked (fortified) with a known concentration of analyte. One of the spiked portions is the matrix spike (MS), the other portion is the matrix spike duplicate (MSD). The MS and MSD samples are then analyzed in the same manner as the environmental samples in the analytical batch. Accuracy is estimated by subtracting the original, non-spiked sample result from the spiked sample result, and comparing that number to the concentration of spike added. Precision is estimated by comparing the percent of spike recovery of the matrix spike to the matrix spike duplicate.

METHOD DETECTION LIMIT (MDL): The Method Detection Limit is the minimum concentration of an analyte which can be measured and reported with 99% confidence that the value is greater than zero, as performed under ideal operating conditions on a sample with a clean matrix.

MIDPOINT STANDARD: A standard which is analyzed to determine the validity of the multi-point calibration of an instrument. The calibration check standard evaluates the instrument calibration prior to sample analysis. The midpoint standard is also referred to as the "calibration check standard".

PRACTICAL QUANTITATION LIMIT (PQL): The Practical Quantitation Limit is the lowest level to be reliably detected within specified limits of precision and accuracy during routine laboratory operating conditions on environmental samples.

PERFORMANCE AUDIT: The planned independent check of the operation of a measurement system to obtain a quantitative measure of the quality of the data generated.

PRECISION: The measure of the repeatability of a determination. Precision is frequently expressed as the relative percent difference between duplicate samples analyzed in the same manner. (See Matrix Spike/Matrix Spike Duplicate).

PURGE AND TRAP: A sample preparation device which is used to extract and concentrate volatile components from a sample. The sample is placed in a sealed vessel, then purged with a stream of inert gas. The stream of gas and volatiles from the sample are swept onto a solid adsorbent trap. After purging the sample

for the prescribed time period, the trap is rapidly heated and back flushed into the gas chromatograph for analysis.

QUALITY ASSURANCE: The integrated program for assuring the reliability of laboratory data. Quality Assurance incorporates quality control of the procedures for field sampling, sample handling and storage, analytical processes and document preparation and review.

QUALITY CONTROL: The routine application of procedures for obtaining prescribed standards of performance and rejecting performance which does not meet the prescribed standards.

QUALITY CONTROL SAMPLE: A sample originating in the field or in the laboratory which is analyzed for the purpose of assessing quality control.

REAGENT GRADE: Analytical Reagent (AR) Grade, ACS Reagent Grade and Reagent Grade are synonymous terms for reagents which conform to the current specifications of the Committee on Analytical Reagents of the American Chemical Society.

SAMPLE: A discreet representative part or a single item from a larger group presented to the laboratory for analysis.

Duplicate Sample: A replicate sample which is intended to be identical to the original sample. A duplicate sample can originate from the project site and be in a separate sample container or may be generated in the laboratory by splitting a sample into two portions.

Laboratory Control Sample (LCS): A blank sample which has been spiked (fortified) with the method analytes and analyzed in the same manner as the environmental samples. The standard mixture used to spike the LCS must be obtained from a source other than the primary calibration standard mixture. The LCS is sometimes referred to as a "blank spike" and is used to determine the overall performance of the instrument, as well as to determine the validity of the calibration standards.

REAGENT WATER: Distilled or de-ionized water which is free of contaminants that may interfere with the analytical test.

SEMI-VOLATILE ANALYTES (EXTRACTABLES): A general term used to describe a group of compounds which are not volatile at ambient temperature. These analytes are extracted from samples using organic solvents.

STANDARD: A solution of known concentration which contains the method analytes. Standards are used to calibrate the instruments and to create quality control samples of known concentration.

Calibration Standard: Dilutions of stock standard solutions prepared at various concentrations which are used to generate a calibration curve for an analysis.

Calibration Check Standard: A standard which is analyzed to determine the validity of the multi-point calibration of an instrument. The calibration check standard evaluates the instrument calibration prior to sample analysis. The calibration check standard is also referred to as the "daily midpoint standard".

STANDARD CURVE: A graph of the calibration standard concentration versus instrument response for an analyte. The standard curve illustrates the quantitation range for an analyte. The concentration of analyte in an environmental sample can then be determined by taking the sample instrument response and calculating the appropriate concentration from the standard curve.

STANDARD METHODS: Standard Methods for the Examination of Water and Wastewater, is a reference book of analytical methods prepared and published jointly by the American Public Health Association, the American Water Works Association and the Water Environment Federation. The methods are very similar to EPA methods and are recognized by most regulatory agencies for drinking water and wastewater. Unlike the EPA methods, each Standard Method begins with a discussion of the method principles and its application to water samples.

STANDARD OPERATING PROCEDURE (SOP): A written procedure for performing an operation, analysis or protocol. An SOP is prepared for each extraction and analysis in the laboratory which consists of the published method to be used and includes any method exceptions.

SURROGATE: Surrogate compounds are similar in chemical composition to the target analytes and are spiked into every sample prior to analysis. The surrogate compounds selected are not found in environmental samples. Surrogates are spiked into both environmental samples and quality control samples prior to analysis. The percent

recoveries of the surrogates are calculated and are the primary data used to assess the recovery of target analytes.

SW-846: The EPA document "Test Methods for Evaluating Solid Waste - Physical/Chemical Methods". This is the source document for hazardous waste analytical methods.

TITLE 22: California Code of Regulations, Title 22. Social Security, Division 4. Environmental Health, is the group of California laws which apply to water quality and hazardous waste management.

VOLATILE ORGANIC ANALYTE (VOA): A general term used to describe a range of organic compounds which are volatile at ambient temperature. These compounds are usually extracted from samples by purging with a stream of inert gas and trapping the volatiles on a solid adsorbent (purge and trap).

DISTRIBUTION

Phase I Work Plan
Drum Removal Action
Omega Chemical Facility
12504 East Whittier Boulevard
Whittier, California

June 29, 1995

Copy 1:	Mr. Richard Wm. Martyn Federal On-Scene Coordinator Emergency Response (H-8-3) U.S. Environmental Protection Agency 75 Hawthorne Street San Francisco, California 94105-3901
Copy 2:	Mr. Michael K. Schwennesen Ecology and Environment, Inc. 11 Golden Shore Long Beach, California 90802
Copies 3 - 5:	Dr. Ian A. Webster Senior Superfund Project Manager Unocal Corporation 1201 West 5th Street Los Angeles, California 90017
Copy 6:	Project File
Copy 7:	HLA Library

QA/QC Reviewer:

Matthew L. McCullough, P.E.
Principal Engineer

APPENDIX B

DRUM INVENTORY/HAZCAT RESULTS

Omega Drum Re[redacted]al - HazCat Log

Drum No.	Waste Description	Physical Description	Container Volume	Container Type	Flammablilty	Air Reactive	Water Reactive	Water Soluble	pH	Oxidizer	Cyanide	Sulfide	Peroxide	Manifest No.
20001	Commodity Pack	Black Steel Drum	55	Poly Drum	No	No	No	No	7	No	No	No	No	AR-758700
20002	Commodity Pack	Black Steel Drum	55	Poly Drum	No	No	No	No	7	No	No	No	No	AR-758824
20003	Commodity Pack	Black Steel Drum	55	Poly Drum	No	No	No	No	7	No	No	No	No	AR-758844
20004	Commodity Pack	Black Steel Drum	55	Poly Drum	No	No	No	No	7	No	No	No	No	AR-758844
20005	Commodity Pack	Black Steel Drum	55	Poly Drum	No	No	No	No	7	No	No	No	No	AR-758844
20006	Commodity Pack	Black Steel Drum	55	Poly Drum	No	No	No	No	7	No	No	No	No	AR-758825
20007	Commodity Pack	Black Steel Drum	55	Poly Drum	No	No	No	No	7	No	No	No	No	AR-758824
20008	Commodity Pack	Black Steel Drum	55	Poly Drum	No	No	No	No	7	No	No	No	No	AR-758844
20009	Commodity Pack	Black Steel Drum	55	Poly Drum	No	No	No	No	7	No	No	No	No	AR-758837
20010	Commodity Pack	Black Steel Drum	55	Poly Drum	No	No	No	No	7	No	No	No	No	AR-758843
20011	Commodity Pack	Black Steel Drum	55	Poly Drum	No	No	No	No	7	No	No	No	No	AR-758844
20012	Commodity Pack	Black Steel Drum	55	Poly Drum	No	No	No	No	7	No	No	No	No	AR-758824
20013	Commodity Pack	Black Steel Drum	55	Poly Drum	No	No	No	No	7	No	No	No	No	AR-758844
20014	Commodity Pack	Black Steel Drum	55	Poly Drum	No	No	No	No	7	No	No	No	No	AR-758844
40001	Lean Organic Mixture	Poly Drum	55	Poly Drum	No	No	No	No	7	No	No	No	No	AR-758804
40003	Lean Organic Mixture	Poly Drum	55	Poly Drum	No	No	No	No	7	No	No	No	No	AR-758804
40004	Lean Organic Mixture	Poly Drum	55	Poly Drum	No	No	No	No	7	No	No	No	No	AR-758802
40012	Lean Organic Mixture	Poly Drum	55	Poly Drum	No	No	No	No	7	No	No	No	No	AR-758812
40025	Lean Organic Mixture	100% Solid	55	Steel Drum	No	No	No	No	7	No	No	No	No	AR-758812
40026	Lean Organic Mixture	20% Solid	55	Steel Drum	No	No	No	No	7	No	No	No	No	AR-758812
40028	Lean Organic Mixture	Black Steel Drum	55	Poly Drum	No	No	No	No	7	No	No	No	No	AR-758792
40145	Absorbent/Soil	90% Solid	55	Steel Drum	No	No	No	No	7	No	No	No	No	AR-758837
40155	Organic Mixture	98% Solid	30	Steel Drum	No	No	No	No	7	No	No	No	No	AR-758837
40158	Mixed Solvents	15% Solid	30	Steel Drum	No	No	No	No	7	No	No	No	No	AR-758837
40573	Organic Mixture	Rust Liquid	55	Steel Drum	No	No	No	Yes	7	No	No	No	No	AR-758790
40574	Organic Mixture	Rust Liquid	85	Overpack Drum	No	No	No	Yes	No	No	No	No	No	AR-758790
40575	Absorbent/Soil	Soil	55	Steel Drum	No	No	No	Yes	No	No	No	No	No	AR-758790
40576	Organic Mixture	Rust Liquid	55	Steel Drum	No	No	No	Yes	7	No	No	No	No	AR-758790
40577	Absorbent/Soil	Brown Powder	55	Steel Drum	<140 deg	No	No	No	No	No	No	No	No	AR-758790
40578	Organic Mixture	White Liquid	55	Steel Drum	>140 deg	No	No	Yes	10	No	No	No	No	AR-758790
40579	Mixed Solvent	Green Liquid	55	Steel Drum	<140 deg	No	No	Yes	7	No	No	No	No	AR-758796
40580	Organic Mixture	Brown Liquid	85	Overpack Drum	No	No	No	No	7	No	No	No	No	AR-758790
40585	Organic Mixture	Liquids	55	Steel Drum	No	No	No	No	7	No	No	No	No	AR-758790
40586	Resin, Adhesive	Rust Liquid	55	Steel Drum	No	No	No	Yes	7	No	No	No	No	AR-757823
40587	Mixed Solvent	Black Liquid	55	Steel Drum	<140 deg	No	No	Slight	7	No	No	No	No	AR-757823
40588		Grey Solid	55	Steel Drum	No	No	No	No	No	No	No	No	No	AR-758812
40589	Chemical Sludge	Black Liquid	55	Steel Drum	<140 deg	No	No	Slight	7	No	No	No	No	AR-758790
40590	Solidified Resin, Paint	Black Liquid	55	Steel Drum	>140 deg	No	No	No	No	No	No	No	No	AR-758790
40591	Absorbent/Soil	Soil Black	55	Steel Drum	>140 deg	No	No	No	No	No	No	No	No	AR-758790
40592	Absorbent/Soil	Vermic/Saw Dust	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758790
40593	Absorbent/Soil	Solid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-735570
40594	Absorbent/Soil	Brown Filter	55	Steel Drum	No	No	No	No	7	Yes	No	No	No	AR-758824
40595	Absorbent/Soil	Black Absorbent	55	Steel Drum	No	No	No	Slight	7	No	No	No	No	AR-735570
40672	Absorbent/Soil	Black Absorbent	55	Steel Drum	<140 deg	No	No	No	No	No	No	No	No	AR-735570
40673	Absorbent/Soil	Brown Solids	55	Steel Drum	>140 deg	No	No	No	No	No	No	No	No	AR-735570
40674	Absorbent/Soil	Brown Solids	55	Steel Drum	<140 deg	No	No	No	No	No	No	No	No	AR-735570
40675	Absorbent/Soil	Brown Solids	55	Steel Drum	>140 deg	No	No	No	4	No	No	No	No	AR-735570
40676	Absorbent/Soil	Brown Solids	55	Steel Drum	>140 deg	No	No	No	4	No	No	No	No	AR-735570
40677	Chemical Sludge	Brown Sludge	55	Steel Drum	<140 deg	No	No	No	No	No	No	No	No	AR-758796
40678	Chemical Sludge	Black Liquid	55	Steel Drum	<140 deg	No	No	No	No	No	No	No	No	AR-757824
40679	Organic Mixture	Black Liquid	55	Steel Drum	No	No	No	Yes	7	No	No	No	No	AR-757824

Volumes are in gallons unless otherwise specified. NS = Not sampled.

Omega Drum Removal - HazCat Log

Drum No.	Waste Description	Physical Description	Container Volume	Container Type	Flammablilty	Air Reactive	Water Reactive	Water Soluble	pH	Oxidizer	Cyanide	Sulfide	Peroxide	Manifest No.
40680	Mixed Solvents	Black Sludge	55	Steel Drum	No	No	No	No	No	No	No	No	No	AR-758799
40685	Lean Organic Mixture	Brown Liquid	55	Steel Drum	>140 deg	No	No	Yes	5	No	No	No	No	AR-735570
40696	Absorbent/Soil	Black Solid	55	Poly Drum	No	No	No	No	No	No	No	No	No	AR-758793
40715	Chemical Sludge	Brown Liquid	55	Steel Drum	<140 deg	No	No	Slight	5	No	No	No	No	AR-757823
40716	Mixed Solvent	Oily Brown Liquid	55	Steel Drum	>140 deg	No	No	iscibl	7	No	No	No	No	AR-758820
40717	Resin, Adhesive	Brown Goop	55	Steel Drum	>140 deg	No	No	No	No	No	No	No	No	AR-735570
40718	Resin, Adhesive	Resin	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-757824
40719	Mixed Solvent	Oily Black Liquid	55	Steel Drum	>140 deg	No	No	Slight	7	No	No	No	No	AR-758790
40720	Chemical Sludge	White Goop	55	Steel Drum	>140 deg	No	No	No	No	No	No	No	No	AR-758790
40721	Organic Mixture	Red Liquid	55	Steel Drum	No	No	No	Yes	7	No	No	No	No	AR-758790
40722	Organic Mixture	Brown Liquid	55	Steel Drum	No	No	No	Yes	7	No	No	No	No	AR-758790
40748	Chemical Sludge	Black Goop	55	Steel Drum	No	No	No	No	No	No	No	No	No	AR-757823
40749	Chemical Sludge	Black Goop	55	Steel Drum	No	No	No	No	No	No	No	No	No	AR-757823
40750	Chemical Sludge	Black Liquid	55	Steel Drum	<140 deg	No	No	Yes	7	No	No	No	No	AR-735569
40751	Water Based Sludge	Black Liquid	55	Steel Drum	No	No	No	Yes	No	No	No	No	No	AR-758796
40752	Absorbent/Soil	Black Solid	55	Steel Drum	No	No	No	No	No	No	No	No	No	AR-735570
40753	Absorbent/Soil	Black Solid	55	Steel Drum	No	No	No	No	No	No	No	No	No	AR-735570
40754	Absorbent/Soil	Black Solid	55	Steel Drum	No	No	No	No	No	No	No	No	No	AR-735570
40755	Water Based Sludge	White Solid	55	Steel Drum	No	No	No	No	No	No	No	No	No	AR-758788
40756	Chemical Sludge	Black Sludge	55	Steel Drum	No	No	No	No	No	No	No	No	No	AR-735570
40757	Chemical Sludge	Black Sludge	55	Steel Drum	No	No	No	No	No	No	No	No	No	AR-757824
40758	Chemical Sludge	Black Sludge	55	Steel Drum	No	No	No	No	No	No	No	No	No	AR-735570
40759	Chemical Sludge	Black Sludge	55	Steel Drum	No	No	No	No	No	No	No	No	No	AR-735570
40760	Lean Organic Mixture	Amber Liquid	55	Steel Drum	>140 deg	No	No	No	8	No	No	No	No	AR-735570
40761	Lean Organic Mixture	Amber Liquid	55	Steel Drum	>140 deg	No	No	No	8	No	No	No	No	AR-735570
40762	Lean Organic Mixture	Amber Liquid	55	Steel Drum	>140 deg	No	No	No	8	No	No	No	No	AR-735570
40763	Lean Organic Mixture	Amber Liquid	55	Steel Drum	>140 deg	No	No	No	8	No	No	No	No	AR-735570
40764	Lean Organic Mixture	Amber Liquid	55	Steel Drum	>140 deg	No	No	No	8	No	No	No	No	AR-758790
40765	Lean Organic Mixture	Amber Liquid	55	Steel Drum	>140 deg	No	No	No	8	No	No	No	No	AR-735570
40766	Chemical Sludge	Amber Liquid	55	Steel Drum	<140 deg	No	No	No	8	No	No	No	No	AR-758820
40767	Chemical Sludge	Amber Liquid	55	Steel Drum	<140 deg	No	No	No	8	No	No	No	No	AR-758790
40768	Chemical Sludge	Black Liquid	55	Steel Drum	<140 deg	No	No	No	8	No	No	No	No	AR-758790
40769	Chemical Sludge	Black Liquid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-735570
40770	Absorbent/Soil	Black Solid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758790
40771	Organic Mixture	Amber Liquid	55	Steel Drum	>140 deg	No	No	No	8	No	No	No	No	AR-758790
40772	Organic Mixture	Black Liquid	55	Steel Drum	>140 deg	No	No	No	8	No	No	No	No	AR-758790
40819	Absorbent/Soil	Amber Liquid	55	Steel Drum	>140 deg	No	No	No	8	No	No	No	No	AR-758790
40820	Absorbent/Soil	Black Solid	85	Overpack Drum	>140 deg	No	No	No	8	No	No	No	No	AR-758790
40821	Mixed Solvent	Clear Liquid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758790
50001	Mixed Solvent	Brown Liquid	55	Steel Drum	>140 deg	No	No	iscibl	9	No	No	No	No	AR-735570
50002	Organic Mixture	Grey Liquid	55	Steel Drum	No	No	No	No	No	No	No	No	No	AR-735570
50003	Mixed Solvent	Brown Liquid	55	Steel Drum	>140 deg	No	No	iscibl	9	No	No	No	No	AR-735570
50004	Organic Mixture	Brown Liquid	55	Steel Drum	>140 deg	No	No	No	No	No	No	No	No	AR-735570
50005	Chemical Solids	Brn. Liq. w/sludge	55	Steel Drum	<100 deg.	No	No	No	No	No	No	No	No	AR-735570
50006	Chemical Sludge	Paint Sludge	55	Steel Drum	<100 deg.	No	No	No	No	No	No	No	No	AR-735570
50007	Mixed Solvent	Brown Liquid	55	Steel Drum	>100 deg.	No	No	No	No	No	No	No	No	AR-758806
50008	Mixed Solvent	Brn. Liq. w/solid	55	Steel Drum	<100 deg.	No	No	No	No	No	No	No	No	AR-758804
50009	Mixed Solvent	Brown Solid	55	Steel Drum	>100 deg.	No	No	No	No	No	No	No	No	AR-758806
50010	Mixed Solvent	Brown Liquid	55	Steel Drum	>100 deg.	No	No	No	No	No	No	No	No	AR-735570
50011	Mixed Solvent	Brown Vis. Liq.	55	Steel Drum	<140 deg	No	No	Yes	7	No	No	No	No	AR-758804
50012	Mixed Solvent	Brown Vis. Liq.	55	Steel Drum	<140 deg	No	No	Yes	7	No	No	No	No	AR-758806

Volumes are in gallons unless otherwise specified. NS = Not sampled.

Omega Drum Removal - HazCat Log

Drum No.	Waste Description	Physical Description	Container Volume	Container Type	Flammability	Air Reactive	Water Reactive	Water Soluble	pH	Oxidizer	Cyanide	Sulfide	Peroxide	Manifest No.
50013	Mixed Solvent	Brown Vis. Liq.	55	Steel Drum	<140 deg	No	No	No	No	No	No	No	No	AR-735570
50014	Mixed Solvent	Brown Vis. Liq.	55	Steel Drum	>140 deg	No	No	No	No	No	No	No	No	AR-735570
50015	Mixed Solvent	Yellow Liquid	55	Steel Drum	<140 deg	No	No	No	No	No	No	No	No	AR-758806
50016	Organic Mixture	Brown Liquid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-735570
50017	Mixed Solvent	Brown Liquid	55	Steel Drum	>140 deg	No	No	No	No	No	No	No	No	AR-735570
50018	Mixed Solvent	Brown Liquid	55	Steel Drum	>140 deg	No	No	No	No	No	No	No	No	AR-735570
50019	Resin, Adhesive	Brown Resin	55	Steel Drum	<140 deg	No	No	No	No	No	No	No	No	AR-735570
50020	Organic Mixture	Brown Liquid	55	Steel Drum	>140 deg	No	No	Yes	7	No	No	No	No	AR-735570
50021	Solidified Resin	Paint Solids	55	Steel Drum	>140 deg	No	No	No	No	No	No	No	No	AR-757823
50022	Solidified Resin	Absorb.w/Paint	55	Steel Drum	>140 deg	No	No	No	No	No	No	No	No	AR-757823
50023	Mixed Solvent	Brown Liquid	55	Steel Drum	<140 deg	No	No	No	No	No	No	No	No	AR-735570
50024	Solidified Resin	Brown Solid	55	Steel Drum	>140 deg	No	No	No	No	No	No	No	No	AR-757823
50025	Organic Mixture	Light Brown Liq	55	Steel Drum	>140 deg	No	No	No	No	No	No	No	No	AR-735570
50026	Solidified Resin	Brown Solid	55	Steel Drum	>140 deg	No	No	No	No	No	No	No	No	AR-735570
50027	Solidified Resin	Brown Solid	55	Steel Drum	<140 deg	No	No	No	No	No	No	No	No	AR-735570
50028	Solidified Resin	Soil w/oil solv.	55	Steel Drum	No	No	No	No	No	No	No	No	No	AR-735570
50029	Absorbent/Soil	Vermiculite	55	Steel Drum	No	No	No	No	No	No	No	No	No	AR-735570
50030	Solidified Resin	Black Solid	55	Steel Drum	<140 deg	No	No	No	No	No	No	No	No	AR-735570
50031	Lean Organic Mixture	Green Liquid	55	Steel Drum	<140 deg	No	No	No	No	No	No	No	No	AR-735570
50032	Soldified Resin	Soil w/Naptha	55	Steel Drum	>140 deg	No	No	No	No	No	No	No	No	AR-735570
50033	Soldified Resin	White Solid	55	Steel Drum	>140 deg	No	No	No	No	No	Yes	No	No	AR-735570
50034	Organic Mixture	Brown Liquid	55	Steel Drum	>140 deg	No	No	No	No	No	No	No	No	AR-735570
50035	Debris, Rags, Filters	Card Board	55	Steel Drum	>140 deg	No	No	No	No	No	No	No	No	AR-757823
50036	Debris, Rags, Filters	Card Board	55	Steel Drum	>140 deg	No	No	No	No	No	No	No	No	AR-757823
50037	Debris, Rags, Filters	Card Board	55	Steel Drum	>140 deg	No	No	No	No	No	No	No	No	AR-757823
50038	Debris, Rags, Filters	Card Board	55	Steel Drum	<140 deg	No	No	No	No	No	No	No	No	AR-757823
50039	Solidified Resin	Tar	55	Steel Drum	>140 deg	No	No	No	No	No	No	No	No	AR-735570
50040	Solidified Resin	Tar	55	Steel Drum	>140 deg	No	No	No	No	No	No	No	No	AR-735570
50041	Solidified Resin	Tar	55	Steel Drum	>140 deg	No	No	No	No	No	No	No	No	AR-735570
50042	Solidified Resin	Tar	55	Steel Drum	>140 deg	No	No	No	No	No	No	No	No	AR-735570
50043	Solidified Resin	Green Solid	55	Steel Drum	>140 deg	No	No	No	No	No	No	No	No	AR-757823
50044	Mixed Solvent	Brown Bi-Layrd	55	Steel Drum	<140 deg	No	No	Partial	7	No	No	No	No	AR-757823
50045	Mixed Solvent	Brown Bi-Layrd	55	Steel Drum	>140 deg	No	No	Partial	7	No	No	No	No	AR-758806
50046	Mixed Solvent	Brown Clear	55	Steel Drum	>140 deg	No	No	No	No	No	No	No	No	AR-758806
50047	Organic Acid	Brown Liquid	55	Steel Drum	<140 deg	No	No	Partial	2	No	No	No	No	AR-757823
50048	Organic Acid	Black Liquid	55	Steel Drum	>140 deg	No	No	Yes	2	No	No	No	No	AR-757823
50049	Solidified Resin	Soil	55	Steel Drum	<140 deg	No	No	No	No	No	No	No	No	AR-757823
50050	Organic Mixture	Black Liquid	55	Steel Drum	<140 deg	No	No	No	No	No	No	No	No	AR-735570
50051	Mixed Solvent	Black Liquid	55	Steel Drum	<140 deg	No	No	No	No	No	No	No	No	AR-735570
50052	Debris, Rags, Filters	Plastic	55	Steel Drum	<140 deg	No	No	No	No	No	No	No	No	AR-757823
50053-A	Solder Dross	Slag Lead	55	Poly Drum	No	No	No	No	No	No	No	No	No	AR-758837
50053-B	Solder Dross	Slag Lead	55	Poly Drum	No	No	No	No	No	No	No	No	No	AR-758837
50054	Debris	Plastic	55	Steel Drum	<140 deg	No	No	No	No	No	No	No	No	AR-757823
50055	Debris	Plastic	55	Steel Drum	>140 deg	No	No	No	No	No	No	No	No	AR-757823
50056	Acid Sludge	Crystalline/Sol	55	Steel Drum	>140 deg	No	No	Partial	3	No	No	No	No	AR-758788
50057	Acid Sludge	Brown Solid	55	Steel Drum	>140 deg	No	No	Partial	3	No	No	No	No	AR-758788
50058	Acid Sludge	Grey Flakes	55	Steel Drum	>140 deg	No	No	No	3	No	No	No	No	AR-758788
50059	Organic Acid	Green Sludge	55	Steel Drum	No	No	No	No	2	Yes	No	No	No	AR-757823
50060	Organic Acid	Brown Sludge	55	Steel Drum	No	No	No	No	2	No	No	No	No	AR-757823
50061	Organic Acid	Brown Sludge	55	Steel Drum	No	No	No	No	2	No	No	No	No	AR-758788
50062	Organic Acid	White Solid	55	Steel Drum	No	No	No	Yes	1	Yes	No	No	No	AR-758821

Volumes are in gallons unless otherwise specified. NS = Not sampled.

Omega Drum Removal - HazCat Log

Drum No.	Waste Description	Physical Description	Container Volume	Container Type	Flammablilty	Air Reactive	Water Reactive	Water Soluble	pH	Oxidizer	Cyanide	Sulfide	Peroxide	Manifest No.
50063	Organic Acid	Yellow Solid	55	Steel Drum	>140 deg	No	No	No	No	No	Yes	No	No	AR-735570
50064	Solidified Resin	Yellow Liquid	55	Steel Drum	No	No	No	No	7	No	No	No	No	AR-758804
50065	Powder & Granular Oxidizers	Black Solid	55	Steel Drum	No	No	No	Partial	7	Yes	No	No	No	AR-758808
50066	Organic Mixture	Green Sludge	55	Steel Drum	<140 deg	No	No	No	No	No	No	No	No	AR-758788
50067	Chemical Sludge	Yellow/Wh/Sol	55	Steel Drum	<140 deg	No	No	No	No	No	No	No	No	AR-758788
50068	Aerosol Cans	White Solid	55	Steel Drum	No	No	No	No	10	Yes	No	No	No	AR-758808
50069	Chemical Sludge	Yellow/Wh/Sol	55	Steel Drum	<140 deg	No	No	No	No	No	No	No	No	AR-758788
50070	Chemical Sludge	Black Liquid	55	Steel Drum	<140 deg	No	No	Yes	No	No	No	No	No	AR-758789
50071	Chemical Sludge	Black Liquid	55	Steel Drum	<140 deg	No	No	No	No	No	No	No	No	AR-758789
50072	Solidified Resin	Black Solid	55	Steel Drum	<140 deg	No	No	No	No	No	No	No	No	AR-758789
50073	Solidified Resin	Black Solid	55	Steel Drum	<140 deg	No	No	No	No	No	No	No	No	AR-758789
50074	Chemical Sludge	Brown Liquid	55	Steel Drum	>140 deg	No	No	No	No	No	No	No	No	AR-757823
50075	Oil w/Oxidizer	Soil	55	Steel Drum	No	No	No	3 light	16	Yes	No	No	No	AR-758808
50076	Oil w/Oxidizer	Soil	55	Steel Drum	No	No	No	No	No	Yes	No	No	No	AR-758808
50077	Chemical Sludge	White Liquid	55	Steel Drum	>140 deg	No	No	3 light	7	No	No	No	No	AR-757823
50078	Resin, Adhesive	Green Liquid	55	Steel Drum	>140 deg	No	No	No	No	No	No	No	No	AR-757823
50079	Water Based Sludge	Yellow Liquid	55	Steel Drum	No	No	No	Yes	7	No	No	No	No	AR-757823
50080-A	Solder Slag	Solder Slag	55	Poly Drum	No	No	No	No	No	No	No	No	No	AR-758837
50080-B	Solder Slag	Solder Slag	55	Poly Drum	No	No	No	No	No	No	No	No	No	AR-758837
50081	Soil w/Oxidizer	Soil	55	Steel Drum	No	No	No	No	7	Yes	No	No	No	AR-758808
50082	Organic Acid	Brown Sludge	55	Steel Drum	No	No	No	No	2	Yes	No	No	No	AR-758788
50083	Resin, Adhesive	Brown Goop	55	Steel Drum	<140 deg	No	No	No	No	No	No	No	No	AR-757823
50084	Resin, Adhesive	Black Goop	55	Steel Drum	<140 deg	No	No	No	No	No	No	No	No	AR-757823
50085	Chemical Sludge	Black Goop	55	Steel Drum	>140 deg	No	No	No	No	No	No	No	No	AR-757823
50086	Chemical Sludge	Brown Liquid	55	Steel Drum	<140 deg	No	No	Yes	7	No	No	No	No	AR-757823
50087	Chemical Sludge	Black Liq/Slg.	55	Steel Drum	<140 deg	No	No	No	No	No	No	No	No	AR-757823
50088	Absorbent/Soil	Debris/Soil	55	Steel Drum	No	No	No	No	No	No	No	No	No	AR-757823
50089	Absorbent/Soil	Soil	55	Steel Drum	No	No	No	No	No	No	No	No	No	AR-757823
50090	Chemical Sludge	Black Goop	55	Steel Drum	<140 deg	No	No	No	No	No	No	No	No	AR-757823
50091	Chemical Sludge	Paint Solids	55	Steel Drum	<140 deg	No	No	No	No	No	No	No	No	AR-757823
50092	Resin, Adhesive	Brown Goop	55	Steel Drum	<140 deg	No	No	No	No	No	No	No	No	AR-757823
50093	Resin, Adhesive	Brown Goop	55	Steel Drum	<140 deg	No	No	No	No	No	No	No	No	AR-757823
50094	Mixed Solvent	Brown Liquid	55	Steel Drum	<140 deg	No	No	Slight	7	No	No	No	No	AR-735570
50095	High Halide/Ox	Brown Sludge	55	Steel Drum	>140 deg	No	No	No	3	Yes	No	No	No	AR-758812
50096	Resin, Adhesive	Brown Sludge	55	Steel Drum	>140 deg	No	No	No	No	No	No	No	No	AR-735570
50097	Organic Mixture	Brown Sludge	55	Steel Drum	<140 deg	No	No	No	No	No	No	No	No	AR-758788
50098	Chemical Sludge	Brown Sludge	55	Steel Drum	>140 deg	No	No	No	No	No	No	No	No	AR-757823
50099	Absorbent/Soil	Brown Solid	55	Steel Drum	<140 deg	No	No	No	7	No	No	No	No	AR-757823
50100	Resin, Adhesive	Black Sludge	55	Steel Drum	>140 deg	No	No	No	No	No	No	No	No	AR-757823
50101	Mixed Solvents	Red Liquid	55	Steel Drum	<140 deg	No	No	No	No	No	No	No	No	AR-757823
50102	Mixed Solvents	Brown Liquid	55	Steel Drum	>140 deg	No	No	No	5	No	No	No	No	AR-757823
50103	Resin	Solids	55	Steel Drum	<140 deg	No	No	No	No	No	No	No	No	AR-757823
50104	Oxidizer	Black Solid	55	Steel Drum	No	No	No	Yes	10	Yes	No	No	No	AR-758808
50105	Chemical Solids	Black Solid	55	Steel Drum	<140 deg	No	No	No	No	No	No	No	No	AR-757823
50106	Acid Sludge	Brown Solid	55	Steel Drum	No	No	No	Yes	2	No	No	No	No	AR-757823
50107	Water Based Sludge	Brown Sludge	55	Steel Drum	No	No	No	Yes	0	No	No	No	No	AR-757823
50108	Water Based Sludge	Brown Sludge	55	Steel Drum	No	No	No	Yes	10	No	No	No	No	AR-757823
50109	Oxidizer	White Solid	55	Steel Drum	No	No	No	No	7	Yes	No	No	No	AR-757823
50110	Absorbent/Soil	White Solid	55	Steel Drum	No	No	No	Slight	4	No	No	No	No	AR-757823
50111	Absorbent	White Solid	55	Steel Drum	No	No	No	No	7	No	No	No	No	AR-757823

Volumes are in gallons unless otherwise specified. NS = Not sampled.

Omega Drum Re[illegible]al - HazCat Log

Drum No.	Waste Description	Physical Description	Container Volume	Container Type	Flammablilty	Air Reactive	Water Reactive	Water Soluble	pH	Oxidizer	Cyanide	Sulfide	Peroxide	Manifest No.
50112	Lean Organic Mixture	Brown Liquid	55	Steel Drum	No	No	No	Yes	7	No	No	No	No	AR-757823
50113	Oxidizer	Brown Solid	55	Steel Drum	No	No	No	No	7	Yes	No	No	No	AR-758808
50114	Filter Material	White Fibrous	55	Steel Drum	<140 deg	No	No	No	No	No	No	No	No	AR-757823
50115	Ink	Purple	55	Steel Drum	<140 deg	No	No	No	No	No	No	No	No	AR-757823
50116	Chemical Sludge	Black Solid	55	Poly Drum	<140 deg	No	No	No	No	No	No	No	No	AR-757823
50117		Organic Peroxide	85	Overpack Drum	NS	NS	NS	NS	NS	NS	NS	NS	NS	93477636
50118	Chemical Sludge	Black Sludge	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-735570
50119	Chemical Sludge	2 Layer	55	Steel Drum	No	No	No	Yes	1	No	No	No	No	AR-758788
50120	Parrafin	White Solid	55	Steel Drum	<140 deg	No	No	No	No	No	No	No	No	AR-735570
50121	Solidified Resin	Black Tar	55	Steel Drum	>140 deg	No	No	No	No	No	No	No	No	AR-735570
50122	Chemical Sludge	Black Sludge	55	Steel Drum	>140 deg	No	No	No	No	No	No	No	No	AR-758789
50123	Organic Mixture	Black Sludge	55	Steel Drum	No	No	No	No	7	No	No	No	No	AR-758789
50124	Organic Mixture	Black Liquid	55	Steel Drum	No	No	No	Yes	7	No	No	No	No	AR-758789
50125	Water Based Sludge	White Goop	55	Steel Drum	No	No	No	No	No	No	No	No	No	AR-758789
50126	Organic Mixture	Brown Liquid	55	Steel Drum	No	No	No	Yes	7	No	No	No	No	AR-757823
50127	Chemical Sludge	Brown Liquid/Solids	55	Steel Drum	No	No	No	Partial	1	No	No	No	No	AR-757823
50128	Organic Mixture	Brown Sludge	55	Steel Drum	No	No	No	No	7	No	No	No	No	AR-757823
50129	Chemical Sludge	Brown Sludge	55	Steel Drum	No	No	No	Yes	7	No	No	Yes	No	AR-757823
50130	Solidified Resin	Soil w/Metal	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-735570
50131	Debris, Rags, Filters	Crushed Aerosol	55	Steel Drum	NS	NS	NS	NS	NS	NS	NS	NS	NS	AR-758788
50132	Debris, Rags, Filters	Crushed Aerosol	55	Steel Drum	NS	NS	NS	NS	NS	NS	NS	NS	NS	AR-758788
50133	Debris, Rags, Filters	Crushed Aerosol	55	Steel Drum	NS	NS	NS	NS	NS	NS	NS	NS	NS	AR-735570
50134	Paint, Resin	Brown Goop	55	Steel Drum	>140 deg	No	No	Yes	7	No	No	No	No	AR-735570
50135	Chemical Sludge	Brown Goo	55	Steel Drum	>140 deg	No	No	No	No	No	No	No	No	AR-735570
50136	Water Based Sludge	Brown Sludge	55	Steel Drum	No	No	No	Yes	7	No	No	No	No	AR-735570
50137	Water Based Sludge	White Goop	55	Steel Drum	>140 deg	No	No	No	No	No	No	No	No	AR-735570
50138	Debris, Rags, Filters	White Paper	55	Steel Drum	<140 deg	No	No	No	No	No	No	No	No	AR-735570
50139	Absorbent/Soil	Absorbant	55	Steel Drum	>140 deg	No	No	No	No	No	No	No	No	AR-735570
50140	Absorbent/Soil	Absorb.+Cardboard	55	Steel Drum	>140 deg	No	No	No	No	No	No	No	No	AR-735570
50141	Water Based Sludge	Brown Sludge	55	Steel Drum	>140 deg	No	No	No	No	No	No	No	No	AR-735570
50142	Paint, Resin	Brown Goop	55	Steel Drum	>140 deg	No	No	No	No	No	No	No	No	AR-735570
50143	Water Based Sludge	White Goop	55	Steel Drum	>140 deg	No	No	No	No	No	No	No	No	AR-735570
50144	Mixed Solvent	Black Liquid	55	Steel Drum	>140 deg	No	No	No	No	No	No	No	No	AR-758788
50145	Mixed Solvent	Black Liquid	55	Steel Drum	>140 deg	No	No	No	No	No	No	No	No	AR-758788
50146	Water Based Sludge	Yel/Wh Liq w/Sol	55	Steel Drum	No	No	No	Yes	No	No	No	No	No	AR-735570
50147	Chemical Sludge	Brown Liquid	55	Steel Drum	No	No	No	Yes	7	No	No	No	No	AR-735570
50148	Chemical Sludge	Brown Sludge	55	Steel Drum	>140 deg	No	No	Yes	5	No	No	No	No	AR-735570
50149	Resin, Adhesive	Brown Tar	55	Steel Drum	<140 deg	No	No	No	7	No	No	No	No	AR-735570
50150	Chemical Sludge	Brown Liquid	55	Steel Drum	No	No	No	Yes	7	No	No	No	No	AR-758788
50151	Inorganic Acids	Yellow Liquid	55	Steel Drum	No	No	No	Yes	3	No	No	No	No	AR-758826
50152	Chemical Sludge	Brown Liquid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758788
50153	Acid Sludge	Thick Blue Gel	55	Steel Drum	>140 deg	No	No	No	3	No	No	No	No	AR-758802
50154	Debris, Rags, Filters	Crushed Cans	55	Steel Drum	NS	NS	NS	NS	NS	NS	NS	NS	NS	AR-758788
50155	Strong Oxidizer	Soil	55	Steel Drum	No	No	No	Slight	7	Yes	No	No	No	AR-758788
50156	Debris, Rags, Filters	PPE	55	Steel Drum	>140 deg	No	No	No	No	No	No	No	No	AR-758788
50157	Absorbent/Soil	Absorb. w/Paint	55	Steel Drum	No	No	No	No	No	No	No	No	No	AR-758788
50158	Absorbent/Soil	Soil	55	Steel Drum	No	No	No	Slight	10	No	No	No	No	AR-758788
50159	Chemical Sludge	Yellow Solids	55	Steel Drum	No	No	No	Slight	10	No	No	No	No	AR-758788
50160	Mixed Solvent	Yellow Liquid	55	Steel Drum	No	No	No	Slight	10	No	No	No	No	AR-758792
50161	Water Based Sludge	White Solid	55	Steel Drum	>140 deg	No	No	Slight	7	No	No	No	No	AR-758788
50162	Chemical Sludge	White Sludge	55	Steel Drum	<140 deg	No	No	No	No	No	No	No	No	AR-758788

Volumes are in gallons unless otherwise specified. NS = Not sampled.

Omega Drum Removal - HazCat Log

Drum No.	Waste Description	Physical Description	Container Volume	Container Type	Flammability	Air Reactive	Water Reactive	Water Soluble	pH	Oxidizer	Cyanide	Sulfide	Peroxide	Manifest No.
50163	Chemical Sludge	Brn./Grey Slug.	55	Steel Drum	>140 deg	No	No	No	No	No	No	No	No	AR-758788
50164	Water Based Sludge	Brown Liquid	55	Steel Drum	No	No	No	Yes	7	No	No	No	No	AR-758788
50165	Chemical Sludge	Auto Grease	55	Steel Drum	No	No	No	No	No	No	No	No	No	AR-758803
50166	Organic Mixture	Am/Blk. Liq/Sol	55	Poly Drum	No	No	No	No	7	No	No	No	No	AR-758789
50167	Organic Mixture	Black Liquid	55	Steel Drum	No	No	No	No	8	No	No	No	No	AR-758788
50168	Lean Organic Mixture	Brown Liquid	55	Steel Drum	No	No	No	No	8	No	No	No	No	AR-758789
50169	Mixed Solvent	Black Liquid	55	Steel Drum	No	No	No	No	8	No	No	No	No	AR-758788
50170	Alkaline Solids	White Powder	55	Steel Drum	No	No	No	No	12	No	No	No	No	AR-758789
50171	Absorbent/Soil	Brown Solid	55	Steel Drum	No	No	No	No	8	No	No	No	No	AR-758789
50172	Chemical Solids	Grey Solid	55	Steel Drum	No	No	No	No	8	No	No	No	No	AR-758789
50173	Chemical Solids	White/Red Sol	55	Steel Drum	No	No	No	No	8	No	No	No	No	AR-758799
50174	Organic Mixture	Amber Glue-Like	55	Steel Drum	>140 deg	No	No	No	No	No	No	No	No	AR-758792
50175	Chemical Sludge	Black Solid	55	Steel Drum	<140 deg	No	No	No	No	No	No	No	No	AR-758799
50176	Organic Mixture	Amber Liquid	55	Steel Drum	>140 deg	No	No	No	No	No	No	No	No	AR-758792
50177	Absorbent/Soil	Brown Solid	55	Steel Drum	>140 deg	No	No	No	No	No	No	No	No	AR-735570
50178	Absorbent/Soil	Brown Solid	55	Steel Drum	>140 deg	No	No	No	No	No	No	No	No	AR-758788
50179	Solidified Resin	White Solid	55	Steel Drum	>140 deg	No	No	No	No	No	No	No	No	AR-758804
50180	Organic Mixture	Orange Liquid	55	Steel Drum	>140 deg	No	No	No	No	No	No	No	No	AR-758788
50181	Mixed Solvent	Black Liquid	55	Steel Drum	<140 deg	No	No	No	No	No	No	No	No	AR-758789
50182	Chemical Sludge	Yellow Solid	55	Steel Drum	<140 deg	No	No	No	No	No	No	No	No	AR-758789
50183	Mixed Solvent	Brown Liq/Sol	55	Steel Drum	<140 deg	No	No	No	No	No	No	No	No	AR-758788
50184	Mixed Solvent	Black Liq/Sol	55	Steel Drum	<140 deg	No	No	No	No	No	No	No	No	AR-758788
50185	Mixed Solvent	Brown Liq/Sol	55	Steel Drum	<140 deg	No	No	No	No	No	No	No	No	AR-758788
50186	Mixed Solvent	No Sample	55	Steel Drum	NS	NS	NS	NS	NS	NS	NS	NS	NS	AR-758814
50187	Organic Mixture	Grey Liq/Sol	55	Steel Drum	>140 deg	No	No	No	No	No	No	No	No	AR-758789
50188	Paint, Resin	Black Liquid	55	Steel Drum	<140 deg	No	No	No	No	No	No	No	No	AR-758788
50189	Paint, Resin	Black Sludge	55	Steel Drum	<140 deg	No	No	No	No	No	No	No	No	AR-758788
50190	Paint, Resin	Black Sludge	55	Steel Drum	<140 deg	No	No	No	No	No	No	No	No	AR-758803
50191	Paint, Resin	Black Sludge	55	Steel Drum	<140 deg	No	No	Yes	No	No	No	No	No	AR-758804
50192	Lean Organic Mixture	Yellow Liquid	55	Steel Drum	No	No	No	Yes	7	No	No	No	No	AR-758802
50193	Lean Organic Mixture	Yellow Liquid	55	Steel Drum	No	No	No	Slight	7	No	No	No	No	AR-758789
50194	Lean Organic Mixture	Sludge Liquid	55	Steel Drum	No	No	No	Slight	7	No	No	No	No	AR-758802
50195	Lean Organic Mixture	Yellow Liquid	55	Steel Drum	No	No	No	No	7	No	No	No	No	AR-758798
50196	Paint, Resin	Black Sludge	55	Steel Drum	No	No	No	No	No	No	No	No	No	AR-758789
50197	Chemical Sludge	Yellow Sludge	55	Steel Drum	No	No	No	No	No	No	No	No	No	AR-758789
50198	Paint, Resin	Black Sludge	55	Steel Drum	No	No	No	No	No	No	No	No	No	AR-758789
50199	Paint, Resin	Black Sludge	55	Steel Drum	No	No	No	No	No	No	No	No	No	AR-758788
50200	Mixed Solvent	Black Liquid	55	Steel Drum	<140 deg	No	No	No	8	No	No	No	No	AR-758791
50201	Mixed Solvent	Brn/Blk Liquid	55	Steel Drum	<140 deg	No	No	No	8	No	No	No	No	AR-758791
50202	Debris, Rags, Filters	Blue/Wh Sol Fib	55	Steel Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758791
50203	Absorbent/Soil	Black Solid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758791
50204	Mixed Solvent	Brn Liq/Sol	55	Steel Drum	>140 deg	No	No	Yes	8	No	No	No	No	AR-758789
50205	Absorbent/Soil	Brown Solid	55	Steel Drum	>140 deg	No	No	No	8	No	No	No	No	AR-758789
50206	Absorbent/Soil	Brown Solid	55	Steel Drum	>140 deg	No	No	No	8	No	No	No	No	AR-758789
50207	Absorbent/Soil	Grey Solid	55	Steel Drum	>140 deg	No	No	No	8	No	No	No	No	AR-758789
50208	Resin, Adhesive	No Sample	55	Steel Drum	NS	NS	NS	NS	NS	NS	NS	NS	NS	AR-758804
50209	Chemical Sludge	Brn Liq/Sol	55	Steel Drum	<140 deg	No	No	No	8	No	No	No	No	AR-758806
50210	Absorbent/Soil	White Solid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758798
50211	Absorbent Lab Pack Removed	No Sample	55	Steel Drum	NS	NS	NS	NS	NS	NS	NS	NS	NS	AR-758837
50212	Chemical Sludge	Brown Liquid	55	Steel Drum	<140 deg	No	No	No	No	No	No	No	No	AR-758789

Volumes are in gallons unless otherwise specified. NS = Not sampled.

Omega Drum Re[illegible]l - HazCat Log

Drum No.	Waste Description	Physical Description	Container Volume	Container Type	Flammablilty	Air Reactive	Water Reactive	Water Soluble	pH	Oxidizer	Cyanide	Sulfide	Peroxide	Manifest No.
50213	Paint, Resin	Suck Sludge	55	Steel Drum	<140 deg	No	No	No	No	No	No	No	No	AR-758789
50214	Water Based Sludge	White Sludge	55	Steel Drum	No	No	No	Yes	7	No	No	No	No	AR-758789
50215	Chemical Sludge	Grey Sludge	55	Steel Drum	<140 deg	No	No	No	No	No	No	No	No	AR-758789
50216	Absorbent/Soil	Black Soil	55	Steel Drum	No	No	No	Slight	7	No	No	No	No	AR-758789
50217	Organic Mixture	Black Liquid	55	Steel Drum	No	No	No	Yes	7	No	No	No	No	AR-758789
50218	Debris, Rags, Filters	Cloth	55	Steel Drum	<140 deg	No	No	No	No	No	No	No	No	AR-758789
50219	Mixed Solvent	Brown Liquid	55	Steel Drum	<140 deg	No	No	Yes	7	No	No	No	No	AR-758789
50220	Organic Mixture	Pink Liquid	55	Steel Drum	>140 deg	No	No	No	No	No	No	No	No	AR-758789
50221	Paint, Resin	Black Sludge	55	Steel Drum	<140 deg	No	No	No	No	No	No	No	No	AR-758789
50222	Paint, Resin	Black Sludge	55	Steel Drum	<140 deg	No	No	No	No	No	No	No	No	AR-758789
50223	Paint, Resin	Black Sludge	55	Steel Drum	<140 deg	No	No	No	No	No	No	No	No	AR-758789
50224	Mixed Solvent	Yellow Liquid	55	Poly Drum	>140 deg	No	No	No	No	No	No	No	No	AR-758798
50225	Organic Mixture	White Liquid	55	Poly Drum	No	No	No	Yes	7	No	No	No	No	AR-758791
50226	Absorbent/Soil	Yellow Liquid	55	Poly Drum	No	No	No	Yes	7	No	No	No	No	AR-758791
50227	Paint, Resin	Clear Liquid	55	Poly Drum	No	No	No	No	No	No	No	No	No	AR-758791
50228	Organic Mixture	Black Liquid	55	Poly Drum	>140 deg	No	No	Yes	5	No	No	No	No	AR-758796
50229	Organic Mixture	Brown Liquid	55	Poly Drum	<140 deg	No	No	Yes	7	No	No	No	No	AR-758796
50230	Paint, Resin	Black Liquid	55	Poly Drum	<140 deg	No	No	No	No	No	No	No	No	AR-758796
50231	Oxidizing Liquid	Green Liquid	55	Poly Drum	No	No	No	Yes	14	No	No	No	No	AR-758812
50232	Oxidizing Liquid	Green Liquid	55	Poly Drum	No	No	No	Yes	14	No	No	No	No	AR-758789
50233	Oxidizing Liquid	Green Liquid	55	Poly Drum	No	No	No	Yes	14	No	No	No	No	AR-758789
50234	Oxidizing Liquid	Brown Liquid	55	Poly Drum	No	No	No	Yes	14	No	No	No	No	AR-758789
50235	Absorbent/Soil	Blk/Brn Sol	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758800
50236	Lean Organic Mixture	Amber Liquid	55	Steel Drum	>140 deg	No	No	No	8	No	No	No	No	AR-758800
50237	Mixed Solvent	Black Liquid	55	Steel Drum	<140 deg	No	No	No	8	No	No	No	No	AR-758800
50238	Mixed Solvent	Brown Liquid	55	Steel Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758792
50239	Absorbent/Soil	Brown Solid	55	Steel Drum	>140 deg	No	No	No	8	No	No	No	No	AR-758791
50240	Mixed Solvent	Black Sludge	55	Steel Drum	<140 deg	No	No	No	8	No	No	No	No	AR-758791
50241	Chemical Solids	Black Solid	55	Steel Drum	>140 deg	No	No	No	8	No	No	No	No	AR-758798
50242	Mixed Solvent	Brown Liquid	55	Steel Drum	<140 deg	No	No	No	8	No	No	No	No	AR-758796
50243	Mixed Solvent	Brown Liquid	55	Steel Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758796
50244	Lean Organic Mixture	Brown Liquid	55	Steel Drum	>140 deg	No	No	No	8	No	No	No	No	AR-758796
50245	Lean Organic Mixture	Brown Liquid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758796
50246	Lean Organic Mixture	Black Liquid	55	Steel Drum	<140 deg	No	No	No	8	No	No	No	No	AR-758796
50247	Organic Mixture	Semi-Clear Liq	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758804
50248	Absorbent/Soil	Brown Solid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758788
50249	Mixed Solvent	Brown Liquid	55	Steel Drum	<140 deg	No	No	No	8	No	No	No	No	AR-758789
50250	Propane Cylinders	No Sample	85	Overpack Drum	NS	NS	NS	NS	NS	NS	NS	NS	NS	95458771
50251	Solidified Resin	White Solid	55	Steel Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758789
50252	Absorbent/Soil	No Sample	55	Steel Drum	NS	NS	NS	NS	NS	NS	NS	NS	NS	AR-758789
50253	Lean Organic Mixture	Pink Liquid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758810
50254	Lean Organic Mixture	Amber Solid	55	Steel Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758792
50255	Lean Organic Mixture	Amber Solid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758796
50256	Organic Mixture	Black Sol/Liq	55	Steel Drum	>140 deg	No	No	No	8	No	No	No	No	AR-758791
50257	Mixed Solvent	Black Liquid	55	Steel Drum	<140 deg	No	No	No	8	No	No	No	No	AR-758791
50258	Alkaline Liquid	Aqueas Liq	55	Steel Drum	>140 deg	No	No	No	13	No	No	No	No	AR-758814
50259	Absorbent/Soil	Lt. Brn. Liquid	55	Steel Drum	>140 deg	No	No	No	8	No	No	No	No	AR-758788
50260	Chemical Sludge	Brn. Sol/Liq	55	Steel Drum	<140 deg	No	No	No	8	No	No	No	No	AR-758805
50261	Paint, Resin	Black Liquid	55	Steel Drum	<140 deg	No	No	No	8	No	No	No	No	AR-758805
50262	Mixed Solvent	Grey Liq/Sol	55	Steel Drum	<140 deg	No	No	No	8	No	No	No	No	AR-758789
50263	Mixed Solvent	Brown Liquid	55	Steel Drum	<140 deg	No	No	Yes	8	No	No	No	No	AR-758789

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Omega Drum Removal - HazCat Log

Drum No.	Waste Description	Physical Description	Container Volume	Container Type	Flammablilty	Air Reactive	Water Reactive	Water Soluble	pH	Oxidizer	Cyanide	Sulfide	Peroxide	Manifest No.
50264	Mixed Solvent	Brown Liquid	55	Steel Drum	<140 deg	No	No	Yes	8	No	No	No	No	AR-758789
50265	Absorbent/Soil	Brown Solid	55	Steel Drum	>140 deg	No	No	No	8	No	No	No	No	AR-758789
50266	Absorbent/Soil	Grey Solid	55	Steel Drum	<140 deg	No	No	No	8	No	No	No	No	AR-758789
50267	Chemical Sludge	Brown Sludge	55	Steel Drum	<140 deg	No	No	No	8	No	No	No	No	AR-758789
50268	Chemical Sludge	Drk.Brn Liq/Sol	55	Steel Drum	<140 deg	No	No	No	8	No	No	No	No	AR-758789
50269	Absorbent/Soil	Brn. Blk Solid	55	Steel Drum	>140 deg	No	No	No	8	No	No	No	No	AR-758789
50270	Absorbent/Soil	No Sample	55	Steel Drum	NS	NS	NS	NS	NS	NS	NS	NS	NS	AR-758789
50271	Absorbent/Soil	No Sample	55	Steel Drum	NS	NS	NS	NS	NS	NS	NS	NS	NS	AR-758789
50272	Fibrous Filters	Grey Fibre	55	Steel Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758789
50273	Absorbent/Soil	No Sample	55	Steel Drum	NS	NS	NS	NS	NS	NS	NS	NS	NS	AR-758789
50274	Chemical Sludge	Wh/Brn Solid	55	Steel Drum	<140 deg	No	No	No	8	No	No	No	No	AR-758789
50275	Resin, Adhesive	Clear Liquid	55	Steel Drum	>140 deg	No	No	Yes	9	No	No	No	No	AR-758789
50276	Resin, Adhesive	Clear Liquid	55	Steel Drum	>140 deg	No	No	Yes	9	No	No	No	No	AR-758789
50277	Resin, Adhesive	Clear Liquid	55	Steel Drum	>140 deg	No	No	Yes	10	No	No	No	No	AR-758789
50278	Absorbent/Soil	Black Solid	55	Steel Drum	>140 deg	No	No	No	8	No	No	No	No	AR-758789
50279	Paper Filters	Grey Filter	55	Steel Drum	>140 deg	No	No	No	8	No	No	No	No	AR-758789
50280	Absorbent/Soil	Black Solid	55	Steel Drum	>140 deg	No	No	No	8	No	No	No	No	AR-758789
50281	Paper Filters	Grey Filter	55	Steel Drum	>140 deg	No	No	No	8	No	No	No	No	AR-758789
50282	Chemical Solids	White Powder	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758806
50283	Solidified Resin	White Solid	55	Steel Drum	<140 deg	No	No	No	8	No	No	No	No	AR-758789
50284	Chemical Solids	White Powder	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758800
50285	Mixed Solvent	Black Liquid	55	Steel Drum	<140 deg	No	No	No	8	No	No	No	No	AR-758789
50286	Mixed Solvent	Blk/Brn Liq/Sol	55	Steel Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758788
50287	Absorbent/Soil	Brown Solid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758788
50288	Lean Organic Mixture	Black Liquid	55	Steel Drum	>140 deg	No	No	No	8	No	No	No	No	AR-758798
50289	Absorbent/Soil	Brown Solid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758788
50290	Absorbent/Soil	Black/Wh Sol.	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758788
50291	Mixed Solvent	Brown Liquid	55	Steel Drum	<140 deg	No	No	No	8	No	No	No	No	AR-758788
50292	Lean Organic Mixture	Black Liquid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758806
50293	Organic Mixture	Brown Liquid	55	Steel Drum	>140 deg	No	No	No	6	No	No	No	No	AR-758792
50294	Absorbent/Soil	No Sample	55	Steel Drum	NS	NS	NS	NS	NS	NS	NS	NS	NS	AR-758788
50295	Absorbent/Soil	No Sample	55	Steel Drum	NS	NS	NS	NS	NS	NS	NS	NS	NS	AR-758788
50296	Absorbent/Soil	No Sample	55	Steel Drum	NS	NS	NS	NS	NS	NS	NS	NS	NS	AR-758788
50297	Absorbent/Soil	No Sample	55	Steel Drum	NS	NS	NS	NS	NS	NS	NS	NS	NS	AR-758788
50298	Solidified Resin	White Solid	55	Steel Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758806
50299	Debris, Rags, Filters	Paper Filters	55	Steel Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758806
50300	Solidified Resin	White Solid	55	Steel Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758806
50301	Debris, Rags, Filters	No Sample	55	Steel Drum	NS	NS	NS	NS	NS	NS	NS	NS	NS	AR-758806
50302	Organic Mixture	White Liquid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758788
50303	Debris, Rags, Filters	Cardboard	55	Steel Drum	>140 deg	No	No	No	No	No	No	No	No	AR-758788
50304	Absorbent/Soil	Grass	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758788
50305	Absorbent/Soil	Soil	55	Steel Drum	No	No	No	No	7	No	No	No	No	AR-758788
50306	Solidified Resin	Brown Sludge	55	Steel Drum	>140 deg	No	No	No	No	No	No	No	No	AR-758805
50307	Solidified Resin	Lab Pack	55	Steel Drum	>140 deg	No	No	No	No	No	No	No	No	AR-758788
50308	Solidified Resin	Lab Pack	55	Steel Drum	>140 deg	No	No	No	No	No	No	No	No	AR-758788
50309	Organic Mixture	Black Liquid	55	Steel Drum	No	No	No	Yes	7	No	No	No	No	AR-758792
50310	Debris, Rags, Filters	Filter Paper	55	Steel Drum	<140 deg	No	No	No	No	No	No	No	No	AR-758788
50311	Solidified Resin	White Solid	55	Steel Drum	>140 deg	No	No	No	No	No	No	No	No	AR-758789
50312	Organic Mixture	Liquid Sludge	55	Steel Drum	No	No	No	Part	7	No	No	No	No	AR-758789
50313	Lean Organic Mixture	Yellow Liquid	55	Steel Drum	No	No	No	Yes	7	No	No	No	No	AR-758798
50314	Solidified Resin	Solid	55	Steel Drum	>140 deg	No	No	No	No	No	No	No	No	AR-758788

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Omega Drum Re[illegible]val - HazCat Log

Drum No.	Waste Description	Physical Description	Container Volume	Container Type	Flammablilty	Air Reactive	Water Reactive	Water Soluble	pH	Oxidizer	Cyanide	Sulfide	Peroxide	Manifest No.
50315	Solidified Resin	Absorbent	55	Steel Drum	<140 deg	No	No	No	No	No	No	No	No	AR-758806
50316	Solidified Resin	Absorbent	55	Steel Drum	<140 deg	No	No	No	1	No	No	No	No	AR-758806
50317	Solidified Resin	Red Sludge	55	Steel Drum	>140 deg	No	No	No	No	No	No	No	No	AR-758789
50318	Organic Mixture	Red Water	55	Steel Drum	No	No	No	Yes	7	No	No	No	No	AR-758806
50319	Organic Mixture	Black Sludge	55	Steel Drum	>140 deg	No	No	No	No	No	No	No	No	AR-758789
50320	Organic Mixture	Black Sludge	55	Steel Drum	>140 deg	No	No	No	No	No	No	No	No	AR-758804
50321	Absorbent/Soil	Brown Solid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758804
50322	Absorbent/Soil	Brown Solid	55	Steel Drum	>140 deg	No	No	Yes	8	No	No	No	No	AR-758789
50323	Absorbent/Soil	Grey/Wh Solid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758804
50324	Absorbent/Soil	Grey/Wh Solid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758804
50325	Debris, Rags, Filters	Filter Paper	55	Steel Drum	<140 deg	No	No	No	No	No	No	No	No	AR-758804
50326	Solidified Resin	White Solid	55	Steel Drum	<140 deg	No	No	No	No	No	No	No	No	AR-758806
50327	Solidified Resin	Red Sludge	55	Steel Drum	>140 deg	No	No	No	No	No	No	No	No	AR-758806
50328	Solidified Resin	Black sludge	55	Steel Drum	>140 deg	No	No	No	No	No	No	No	No	AR-758806
50329	Absorbent/Soil	Absorbent	55	Steel Drum	No	No	No	No	No	No	No	No	No	AR-758794
50330	Absorbent/Soil	Brown Solid	55	Steel Drum	No	No	No	No	No	No	No	No	No	AR-758804
50331	Solidified Resin	Black Sludge	55	Steel Drum	>140 deg	No	No	No	No	No	No	No	No	AR-758804
50332	Solidified Resin	Black Sludge	55	Steel Drum	>140 deg	No	No	No	No	No	No	No	No	AR-758804
50333	Chemical Sludge	Black Liquid	55	Steel Drum	>140 deg	No	No	No	No	No	No	No	No	AR-758804
50334	Solidified Resin	Grey/Blk Solid	55	Steel Drum	>140 deg	No	No	No	No	No	No	No	No	AR-758804
50335	Solidified Resin	Grey Sludge	55	Steel Drum	>140 deg	No	No	No	No	No	No	No	No	AR-758804
50336	Organic Mixture	Yellow Liquid	55	Steel Drum	>140 deg	No	No	Yes	7	No	No	No	No	AR-758804
50337	Rags	Rags	30	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758806
50338	Chemical Sludge	Brown Sludge	55	Steel Drum	>140 deg	No	No	No	8	No	No	No	No	AR-758806
50339	Rags	Rags	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758804
50340	Rags	Rags	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758806
50341	Absorbent/Soil	Absorbent	55	Steel Drum	>140 deg	No	No	No	8	No	No	No	No	AR-758806
50342	Absorbent/Soil	Absorbent	55	Steel Drum	>140 deg	No	No	No	8	No	No	No	No	AR-758806
50343	Absorbent/Soil	Absorbent	55	Steel Drum	>140 deg	No	No	No	8	No	No	No	No	AR-758806
50344	Paint, Resin	Black Liquid	55	Steel Drum	<140 deg	No	No	No	8	No	No	No	No	AR-758806
50345	Chemical Sludge	Multi-Sludge	55	Steel Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758806
50346	Chemical Sludge	Brown Sludge	55	Steel Drum	>140 deg	No	No	No	8	No	No	No	No	AR-758806
50347	Organic Mixture	Brown Liquid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758804
50348	Mixed Solvent	Black Liquid	55	Steel Drum	<140 deg	No	No	No	8	No	No	No	No	AR-758804
50349	Strong Oxidizer	Clay	55	Steel Drum	No	No	No	Slight	7	No	No	No	No	AR-758808
50350	Absorbent/Soil	Black Dust	55	Steel Drum	>140 deg	No	No	No	No	No	No	No	No	AR-758804
50351	Debris, Rags, Filters	Rags	55	Steel Drum	>140 deg	No	No	No	No	No	No	No	No	AR-758804
50352	Debris, Rags, Filters	Rags	55	Steel Drum	>140 deg	No	No	No	No	No	No	No	No	AR-758804
50353	Debris, Rags, Filters	Leaves	55	Steel Drum	>140 deg	No	No	No	No	No	No	No	No	AR-758806
50354	Lean Organic Mixture	Black Water	55	Steel Drum	>140 deg	No	No	Slight	7	No	No	No	No	AR-758804
50355	Mixed Solvent	Brown Liquid	55	Steel Drum	>140 deg	No	No	No	No	No	No	No	No	AR-758806
50356	Mixed Solvent	Brown Liquid	55	Steel Drum	>140 deg	No	No	No	No	No	No	No	No	AR-758806
50357	Absorbent/Soil	Soil	55	Steel Drum	No	No	No	Slight	7	No	No	No	No	AR-758804
50358	Debris, Rags, Filters	Paper	55	Steel Drum	>140 deg	No	No	No	No	No	No	No	No	AR-758804
50359	Debris, Rags, Filters	Rags	55	Steel Drum	>140 deg	No	No	No	No	No	No	No	No	AR-758804
50360	Debris, Rags, Filters	Rags	55	Steel Drum	>140 deg	No	No	No	No	No	No	No	No	AR-758804
50361	Mixed Solvent	Grey Sludge	55	Steel Drum	>40deg	No	No	No	No	No	No	No	No	AR-758806
50362	Organic Mixture	White Chalk	55	Steel Drum	No	No	No	Yes	7	No	No	No	No	AR-758806
50363	Mixed Solvent	Silver Sludge	55	Steel Drum	<140 deg	No	No	No	No	No	No	No	No	AR-758806
50364	Solidified Resin	Black Solid	55	Steel Drum	<140 deg	No	No	No	No	No	No	No	No	AR-758806
50365	Solidified Resin	Black Solid	55	Steel Drum	<140 deg	No	No	No	No	No	No	No	No	AR-758806

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Omega Drum Removal - HazCat Log

Drum No.	Waste Description	Physical Description	Container Volume	Container Type	Flammability	Air Reactive	Water Reactive	Water Soluble	pH	Oxidizer	Cyanide	Sulfide	Peroxide	Manifest No.
50366	Debris, Rags, Filters	Rags	55	Steel Drum	No	No	No	No	No	No	No	No	No	AR-758806
50367	Strong Oxidizer	Yellow Liquid	55	Poly Drum	No	No	No	No	14	Yes	No	No	No	AR-758808
50368	Strong Oxidizer	Brown Liquid	55	Steel Drum	No	No	No	Yes	7	Yes	No	No	No	AR-758808
50369	Paint, Resin	Black Sludge	55	Steel Drum	<140 deg	No	No	Yes	No	No	No	No	No	AR-758804
50370	Oxidizer	Black solid	55	Steel Drum	No	No	No	No	7	Yes	No	No	No	AR-758808
50371	Debris, Rags, Filters	Rags	55	Steel Drum	No	No	No	No	No	No	No	No	No	AR-758804
50372	Debris, Rags, Filters	Rags	55	Steel Drum	No	No	No	No	No	No	No	No	No	AR-758802
50373	Absorbent Lab Pack Removed	Lab Pack/No S	85	Overpack Drum	No	No	No	No	No	No	No	No	No	AR-758837
50374	Absorbent/Soil	Absorbent	55	Steel Drum	No	No	No	Slight	5	No	No	No	No	AR-758791
50375	Organic Mixture	Black Solid	55	Steel Drum	>140 deg	No	No	No	No	No	No	No	No	AR-758794
50376	Organic Mixture	Oily Water	55	Steel Drum	No	No	No	Slight	7	No	No	No	No	AR-758802
50377	Mixed Solvent	Black Liquid	55	Steel Drum	No	No	No	No	No	No	No	No	No	AR-758794
50378	Mixed Solvent	Brown Liquid	55	Steel Drum	<140 deg	No	No	Yes	7	No	No	No	No	AR-758794
50379	Organic Mixture	Yellow Liquid	55	Steel Drum	No	No	No	No	No	No	No	No	No	AR-758806
50380	Absorbent/Soil	Brown Pellets	55	Steel Drum	No	No	No	No	No	No	No	No	No	AR-758806
50381	Organic Mixture	Brown Sludge	55	Steel Drum	No	No	No	Slight	4	No	No	No	No	AR-758806
50382	Mixed Solvent	Black Sludge	55	Steel Drum	>140 deg	No	No	No	No	No	No	No	No	AR-758806
50383	Mixed Solvent	Black Sludge	55	Steel Drum	>140 deg	No	No	No	No	No	No	No	No	AR-758804
50384	Mixed Solvent	Black Sludge	55	Steel Drum	>140 deg	No	No	No	No	No	No	No	No	AR-758804
50385	Mixed Solvent	Oily	55	Steel Drum	>140 deg	No	No	Yes	7	No	No	No	No	AR-758804
50386	Solidified Resin	Black Solid	55	Steel Drum	<140 deg	No	No	No	No	No	No	No	No	AR-758804
50387	Organic Mixture	Still Bottoms	55	Steel Drum	>140 deg	No	No	No	No	No	No	No	No	AR-758804
50388	Chemical Solids	Purple Solid	55	Steel Drum	>140 deg	No	No	No	No	No	No	No	No	AR-758804
50389	Mixed Solvent	Brown Liquid	55	Steel Drum	>140 deg	No	No	No	No	No	No	No	No	AR-758804
50390	Debris, Rags, Filters	Paper	55	Steel Drum	>140 deg	No	No	No	No	No	No	No	No	AR-758804
50391	Organic Mixture	Brown Liquid	55	Steel Drum	No	No	No	Yes	7	No	No	No	No	AR-758791
50392	Lean Organic Mixture	Black Water	55	Steel Drum	No	No	No	Yes	7	No	No	No	No	AR-758798
50393	Absorbent Lab Pack Removed	Lab Pack	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758843
50394	Lean Organic Mixture	Brown Liquid	55	Steel Drum	No	No	No	Yes	7	No	No	No	No	AR-758824
50395	Organic Mixture	Still Bottoms	55	Steel Drum	No	No	No	No	No	No	No	No	No	AR-758791
50396	Mixed Solvent	White Liquid	55	Steel Drum	No	No	No	Yes	7	No	No	No	No	AR-758791
50397	Mixed Solvent	Brown Liquid	55	Steel Drum	No	No	No	No	No	No	No	No	No	AR-758791
50398	Organic Mixture	Brown Liquid	55	Steel Drum	No	No	No	Yes	7	No	No	No	No	AR-758791
50399	Absorbent/Soil	White Solid	55	Steel Drum	No	No	No	No	No	No	No	No	No	AR-758804
50400	Absorbent/Soil	Soil	55	Steel Drum	No	No	No	No	No	No	No	No	No	AR-758804
50401	Absorbent/Soil	Soil	55	Steel Drum	No	No	No	No	No	No	No	No	No	AR-758804
50402	Absorbent/Soil	White Solid	55	Steel Drum	No	No	No	No	No	No	No	No	No	AR-758804
50403	Debris, Rags, Filters	Rags	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758791
50404	Organic Mixture	Red Water	55	Steel Drum	No	No	No	Yes	No	No	No	No	No	AR-758796
50405	Mixed Solvent	Black Liquid	55	Steel Drum	>140 deg	No	No	No	No	No	No	No	No	AR-758798
50406	Mixed Solvent	Black Liquid	55	Steel Drum	>140 deg	No	No	No	No	No	No	No	No	AR-758796
50407	Organic Mixture	Brown Liquid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758796
50408	Organic Mixture	White Liquid	55	Steel Drum	No	No	No	Yes	7	No	No	No	No	AR-758796
50409	Lean Organic Mixture	Brown Liquid	55	Steel Drum	No	No	No	Yes	7	No	No	No	No	AR-758806
50410	Mixed Solvent	Brown Liquid	55	Steel Drum	>140 deg	No	No	Yes	7	No	No	No	No	AR-758806
50411	Organic Mixture	Red Liquid	55	Steel Drum	No	No	No	Yes	7	No	No	No	No	AR-758806
50412	Mixed Solvent	Black Liquid	55	Steel Drum	>140 deg	No	No	Yes	7	No	No	No	No	AR-758806
50413	Mixed Solvent	Brown Liquid	55	Steel Drum	No	No	No	Yes	7	No	No	No	No	AR-758806
50414	Organic Mixture	Black Liquid	55	Steel Drum	<140 deg	No	No	Yes	7	No	No	No	No	AR-758796

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Omega Drum Removal - HazCat Log

Drum No.	Waste Description	Physical Description	Container Volume	Container Type	Flammability	Air Reactive	Water Reactive	Water Soluble	pH	Oxidizer	Cyanide	Sulfide	Peroxide	Manifest No.
50415	Organic Mixture	Black Liquid	55	Steel Drum	>140 deg	No	No	Yes	7	No	No	No	No	AR-758796
50416	Mixed Solvent	Black Sludge	55	Steel Drum	>140 deg	No	No	No	No	No	No	No	No	AR-758796
50417	Mixed Solvent	Black Sludge	55	Steel Drum	<140 deg	No	No	No	No	No	No	No	No	AR-758796
50418	Mixed Solvent	Solids	55	Steel Drum	<140 deg	No	No	No	No	No	No	No	No	AR-758796
50419	Mixed Solvent	Glue	55	Steel Drum	<140 deg	No	No	No	No	No	No	No	No	AR-758796
50420	Mixed Solvent	Red Liquid	55	Steel Drum	<140 deg	No	No	Yes	7	No	No	No	No	AR-758796
50421	Organic Mixture	Yellow Liquid	55	Steel Drum	<140 deg	No	No	No	No	No	No	No	No	AR-758796
50422	Mixed Solvent	Brown Liquid	55	Steel Drum	<140 deg	No	No	No	No	No	No	No	No	AR-758796
50423	Mixed Solvent	Red Liquid	55	Steel Drum	<140 deg	No	No	Yes	7	No	No	No	No	AR-758796
50424	Lean Organic Mixture	Greasy Liquid	55	Steel Drum	No	No	No	Yes	7	No	No	No	No	AR-758796
50425	Solidified Resin	Paint Solids	55	Steel Drum	>140 deg	No	No	No	No	No	No	No	No	AR-758796
50426	Organic Mixture	Brown Liquid	55	Steel Drum	<140 deg	No	No	Yes	7	No	No	No	No	AR-758796
50427	Solidified Resin	Blak Solid	55	Steel Drum	<140 deg	No	No	No	No	No	No	No	No	AR-758796
50428	Organic Mixture	Red Liquid	55	Steel Drum	>140 deg	No	No	Yes	7	No	No	No	No	AR-758798
50429	Solidified Resin	Plastic	55	Steel Drum	>140 deg	No	No	No	No	No	No	No	No	AR-758791
50430	Organic Mixture	Red Liquid	55	Steel Drum	No	No	No	Slight	5	No	No	No	No	AR-758791
50431	Mixed Solvent	Still Bottom	55	Steel Drum	>140 deg	No	No	No	No	No	No	No	No	AR-758800
50432	Mixed Solvent	Still Bottom	55	Steel Drum	>140 deg	No	No	No	No	No	No	No	No	AR-758800
50433	Mixed Solvent	Still Bottom	55	Steel Drum	>140 deg	No	No	No	No	No	No	No	No	AR-758800
50434	Chemical Sludge	White Liquid	55	Steel Drum	No	No	No	Yes	7	No	No	No	No	AR-758791
50435	Chemical Sludge	White Liquid	55	Steel Drum	No	No	No	Yes	7	No	No	No	No	AR-758791
50436	Chemical Sludge	Beige Liquid	55	Steel Drum	No	No	No	Yes	7	No	No	No	No	AR-758791
50437	Chemical Sludge	White Liquid	55	Steel Drum	No	No	No	Yes	7	No	No	No	No	AR-758791
50438	Absorbent/Soil	Soil	55	Steel Drum	No	No	No	Partial	7	No	No	No	No	AR-758791
50439	Absorbent/Soil	Soil	55	Steel Drum	No	No	No	Partial	7	No	No	No	No	AR-758791
50440	Absorbent/Soil	Soil	55	Steel Drum	No	No	No	Partial	7	No	No	No	No	AR-758791
50441	Absorbent/Soil	Soil	55	Steel Drum	No	No	No	Partial	7	No	No	No	No	AR-758791
50442	Organic Acid	Clear Liquid	55	Poly Drum	No	No	No	Yes	3	No	No	No	No	AR-758800
50443	Solidified Resin	White Solid	55	Steel Drum	No	No	No	No	No	No	No	No	No	AR-758800
50444	Organic Mixture	Black Liquid	55	Steel Drum	<140 deg	No	No	Yes	7	No	No	No	No	AR-758791
50445	Organic Mixture	Oily Liquid	55	Steel Drum	>140 deg	No	No	Yes	7	No	No	No	No	AR-758810
50446	Organic Mixture	White Liquid	55	Steel Drum	No	No	No	Yes	3	No	No	No	No	AR-758791
50447	Organic Mixture	White Liquid	55	Steel Drum	No	No	No	Yes	3	No	No	No	No	AR-758791
50448	Activated Charcoal	Carbon	55	Steel Drum	No	No	No	Slight	10	No	No	No	No	AR-758816
50449	Organic Mixture	Green Liquid	55	Steel Drum	No	No	No	Yes	8	No	No	No	No	AR-758791
50450	Debris, Rags, Filters	Paper	55	Steel Drum	<140 deg	No	No	No	No	No	No	No	No	AR-758806
50451	Mixed Solvent	Still Bottom	55	Steel Drum	>140 deg	No	No	No	No	No	No	No	No	AR-758791
50452	Mixed Solvent	Still Bottom	55	Steel Drum	>140 deg	No	No	Yes	7	No	No	No	No	AR-758791
50453	Organic Mixture	Black Water	55	Steel Drum	No	No	No	Yes	7	No	No	No	No	AR-758791
50454	Chemical Sludge	Black Sludge	55	Steel Drum	>140 deg	No	No	No	No	No	No	No	No	AR-758791
50455	Organic Mixture	Black Sludge	55	Steel Drum	>140 deg	No	No	No	No	No	No	No	No	AR-758791
50456	Organic Mixture	Black Sludge	55	Steel Drum	>140 deg	No	No	Slight	7	No	No	No	No	AR-758791
50457	Lean Organic Mixture	Brown Liquid	55	Steel Drum	>140 deg	No	No	Slight	5	No	No	No	No	AR-758791
50458	Solidified Resin	White Wax	55	Steel Drum	>140 deg	No	No	No	No	No	No	No	No	AR-758791
50459	Organic Mixture	Still Bottom	55	Steel Drum	No	No	No	Yes	2	No	No	No	No	AR-758798
50460	Organic Mixture	Still Bottom	55	Steel Drum	>140 deg	No	No	Yes	7	No	No	No	No	AR-758798
50461	Debris, Rags, Filters	Paper	55	Steel Drum	>140 deg	No	No	No	No	No	No	No	No	AR-758798
50462	Organic Mixture	Still Bottom	55	Steel Drum	>140 deg	No	No	No	No	No	No	No	No	AR-758796
50463	Organic Mixture	Still Bottom	55	Steel Drum	>140 deg	No	No	No	No	No	No	No	No	AR-758798
50464	Organic Mixture	Yellow Liquid	55	Steel Drum	>140 deg	No	No	Yes	7	No	No	No	No	AR-758808
50465	Debris, Rags, Filters	Paper	55	Steel Drum	>140 deg	No	No	No	No	No	No	No	No	AR-758796

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Omega Drum Removal - HazCat Log

Drum No.	Waste Description	Physical Description	Container Volume	Container Type	Flammability	Air Reactive	Water Reactive	Water Soluble	pH	Oxidizer	Cyanide	Sulfide	Peroxide	Manifest No.
50466	Debris, Rags, Filters	Paper	55	Steel Drum	>140 deg	No	No	No	No	No	No	No	No	AR-758792
50467	Debris, Rags, Filters	Paper	55	Steel Drum	>140 deg	No	No	No	No	No	No	No	No	AR-758792
50468	Debris, Rags, Filters	Paper	55	Steel Drum	>140 deg	No	No	No	No	No	No	No	No	AR-758796
50469	Mixed Solvent	Still Bottom	55	Steel Drum	>140 deg	No	No	No	No	No	No	No	No	AR-758791
50470	Mixed Solvent	Still Bottom	55	Steel Drum	>140 deg	No	No	No	No	No	No	No	No	AR-758791
50471	Mixed Solvent	Still Bottom	55	Steel Drum	>140 deg	No	No	No	No	No	No	No	No	AR-758791
50472	Lean Organic Mixture	Anti-Freeze	55	Steel Drum	>140 deg	No	No	Yes	4	No	No	No	No	AR-758806
50473	Absorbent/Soil	Soil	55	Steel Drum	No	No	No	No	No	No	No	No	No	AR-758791
50474	Solidified Resin	Soil	55	Steel Drum	>140 deg	No	No	No	No	No	No	No	No	AR-758791
50475	Solidified Resin	Soil	55	Steel Drum	>140 deg	No	No	No	No	No	No	No	No	AR-758791
50477	Organic Mixture	White Jelly	55	Steel Drum	<140 deg	No	No	No	No	No	No	No	No	AR-758791
50478	Mixed Solvent	Blue Liquid	55	Steel Drum	>140 deg	No	No	No	No	No	No	No	No	AR-758791
50479	Solidified Resin	Resin	55	Steel Drum	<140 deg	No	No	No	No	No	No	No	No	AR-758791
50480	Chemical Sludge	Black Sludge	55	Poly Drum	>140 deg	No	No	No	No	No	No	No	No	AR-758791
50481	Debris, Rags, Filters	Glass Ware	55	Poly Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758791
50482	Oxidizer	Blue Liquid	55	Poly Drum	No	No	No	Yes	4	Yes	No	No	No	AR-758812
50483	Oxidizer	Blue Liquid	55	Poly Drum	No	No	No	Yes	4	Yes	No	No	No	AR-758812
50484	Oxidizer	Green Liquid	55	Poly Drum	No	No	No	Yes	7	Yes	No	No	No	AR-758812
50485	Oxidizer	Blue Liquid	55	Poly Drum	No	No	No	Yes	7	Yes	No	No	No	AR-758812
50486	Alkaline Liquid	Yellow Liquid	55	Steel Drum	No	No	No	Yes	12	No	No	No	No	AR-758819
50487	Organic Mixture	Black Water	55	Steel Drum	No	No	No	Yes	7	No	No	No	No	AR-758791
50488	Acid Sludge	Reactive	55	Steel Drum	No	No	No	Yes	3	No	No	No	No	AR-758826
50489	Organic Mixture	Black Water	55	Steel Drum	No	No	No	Yes	2	No	No	No	No	AR-758796
50490	Absorbent/Soil	Soil	55	Steel Drum	No	No	No	No	No	No	No	No	No	AR-758796
50491	Solidified Resin	Absorbent	55	Steel Drum	>140 deg	No	No	No	No	No	No	No	No	AR-758796
50492	Absorbent/Soil	Absorbent	55	Steel Drum	>140 deg	No	No	No	No	No	No	No	No	AR-758791
50493	Organic Mixture	Purple Liquid	55	Steel Drum	>140 deg	No	No	Yes	7	No	No	No	No	AR-758791
50494	Organic Mixture	Black Liquid	55	Steel Drum	<140 deg	No	No	No	No	No	No	No	No	AR-758791
50495	Debris, Rags, Filters	Paper	55	Steel Drum	>140 deg	No	No	No	No	No	No	No	No	AR-758794
50496	Debris, Rags, Filters	Paper	55	Steel Drum	>140 deg	No	No	No	No	No	No	No	No	AR-758800
50497	Debris, Rags, Filters	Paper	55	Steel Drum	>140 deg	No	No	No	No	No	No	No	No	AR-758800
50498	Absorbent/Soil	Soil	55	Steel Drum	No	No	No	No	No	No	No	No	No	AR-758800
50499	Solidified Resin	Absorbent	55	Steel Drum	>140 deg	No	No	No	No	No	No	No	No	AR-758798
50500	Debris, Rags, Filters	Rags	55	Steel Drum	<140 deg	No	No	No	No	No	No	No	No	AR-758791
50501	Absorbent/Soil	Soil	55	Steel Drum	No	No	No	No	No	No	No	No	No	AR-758791
50502	Debris, Rags, Filters	Paper	55	Steel Drum	<140 deg	No	No	No	No	No	No	No	No	AR-758791
50503	Absorbent/Soil	Black Solid	55	Steel Drum	No	No	No	No	No	No	No	No	No	AR-758791
50504	Absorbent/Soil	Black Sludge	55	Steel Drum	No	No	No	Yes	7	No	No	No	No	AR-758810
50505	Absorbent/Soil	Black Solid	55	Steel Drum	No	No	No	No	No	No	No	No	No	AR-758815
50506	Absorbent/Soil	Soil	55	Steel Drum	No	No	No	Yes	7	No	No	No	No	AR-758818
50507	Absorbent/Soil	Soil	55	Steel Drum	No	No	No	Slight	10	No	No	No	No	AR-758800
50508	Organic Mixture	Oily Water	55	Steel Drum	No	No	No	Yes	7	No	No	No	No	AR-758800
50509	Absorbent/Soil	Soil	55	Steel Drum	No	No	No	Slight	7	No	No	No	No	AR-758794
50510	Organic Mixture	Red Liquid	55	Steel Drum	>140 deg	No	No	Slight	7	No	No	No	No	AR-758792
50511	Solidified Resin	White Solid	55	Steel Drum	No	No	No	No	No	No	No	No	No	AR-758794
50512	Absorbent/Soil	Soil	55	Steel Drum	No	No	No	No	No	No	No	No	No	AR-758800
50513	Absorbent/Soil	Grey Solids	55	Steel Drum	>140 deg	No	No	No	No	No	No	No	No	AR-758800
50514	Absorbent/Soil	Grease	55	Steel Drum	No	No	No	No	No	No	No	No	No	AR-758800
50515	Alkaline Sludge	Brown Water	55	Steel Drum	>140 deg	No	No	Yes	14	No	No	No	No	AR-758802
50516	Solidified Resin	Black Solids	55	Steel Drum	No	No	No	No	No	No	No	No	No	AR-758800
50517	Acid Sludge	Red Jelly	55	Steel Drum	No	No	No	Yes	1	No	No	No	No	AR-758802

Volumes are in gallons unless otherwise specified. NS = Not sampled.

Omega Drum Removal - HazCat Log

Drum No.	Waste Description	Physical Description	Container Volume	Container Type	Flammability	Air Reactive	Water Reactive	Water Soluble	pH	Oxidizer	Cyanide	Sulfide	Peroxide	Manifest No.
50518	Absorbent/Soil	Soil	55	Steel Drum	No	No	No	No	No	No	No	No	No	AR-758804
50519	Solidified Resin	Green Sludge	55	Steel Drum	>140 deg	No	No	No	No	No	No	No	No	AR-758804
50520	Absorbent/Soil	Absorbent	55	Steel Drum	No	No	No	Slight	7	No	No	No	No	AR-758810
50521	Chemical Solids	White Powder	55	Steel Drum	No	No	No	Yes	8	No	No	No	No	AR-758800
50522	Absorbent/Soil	Absorbent	55	Steel Drum	No	No	No	No	No	No	No	No	No	AR-758800
50523	Absorbent/Soil	Absorbent	55	Steel Drum	>140 deg	No	No	No	No	No	No	No	No	AR-758800
50524	Mixed Solvent	Still Bottom	55	Steel Drum	>140 deg	No	No	No	No	No	No	No	No	AR-758800
50525	Debris, Rags, Filters	Green Fiber	55	Steel Drum	>140 deg	No	No	No	No	No	No	No	No	AR-758800
50526	Absorbent/Soil	Soil	55	Steel Drum	>140 deg	No	No	No	No	No	No	No	No	AR-758794
50527	Debris, Rags, Filters	Cloth	55	Steel Drum	<140 deg	No	No	No	No	No	No	No	No	AR-758794
50528	Mixed Solvent	Still Bottom	55	Steel Drum	>140 deg	No	No	No	No	No	No	No	No	AR-758794
50529	Mixed Solvent	Still Bottom	55	Steel Drum	>140 deg	No	No	No	No	No	No	No	No	AR-758794
50530	Chemical Sludge	Bi Layer	55	Steel Drum	No	No	No	No	7	No	No	No	No	AR-758800
50531	Chemical Sludge	White Solid	55	Steel Drum	No	No	No	No	7	No	No	No	No	AR-758800
50532	Chemical Sludge	Black Liquid	55	Steel Drum	No	No	No	No	7	No	No	No	No	AR-758800
50533	Chemical Sludge	Black Sludge	55	Steel Drum	No	No	No	No	7	No	No	No	No	AR-758813
50534	Chemical Sludge	Brown Solid	55	Steel Drum	No	No	No	No	7	No	No	No	No	AR-758792
50535	Absorbent/Soil	Verm./White Solid	55	Steel Drum	No	No	No	No	7	No	No	No	No	AR-758800
50536	Powder & Granular Oxidizers	Vemriculate	55	Steel Drum	No	No	No	No	7	Yes	No	No	No	AR-758808
50537	Absorbent/Soil	Black/Yellow	55	Steel Drum	No	No	No	No	7	No	No	No	No	AR-758804
50538	Organic Mixture	Bi Layer Liquid	55	Steel Drum	No	No	No	No	7	No	No	No	No	AR-758822
50539	Chemical Sludge	Black Liquid	55	Steel Drum	No	No	No	No	7	No	No	No	No	AR-758792
50540	Chemical Sludge	Black Liquid	55	Steel Drum	No	No	No	No	7	No	No	No	No	AR-758792
50541	Solidified Resin, Paint	Resin	55	Steel Drum	No	No	No	No	7	No	No	No	No	AR-758792
50542	Alkaline Sludge	Amber Liquid	55	Poly Drum	No	No	No	No	13	No	No	No	No	AR-758837
50543	Aerosol Cans	Lab Pack	55	Poly Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758809
50544	Absorbent/Soil	Soil	55	Steel Drum	No	No	No	No	No	No	No	No	No	AR-758809
50545	Debris, Rags, Filters	Crushed Cans	55	Steel Drum	NS	NS	NS	NS	NS	NS	NS	NS	NS	AR-758809
50546	Organic Mixture	Brown Liquid	55	Steel Drum	No	No	No	Yes	5	No	No	No	No	AR-758809
50547	Chemical Sludge	Brown Liquid	55	Steel Drum	>140 deg	No	No	No	No	No	No	No	No	AR-758809
50548	Chemical Sludge	White Solid	55	Steel Drum	No	No	No	No	No	No	No	No	No	AR-758809
50549	Chemical Sludge	Brown Liquid	55	Steel Drum	>140 deg	No	No	Yes	7	No	No	No	No	AR-758809
50550	Chemical Sludge	Brown Liquid	55	Steel Drum	No	No	No	No	No	No	No	No	No	AR-758809
50551	Chemical Sludge	Brown Liquid	55	Steel Drum	No	No	No	Yes	7	No	No	No	No	AR-758809
50552	Chemical Sludge	Brown Liquid	55	Steel Drum	No	No	No	No	No	No	No	No	No	AR-758809
50553	Absorbent/Soil	Soil	55	Steel Drum	>140 deg	No	No	No	No	No	No	No	No	AR-758809
50554	Chemical Sludge	Brown Sludge	55	Steel Drum	>140 deg	No	No	No	No	No	No	No	No	AR-758809
50555	Chemical Sludge	Brown Liquid	55	Steel Drum	>140 deg	No	No	Yes	7	No	No	No	No	AR-758818
50556	Chemical Sludge	Grey Sludge	55	Steel Drum	>140 deg	No	No	No	No	No	No	No	No	AR-758818
50557	Chemical Sludge	Grey Sludge	55	Steel Drum	>140 deg	No	No	No	No	No	No	No	No	AR-758822
50558	Chemical Sludge	Grey Sludge	55	Steel Drum	>140 deg	No	No	No	No	No	No	No	No	AR-758818
50559	Solidified Resin, Paint	Still Bottom	55	Steel Drum	>140 deg	No	No	No	No	No	No	No	No	AR-758821
50560	Solidified Resin, Paint	Green Sludge	55	Steel Drum	>140 deg	No	No	No	No	No	No	No	No	AR-758821
50561	Solidified Resin, Paint	Brown Sludge	55	Steel Drum	>140 deg	No	No	No	No	No	No	No	No	AR-758821
50562	Absorbent/Soil	Solid	55	Steel Drum	No	No	No	Yes	7	No	No	No	No	AR-758821
50563	Chemical Sludge	Grey Sludge	55	Steel Drum	>140 deg	No	No	No	No	No	No	No	No	AR-758824
50564	Chemical Sludge	Grey Sludge	55	Steel Drum	>140 deg	No	No	No	No	No	No	No	No	AR-758824
50565	Chemical Sludge	Grey Sludge	55	Steel Drum	>140 deg	No	No	No	No	No	No	No	No	AR-758824
50566	Chemical Sludge	Grey Sludge	55	Steel Drum	>140 deg	No	No	No	No	No	No	No	No	AR-758824
50567	Solidified Resin, Paint	Asphalt	55	Steel Drum	>140 deg	No	No	No	No	No	No	No	No	AR-758809

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Omega Drum Removal - HazCat Log

Drum No.	Waste Description	Physical Description	Container Volume	Container Type	Flammability	Air Reactive	Water Reactive	Water Soluble	pH	Oxidizer	Cyanide	Sulfide	Peroxide	Manifest No.
50568	Chemical Sludge	Asphalt	55	Steel Drum	No	No	No	No	No	No	No	No	No	AR-758809
50569	Absorbent/Soil	Absorbent	55	Steel Drum	No	No	No	Yes	7	No	No	No	No	AR-758809
50570	Chemical Sludge	Absorbent	55	Steel Drum	No	No	No	No	No	No	No	No	No	AR-758809
50571	Mixed Solvents	Black Liquid	55	Steel Drum	>140 deg	No	No	Yes	7	No	No	No	No	AR-758809
50572	Lean Organic Mixture	Oily Water	55	Steel Drum	No	No	No	Yes	7	No	No	No	No	AR-758809
50573	Mixed Solvents	Black Liquid	55	Steel Drum	>140 deg	No	No	Yes	7	No	No	No	No	AR-758809
50574	Mixed Solvents	Black Liquid	55	Steel Drum	>140 deg	No	No	Yes	7	No	No	No	No	AR-758809
50575	Chemical Sludge	Creamy Liquid	55	Steel Drum	>140 deg	No	No	Yes	7	No	No	No	No	AR-758809
50576	Chemical Sludge	Green Sludge	55	Steel Drum	>140 deg	No	No	No	No	No	No	No	No	AR-758809
50577	Chemical Sludge	Grey Paint	55	Steel Drum	>140 deg	No	No	No	No	No	No	No	No	AR-758809
50578	Chemical Sludge	Grey Paint	55	Steel Drum	>140 deg	No	No	No	No	No	No	No	No	AR-758809
50579	Solidified Resin, Paint	Green Grease	55	Steel Drum	>140 deg	No	No	No	No	No	No	No	No	AR-758818
50580	Solidified Resin, Paint	Green Grease	55	Steel Drum	>140 deg	No	No	No	No	No	No	No	No	AR-758820
50581	Chemical Sludge	Asphalt	55	Steel Drum	No	No	No	Yes	7	No	No	No	No	AR-758818
50582	Chemical Sludge	Green Sludge	55	Steel Drum	<140 deg	No	No	No	No	No	No	No	No	AR-758818
50583	Organic Mixture	Clear Liquid	55	Steel Drum	No	No	No	No	7	No	No	No	No	AR-758823
50584	Absorbent/Soil	Dirt	55	Steel Drum	No	No	No	Yes	7	No	No	No	No	AR-758823
50585	Absorbent/Soil	Dirt	55	Steel Drum	No	No	No	Yes	7	No	No	No	No	AR-758823
50586	Absorbent/Soil	Resin	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758823
50587	Absorbent Lab Pack Removed	White Solid	55	Steel Drum	No	No	No	Yes	7	No	No	No	No	AR-758792
50588	Lean Organic Mixture	Oily Water	55	Steel Drum	No	No	No	No	7	No	No	No	No	AR-758823
50589	Absorbent/Soil	Vermiculate	55	Steel Drum	No	No	No	No	7	No	No	No	No	AR-758820
50590	Powder & Granular Oxidizers	Am. Persulfate	55	Steel Drum	No	No	No	Yes	9	No	No	No	No	AR-758808
50591	Chemical Sludge	Latex Paint	55	Steel Drum	No	No	No	Yes	7	No	No	No	No	AR-758798
50592	Chemical Sludge	Sludge	55	Steel Drum	No	No	No	Yes	7	No	No	No	No	AR-758798
50593	Chemical Sludge	Bi Layer	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758798
50594	Chemical Sludge	Sludge	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758798
50595	Mixed Solvents	Brown Liquid	55	Steel Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758798
50596	Paint, Resins	Black Liquid	55	Steel Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758837
50597	Chemical Sludge	Brown Liquid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758798
50598	Chemical Sludge	Sludge	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758798
50599	Chemical Sludge	Sludge Brn. Liq	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758811
50600	Chemical Sludge	Black Solid	55	Steel Drum	No	No	No	No	7	No	No	No	No	AR-758792
50601	Chemical Sludge	Paint Sludge	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758792
50602	Chemical Sludge	Paint Sludge	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758792
50603	Absorbent/Soil	Vermiculate	55	Steel Drum	No	No	No	No	7	No	No	No	No	AR-758809
50604	Absorbent/Soil	Vermiculate	55	Steel Drum	No	No	No	No	7	No	No	No	No	AR-758809
50605	Absorbent/Soil	Vermiculate	55	Steel Drum	No	No	No	No	7	No	No	No	No	AR-758809
50606	Chemical Sludge	Paint	55	Steel Drum	No	No	No	No	7	No	No	No	No	AR-758809
50607	Chemical Sludge	Sludge	55	Steel Drum	No	No	No	No	7	No	No	No	No	AR-758809
50608	Chemical Sludge	Sludge	55	Steel Drum	No	No	No	No	7	No	No	No	No	AR-758809
50609	Chemical Sludge	Sludge	55	Steel Drum	No	No	No	No	7	No	No	No	No	AR-758809
50610	Chemical Sludge	Black Liquid	55	Steel Drum	No	No	No	No	7	No	No	No	No	AR-758809
50611	Absorbent/Soil	Black Absorb.	55	Steel Drum	No	No	No	No	7	No	No	No	No	AR-758795
50612	Absorbent/Soil	Brown Solid	55	Steel Drum	No	No	No	No	7	No	No	No	No	AR-758795
50613	Absorbent/Soil	Absorb.	55	Steel Drum	No	No	No	No	7	No	No	No	No	AR-758795
50614	Absorbent/Soil	Black Absorb.	55	Steel Drum	No	No	No	No	7	No	No	No	No	AR-758795
50615	Chemical Sludge	Sludge Liquid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758795
50616	Chemical Sludge	Brown Sludge	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758795

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Omega Drum Removal - HazCat Log

Drum No.	Waste Description	Physical Description	Container Volume	Container Type	Flammability	Air Reactive	Water Reactive	Water Soluble	pH	Oxidizer	Cyanide	Sulfide	Peroxide	Manifest No.
50617	Chemical Sludge	Brown Liquid	55	Steel Drum	No	No	No	No	7	No	No	No	No	AR-758795
50618	Chemical Sludge	Black Liquid	55	Steel Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758795
50619	Chemical Sludge	Yellow Liquid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758809
50620	Solidified Resin, Paint	Sludge	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758807
50621	Debris, Rags, Filters	Debris	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758807
50622	Chemical Sludge	Sludge	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758807
50623	Solidified Resin, Paint	Resin	55	Steel Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758807
50624	Chemical Sludge	Sludge	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758807
50625	Chemical Sludge	Paint Liquid	55	Steel Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758810
50626	Chemical Sludge	Brown Liquid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758807
50627	Chemical Sludge	Liquid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758795
50628	Absorbent/Soil	Black Solid	55	Steel Drum	No	No	No	No	7	No	No	No	No	AR-758795
50629	Chemical Sludge	Brown Liquid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758795
50630	Chemical Sludge	Brown Liquid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758795
50631	Absorbent/Soil	Brown Solid	55	Steel Drum	No	No	No	No	7	No	No	No	No	AR-758795
50632	Chemical Sludge	White Liquid	55	Steel Drum	No	No	No	No	7	No	No	No	No	AR-758795
50633	Chemical Sludge	Sludge Liquid	55	Steel Drum	No	No	No	No	7	No	No	No	No	AR-758795
50634	Debris, Rags, Filters	Brown Liquid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758823
50635	Chemical Sludge	Beige Liquid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758795
50636	Chemical Sludge	Brown Liquid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758795
50637	Chemical Sludge	Yellow Liquid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758795
50638	Organic Mixture	Water/Oil	55	Steel Drum	No	No	No	No	7	No	No	No	No	AR-758795
50639	Debris, Rags, Filters	PPE	55	Steel Drum	No	No	No	No	7	No	No	No	No	AR-758795
50640	Absorbent/Soil	Sludge	55	Steel Drum	No	No	No	No	7	No	No	No	No	AR-758795
50641	Chemical Sludge	Brown Liquid	55	Steel Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758795
50642	Chemical Sludge	Brown Liquid	55	Steel Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758795
50643	Absorbent/Soil	Brown Solid	55	Steel Drum	No	No	No	No	7	No	No	No	No	AR-758805
50644	Chemical Sludge	Brown Liquid	55	Steel Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758795
50645	Chemical Sludge	Black Liquid	55	Steel Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758795
50646	Chemical Sludge	Black Liquid	55	Steel Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758795
50647	Organic Mixture	Grey Liquid	55	Steel Drum	No	No	No	No	7	No	No	No	No	AR-758807
50648	Chemical Sludge	Amber Liquid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758807
50649	Organic Mixture	White Liquid	55	Steel Drum	No	No	No	No	7	No	No	No	No	AR-758807
50650	Chemical Sludge	Sludge	55	Steel Drum	No	No	No	No	7	No	No	No	No	AR-758807
50651	Organic Mixture	Green Liquid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758797
50652	Solidified Resin, Paint	Black Liquid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758797
50653	Chemical Sludge	Black Solid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758797
50654	Solidified Resin, Paint	Black Liquid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758797
50655	Solidified Resin, Paint	Black Liquid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758797
50656	Chemical Sludge	Black Liquid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758797
50657	Chemical Sludge	Black Liquid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758797
50658	Chemical Sludge	Black Liquid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758797
50659	Debris, Rags, Filters	Debris	55	Steel Drum	No	No	No	No	7	No	No	No	No	AR-758797
50660	Chemical Sludge	Black Liquid	55	Steel Drum	No	No	No	Yes	7	No	No	No	No	AR-758797
50661	Powder & Granular Oxidizers	Vermiculate	55	Steel Drum	No	No	No	No	7	No	No	No	No	AR-758805
50662	Chemical Sludge	Amber Liquid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758797
50663	Absorbent/Soil	White Solid	55	Steel Drum	No	No	No	No	7	No	No	No	No	AR-758797
50664	Chemical Sludge	Black Liquid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758797
50665	Solidified Resin, Paint	Resin	55	Steel Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758797
50666	Chemical Sludge	Black Liquid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758797

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Omega Drum Removal - HazCat Log

Drum No.	Waste Description	Physical Description	Container Volume	Container Type	Flammability	Air Reactive	Water Reactive	Water Soluble	pH	Oxidizer	Cyanide	Sulfide	Peroxide	Manifest No.
50667	Chemical Sludge	Rags	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758797
50668	Debris, Rags, Filters	Debris	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758797
50669	Debris, Rags, Filters	Black Liquid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758797
50670	Chemical Sludge	Debris	55	Steel Drum	No	No	No	No	7	No	No	No	No	AR-758797
50671	Debris, Rags, Filters	Resin	55	Steel Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758797
50672	Organic Mixture	Sludge	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758797
50674	Absorbent/Soil	Black Liquid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758797
50675	Chemical Sludge	Water/Oil	55	Steel Drum	No	No	No	No	7	No	No	No	No	AR-758797
50676	Absorbent/Soil	Black Solid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758797
50677	Chemical Sludge	Black Liquid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758797
50678	Absorbent/Soil	Brown Solid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758797
50679	Absorbent/Soil	Vermiculate	55	Steel Drum	No	No	No	No	7	No	No	No	No	AR-758797
50680	Debris, Rags, Filters	Debris	55	Steel Drum	No	No	No	No	7	No	No	No	No	AR-758797
50681	Chemical Sludge	Brown Liquid	55	Steel Drum	No	No	No	No	7	No	No	No	No	AR-758797
50682	Chemical Sludge	Brown Liquid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758816
50683	Solidified Resin, Paint	Brown Solid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758816
50684	Solidified Resin, Paint	Yellow Solid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758816
50685	Absorbent/Soil	Absorbent	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758816
50686	Chemical Sludge	Black Liquid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758817
50687	Chemical Sludge	Black Liquid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758816
50688	Chemical Sludge	Black Liquid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758817
50689	Chemical Sludge	Oily Water	55	Poly Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758816
50690	Chemical Sludge	Black Solid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758817
50691	Organic Mixture	Black Liquid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758822
50692	Chemical Sludge	Black Liquid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758822
50693	Chemical Sludge	Black Liquid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758822
50694	Chemical Sludge	Sludge	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758822
50695	Chemical Sludge	Brown Liquid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758818
50696	Absorbent/Soil	Brown Solid	55	Steel Drum	No	No	No	Yes	7	No	No	No	No	AR-758797
50697	Absorbent/Soil	Absorbent	55	Steel Drum	No	No	No	No	7	No	No	No	No	AR-758797
50698	Absorbent/Soil	Vermiculite	55	Steel Drum	No	No	No	No	7	No	No	No	No	AR-758797
50699	Absorbent/Soil	Vermiculite	55	Steel Drum	No	No	No	No	7	No	No	No	No	AR-758797
50700	Absorbent/Soil	Vermiculite	55	Steel Drum	No	No	No	No	7	No	No	No	No	AR-758797
50701	Absorbent/Soil	Vermiculite	55	Steel Drum	No	No	No	No	7	No	No	No	No	AR-758797
50702	Absorbent/Soil	Absorbent	55	Steel Drum	No	No	No	No	7	No	No	No	No	AR-758797
50703	Absorbent/Soil	Vermiculite	55	Steel Drum	No	No	No	No	7	No	No	No	No	AR-758797
50704	Absorbent/Soil	Vermiculite	55	Steel Drum	No	No	No	No	7	No	No	No	No	AR-758797
50705	Absorbent/Soil	Vermiculite	55	Steel Drum	No	No	No	No	7	No	No	No	No	AR-758797
50706	Absorbent/Soil	Dirt	55	Steel Drum	No	No	No	No	7	No	No	No	No	AR-758817
50707	Absorbent/Soil	Vermiculite	55	Steel Drum	No	No	No	No	7	No	No	No	No	AR-758817
50708	Absorbent/Soil	Dirt	55	Steel Drum	No	No	No	No	7	No	No	No	No	AR-758817
50709	Solidified Resin, Paint	Black Solid	55	Steel Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758817
50710	Absorbent/Soil	Brown Solid	55	Steel Drum	No	No	No	No	7	No	No	No	No	AR-758809
50711	Debris, Rags, Filters	Pink Solid	55	Steel Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758815
50712	Powder & Granular Oxidizers	Dirt	55	Steel Drum	No	No	No	Yes	7	No	No	No	No	AR-758811
50713	Solidified Resin, Paint	Amber Solid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758815
50714	Chemical Sludge	Black Solid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758804
50715	Chemical Sludge	Ink	55	Steel Drum	>140 deg	No	No	Yes	7	No	No	No	No	AR-758804
50716	Chemical Sludge	Black Solid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758804
50717	Absorbent/Soil	Vemiculite	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758820

Volumes are in gallons unless otherwise specified. NS = Not sampled.

Omega Drum Removal - HazCat Log

Drum No.	Waste Description	Physical Description	Container Volume	Container Type	Flammablilty	Air Reactive	Water Reactive	Water Soluble	pH	Oxidizer	Cyanide	Sulfide	Peroxide	Manifest No.
50718	Chemical Sludge	Vemiculite	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758809
50719	Absorbent/Soil	Vemiculite	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758809
50720	Absorbent/Soil	Vemiculite	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758809
50721	Absorbent/Soil	Vemiculite	55	Steel Drum	No	No	No	No	7	No	No	No	No	AR-758809
50722	Absorbent/Soil	Solid (100%)	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758797
50723	Chemical Sludge	Liquid (100%)	55	Steel Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758797
50724	Chemical Sludge	Solid (95%)	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758797
50725	Powder & Granular Oxidizers	Solid (100%)	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758811
50726	Absorbent/Soil	Solid (100%)	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758809
50727	Absorbent/Soil	Solid (100%)	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758809
50728	Absorbent/Soil	Solid (100%)	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758809
50729	Absorbent/Soil	Solid (100%)	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758809
50730	Absorbent/Soil	Solid (100%)	55	Steel Drum	>140 deg	No	No	No	6	No	No	No	No	AR-758809
50731	Chemical Sludge	Solid (100%)	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758809
50732	Absorbent/Soil	Solid (90%)	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758809
50733	Chemical Sludge	Paint Cans	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758809
50734	Organic Mixture	Solid (90%)	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758809
50735	Absorbent/Soil	Solid (100%)	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758809
50736	Absorbent/Soil	Solid (100%)	55	Steel Drum	>140 deg	No	No	No	8	No	No	No	No	AR-758809
50737	Chemical Sludge	Liquid (20%)	55	Steel Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758809
50738	Absorbent/Soil	Solid (100%)	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758820
50739	Absorbent/Soil	Solid (100%)	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758820
50740	Absorbent/Soil	Solid (100%)	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758820
50741	Absorbent/Soil	Solid (100%)	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758820
50742	Absorbent/Soil	Solid (100%)	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758815
50743	Absorbent/Soil	Solid (100%)	55	Steel Drum	>140 deg	No	No	No	6	No	No	No	No	AR-758815
50744	Absorbent/Soil	Solid (100%)	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758815
50745	Absorbent/Soil	Solid (100%)	55	Steel Drum	>140 deg	No	No	No	8	No	No	No	No	AR-758815
50746	Oxidizing Liquid	Solid (100%)	55	Steel Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758817
50747	Absorbent/Soil	Solid (100%)	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758809
50748	Absorbent/Soil	Brown Solid	55	Steel Drum	>140 deg	No	No	No	8	No	No	No	No	AR-758822
50749	Absorbent/Soil	Solid (100%)	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758803
50750	Absorbent/Soil	Solid (100%)	55	Steel Drum	>140 deg	No	No	No	8	No	No	No	No	AR-758824
50751	Absorbent/Soil	Solid (100%)	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758820
50752	Absorbent/Soil	Solid (100%)	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758820
50753	Absorbent/Soil	Solid (100%)	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758820
50754	Absorbent/Soil	Solid (100%)	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758815
50755	Absorbent/Soil	Solid (100%)	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758803
50756	Absorbent/Soil	Solid (100%)	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758803
50757	Absorbent/Soil	Solid (100%)	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758803
50758	Debris, Rags, Filters	Black Solid	55	Steel Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758822
50759	Absorbent/Soil	Vermiculite	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758822
50760	Absorbent/Soil	Black Solid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758822
50761	Chemical Sludge	Black Liquid	55	Steel Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758823
50762	Absorbent/Soil	Black Solid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758809
50763	Absorbent/Soil	Black Solid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758809
50764	Alkaline Solids	White Solid	55	Steel Drum	>140 deg	No	No	No	14	No	No	No	No	AR-758809
50765	Absorbent/Soil	White Solid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758809
50766	Absorbent/Soil	Vermiculite	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758809
50767	Absorbent/Soil	Absorbent	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758809

Volumes are in gallons unless otherwise specified. NS = Not sampled.

Omega Drum Removal - HazCat Log

Drum No.	Waste Description	Physical Description	Container Volume	Container Type	Flammability	Air Reactive	Water Reactive	Water Soluble	pH	Oxidizer	Cyanide	Sulfide	Peroxide	Manifest No.
50768	Absorbent/Soil	Vermiculite	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758809
50769	Absorbent/Soil	100% Solid	55	Steel Drum	>140 deg	No	No	No	8	No	No	No	No	AR-758809
50770	Chemical Sludge	Amber Liquid	55	Steel Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758822
50771	Solidified Resin, Paint	Black Solid	55	Steel Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758822
50772	Absorbent/Soil	Amber Solid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758822
50773	Absorbent/Soil	White Solid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758822
50774	Chemical Sludge	Brown Solid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758822
50775	Chemical Sludge	Black Solid	55	Steel Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758822
50776	Absorbent/Soil	Black Solid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758822
50777	Chemical Sludge	Black Liquid	55	Steel Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758822
50778	Solidified Resin, Paint	Brown Solid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758822
50779	Solidified Resin, Paint	Black Solid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758822
50780	Absorbent/Soil	Vermiculite	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758822
50781	Debris, Rags, Filters	Vermiculite	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758822
50782	Debris, Rags, Filters	Cans	55	Steel Drum	No	No	No	No	7	No	No	No	No	AR-758823
50783	Loose Pack Liquids	Inner Cont.	55	Steel Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758823
50784	Loose Pack Liquids	Inner Cont.	55	Steel Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758823
50785	Loose Pack Liquids	Inner Cont.	55	Steel Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758823
50786	Absorbent/Soil	Vermiculite	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758809
50787	Absorbent/Soil	Vermiculite	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758809
50788	Solidified Resin, Paint	Black Solid	55	Steel Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758809
50789	Chemical Sludge	Black Solid/Liq	55	Steel Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758811
50790	Loose Pack Liquids	Inner Cont.	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758815
50791	Alkaline Solids	White Solid	55	Steel Drum	>140 deg	No	No	No	13	No	No	No	No	AR-758802
50792	Powder & Granular Oxidizers	Vermiculite	55	Steel Drum	>140 deg	No	No	No	7	Yes	No	No	No	AR-758820
50793	Powder & Granular Oxidizers	Vermiculite	55	Steel Drum	>140 deg	No	No	No	7	Yes	No	No	No	AR-758820
50794	Absorbent/Soil	Solid (100%)	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758801
50795	Absorbent/Soil	Solid (100%)	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758801
50796	Chemical Sludge	Solid (90%)	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758801
50797	Absorbent/Soil	Solid (100%)	55	Steel Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758801
50798	Absorbent/Soil	Solid (100%)	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758801
50799	Absorbent/Soil	Solid (100%)	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758801
50800	Absorbent/Soil	Solid (100%)	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758823
50801	Absorbent/Soil	Solid (100%)	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758801
50802	Absorbent/Soil	Solid (100%)	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758805
50803	Absorbent/Soil	Solid (90%)	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758805
50804	Absorbent/Soil	Solid (100%)	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758805
50805	Absorbent/Soil	Solid (100%)	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758805
50806	Absorbent/Soil	Solid (100%)	55	Steel Drum	No	No	No	No	7	No	No	No	No	AR-758803
50807	Absorbent/Soil	Solid (100%)	55	Steel Drum	No	No	No	No	7	No	No	No	No	AR-758803
50808	Loose Pack Liquids	Solid (100%)	55	Steel Drum	No	No	No	No	7	No	No	No	No	AR-758800
50809	Chemical Sludge	Solid (100%)	55	Steel Drum	No	No	No	No	7	No	No	No	No	AR-758800
50810	Absorbent/Soil	Solid (100%)	55	Steel Drum	No	No	No	No	7	No	No	No	No	AR-758803
50811	Organic Mixture	Solid (80%)	55	Steel Drum	No	No	No	No	7	No	No	No	No	AR-758812
50812	Organic Mixture	Solid (70%)	55	Steel Drum	No	No	No	No	7	No	No	No	No	AR-758809
50813	Chemical Sludge	Solid (30%)	55	Steel Drum	No	No	No	No	7	No	No	No	No	AR-758807
50814	Chemical Sludge	Solid (80%)	55	Steel Drum	No	No	No	No	7	No	No	No	No	AR-758805
50815	Absorbent/Soil	Solid (100%)	55	Steel Drum	No	No	No	No	7	No	No	No	No	AR-758803
50816	Debris, Rags, Filters	Solid (100%)	55	Steel Drum	No	No	No	No	7	No	No	No	No	AR-758792

Volumes are in gallons unless otherwise specified. NS = Not sampled.

Omega Drum Removal - HazCat Log

Drum No.	Waste Description	Physical Description	Container Volume	Container Type	Flammablilty	Air Reactive	Water Reactive	Water Soluble	pH	Oxidizer	Cyanide	Sulfide	Peroxide	Manifest No.
50817	Absorbent/Soil	Solid (100%)	55	Steel Drum	No	No	No	No	7	No	No	No	No	AR-758803
50818	Powder & Granular Oxidizers	Solid (100%)	55	Steel Drum	No	No	No	No	7	No	No	No	No	AR-758805
50819	Powder & Granular Oxidizers	Solid (100%)	55	Steel Drum	>140 deg	No	No	No	7	Yes	No	No	No	AR-758805
50820	Powder & Granular Oxidizers	Solid (100%)	55	Steel Drum	>140 deg	No	No	No	7	Yes	No	No	No	AR-758811
50821	Powder & Granular Oxidizers	Solid (100%)	55	Steel Drum	>140 deg	No	No	No	7	Yes	No	No	No	AR-758805
50822	Absorbent/Soil	Solid (100%)	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758805
50823	Chemical Sludge	Solid (90%)	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758803
50824	Absorbent/Soil	Solid (100%)	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758803
50825	Paint, Resin	Solid (70%)	55	Steel Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758803
50826	Debris, Rags, Filters	Solid (100%)	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758803
50827	Absorbent/Soil	Solid (100%)	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758805
50828	Absorbent/Soil	Solid (100%)	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758805
50829	Absorbent/Soil	Solid (95%)	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758805
50830	Chemical Sludge	Solid (100%)	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758805
50831	Mixed Solvents	Solid (0%)	55	Steel Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758826
50832	Mixed Solvents	Solid (0%)	55	Steel Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758822
50833	Mixed Solvents	Solid (0%)	55	Steel Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758822
50834	Mixed Solvents	Solid (0%)	55	Steel Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758813
50835	Mixed Solvents	Solid (0%)	55	Steel Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758800
50836	Mixed Solvents	Solid (0%)	55	Steel Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758800
50837	Mixed Solvents	Solid (0%)	55	Steel Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758800
50838	Inorganic Acids	Solid (0%)	55	Steel Drum	>140 deg	No	No	Yes	2	No	No	No	No	AR-758800
50839	Organic Mixture	Solid (75%)	55	Steel Drum	>140 deg	No	No	Yes	7	No	No	No	No	AR-758803
50840	Chemical Sludge	Solid (20%)	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758803
50841	Organic Mixture	Solid (70%)	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758803
50842	Organic Mixture	Solid (90%)	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758803
50843	Chemical Sludge	Solid (50%)	55	Steel Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758803
50844	Chemical Sludge	Solid (50%)	55	Steel Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758803
50845	Chemical Sludge	Solid (60%)	55	Steel Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758805
50846	Chemical Sludge	Solid (50%)	55	Steel Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758805
50847	Chemical Sludge	Solid (80%)	55	Steel Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758803
50848	Chemical Sludge	Solid (10%)	55	Steel Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758803
50849	Chemical Sludge	Solid (80%)	55	Steel Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758803
50850	Chemical Sludge	Solid (70%)	55	Steel Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758803
50851	Chemical Sludge	Solid (80%)	55	Steel Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758805
50852	Organic Mixture	Solid (90%)	55	Steel Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758805
50853	Chemical Sludge	Solid (80%)	55	Steel Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758805
50854	Chemical Sludge	Solid (90%)	55	Steel Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758805
50855	Chemical Sludge	Solid (<70%)	55	Steel Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758803
50856	Organic Mixture	Solid (<60%)	55	Steel Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758803
50857	Chemical Sludge	Solid (<80%)	55	Steel Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758803
50858	Organic Mixture	70% Solid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758803
50859	Chemical Sludge	80 % Solid	55	Steel Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758800
50860	Chemical Sludge	60% Solid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758800
50861	Organic Mixture	60% Solid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758800
50862	Solidified Resin, Paint	100% Solid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758810
50863	Chemical Sludge	10% Solid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758800

Volumes are in gallons unless otherwise specified. NS = Not sampled.

Omega Drum Removal - HazCat Log

Drum No.	Waste Description	Physical Description	Container Volume	Container Type	Flammability	Air Reactive	Water Reactive	Water Soluble	pH	Oxidizer	Cyanide	Sulfide	Peroxide	Manifest No.
50864	Organic Sludge	40% Solid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758800
50865	Chemical Sludge	50% Solid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758800
50866	Chemical Sludge	80% Solid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758800
50867	Chemical Sludge	50%Solid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758802
50868	Chemical Sludge	30% Solid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758802
50869	Chemical Sludge	30% Solid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758802
50870	Chemical Sludge	80% Solid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758802
50871	Chemical Sludge	75% Solid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758804
50872	Chemical Sludge	30% Solid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758804
50873	Chemical Sludge	50% Solid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758804
50874	Chemical Sludge	90% Solid	55	Steel Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758804
50875	Chemical Sludge	80% Solid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758804
50876	Chemical Sludge	50% Solid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758804
50877	Chemical Sludge	50% Solid	55	Steel Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758804
50878	Chemical Sludge	70% Solid	55	Steel Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758804
50879	Absorbent/Soil	100% Solid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758804
50880	Absorbent/Soil	100% Solid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758804
50881	Absorbent/Soil	100% Solid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758804
50882	Absorbent/Soil	100% Solid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758804
50883	Absorbent/Soil	100% Solid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758802
50884	Absorbent/Soil	100% Solid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758802
50885	Absorbent/Soil	100% Solid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758802
50886	Absorbent/Soil	100% Solid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758802
50887	Absorbent/Soil	100% Solid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758806
50888	Absorbent/Soil	100% Solid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758804
50889	Absorbent/Soil	100% Solid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758802
50890	Organic Mixture	Brown Sludge	55	Steel Drum	>140 deg	No	No	No	9	No	No	No	No	AR-758823
50891	Debris, Rags, Filters	100% Solid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758802
50892	Debris, Rags, Filters	100% Solid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758804
50893	Debris, Rags, Filters	100% Solid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758802
50894	Debris, Rags, Filters	100% Solid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758802
50895	Organic Mixture	30% Solid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758802
50896	Organic Mixture	30% Solid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758813
50897	Organic Mixture	80% Solid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758822
50898	Organic Mixture	50% Solid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758802
50899	Chemical Sludge	60% Solid	55	Steel Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758802
50900	Debris, Rags, Filters	100% Solid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758802
50901	Absorbent/Soil	100% Solid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758802
50902	Chemical Sludge	10% Solid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758792
50903	Chemical Sludge	80% Solid	55	Steel Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758792
50904	Chemical Sludge	50% Solid	55	Steel Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758802
50905	Chemical Sludge	30% Solid	55	Steel Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758802
50906	Paint, Resins	10% Solid	55	Steel Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758810
50907	Chemical Sludge	75% Solid	55	Steel Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758802
50908	Chemical Sludge	90% Solid	55	Steel Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758802
50909	Chemical Sludge	100% Solid	55	Steel Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758804
50910	Chemical Sludge	80% Solid	55	Steel Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758802
50911	Chemical Sludge	50% Solid	55	Steel Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758792
50912	Absorbent/Soil	100% Solid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758792
50913	Chemical Sludge	90% Solid	55	Steel Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758792
50914	Chemical Sludge	50% Solid	55	Steel Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758792

Volumes are in gallons unless otherwise specified. NS = Not sampled.

Omega Drum Removal - HazCat Log

Drum No.	Waste Description	Physical Description	Container Volume	Container Type	Flammability	Air Reactive	Water Reactive	Water Soluble	pH	Oxidizer	Cyanide	Sulfide	Peroxide	Manifest No.
50915	Chemical Sludge	20% Solid	55	Steel Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758800
50916	Chemical Sludge	80% Solid	55	Steel Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758800
50917	Chemical Sludge	70% Solid	55	Steel Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758800
50918	Chemical Sludge	75% Solid	55	Steel Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758792
50919	Paint, Resins	10% Solid	55	Steel Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758802
50920	Paint, Resins	10% Solid	55	Steel Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758812
50921	Paint, Resins	10% Solid	55	Steel Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758807
50922	Absorbent/Soil	100% Solid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758810
50923	Chemical Sludge	80% Solid	55	Steel Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758802
50924	Powder & Granular Oxidizers	100% Solid	55	Steel Drum	>140 deg	No	No	No	7	Yes	No	No	No	AR-758808
50925	Chemical Sludge	80% Solid	55	Steel Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758802
50926	Absorbent/Soil	100% Solid	55	Steel Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758801
50927	Powder & Granular Oxidizers	100% Solid	55	Steel Drum	>140 deg	No	No	No	7	Yes	No	No	No	AR-758805
50928	Powder & Granular Oxidizers	100% Solid	55	Steel Drum	>140 deg	No	No	No	7	Yes	No	No	No	AR-758805
50929	Powder & Granular Oxidizers	100% Solid	55	Steel Drum	>140 deg	No	No	No	7	Yes	No	No	No	AR-758805
50930	Debris, Rags, Filters	Metal/No Samp	55	Steel Drum	NS	NS	NS	NS	NS	NS	NS	NS	NS	AR-758801
50931	Acid Sludge	50% Solid	55	Steel Drum	>140 deg	No	No	No	2	No	No	No	No	AR-758801
50932	Organic Mixture	95% Solid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758801
50933	Acid Sludge	95% Solid	55	Steel Drum	>140 deg	No	No	No	2	No	No	No	No	AR-758801
50934	Debris, Rags, Filters	Metal/No Samp	55	Steel Drum	NS	NS	NS	NS	NS	NS	NS	NS	NS	AR-758801
50935	Chemical Sludge	70% Solid	55	Steel Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758801
50936	Chemical Sludge	60% Solid	55	Steel Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758801
50937	Paint, Resin	60% Solid	55	Steel Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758801
50938	Lean Organic Mixture	60% Solid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758801
50939	Organic Mixture	70% Solid	55	Steel Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758801
50940	Solidified Resin, Paint	95% Solid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758801
50941	Chemical Sludge	50% Solid	55	Steel Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758801
50942	Organic Mixture	80% Solid	55	Steel Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758801
50943	Paint, Resin	80% Solid	55	Steel Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758801
50944	Mixed Solvents	70% Solid	55	Steel Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758801
50945	Organic Mixture	50% Solid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758801
50946	Absorbent/Soil	100% Solid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758801
50947	Organic Mixture	80% Solid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758801
50948	Absorbent/Soil	100% Solid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758801
50949	Organic Mixture	80% Solid	55	Steel Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758801
50950	Absorbent/Soil	100% Solid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758801
50951	Absorbent/Soil	100% Solid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758801
50952	Absorbent/Soil	100% Solid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758801
50953	Absorbent/Soil	100% Solid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758801
50954	Debris, Rags, Filters	100% Solid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758801
50955	Debris, Rags, Filters	100% Solid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758801
50956	Absorbent/Soil	100% Solid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758801
50957	Debris, Rags, Filters	100% Solid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758801
50958	Organic Mixture	90% Solid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758811
50959	Solidified Resin, Paint	100% Solid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758811
50960	Organic Mixture	50% Solid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758805
50961	Organic Mixture	50% Solid	55	Steel Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758805

Volumes are in gallons unless otherwise specified. NS = Not sampled.

Omega Drum Removal - HazCat Log

Drum No.	Waste Description	Physical Description	Container Volume	Container Type	Flammability	Air Reactive	Water Reactive	Water Soluble	pH	Oxidizer	Cyanide	Sulfide	Peroxide	Manifest No.
50962	Organic Mixture	50% Solid	55	Steel Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758805
50963	Chemical Sludge	40% Solid	55	Steel Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758807
50964	Organic Mixture	90% Solid	55	Poly Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758805
50965	Oxidizing Acid Liquid	70% Solid	55	Poly Drum	>140 deg	No	No	No	0	Yes	No	No	No	AR-758811
50966	Oxidizing Acid Liquid	30% Solid	55	Poly Drum	>140 deg	No	No	No	0	Yes	No	No	No	AR-758811
50967	Oxidizing Acid Liquid	5% Solid	55	Poly Drum	>140 deg	No	No	No	1	Yes	No	No	No	AR-758811
50968	Chemical Sludge	30% Solid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758813
50969	Chemical Sludge	30% Solid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758813
50970	Water Based Sludge	50% Solid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758813
50971	Chemical Sludge	90% Solid	55	Steel Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758813
50972	Mixed Solvents	20% Solid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758809
50973	Absorbent/Soil	100% Solid	55	Steel Drum	140	No	No	No	7	No	No	No	No	AR-758792
50974	Lean Organic Mixture	0% Solid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758815
50975	Mixed Solvents	95% Solid	55	Steel Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758824
50976	Alkaline Solids	White solid	55	Steel Drum	<140 deg	No	No	Yes	12	No	No	No	No	AR-758805
50977	Alkaline Solids	50% Solid	55	Steel Drum	<140 deg	No	No	Yes	12	No	No	No	No	AR-758805
50978	Lean Organic Mixture	50% Solid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758805
50979	Chemical Sludge	50% Solid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758812
50980	Acid Sludge	Brown Liquid	55	Poly Drum	>140 deg	No	No	No	2	No	No	No	No	AR-758825
50981	Acid Sludge	Brown Liquid	55	Poly Drum	>140 deg	No	No	No	2	No	No	No	No	AR-758823
50982	Acid Sludge	Black Liquid	55	Poly Drum	>140 deg	No	No	No	2	No	No	No	No	AR-758823
50983	Acid Sludge	Brown Liquid	55	Poly Drum	>140 deg	No	No	No	2	No	No	No	No	AR-758823
50984	Organic Acid	0% Solid	55	Poly Drum	>140 deg	No	No	No	2	No	No	No	No	AR-758807
50985	Organic Acid	0% Solid	55	Poly Drum	>140 deg	No	No	No	2	No	No	No	No	AR-758807
50986	Organic Acid	0% Solid	55	Poly Drum	>140 deg	No	No	No	2	No	No	No	No	AR-758809
50987	Organic Acid	0% Solid	55	Poly Drum	>140 deg	No	No	No	2	No	No	No	No	AR-758807
50988	Absorbent/Soil	10% Solid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758805
50989	Chemical Sludge	40% Solid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758805
50990	Resin, Adhesive	90% Solid	55	Steel Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758805
50991	Absorbent/Soil	100% Solid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758805
50992	Organic Mixture	80% Solid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758805
50993	Organic Mixture	80% Solid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758805
50994	Organic Mixture	40% Solid	55	Steel Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758805
50995	Solidified Resin, Paint	100% Solid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758805
50996	Organic Mixture	70% Solid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758805
50997	Solidified Resin, Paint	100% Solid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758805
50998	Solidified Resin, Paint	100% Solid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758805
50999	Absorbent/Soil	100% Solid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758805
51000	Organic Acid	0% Solid	55	Poly Drum	<140 deg	No	No	No	2	No	No	No	No	AR-758807
51001	Organic Acid	0% Solid	55	Poly Drum	<140 deg	No	No	No	2	No	No	No	No	AR-758807
51002	Organic Acid	0% Solid	55	Poly Drum	<140 deg	No	No	No	2	No	No	No	No	AR-758807
51003	Organic Acid	0% Solid	55	Poly Drum	<140 deg	No	No	No	2	No	No	No	No	AR-758807
51004	Organic Acid	0% Solid	55	Steel Drum	<140 deg	No	No	No	2	No	No	No	No	AR-758805
51005	Solidified Resin, Paint	90% Solid	55	Steel Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758807
51006	Organic Mixture	50% Solid	55	Steel Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758805
51007	Absorbent/Soil	95% Solid	55	Steel Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758803
51008	Solidified Resin, Paint	100% Solid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758802
51009	Absorbent/Soil	100% Solid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758803
51010	Solidified Resin, Paint	100% Solid	55	Steel Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758803
51011	Paint, Resin	90% Solid	55	Steel Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758803
51012	Organic Mixture	70% Solid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758803

Volumes are in gallons unless otherwise specified. NS = Not sampled.

Omega Drum Removal - HazCat Log

Drum No.	Waste Description	Physical Description	Container Volume	Container Type	Flammability	Air Reactive	Water Reactive	Water Soluble	pH	Oxidizer	Cyanide	Sulfide	Peroxide	Manifest No.
51013	Paint, Resin	80% Solid	55	Steel Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758803
51014	Chemical Sludge	80% Solid	55	Steel Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758803
51015	Lean Organic Mixture	50% Solid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758803
51016	Resin, Adhesive	90% Solid	55	Steel Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758803
51017	Chemical Sludge	90% Solid	55	Steel Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758803
51018	Absorbent/Soil	100% Solid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758803
51019	Organic Mixture	70% Solid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758803
51020	Absorbent/Soil	100% Solid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758803
51021	Absorbent Lab Pack Removed	LP	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758802
51022	Absorbent Lab Pack Removed	LP	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758802
51023	Absorbent Lab Pack Removed	LP	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758837
51024	Paint, Resin	70% Solid	55	Steel Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758803
51025	Paint, Resin	80% Solid	55	Steel Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758803
51026	Organic Mixture	80% Solid	55	Steel Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758803
51027	Solidified Resin, Paint	90% Solid	55	Steel Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758803
51028	Organic Mixture	80% Solid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758792
51029	Organic Mixture	80% Solid	55	Steel Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758802
51030	Chemical Sludge	70% Solid	55	Steel Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758803
51031	Debris, Rags, Filters	100% Solid	55	Steel Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758792
51032	Oxidizing Powder	100% Solid	55	Steel Drum	>140 deg	No	No	No	2	No	No	No	No	AR-758820
51033	Absorbent/Soil	100% Solid	55	Steel Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758805
51034	Chemical Sludge	80% Solid	55	Steel Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758807
51035	Organic Mixture	50% Solid	55	Steel Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758812
51036	Absorbent/Soil	10% Solid	55	Steel Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758805
51037	Absorbent/Soil	10% Solid	55	Steel Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758805
51038	Organic Mixture	80% Solid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758803
51039	Chemical Sludge	80% Solid	55	Steel Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758803
51040	Organic Mixture	80% Solid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758803
51041	Lean Organic Mixture	60% Solid	55	Steel Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758803
51042	Chemical Sludge	70% Solid	55	Steel Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758817
51043	Absorbent/Soil	100% Solid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758817
51044	Organic Mixture	70% Solid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758817
51045	Organic Mixture	70% Solid	55	Steel Drum	>140 deg	No	No	No	8	No	No	No	No	AR-758817
51046	Chemical Sludge	80% Solid	55	Steel Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758819
51047	Chemical Sludge	80% Solid	55	Steel Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758819
51048	Chemical Sludge	80% Solid	55	Steel Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758819
51049	Chemical Sludge	80% Solid	55	Steel Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758819
51050	Absorbent/Soil	100% Solid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758819
51051	Absorbent/Soil	100% Solid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758819
51052	Solidified Resin, Paint	100% Solid	55	Steel Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758819
51053	Solidified Resin, Paint	100% Solid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758819
51054	Paint, Resin	70% Solid	55	Steel Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758807
51055	Paint, Resin	70% Solid	55	Steel Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758807
51056	Chemical Sludge	50% Solid	55	Steel Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758807
51057	Chemical Sludge	90% Solid	55	Steel Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758807
51058	Powder & Granular Oxidizers	100% Solid	55	Steel Drum	>140 deg	No	No	No	12	No	No	No	No	AR-758811
51059	Absorbent/Soil	100% Solid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758807

Volumes are in gallons unless otherwise specified. NS = Not sampled.

Omega Drum Removal - HazCat Log

Drum No.	Waste Description	Physical Description	Container Volume	Container Type	Flammablility	Air Reactive	Water Reactive	Water Soluble	pH	Oxidizer	Cyanide	Sulfide	Peroxide	Manifest No.
51060	Powder & Granular Oxidizers	100% Solid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758811
51061	Absorbent Lab Pack Removed	Lab Pack	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758837
51062	Absorbent/Soil	100% Solid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758808
51063	Organic Mixture	80% Solid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758806
51064	Paint, Resin	80% Solid	55	Steel Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758806
51065	Debris, Rags, Filters	100% Solid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758806
51066	Organic Acid	10% Solid	55	Poly Drum	>140 deg	No	No	No	2	No	No	No	No	AR-758812
51067	Organic Acid	10% Solid	55	Poly Drum	>140 deg	No	No	No	2	No	No	No	No	AR-758812
51068	Oxidizing Acid Liquid	30% Solid	55	Poly Drum	>140 deg	No	No	No	1	No	No	No	No	AR-758812
51069	Oxidizing Acid Liquid	10% Solid	55	Poly Drum	>140 deg	No	No	No	1	No	No	No	No	AR-758812
51070	Chemical Sludge	80% Solid	55	Steel Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758816
51071	Absorbent/Soil	100% Solid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758816
51072	Organic Mixture	30% Solid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758814
51073	Chemical Sludge	80% Solid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758816
51074	Solidified Resin, Paint	100% Solid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758816
51075	Solidified Resin, Paint	100% Solid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758816
51076	Solidified Resin, Paint	100% Solid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758816
51077	Lean Organic Mixture	50% Solid	55	Steel Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758800
51078	Absorbent/Soil	100% Solid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758807
51079	Aerosol Cans	No Sample	55	Steel Drum	NS	NS	NS	NS	NS	NS	NS	NS	NS	AR-758820
51080	Paint, Resin	0 % Solid	55	Steel Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758807
51081	Absorbent Lab Pack Removed	LP	55	Steel Drum	No	No	No	No	7	No	No	No	No	AR-758837
51082	Absorbent/Soil	100% Solid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758807
51083	Absorbent/Soil	100% Solid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758807
51084	Absorbent/Soil	100% Solid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758807
51085	Absorbent/Soil	100% Solid	55	Steel Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758807
51086	Lean Organic Mixture	50% Solid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758805
51087	Chemical Sludge	70% Solid	55	Steel Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758810
51088	Chemical Sludge	50% Solid	55	Steel Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758810
51089	Chemical Sludge	80% Solid	55	Steel Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758812
51090	Absorbent/Soil	95% Solid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758807
51091	Alkaline Solids	100% Solid	55	Steel Drum	>140 deg	No	No	No	14	No	No	No	No	AR-758809
51092	Absorbent/Soil	100% Solid	55	Steel Drum	>140 deg	No	No	No	9	No	No	No	No	AR-758807
51093	Organic Mixture	80% Solid	55	Steel Drum	>140 deg	No	No	No	9	No	No	No	No	AR-758807
51094	Absorbent/Soil	100% Solid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758810
51095	Organic Mixture	60% Solid	55	Steel Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758810
51096	Solidified Resin, Paint	100% Solid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758810
51097	Organic Mixture	70% Solid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758810
51098	Chemical Sludge	60% Solid	55	Steel Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758810
51099	Absorbent/Soil	100% Solid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758810
51100	Chemical Sludge	60% Solid	55	Steel Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758810
51101	Solidified Resin, Paint	100% Solid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758810
51102	Absorbent/Soil	100% Solid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758812
51103	Crushed Cans	100% Solid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758820
51104	Absorbent Lab Pack Removed	Lab Pack	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758837
51105	Absorbent/Soil	100% Solid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758812
51106	Absorbent/Soil	100% Solid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758807

Volumes are in gallons unless otherwise specified. NS = Not sampled.

Omega Drum Re[illegible]al - HazCat Log

Drum No.	Waste Description	Physical Description	Container Volume	Container Type	Flammability	Air Reactive	Water Reactive	Water Soluble	pH	Oxidizer	Cyanide	Sulfide	Peroxide	Manifest No.
51107	Chemical Sludge	80% Solid	55	Steel Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758807
51108	Organic Mixture	80% Solid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758807
51109	Chemical Sludge	50% Solid	55	Steel Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758807
51110	Powder & Granular Oxidizers	100% Solid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758811
51111	Absorbent/Soil	100% Solid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758807
51112	Alkaline Solids	100% Solid	55	Steel Drum	>140 deg	No	No	No	12	No	No	No	No	AR-758807
51113	Organic Mixture	70% Solid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758807
51114	Absorbent/Soil	100% Solid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758806
51115	Absorbent/Soil	100% Solid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758806
51116	Absorbent/Soil	100% Solid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758806
51117	Organic Acid	5% Solid	55	Poly Drum	>140 deg	No	No	No	1	No	No	No	No	AR-758812
51118	Debris, Rags, Filters	100% Solid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758807
51119	Absorbent/Soil	100% Solid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758807
51120	Chemical Sludge	60% Solid	55	Steel Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758807
51121	Absorbent/Soil	100% Solid	55	Steel Drum	>140 deg	No	No	No	9	No	No	No	No	AR-758809
51122	Organic Acid	0% Solid	55	Poly Drum	<140 deg	No	No	No	1	No	No	No	No	AR-758817
51123	Organic Mixture	80% Solid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758806
51124	Solidified Resin, Paint	100% Solid	55	Steel Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758806
51125	Solidified Resin, Paint	100% Solid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758806
51126	Chemical Sludge	70% Solid	55	Steel Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758806
51127	Organic Mixture	50% Solid	55	Steel Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758805
51128	Chemical Sludge	80% Solid	55	Steel Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758805
51129	Absorbent/Soil	100% Solid	55	Steel Drum	>140 deg	No	No	No	8	No	No	No	No	AR-758805
51130	Organic Mixture	10% Solid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758805
51131	Lean Organic Mixture	50% Solid	55	Steel Drum	>140 deg	No	No	No	8	No	No	No	No	AR-758805
51132	Lean Organic Mixture	50% Solid	55	Steel Drum	>140 deg	No	No	No	8	No	No	No	No	AR-758805
51133	Organic Mixture	10% Solid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758805
51134	Organic Mixture	20% Solid	55	Steel Drum	<140 deg	No	No	No	8	No	No	No	No	AR-758805
51135	Organic Mixture	80% Solid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758815
51136	Organic Mixture	80% Solid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758815
51137	Organic Mixture	70% Solid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758815
51138	Organic Mixture	100% Solid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758815
51139	Absorbent/Soil	100% Solid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758806
51140	Absorbent Lab Pack Removed	Lab Pack	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758837
51141	Absorbent/Soil	100% Solid	55	Steel Drum	>140 deg	No	No	No	8	No	No	No	No	AR-758806
51142	Absorbent/Soil	100% Solid	55	Steel Drum	>140 deg	No	No	No	8	No	No	No	No	AR-758806
51143	Organic Mixture	70% Solid	55	Steel Drum	>140 deg	No	No	No	8	No	No	No	No	AR-758815
51144	Solidified Resin, Paint	100% Solid	55	Steel Drum	>140 deg	No	No	No	8	No	No	No	No	AR-758815
51145	Organic Mixture	50% Solid	55	Steel Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758815
51146	Organic Mixture	70% Solid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758818
51147	Organic Mixture	60% Solid	55	Steel Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758820
51148	Organic Mixture	40% Solid	55	Steel Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758818
51149	Mixed Solvent	70% Solid	55	Steel Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758818
51150	Organic Mixture	60% Solid	55	Steel Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758818
51151	Organic Mixture	50% Solid	55	Steel Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758837
51152	Resin, Adhesive	80% Solid	55	Steel Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758815
51153	Resin, Adhesive	70% Solid	55	Steel Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758815
51154	Resin, Adhesive	80% Solid	55	Steel Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758815
51155	Solidified Resin, Paint	100% Solid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758818

Volumes are in gallons unless otherwise specified. NS = Not sampled.

Omega Drum Removal - HazCat Log

Drum No.	Waste Description	Physical Description	Container Volume	Container Type	Flammablilty	Air Reactive	Water Reactive	Water Soluble	pH	Oxidizer	Cyanide	Sulfide	Peroxide	Manifest No.
51156	Solidified Resin, Paint	100% Solid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758818
51157	Solidified Resin, Paint	100% Solid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758818
51158	Chemical Solids	100% Solid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758813
51159	Organic Acid	5% Solid	55	Poly Drum	>140 deg	No	No	No	1	No	No	No	No	AR-758813
51160	Organic Mixture	80% Solid	55	Poly Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758813
51161	Absorbent/Soil	100% Solid	55	Poly Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758813
51162	Absorbent/Soil	100% Solid	55	Poly Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758813
51163	Paint, Resin	50% Solid	55	Poly Drum	>140 deg	No	No	No	9	No	No	No	No	AR-758813
51164	Paint, Resin	80% Solid	55	Poly Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758820
51165	Resin, Adhesive	80% Solid	55	Poly Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758820
51166	Mixed Solvent	70% Solid	55	Poly Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758820
51167	Organic Mixture	70% Solid	55	Poly Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758820
51168	Organic Mixture	50% Solid	55	Poly Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758819
51169	Chemical Sludge	70% Solid	55	Poly Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758820
51170	Resin, Adhesive	50% Solid	55	Poly Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758822
51171	Debris, Rags, Filters	100% Solid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758813
51172	Debris, Rags, Filters	100% Solid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758813
51173	Debris, Rags, Filters	100% Solid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758826
51174	Debris, Rags, Filters	100% Solid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758813
51175	Absorbent/Soil	100% Solid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758813
51176	Absorbent/Soil	100% Solid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758813
51177	Chemical Solids	100% Solid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758813
51178	Absorbent/Soil	100% Solid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758813
51179	Absorbent/Soil	100% Solid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758813
51180	Solidified Resin, Paint	70% Solid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758813
51181	Powder & Granular Oxidizers	100% Solid	55	Steel Drum	>140 deg	No	No	No	7	Yes	No	No	No	AR-758813
51182	Absorbent/Soil	100% Solid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758813
51183	Chemical Sludge	80% Solid	55	Steel Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758813
51184	Chemical Solids	90% Solid	55	Steel Drum	>140 deg	No	No	No	10	No	No	No	No	AR-758813
51185	Chemical Sludge	100% Solid	55	Steel Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758813
51186	Alkaline Sludge	90% Solid	55	Steel Drum	>140 deg	No	No	No	12	No	No	No	No	AR-758813
51187	Debris, Rags, Filters	100% Solid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758813
51188	Debris, Rags, Filters	100% Solid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758813
51189	Debris, Rags, Filters	100% Solid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758813
51190	Debris, Rags, Filters	100% Solid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758813
51191	Absorbent/Soil	100% Solid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758813
51192	Mixed Solvent	100% Solid	55	Steel Drum	<140 deg	No	No	No	8	No	No	No	No	AR-758813
51193	Absorbent/Soil	100% Solid	55	Steel Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758813
51194	Solidified Resin, Paint	100% Solid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758813
51195	Solidified Resin, Paint	100% Solid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758813
51196	Absorbent/Soil	90% Solid	55	Steel Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758813
51197	Chemical Solids	100% Solid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758813
51198	Absorbent/Soil	95% Solid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758808
51199	Absorbent/Soil	100% Solid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758808
51200	Absorbent/Soil	100% Solid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758808
51201	Absorbent/Soil	100% Solid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758808
51202	Organic Mixture	50% Solid	55	Steel Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758810
51203	Organic Mixture	90% Solid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758810
51204	Debris, Rags, Filters	90% Solid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758810
51205	Lean Organic Mixture	50% Solid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758810

Volumes are in gallons unless otherwise specified. NS = Not sampled.

Drum No.	Waste Description	Physical Description	Container Volume	Container Type	Flammability	Air Reactive	Water Reactive	Water Soluble	pH	Oxidizer	Cyanide	Sulfide	Peroxide	Manifest No.
51206	Mixed Solvent	30% Solid	55	Steel Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758814
51207	Organic Mixture	60% Solid	55	Steel Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758814
51208	Organic Mixture	50% Solid	55	Steel Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758814
51209	Organic Mixture	40% Solid	55	Steel Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758814
51210	Debris, Rags, Filters	100% Solid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758808
51211	Organic Mixture	50% Solid	55	Steel Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758810
51212	Chemical Sludge	70% Solid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758810
51213	Organic Mixture	90% Solid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758810
51214	Organic Mixture	5% Solid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758816
51215	Resin, Adhesive	50% Solid	55	Steel Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758816
51216	Paint, Resin	50% Solid	55	Steel Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758816
51217	Organic Mixture	20% Solid	55	Steel Drum	>140 deg	No	No	No	8	No	No	No	No	AR-758816
51218	Chemical Sludge	70% Solid	55	Steel Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758837
51219	Solidified Resin, Paint	90% Solid	55	Steel Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758816
51220	Paint, Resin	80% Solid	55	Steel Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758816
51221	Mixed Solvent	70% Solid	55	Steel Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758816
51222	Lean Organic Mixture	60% Solid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758810
51223	Organic Mixture	70% Solid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758810
51224	Lean Organic Mixture	40% Solid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758810
51225	Chemical Sludge	100% Solid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758810
51226	Organic Mixture	30% Solid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758814
51227	Mixed Solvent	70% Solid	55	Steel Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758816
51228	Lean Organic Mixture	50% Solid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758816
51229	Organic Mixture	25% Solid	55	Steel Drum	>140 deg	No	No	No	8	No	No	No	No	AR-758816
51230	Powder & Granular Oxidizers	100% Solid	55	Steel Drum	>140 deg	No	No	No	7	Yes	No	No	No	AR-758808
51231	Chemical Sludge	100% Solid	55	Steel Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758810
51232	Organic Mixture	75% Solid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758808
51233	Absorbent/Soil	100% Solid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758808
51234	Paint, Resin	50% Solid	55	Steel Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758810
51235	Paint, Resin	50% Solid	55	Steel Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758810
51236	Chemical Sludge	70% Solid	55	Steel Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758810
51237	Organic Mixture	70% Solid	55	Steel Drum	>140 deg	No	No	No	8	No	No	No	No	AR-758821
51238	Organic Mixture	70% Solid	55	Steel Drum	>140 deg	No	No	No	9	No	No	No	No	AR-758821
51239	Mixed Solvent	70% Solid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758824
51240	Mixed Solvent	80% Solid	55	Steel Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758821
51241	Chemical Sludge	80% Solid	55	Steel Drum	<140 deg	No	No	No	8	No	No	No	No	AR-758810
51242	Organic Mixture	50% Solid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758811
51243	Organic Mixture	50% Solid	55	Steel Drum	>140 deg	No	No	No	8	No	No	No	No	AR-758811
51244	Organic Mixture	70% Solid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758811
51245	Chemical Sludge	50% Solid	55	Steel Drum	<140 deg	No	No	No	8	No	No	No	No	AR-758811
51246	Organic Acid	30% Solid	55	Steel Drum	>140 deg	No	No	No	1	No	No	No	No	AR-758823
51247	Paint, Resin	50% Solid	55	Steel Drum	<140 deg	No	No	No	8	No	No	No	No	AR-758811
51248	Chemical Sludge	80% Solid	55	Steel Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758811
51249	Mixed Solvent	70% Solid	55	Steel Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758811
51250	Organic Mixture	40% Solid	55	Steel Drum	<140 deg	No	No	No	8	No	No	No	No	AR-758811
51251	Paint, Resin	20% Solid	55	Steel Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758811
51252	Paint, Resin	20% Solid	55	Steel Drum	<140 deg	No	No	No	8	No	No	No	No	AR-758811
51253	Organic Mixture	Multi-Sludge	55	Steel Drum	No	No	No	No	8	No	No	No	No	AR-758808
51254	Absorbent/Soil	Brown Solid	55	Steel Drum	No	No	No	No	8	No	No	No	No	AR-758808
51255	Mixed Solvent	Green Sludge	55	Steel Drum	<140 deg	No	No	No	8	No	No	No	No	AR-758808

Volumes are in gallons unless otherwise specified. NS = Not sampled.

Omega Drum Removal - HazCat Log

Drum No.	Waste Description	Physical Description	Container Volume	Container Type	Flammability	Air Reactive	Water Reactive	Water Soluble	pH	Oxidizer	Cyanide	Sulfide	Peroxide	Manifest No.
51256	Absorbent/Soil	Brown Solid	55	Steel Drum	No	No	No	No	7	No	No	No	No	AR-758808
51257	Organic Mixture	Grey Sludge	55	Steel Drum	>140 deg	No	No	No	8	No	No	No	No	AR-758810
51258	Organic Mixture	Clear Liquid	55	Steel Drum	>140 deg	No	No	No	8	No	No	No	No	AR-758810
51259	Organic Mixture	Amber Liquid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758810
51260	Mixed Solvent	Black Liquid	55	Steel Drum	<140 deg	No	No	No	8	No	No	No	No	AR-758810
51261	Mixed Solvent	Black Liquid	55	Steel Drum	<140 deg	No	No	No	8	No	No	No	No	AR-758811
51262	Mixed Solvent	Black Liquid	55	Steel Drum	<140 deg	No	No	No	8	No	No	No	No	AR-758811
51263	Mixed Solvent	Black Liquid	55	Steel Drum	<140 deg	No	No	No	8	No	No	No	No	AR-758811
51264	Mixed Solvent	Black Liquid	55	Steel Drum	<140 deg	No	No	No	8	No	No	No	No	AR-758811
51265	Mixed Solvent	70% Solid	55	Steel Drum	<140 deg	No	No	No	8	No	No	No	No	AR-758808
51266	Organic Mixture	50% Solid	55	Steel Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758808
51267	Organic Mixture	50% Solid	55	Steel Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758808
51268	Paint, Resin	50% Solid	55	Steel Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758808
51269	Chemical Sludge	70% Solid	55	Steel Drum	<140 deg	No	No	No	8	No	No	No	No	AR-758810
51270	Chemical Sludge	20% Solid	55	Steel Drum	<140 deg	No	No	No	6	No	No	No	No	AR-758808
51271	Organic Mixture	40% Solid	55	Steel Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758810
51272	Absorbent/Soil	80% Solid	55	Steel Drum	>140 deg	No	No	No	9	No	No	No	No	AR-758810
51273	Absorbent/Soil	100% Solid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758808
51274	Solidified Resin, Paint	100% Solid	55	Steel Drum	>140 deg	No	No	No	8	No	No	No	No	AR-758808
51275	Absorbent/Soil	50% Solid	55	Steel Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758808
51276	Solidified Resin, Paint	100% Solid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758808
51277	Absorbent/Soil	100% Solid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758808
51278	Solidified Resin, Paint	100% Solid	55	Steel Drum	>140 deg	No	No	No	8	No	No	No	No	AR-758808
51279	Absorbent/Soil	100% Solid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758808
51280	Resin, Adhesive	80% Solid	55	Steel Drum	<140 deg	No	No	No	9	No	No	No	No	AR-758808
51281	Organic Mixture	50% Solid	55	Steel Drum	<140 deg	No	No	No	8	No	No	No	No	AR-758808
51282	Chemical Sludge	75% Solid	55	Steel Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758810
51283	Organic Mixture	50% Solid	55	Steel Drum	<140 deg	No	No	No	8	No	No	No	No	AR-758810
51284	Paint, Resin	80% Solid	55	Steel Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758808
51285	Lean Organic Mixture	30% Solid	55	Steel Drum	>140 deg	No	No	No	6	No	No	No	No	AR-758808
51286	Lean Organic Mixture	20% Solid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758808
51287	Organic Mixture	70% Solid	55	Steel Drum	>140 deg	No	No	No	8	No	No	No	No	AR-758808
51288	Solidified Resin, Paint	Brown Solid	55	Steel Drum	<140 deg	No	No	No	8	No	No	No	No	AR-758813
51289	Mixed Solvent	Black Liquid	55	Steel Drum	<140 deg	No	No	No	8	No	No	No	No	AR-758822
51290	Organic Mixture	Brown Liquid	55	Steel Drum	No	No	No	No	8	No	No	No	No	AR-758822
51291	Mixed Solvent	White Liquid	55	Steel Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758822
51292	Mixed Solvent	Black Liquid	55	Steel Drum	<140 deg	No	No	No	8	No	No	No	No	AR-758837
51293	Absorbent/Soil	White Solid	55	Steel Drum	No	No	No	No	8	No	No	No	No	AR-758811
51294	Organic Mixture	Black Liquid	55	Steel Drum	<140 deg	No	No	No	8	No	No	No	No	AR-758812
51295	Organic Mixture	Black Liquid	55	Steel Drum	<140 deg	No	No	No	8	No	No	No	No	AR-758813
51296	Organic Mixture	Black Liquid	55	Steel Drum	<140 deg	No	No	No	8	No	No	No	No	AR-758813
51297	Organic Mixture	Black Liquid	55	Steel Drum	<140 deg	No	No	No	8	No	No	No	No	AR-758813
51298	Organic Mixture	Amber Liquid	55	Steel Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758813
51299	Organic Mixture	Black Liquid	55	Steel Drum	<140 deg	No	No	No	8	No	No	No	No	AR-758822
51300	Absorbent/Soil	Brown Solid	55	Poly Drum	No	No	No	Slight	10	No	No	No	No	AR-758811
51301	Solidified Resin, Paint	Brown Solid	55	Poly Drum	<140 deg	No	No	No	8	No	No	No	No	AR-758813
51302	Absorbent/Soil	Brown Solid	55	Poly Drum	No	No	No	No	8	No	No	No	No	AR-758811
51303	Absorbent/Soil	Lt. Brn. Solid	55	Poly Drum	No	No	No	No	7	No	No	No	No	AR-758811
51304	Chemical Sludge	Brown Liquid	55	Poly Drum	<140 deg	No	No	No	8	No	No	No	No	AR-758815
51305	Organic Mixture	Brown Liquid	55	Poly Drum	No	No	No	Slight	8	No	No	No	No	AR-758815
51306	Mixed Solvent	Brown Liquid	55	Poly Drum	<140 deg	No	No	Slight	7	No	No	No	No	AR-758815

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Omega Drum Removal - HazCat Log

Drum No.	Waste Description	Physical Description	Container Volume	Container Type	Flammablilty	Air Reactive	Water Reactive	Water Soluble	pH	Oxidizer	Cyanide	Sulfide	Peroxide	Manifest No.
51307	Organic Mixture	Brown Sludge	55	Poly Drum	>140 deg	No	No	No	8	No	No	No	No	AR-758815
51308	Mixed Solvent	Blk/Clr Liquid	55	Poly Drum	<140 deg	No	No	No	8	No	No	No	No	AR-758811
51309	Solidified Resin, Paint	Brown Solid	55	Poly Drum	No	No	No	No	7	No	No	No	No	AR-758815
51310	Organic Mixture	Brown Liquid	55	Poly Drum	>140 deg	No	No	No	8	No	No	No	No	AR-758818
51311	Solidified Resin, Paint	Brown Liquid	55	Poly Drum	>140 deg	No	No	No	8	No	No	No	No	AR-758815
51312	Organic Mixture	Green Liquid	55	Steel Drum	No	No	No	Slight	8	No	No	No	No	AR-758813
51313	Organic Mixture	Black Liquid	55	Steel Drum	>140 deg	No	No	No	8	No	No	No	No	AR-758813
51314	Mixed Solvent	Clr Liq/Blk Solid	55	Steel Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758813
51315	Mixed Solvent	Clr Liq/Blk Solid	55	Steel Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758813
51316	Mixed Solvent	Red Liquid	55	Steel Drum	<140 deg	No	No	No	8	No	No	No	No	AR-758813
51317	Mixed Solvent	Clr Liq/Blk Solid	55	Steel Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758813
51318	Organic Mixture	Brown Liquid	55	Steel Drum	No	No	No	Slight	8	No	No	No	No	AR-758813
51319	Organic Mixture	Brown Liquid	55	Steel Drum	No	No	No	Slight	8	No	No	No	No	AR-758813
51320	Organic Mixture	Multi Liquid	55	Steel Drum	>140 deg	No	No	No	8	No	No	No	No	AR-758813
51321	Organic Mixture	Grey Liquid	55	Steel Drum	No	No	No	No	9	No	No	No	No	AR-758813
51322	Organic Mixture	Black Liquid	55	Steel Drum	>140 deg	No	No	No	8	No	No	No	No	AR-758813
51323	Mixed Solvent	Black Liquid	55	Steel Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758813
51324	Mixed Solvent	Black Liquid	55	Steel Drum	<140 deg	No	No	No	8	No	No	No	No	AR-758813
51325	Mixed Solvent	Black Liquid	55	Steel Drum	<140 deg	No	No	No	8	No	No	No	No	AR-758813
51326	Organic Mixture	Black Liquid	55	Steel Drum	No	No	No	No	8	No	No	No	No	AR-758811
51327	Organic Mixture	Brown Liquid	55	Steel Drum	>140 deg	No	No	No	10	No	No	No	No	AR-758811
51328	Mixed Solvent	Black Liquid	55	Steel Drum	<140 deg	No	No	No	8	No	No	No	No	AR-758811
51329	Organic Mixture	Brown Liquid	55	Steel Drum	No	No	No	No	7	No	No	No	No	AR-758811
51330	Absorbent/Soil	Lt. Brn Solid	55	Steel Drum	No	No	No	No	8	No	No	No	No	AR-758811
51331	Absorbent/Soil	Lt. Brn Solid	55	Steel Drum	No	No	No	No	7	No	No	No	No	AR-758811
51332	Absorbent/Soil	White Solid	55	Steel Drum	No	No	No	No	7	No	No	No	No	AR-758811
51333	Chemical Sludge	Brown Sludge	55	Steel Drum	No	No	No	No	8	No	No	No	No	AR-758811
51334	Organic Mixture	70% Solid	55	Steel Drum	>140 deg	No	No	No	8	No	No	No	No	AR-758811
51335	Organic Mixture	80% Solid	55	Steel Drum	>140 deg	No	No	No	8	No	No	No	No	AR-758811
51336	Solidified Resin, Paint	80% Solid	55	Steel Drum	>140 deg	No	No	No	8	No	No	No	No	AR-758813
51337	Organic Mixture	80% Solid	55	Steel Drum	>140 deg	No	No	No	8	No	No	No	No	AR-758811
51338	Organic Mixture	5% Solid	55	Steel Drum	<140 deg	No	No	No	8	No	No	No	No	AR-758811
51339	Organic Mixture	30% Solid	55	Steel Drum	<140 deg	No	No	No	8	No	No	No	No	AR-758811
51340	Organic Mixture	50% Solid	55	Steel Drum	>140 deg	No	No	No	8	No	No	No	No	AR-758815
51341	Organic Mixture	50% Solid	55	Steel Drum	>140 deg	No	No	No	8	No	No	No	No	AR-758811
51342	Paint, Resin	50% Solid	55	Steel Drum	>140 deg	No	No	No	8	No	No	No	No	AR-758811
51343	Organic Mixture	50% Solid	55	Steel Drum	>140 deg	No	No	No	8	No	No	No	No	AR-758811
51344	Organic Mixture	70% Solid	55	Steel Drum	>140 deg	No	No	No	8	No	No	No	No	AR-758811
51345	Organic Mixture	70% Solid	55	Steel Drum	>140 deg	No	No	Slight	4	No	No	No	No	AR-758811
51346	Organic Mixture	Brown Liquid	55	Steel Drum	No	No	No	Slight	9	No	No	No	No	AR-758818
51347	Organic Mixture	Dark Liquid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758818
51348	Organic Mixture	Brown Liquid	55	Steel Drum	No	No	No	Slight	8	No	No	No	No	AR-758818
51349	Organic Mixture	Brown Liquid	55	Steel Drum	No	No	No	Slight	8	No	No	No	No	AR-758820
51350	Mixed Solvent	Black Liquid	55	Steel Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758812
51351	Mixed Solvent	Brown Liquid	55	Steel Drum	<140 deg	No	No	No	8	No	No	No	No	AR-758812
51352	Organic Mixture	Clr/Red Liquid	55	Steel Drum	No	No	No	Slight	7	No	No	No	No	AR-758812
51353	Organic Mixture	Rust Liquid	55	Steel Drum	No	No	No	Slight	7	No	No	No	No	AR-758812
51354	Mixed Solvent	Blk/Clr Liquid	55	Steel Drum	>140 deg	No	No	No	8	No	No	No	No	AR-758810
51355	Absorbent Lab Pack Removed	Blue Liquid	55	Steel Drum	No	No	No	Slight	8	No	No	No	No	AR-758844
51356	Absorbent/Soil	White Solid	55	Steel Drum	No	No	No	No	7	No	No	No	No	AR-758812

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Omega Drum Removal - HazCat Log

Drum No.	Waste Description	Physical Description	Container Volume	Container Type	Flammablilty	Air Reactive	Water Reactive	Water Soluble	pH	Oxidizer	Cyanide	Sulfide	Peroxide	Manifest No.
51357	Absorbent/Soil	White Solid	55	Steel Drum	No	No	No	No	7	No	No	No	No	AR-758812
51358	Absorbent/Soil	Blk/Wh Solid	55	Steel Drum	No	No	No	No	7	No	No	No	No	AR-758810
51359	Mixed Solvent	Brown Liquid	55	Steel Drum	<140 deg	No	No	No	8	No	No	No	No	AR-758810
51360	Organic Mixture	Yellow Liquid	55	Steel Drum	No	No	No	Slight	8	No	No	No	No	AR-758810
51361	Mixed Solvent	Grey Liquid	55	Steel Drum	<140 deg	No	No	No	8	No	No	No	No	AR-758810
51362	Mixed Solvent	Black Liquid	55	Steel Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758812
51363	Mixed Solvent	Brown Liquid	55	Steel Drum	<140 deg	No	No	Slight	8	No	No	No	No	AR-758812
51364	Organic Mixture	Brown Liquid	55	Steel Drum	No	No	No	Slight	8	No	No	No	No	AR-758812
51365	Lean Organic Mixture	Dark Liquid	55	Steel Drum	No	No	No	Slight	10	No	No	No	No	AR-758812
51366	Solidified Resin, Paint	Black Solid	55	Steel Drum	>140 deg	No	No	No	4	No	No	No	No	AR-758810
51367	Mixed Solvent	Black Liquid	55	Steel Drum	<140 deg	No	No	No	8	No	No	No	No	AR-758810
51368	Mixed Solvent	Amber Liquid	55	Steel Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758810
51369	Solidified Resin, Paint	Multi Solid	55	Steel Drum	<140 deg	No	No	No	8	No	No	No	No	AR-758810
51370	Mixed Solvent	Black Liquid	55	Steel Drum	<140 deg	No	No	Slight	8	No	No	No	No	AR-758812
51371	Mixed Solvent	Rust Liquid	55	Steel Drum	>140 deg	No	No	Slight	7	No	No	No	No	AR-758812
51372	Organic Mixture	Black Liquid	55	Steel Drum	No	No	No	Slight	8	No	No	No	No	AR-758812
51373	Mixed Solvent	Dark Liquid	55	Steel Drum	<140 deg	No	No	Slight	8	No	No	No	No	AR-758812
51374	Lean Organic Mixture	Yellow Liquid	30	Steel Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758834
51375	Lean Organic Mixture	Yellow Liquid	30	Steel Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758834
51376	Lean Organic Mixture	Yellow Liquid	30	Steel Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758834
51377	Lean Organic Mixture	Yellow Liquid	30	Steel Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758834
51378	Lean Organic Mixture	Yellow Liquid	30	Steel Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758834
60001	Mixed Solvent	Black Liquid	55	Steel Drum	<140 deg	No	No	No	No	No	No	No	No	AR-758790
60002	Chemical Sludge	Black Solid	55	Steel Drum	<140 deg	No	No	No	No	No	No	No	No	AR-758790
60003	Water Based Sludge	Water w/Pnt Chps.	55	Steel Drum	No	No	No	Yes	7	No	No	No	No	AR-758790
60004	Absorbent/Soil	Small Rock W/ Soil	55	Steel Drum	>140 deg	No	No	No	No	No	No	No	No	AR-757824
60005	Absorbent/Soil	Small Rock W/ Soil	55	Steel Drum	>140 deg	No	No	No	No	No	No	No	No	AR-757824
60006	Organic Mixture	Red Liquid	55	Steel Drum	No	No	No	Yes	7	No	No	No	No	AR-757824
60007	Powder & Granular Oxidizers	Sand	55	Steel Drum	No	No	No	Slight	7	Yes	No	No	No	AR-758820
60008	Mixed Solvent	Yellow Liquid	55	Steel Drum	No	No	No	Yes	7	No	No	No	No	AR-758790
60009	Chemical Sludge	Brown Liquid	55	Steel Drum	No	No	No	No	No	No	No	No	No	AR-758790
60010	Chemical Sludge	Black Goop	55	Steel Drum	>140 deg	No	No	No	No	No	No	No	No	AR-758790
60011	Solidified Resin, Paint	Red Solid	55	Steel Drum	No	No	No	No	No	No	No	No	No	AR-758790
60012	Chemical Sludge	Brown+Red Liquid	55	Steel Drum	No	No	No	No	No	No	No	No	No	AR-758790
60013	Chemical Sludge	Grey Sludge	55	Steel Drum	>140 deg	No	No	No	No	No	No	No	No	AR-758790
60014	Absorbent/Soil	Absorbant	55	Steel Drum	No	No	No	No	7	No	No	No	No	AR-758790
60015	Chemical Sludge	Grey Sludge	55	Steel Drum	>140 deg	No	No	No	No	No	No	No	No	AR-757824
60016	Solidified Resin, Paint	Black Goop	55	Steel Drum	>140 deg	No	No	No	No	No	No	No	No	AR-757824
60017	Lean Organic Mixture	Grey Liquid	55	Steel Drum	>140 deg	No	No	No	No	No	No	No	No	AR-758790
60018	Absorbent/Soil	Soil	55	Steel Drum	No	No	No	No	7	No	No	No	No	AR-758790
60019	Absorbent/Soil	Beige Solid	55	Steel Drum	<140 deg	No	No	Slight	7	No	No	No	No	AR-758790
60020	Chemical Sludge	Grey Solid	55	Steel Drum	>140 deg	No	No	No	No	No	No	No	No	AR-758790
60021	Solidified Resin, Paint	Solid	55	Steel Drum	No	No	No	No	7	No	No	No	No	AR-758790
60022	Absorbent/Soil	Grey Solid	55	Steel Drum	No	No	No	No	No	No	No	No	No	AR-735569
60023	Water Based Sludge	Grey Sludge	55	Poly Drum	No	No	No	No	No	No	No	No	No	AR-757823
60024	Mixed Solvent	Black Liquid	55	Steel Drum	No	No	No	No	No	No	No	No	No	AR-757823
60025	Absorbent/Soil	Grey Solid	55	Steel Drum	No	No	No	No	No	No	No	No	No	AR-757824
60026	Debris, Rags, Filters	Brown Solid	55	Steel Drum	No	No	No	No	No	No	No	No	No	AR-757824
60027	Chemical Sludge	Black Goop	55	Steel Drum	No	No	No	No	No	No	No	No	No	AR-757823
60028	Chemical Sludge	Red Goop	55	Steel Drum	No	No	No	Yes	7	No	No	No	No	AR-757823

Volumes are in gallons unless otherwise specified. NS = Not sampled.

Omega Drum Removal - HazCat Log

Drum No.	Waste Description	Physical Description	Container Volume	Container Type	Flammability	Air Reactive	Water Reactive	Water Soluble	pH	Oxidizer	Cyanide	Sulfide	Peroxide	Manifest No.
60029	Chemical Sludge	White Solid	55	Steel Drum	No	No	No	No	7	No	No	No	No	AR-757824
60030	Chemical Sludge	Black Sludge	55	Steel Drum	No	No	No	No	No	No	No	No	No	AR-757824
60031	Chemical Sludge	Grey Solid	55	Steel Drum	No	No	No	No	No	No	No	No	No	AR-735569
60032	Chemical Sludge	Grey Sludge	55	Steel Drum	No	No	No	Yes	7	No	No	No	No	AR-735569
60033	Chemical Sludge	Brown Liquid	55	Steel Drum	No	No	No	Yes	7	No	No	No	No	AR-735569
60034	Chemical Sludge	Brown Liquid	55	Steel Drum	No	No	No	Yes	7	No	No	No	No	AR-735569
60035	Chemical Sludge	Black Liquid	55	Steel Drum	<140 deg	No	No	Slight	7	No	No	No	No	AR-735569
60036	Chemical Sludge	Black Liquid	55	Steel Drum	<140 deg	No	No	Slight	7	No	No	No	No	AR-735569
60037	Chemical Sludge	Grey Sludge	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-735570
60038	Water Based Sludge	Brown Liquid	55	Steel Drum	>140 deg	No	No	Yes	7	No	No	No	No	AR-757823
60039	Chemical Sludge	Brown Liquid	55	Steel Drum	<140 deg	No	No	No	No	No	No	No	No	AR-735569
60040	Water Based Sludge	Black Sludge	55	Steel Drum	No	No	No	No	No	No	No	No	No	AR-758790
60041	Water Based Sludge	Red Solid	55	Steel Drum	No	No	No	Slight	7	No	No	No	No	AR-735569
60042	Water Based Sludge	Grey Solids	55	Steel Drum	No	No	No	No	No	No	No	No	No	AR-735569
60043	Chemical Sludge	Black Goop	55	Steel Drum	No	No	No	No	No	No	No	No	No	AR-757824
60044	Chemical Sludge	Black Sludge	55	Steel Drum	<140 deg	No	No	Slight	7	No	No	No	No	AR-757824
60045	Chemical Sludge	Black Sludge	55	Steel Drum	No	No	No	No	No	No	No	No	No	AR-757824
60046	Chemical Sludge	Black Goop	55	Steel Drum	<140 deg	No	No	Slight	7	No	No	No	No	AR-758802
60047	Chemical Sludge	Red Sludge	55	Steel Drum	<140 deg	No	No	No	No	No	No	No	No	AR-735570
60048	Chemical Sludge	Grey Sludge	55	Steel Drum	<140 deg	No	No	No	No	No	No	No	No	AR-735570
60049	Chemical Sludge	Black Liquid	55	Steel Drum	<140 deg	No	No	No	No	No	No	No	No	AR-735569
60050	Chemical Sludge	Black Liquid	55	Steel Drum	<140 deg	No	No	Slight	7	No	No	No	No	AR-735569
60051	Absorbent/Soil	Soil	55	Steel Drum	No	No	No	No	10	No	No	No	No	AR-758795
60052	Absorbent/Soil	Soil	55	Steel Drum	<140 deg	No	No	No	No	No	No	No	No	AR-758795
60053	Absorbent/Soil	Soil	55	Steel Drum	<140 deg	No	No	No	No	No	No	No	No	AR-758795
60054	Absorbent/Soil	Soil	55	Steel Drum	No	No	No	No	No	No	No	No	No	AR-758795
60055	Absorbent/Soil	Small Rock	55	Steel Drum	No	No	No	No	7	No	No	No	No	AR-758795
60056	Absorbent/Soil	Small Rock	55	Steel Drum	No	No	No	No	7	No	No	No	No	AR-758795
60057	Chemical Sludge	Red/Blk. Sludg	55	Steel Drum	<140 deg	No	No	No	No	No	No	No	No	AR-758795
60058	Absorbent/Soil	Soil	55	Steel Drum	No	No	No	Slight	7	No	No	No	No	AR-758794
60059	Absorbent/Soil	Soil	55	Steel Drum	No	No	No	Slight	7	No	No	No	No	AR-758794
60060	Absorbent/Soil	Soil	55	Steel Drum	No	No	No	Slight	7	No	No	No	No	AR-758794
60061	Absorbent/Soil	Soil	55	Steel Drum	No	No	No	Slight	7	No	No	No	No	AR-758794
60062	Absorbent/Soil	Soil	55	Steel Drum	No	No	No	Slight	No	No	No	No	No	AR-757824
60063	Absorbent/Soil	Soil	55	Steel Drum	No	No	No	Slight	No	No	No	No	No	AR-758790
60064	Absorbent/Soil	Purple Solid	55	Steel Drum	No	No	No	No	7	No	No	No	No	AR-735569
60065	Absorbent/Soil	Soil	55	Steel Drum	No	No	No	No	No	No	No	No	No	AR-757824
60066	Absorbent/Soil	Soil	55	Steel Drum	No	No	No	No	No	No	No	No	No	AR-758792
60067	Absorbent/Soil	Soil	55	Steel Drum	No	No	No	No	No	No	No	No	No	AR-758792
60068	Resin, Adhesive	White Powder	55	Steel Drum	>140 deg	No	No	No	No	No	No	No	No	AR-758802
60069	Resin, Adhesive	White Powder	55	Steel Drum	>140 deg	No	No	No	No	No	No	No	No	AR-758802
60070	Resin, Adhesive	Black Solid	55	Steel Drum	>140 deg	No	No	No	No	No	No	No	No	AR-758790
60071	Chemical Sludge	Black Liquid	55	Steel Drum	<140 deg	No	No	No	No	No	No	No	No	AR-757824
60072	Chemical Sludge	Black Liquid	55	Steel Drum	<140 deg	No	No	No	No	No	No	No	No	AR-758790
60073	Chemical Sludge	Black Liquid	55	Steel Drum	<140 deg	No	No	No	No	No	No	No	No	AR-758790
60074	Water Based Sludge	Grey Sludge	55	Steel Drum	>140 deg	No	No	No	No	No	No	No	No	AR-758790
60075	Resin, Adhesive	Grey Solid	55	Steel Drum	<140 deg	No	No	No	No	No	No	No	No	AR-758790
60076	Powder & Granular Oxidizers	Yellow Solid	55	Steel Drum	No	No	No	Slight	7	Yes	No	No	No	AR-758812
60077	Mixed Solvent	Black Liquid	55	Steel Drum	<140 deg	No	No	No	No	No	No	No	No	AR-758790
60078	Absorbent/Soil	Soil Black	55	Steel Drum	>140 deg	No	No	No	No	No	No	No	No	AR-758790

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Omega Drum Removal - HazCat Log

Drum No.	Waste Description	Physical Description	Container Volume	Container Type	Flammability	Air Reactive	Water Reactive	Water Soluble	pH	Oxidizer	Cyanide	Sulfide	Peroxide	Manifest No.
60079	Absorbent/Soil	Soil Black	55	Steel Drum	>140 deg	No	No	No	No	No	No	No	No	AR-758790
60080	Absorbent/Soil	Black Rocks	55	Steel Drum	No	No	No	No	No	No	No	No	No	AR-758796
60081	Absorbent/Soil	Black Rocks	55	Steel Drum	No	No	No	No	No	No	No	No	No	AR-758790
60082	Absorbent/Soil	Black Solid	55	Steel Drum	>140 deg	No	No	No	No	No	No	No	No	AR-758796
60083	Absorbent/Soil	Black Rocks	55	Steel Drum	No	No	No	No	No	No	No	No	No	AR-758796
60084	Absorbent/Soil	Soil	55	Steel Drum	No	No	No	No	7	No	No	No	No	AR-758796
60085	Absorbent/Soil	Pigs	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758796
60086	Debris	Solid Debris	55	Steel Drum	No	No	No	No	No	No	No	No	No	AR-758790
60087	Resin	Clear Solid	55	Steel Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758796
60088	Debris, Rags, Filters	Sawdust Solid	55	Steel Drum	<140 deg	No	No	No	No	No	No	No	No	AR-758796
60089	Solidified Resin, Paint	Rubber Solid	55	Steel Drum	No	No	No	No	7	No	No	No	No	AR-758796
60090	Absorbent/Soil	Dirt	55	Steel Drum	No	No	No	No	7	No	No	No	No	AR-758812
60091	Powder & Granular Oxidizers	Dirt	55	Steel Drum	No	No	No	Slight	7	No	No	No	No	AR-758812
60092	Absorbent/Soil	Absorbent	55	Steel Drum	No	No	No	No	7	No	No	No	No	AR-758812
60093	Absorbent/Soil	White Solid	55	Steel Drum	No	No	No	No	10	No	No	No	No	AR-758812
60094	Debris, Rags, Filters	Activated Crbn	55	Steel Drum	No	No	No	No	7	No	No	No	No	AR-758795
60095	Chemical Sludge	Brown Water	85	Overpack Drum	No	No	No	No	7	No	No	No	No	AR-735569
60096	Solidified Resin, Paint	Brown Crystals	85	Overpack Drum	<140 deg	No	No	No	7	No	No	No	No	AR-735569
60097	Chemical Sludge	Brown Liquid	85	Overpack Drum	No	No	No	No	7	No	No	No	No	AR-735569
60098	Solidified Resin, Paint	Brn/Blue Solid	85	Overpack Drum	No	No	No	No	7	No	No	No	No	AR-735569
60099	Acid Sludge	Brown Liquid	55	Steel Drum	No	No	No	No	2	No	No	No	No	AR-758700
60100	Chemical Sludge	Dark Green Liq	55	Steel Drum	No	No	No	No	7	No	No	No	No	AR-758790
60101	Chemical Sludge	Brown Sludge	55	Steel Drum	Yes	No	No	No	7	No	No	No	No	AR-758790
60102	Debris, Rags, Filters	Wet Cardboard	55	Steel Drum	Yes	No	No	No	7	No	No	No	No	AR-757824
60103	Absorbent/Soil	Absorbent Clay	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758795
60104	Absorbent/Soil	Absorbent Clay	55	Steel Drum	No	No	No	No	7	No	No	No	No	AR-758795
60105	Absorbent/Soil	Soil	55	Steel Drum	No	No	No	No	7	No	No	No	No	AR-757824
60106	Debris, Rags, Filters	Rags	55	Steel Drum	No	No	No	No	7	No	No	No	No	AR-735569
60107	Absorbent/Soil	Absorbent Clay	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-735569
60108	Absorbent/Soil	Vermiculate	55	Steel Drum	No	No	No	No	7	No	No	No	No	AR-758700
60109	Debris, Rags, Filters	Paint Debris	55	Steel Drum	No	No	No	No	7	No	No	No	No	AR-757824
60110	Absorbent/Soil	Dirt	55	Steel Drum	No	No	No	No	7	No	No	No	No	AR-758795
60111	Absorbent/Soil	Black Solid/Liq	55	Steel Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758795
60112	Debris, Rags, Filters	Plastic	55	Steel Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758795
60113	Absorbent/Soil	Absorbent	55	Steel Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758795
60114	Solidified Resin, Paint	Grease	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758790
60115	Solidified Resin, Paint	Plastic	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-735569
60116	Debris, Rags, Filters	Black Liquid	55	Steel Drum	<140 deg	No	No	No	7	No	No	No	No	AR-735569
60117	Chemical Sludge	Black Liquid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-735569
60118	Solidified Resin, Paint	Plastic Solid	55	Steel Drum	<140 deg	No	No	No	7	No	No	No	No	AR-757824
60119	Solidified Resin, Paint	White Solid	55	Steel Drum	<140 deg	No	No	No	7	No	No	No	No	AR-757824
60120	Solidified Resin, Paint	White Solid	55	Steel Drum	<140 deg	No	No	No	7	No	No	No	No	AR-757824
60121	Solidified Resin, Paint	White Solid	55	Steel Drum	<140 deg	No	No	No	7	No	No	No	No	AR-757824
60122	Chemical Sludge	Brown LiQuid	55	Steel Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758794
60123	Chemical Sludge	Brn. Liq. Sludge	55	Steel Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758802
60124	Chemical Sludge	Brn. Liq. Sludge	55	Steel Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758796
60125	Chemical Sludge	Blk. Liq. Sludge	55	Steel Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758796
60126	Powder & Granular Oxidizers	Absorbent	55	Steel Drum	No	No	No	No	7	No	No	No	No	AR-758808
60127	Absorbent/Soil	Vermiculate	55	Steel Drum	No	No	No	No	7	No	No	No	No	AR-757824

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Omega Drum Removal - HazCat Log

Drum No.	Waste Description	Physical Description	Container Volume	Container Type	Flammability	Air Reactive	Water Reactive	Water Soluble	pH	Oxidizer	Cyanide	Sulfide	Peroxide	Manifest No.
60128	Absorbent/Soil	Pnt. Chips/Verm	55	Steel Drum	No	No	No	No	7	No	No	No	No	AR-758792
60129	Absorbent/Soil	Vermiculate	55	Steel Drum	No	No	No	No	7	No	No	No	No	AR-757824
60130	Organic Mixture	Black Liquid	55	Steel Drum	No	No	No	No	7	No	No	No	No	AR-758795
60131	Powder & Granular Oxidizers	Vermiculate	55	Steel Drum	No	No	No	Slight	7	Yes	No	No	No	AR-758805
60132	Mixed Solvent	Black Liquid	55	Steel Drum	No	No	No	No	7	No	No	No	No	AR-758796
60133	Mixed Solvent	Black Liquid	55	Steel Drum	No	No	No	No	7	No	No	No	No	AR-758796
60134	Mixed Solvent	Black Liquid	55	Steel Drum	No	No	No	No	7	No	No	No	No	AR-758796
60135	Chemical Sludge	Black Sludge	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758796
60136	Mixed Solvent	Black Liquid	55	Steel Drum	No	No	No	No	7	No	No	No	No	AR-758792
60137	Mixed Solvent	Beige Liquid	55	Steel Drum	No	No	No	No	7	No	No	No	No	AR-758792
60138	Debris, Rags, Filters	Grey Solid	55	Steel Drum	No	No	No	No	7	No	No	No	No	AR-758790
60139	Solidified Resin, Paint	Resin	55	Steel Drum	No	No	No	No	7	No	No	No	No	AR-735569
60140	Debris, Rags, Filters	Filter Element	55	Steel Drum	No	No	No	No	7	No	No	No	No	AR-758796
60141	Debris, Rags, Filters	Rags	55	Steel Drum	Yes	No	No	No	7	No	No	No	No	AR-758794
60142	Debris, Rags, Filters	Filter Element	55	Steel Drum	Yes	No	No	No	7	No	No	No	No	AR-758794
60143	Debris, Rags, Filters	Rags	55	Steel Drum	Yes	No	No	No	7	No	No	No	No	AR-758794
60144	Chemical Sludge	Amber Liquid	55	Steel Drum	No	No	No	No	7	No	No	No	No	AR-735569
60145	Chemical Sludge	Amber Liquid	55	Steel Drum	No	No	No	No	7	No	No	No	No	AR-735569
60146	Chemical Sludge	Brown Liquid	55	Steel Drum	<140 deg	No	No	No	7	No	No	No	No	AR-757824
60147	Mixed Solvent	Black Liquid	55	Steel Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758794
60148	Absorbent/Soil	Pigs/No Samp.	55	Steel Drum	NS	NS	NS	NS	NS	NS	NS	NS	NS	AR-758794
60149	Absorbent/Soil	Absorbent	55	Steel Drum	No	No	No	No	7	No	No	No	No	AR-758794
60150	Solidified Resin, Paint	Resin	55	Steel Drum	Yes	No	No	No	7	No	No	No	No	AR-758794
60151	Organic Mixture	Brown Water	55	Steel Drum	No	No	No	No	7	No	No	No	No	AR-758792
60152	Debris, Rags, Filters	Cardboard	55	Steel Drum	Yes	No	No	No	7	No	No	No	No	AR-758796
60153	Powder & Granular Oxidizers	Powder	55	Steel Drum	>140 deg	No	No	Slight	7	Yes	No	No	No	AR-758790
60154	Debris, Rags, Filters	Wh/Blk Solid	55	Steel Drum	No	No	No	No	7	No	No	No	No	AR-758796
60155	Solidified Resin, Paint	Black Solid	55	Steel Drum	No	No	No	No	7	No	No	No	No	AR-757824
60156	Solidified Resin, Paint	Black/Grey Sol	55	Steel Drum	No	No	No	No	7	No	No	No	No	AR-758796
60157	Absorbent/Soil	Brn/Blk Solid	55	Steel Drum	No	No	No	No	7	No	No	No	No	AR-758794
60158	Debris, Rags, Filters	Green Fiber	55	Steel Drum	No	No	No	No	7	No	No	No	No	AR-758792
60159	Debris, Rags, Filters	Green Fiber	55	Steel Drum	No	No	No	No	7	No	No	No	No	AR-758790
60160	Absorbent/Soil	Soil	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758793
60161	Absorbent/Soil	Soil	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758793
60162	Absorbent/Soil	Soil	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758793
60163	Absorbent/Soil	Soil	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758793
60164	Organic Mixture	Brown Liq/Sol	55	Steel Drum	>140 deg	No	No	No	8	No	No	No	No	AR-758795
60165	Absorbent/Soil	Polymerzd Rub	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758793
60166	Absorbent/Soil	Brn. Absorbent	55	Steel Drum	>140 deg	No	No	No	8	No	No	No	No	AR-758793
60167	Solidified Resin, Paint	White Solid	55	Steel Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758793
60168	Absorbent/Soil	Soil	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758793
60169	Absorbent/Soil	Soil	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758793
60170	Absorbent/Soil	Soil	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758793
60171	Absorbent/Soil	Soil	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758796
60172	Debris, Rags, Filters	Black Plastic	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758793
60173	Debris, Rags, Filters	White Solid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758793
60174	Debris, Rags, Filters	Rags	55	Steel Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758795
60175	Debris, Rags, Filters	Green Fiber	55	Steel Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758793
60176	Activated Charcoal	Black Solid	55	Steel Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758816

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Omega Drum Removal - HazCat Log

Drum No.	Waste Description	Physical Description	Container Volume	Container Type	Flammability	Air Reactive	Water Reactive	Water Soluble	pH	Oxidizer	Cyanide	Sulfide	Peroxide	Manifest No.
60177	Absorbent/Soil	Grey Solid	55	Steel Drum	>140 deg	No	No	No	8	No	No	No	No	AR-758790
60178	Absorbent/Soil	Brown Solid	55	Steel Drum	>140 deg	No	No	No	8	No	No	No	No	AR-758790
60179	Activated Charcoal	Black Solid	55	Steel Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758843
60180	Absorbent/Soil	Brown Solid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758793
60181	Absorbent/Soil	Brown Solid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758793
60182	Absorbent/Soil	Brown Solid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758793
60183	Absorbent/Soil	Brown Solid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758793
60184	Debris, Rags, Filters	Yellow Solid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758793
60185	Debris, Rags, Filters	White Solid	55	Steel Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758793
60186	Lean Organic Mixture	Brown Liquid	55	Steel Drum	>140 deg	No	No	No	8	No	No	No	No	AR-758790
60187	Debris, Rags, Filters	White Solid	55	Steel Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758793
60188	Absorbent/Soil	Brown Solid	55	Steel Drum	>140 deg	No	No	No	8	No	No	No	No	AR-758793
60189	Absorbent/Soil	Grey Solid	55	Steel Drum	>140 deg	No	No	No	8	No	No	No	No	AR-758795
60190	Absorbent/Soil	Brown Solid	55	Steel Drum	>140 deg	No	No	No	8	No	No	No	No	AR-758793
60191	Debris, Rags, Filters	Plastic Debris	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758790
60192	Absorbent/Soil	Black Solid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758790
60193	Absorbent/Soil	Brown Solid	55	Steel Drum	>140 deg	No	No	No	8	No	No	No	No	AR-758790
60194	Absorbent/Soil	Brown Solid	55	Steel Drum	<140 deg	No	No	No	8	No	No	No	No	AR-758790
60195	Absorbent/Soil	Black Solid	55	Steel Drum	<140 deg	No	No	No	8	No	No	No	No	AR-758793
60196	Absorbent/Soil	Brown Solid	55	Steel Drum	>140 deg	No	No	No	8	No	No	No	No	AR-758793
60197	Absorbent/Soil	Brown Solid	55	Steel Drum	>140 deg	No	No	No	8	No	No	No	No	AR-758793
60198	Absorbent/Soil	Brown Solid	55	Steel Drum	>140 deg	No	No	No	8	No	No	No	No	AR-758793
60199	Absorbent/Soil	White Solid	55	Steel Drum	>140 deg	No	No	No	8	No	No	No	No	AR-758793
60200	Absorbent/Soil	White Solid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758793
60201	Organic Mixture	Black Liquid	55	Steel Drum	>140 deg	No	No	No	8	No	No	No	No	AR-758793
60202	Lean Organic Mixture	Clear Liquid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758793
60203	Mixed Solvent	Clear Liq/Sol	55	Steel Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758790
60204	Mixed Solvent	Multi Sludge	55	Steel Drum	<140 deg	No	No	No	8	No	No	No	No	AR-758790
60205	Absorbent/Soil	Brown Solid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758793
60206	Absorbent/Soil	Brown Solid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758790
60207	Absorbent/Soil	Brown Solid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758790
60208	Absorbent/Soil	Brown Solid	55	Steel Drum	>140 deg	No	No	No	8	No	No	No	No	AR-758790
60209	Absorbent/Soil	Brown Solid	55	Steel Drum	>140 deg	No	No	No	8	No	No	No	No	AR-758790
60210	Absorbent/Soil	Brown Solid	55	Steel Drum	>140 deg	No	No	No	8	No	No	No	No	AR-758790
60211	Absorbent/Soil	Brown Solid	55	Steel Drum	>140 deg	No	No	No	8	No	No	No	No	AR-758793
60212	Absorbent/Soil	Brown Solid	55	Steel Drum	>140 deg	No	No	No	8	No	No	No	No	AR-758793
60213	Absorbent/Soil	Brown Solid	55	Steel Drum	>140 deg	No	No	No	8	No	No	No	No	AR-758793
60214	Absorbent/Soil	Brown Solid	55	Steel Drum	>140 deg	No	No	No	8	No	No	No	No	AR-758793
60215	Absorbent/Soil	Brown Solid	55	Steel Drum	>140 deg	No	No	No	8	No	No	No	No	AR-758793
60216	Absorbent/Soil	Lt. Brown Solid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758793
60217	Lean Organic Mixture	Black Liquid	55	Steel Drum	>140 deg	No	No	No	8	No	No	No	No	AR-758793
60218	Absorbent/Soil	Black Solid	55	Steel Drum	>140 deg	No	No	No	8	No	No	No	No	AR-758793
60219	Absorbent/Soil	Black Solid	55	Steel Drum	>140 deg	No	No	No	8	No	No	No	No	AR-758793
60220	Solidified Resin, Paint	Black Solid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758793
60221	Absorbent/Soil	No Sample	no samp.	Steel Drum	NS	NS	NS	NS	NS	NS	NS	NS	NS	AR-758793
60222	Solidified Resin, Paint	Black Solid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758793
60223	Absorbent/Soil	No Sample	no samp.	Steel Drum	NS	NS	NS	NS	NS	NS	NS	NS	NS	AR-758793
60224	Absorbent/Soil	Brown Solid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758700
60225	Lean Organic Mixture	Black Liquid	55	Steel Drum	>140 deg	No	No	No	8	No	No	No	No	AR-758700
60226	Mixed Solvent	Brown Liquid	55	Steel Drum	<140 deg	No	No	No	8	No	No	No	No	AR-758793
60227	Debris, Rags, Filters	Mixed Solid	55	Steel Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758700

Volumes are in gallons unless otherwise specified. NS = Not sampled.

Omega Drum Removal - HazCat Log

Drum No.	Waste Description	Physical Description	Container Volume	Container Type	Flammablility	Air Reactive	Water Reactive	Water Soluble	pH	Oxidizer	Cyanide	Sulfide	Peroxide	Manifest No.
60228	Absorbent/Soil	Brown Solid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758793
60229	Absorbent/Soil	Black Solid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758793
60230	Absorbent/Soil	Grey Solid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758793
60231	Absorbent/Soil	Grey Solid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758793
60232	Mixed Solvent	Red Liquid	55	Steel Drum	<140 deg	No	No	No	8	No	No	No	No	AR-758793
60233	Mixed Solvent	Red Liquid	55	Steel Drum	<140 deg	No	No	No	8	No	No	No	No	AR-758792
60234	Mixed Solvent	Red Liquid	55	Steel Drum	<140 deg	No	No	No	8	No	No	No	No	AR-758793
60235	Mixed Solvent	Red Liquid	55	Steel Drum	<140 deg	No	No	No	8	No	No	No	No	AR-758793
60236	Absorbent/Soil	White Powder	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758700
60237	Absorbent/Soil	White Powder	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758700
60238	Absorbent/Soil	Brown Solid	55	Steel Drum	>140 deg	No	No	No	8	No	No	No	No	AR-758700
60239	Absorbent/Soil	White Powder	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758700
60240	Absorbent/Soil	Brown Solid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758700
60241	Absorbent/Soil	Black Solid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758700
60242	Absorbent/Soil	Brown Solid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758700
60243	Absorbent/Soil	Brown Solid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758811
60244	Absorbent/Soil	Black Solid	55	Steel Drum	>140 deg	No	No	No	8	No	No	No	No	AR-758804
60245	Absorbent/Soil	Multi-Solid	55	Steel Drum	>140 deg	No	No	No	8	No	No	No	No	AR-758804
60246	Absorbent/Soil	Multi-Solid	55	Steel Drum	>140 deg	No	No	No	8	No	No	No	No	AR-758804
60247	Absorbent/Soil	Multi-Solid	55	Steel Drum	>140 deg	No	No	No	8	No	No	No	No	AR-758804
60248	Water Based Sludge	Grey Liquid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758811
60249	Absorbent/Soil	White Solid	55	Steel Drum	No	No	No	No	7	No	No	No	No	AR-758792
60250	Mixed Solvent	Black Liquid	55	Steel Drum	<140 deg	No	No	No	8	No	No	No	No	AR-758792
60251	Absorbent/Soil	Multi Solid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758792
60252	Absorbent/Soil	Brown Solid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758792
60253	Organic Mixture	Brown Liquid	55	Steel Drum	No	No	No	No	6	No	No	No	No	AR-758700
60254	Solidified Resin, Paint	Brown Solid	55	Steel Drum	No	No	No	No	7	No	No	No	No	AR-758792
60255	Mixed Solvent	Black Sludge	55	Steel Drum	<140 deg	No	No	No	8	No	No	No	No	AR-758792
60256	Mixed Solvent	Black Liquid	55	Steel Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758794
60257	Organic Mixture	Brown Liquid	55	Steel Drum	>140 deg	No	No	Yes	9	No	No	No	No	AR-758794
60258	Mixed Solvent	Brown Sludge	55	Steel Drum	<140 deg	No	No	No	8	No	No	No	No	AR-758794
60259	Chemical Sludge	Brown Solid	55	Steel Drum	<140 deg	No	No	No	8	No	No	No	No	AR-758794
60260	Absorbent/Soil	Brown Solid	55	Steel Drum	No	No	No	No	8	No	No	No	No	AR-758798
60261	Absorbent/Soil	Brown Solid	55	Steel Drum	No	No	No	No	7	No	No	No	No	AR-758798
60262	Absorbent/Soil	Brown Solid	55	Steel Drum	No	No	No	No	7	No	No	No	No	AR-758798
60263	Absorbent/Soil	Brown Solid	55	Steel Drum	No	No	No	No	7	No	No	No	No	AR-758798
60264	Lean Organic Mixture	Red Liquid	55	Steel Drum	No	No	No	Yes	8	No	No	No	No	AR-758790
60265	Organic Mixture	Blk Liq Sludge	55	Steel Drum	No	No	No	Yes	8	No	No	No	No	AR-758792
60266	Absorbent/Debris	Black Solid	55	Steel Drum	No	No	No	No	7	No	No	No	No	AR-758792
60267	Mixed Solvent	Brown Liquid	55	Steel Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758792
60268	High BTU/Pnt Sludge	Multi-Sludge	55	Steel Drum	<140 deg	No	No	No	8	No	No	No	No	AR-758802
60269	Mixed Solvent	Red Liquid	55	Steel Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758792
60270	Chemical Sludge	Black Sludge	55	Steel Drum	<140 deg	No	No	No	8	No	No	No	No	AR-758802
60271	Chemical Sludge	Red Sludge	55	Steel Drum	<140 deg	No	No	No	8	No	No	No	No	AR-758802
60272	Organic Mixture	Brown Liq/Sol	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758792
60273	Organic Mixture	Brown Liq/Sol	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758792
60274	Organic Mixture	Brown Liq/Sol	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758792
60275	Organic Mixture	Brown Liq/Sol	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758792
60276	Mixed Solvent	Black/Blue Liq	55	Steel Drum	<140 deg	No	No	No	8	No	No	No	No	AR-758794
60277	Absorbent	Brown Solid	55	Steel Drum	No	No	No	No	7	No	No	No	No	AR-758794
60278	Solid Resin	Brown Solid	55	Steel Drum	No	No	No	No	8	No	No	No	No	AR-758794

Volumes are in gallons unless otherwise specified. NS = Not sampled.

Omega Drum Removal - HazCat Log

Drum No.	Waste Description	Physical Description	Container Volume	Container Type	Flammeblility	Air Reactive	Water Reactive	Water Soluble	pH	Oxidizer	Cyanide	Sulfide	Peroxide	Manifest No.
60279	Mixed Solvent	Black Goop	55	Steel Drum	>140 deg	No	No	No	No	No	No	No	No	AR-758794
60280	Mixed Solvent	Black Goop	55	Steel Drum	>140 deg	No	No	No	No	No	No	No	No	AR-758792
60281	Oxidizer	Brown Powder	55	Steel Drum	>140 deg	No	No	Yes	7	Yes	No	No	No	AR-758808
60282	Oxidizer	Brown Powder	55	Steel Drum	>140 deg	No	No	Yes	7	Yes	No	No	No	AR-758808
60283	Oxidizer	Brown Powder	55	Steel Drum	>140 deg	No	No	Yes	7	Yes	No	No	No	AR-758808
60284	Chemical Sludge	Black Sludge	55	Steel Drum	<140 deg	No	No	No	No	No	No	No	No	AR-758802
60285	Solidified Resin, Paint	Brown Solid	55	Steel Drum	<140 deg	No	No	No	No	No	No	No	No	AR-758792
60286	Organic Mixture	Black Liquid	55	Steel Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758813
60287	Mixed Solvent	Brown Liquid	55	Steel Drum	>140 deg	No	No	No	No	No	No	No	No	AR-758792
60288	Absorbent/Soil	Soil	55	Steel Drum	No	No	No	No	No	No	No	No	No	AR-758700
60289	Absorbent/Soil	Soil	55	Steel Drum	>140 deg	No	No	No	No	No	No	No	No	AR-758700
60290	Absorbent/Soil	Soil	55	Steel Drum	No	No	No	No	7	No	No	No	No	AR-758700
60291	Solidified Resin, Paint	Cloth	55	Steel Drum	No	No	No	No	9	No	No	No	No	AR-758700
60292	Absorbent/Soil	Soil	55	Steel Drum	>140 deg	No	No	No	No	No	No	No	No	AR-758700
60293	Absorbent/Soil	Soil	55	Steel Drum	>140 deg	No	No	No	No	No	No	No	No	AR-758700
60294	Absorbent/Soil	Soil	55	Steel Drum	>140 deg	No	No	No	No	No	No	No	No	AR-758700
60295	Mixed Solvent	Red Liquid	55	Steel Drum	No	No	No	Yes	7	No	No	No	No	AR-758790
60296	Paint, Resin	Silicone	55	Steel Drum	No	No	No	No	No	No	No	No	No	AR-758794
60297	Absorbent/Soil	Soil	55	Steel Drum	No	No	No	Slight	7	No	No	No	No	AR-758792
60298	Sulfur Powder	Yellow Powder	55	Steel Drum	No	No	No	No	No	No	No	No	No	AR-758799
60299	Absorbent/Soil	Soil	55	Steel Drum	No	No	No	No	5	No	No	No	No	AR-758790
60300	Absorbent/Soil	White Pellets	55	Steel Drum	No	No	No	No	7	No	No	No	No	AR-758792
60301	Absorbent/Soil	Soil	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758792
60302	Chemical Sludge	Still Bottom	55	Steel Drum	>140 deg	No	No	No	No	No	No	No	No	AR-758801
60303	Absorbent/Soil	Soil	55	Steel Drum	No	No	No	No	No	No	No	No	No	AR-758792
60304	Chemical Sludge	Red Sludge	55	Steel Drum	<140 deg	No	No	No	No	No	No	No	No	AR-758821
60305	Mixed Solvent	Black Liquid	55	Steel Drum	<140 deg	No	No	No	No	No	No	No	No	AR-758792
60306	Mixed Solvent	Red Liquid	55	Steel Drum	<140 deg	No	No	No	No	No	No	No	No	AR-758792
60307	Chemical Solids	White Solid	55	Steel Drum	No	No	No	No	No	No	No	No	No	AR-758794
60308	Absorbent/Soil	Soil	55	Steel Drum	No	No	No	No	No	No	No	No	No	AR-758794
60309	Solidified Resin, Paint	Soil	55	Steel Drum	>140 deg	No	No	No	No	No	No	No	No	AR-758794
60310	Mixed Solvent	Black Sludge	55	Steel Drum	No	No	No	No	No	No	No	No	No	AR-758794
60311	Organic Mixture	Black Liquid	55	Steel Drum	No	No	No	No	7	No	No	No	No	AR-758794
60312	Organic Mixture	Black Sludge	55	Steel Drum	No	No	No	No	No	No	No	No	No	AR-758796
60313	Organic Mixture	Black Sludge	55	Steel Drum	No	No	No	No	No	No	No	No	No	AR-758700
60314	Organic Mixture	Black Sludge	55	Steel Drum	No	No	No	No	No	No	No	No	No	AR-758700
60315	Organic Mixture	Black Sludge	55	Steel Drum	No	No	No	No	No	No	No	No	No	AR-758700
60316	Organic Mixture	Black Sludge	55	Steel Drum	No	No	No	No	No	No	No	No	No	AR-758700
60317	Organic Mixture	Black Sludge	55	Steel Drum	No	No	No	No	No	No	No	No	No	AR-758700
60318	Organic Mixture	Black Sludge	55	Steel Drum	No	No	No	No	No	No	No	No	No	AR-758794
60319	Organic Mixture	Black Sludge	55	Steel Drum	>140 deg	No	No	No	No	No	No	No	No	AR-758700
60320	Absorbent/Soil	Absorbent	55	Steel Drum	No	No	No	No	No	No	No	No	No	AR-758796
60321	Powder & Granular Oxidizers	Yellow Absorb.	55	Steel Drum	No	No	No	Slight	No	Yes	No	No	No	AR-758808
60322	Acid Sludge	White Solid	55	Steel Drum	No	No	No	Slight	3	No	No	No	No	AR-758798
60323	Alkaline Sludge	Red Solid	55	Steel Drum	No	No	No	Yes	14	No	No	No	No	AR-758805
60324	Mixed Solvent	Grey Paint	55	Steel Drum	>140 deg	No	No	No	No	No	No	No	No	AR-758700
60325	Mixed Solvent	Black Liquid	55	Steel Drum	>140 deg	No	No	No	No	No	No	No	No	AR-758798
60326	Organic Mixture	White Liquid	55	Steel Drum	>140 deg	No	No	Slight	7	No	No	No	No	AR-758798
60327	Solidified Resin, Paint	Black Sludge	55	Steel Drum	>140 deg	No	No	No	No	No	No	No	No	AR-758794
60328	Organic Mixture	Black Sludge	55	Steel Drum	No	No	No	Yes	7	No	No	No	No	AR-758700

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Drum No.	Waste Description	Physical Description	Container Volume	Container Type	Flammability	Air Reactive	Water Reactive	Water Soluble	pH	Oxidizer	Cyanide	Sulfide	Peroxide	Manifest No.
60329	Absorbent/Soil	Soil	55	Steel Drum	No	No	No	No	7	No	No	No	No	AR-758700
60330	Organic Mixture	Red Sludge	55	Steel Drum	No	No	No	No	No	No	No	No	No	AR-758700
60331	Debris, Rags, Filters	Rags	55	Steel Drum	>140 deg	No	No	No	No	No	No	No	No	AR-758700
60332	Absorbent/Soil	Absorbent	55	Steel Drum	No	No	No	Slight	7	No	No	No	No	AR-758700
60333	Absorbent/Soil	Absorbent	55	Steel Drum	No	No	No	No	7	No	No	No	No	AR-758700
60334	Chemical Solids	White Powder	55	Steel Drum	No	No	No	No	No	No	No	No	No	AR-758799
60335	Debris, Rags, Filters	Paper	55	Steel Drum	<140 deg	No	No	No	No	No	No	No	No	AR-758700
60336	Mixed Solvent	Black Liquid	55	Steel Drum	>140 deg	No	No	No	No	No	No	No	No	AR-758700
60337	Mixed Solvent	Black Liquid	55	Steel Drum	>140 deg	No	No	No	No	No	No	No	No	AR-758700
60338	Organic Mixture	Red Liquid	55	Steel Drum	>140 deg	No	No	No	No	No	No	No	No	AR-758700
60339	Solidified Resin, Paint	Black Sludge	55	Steel Drum	>140 deg	No	No	No	No	No	No	No	No	AR-758700
60340	Absorbent/Soil	Soil	55	Steel Drum	>140 deg	No	No	Slight	7	No	No	No	No	AR-758700
60341	Solidified Resin, Paint	Black Sludge	55	Steel Drum	<140 deg	No	No	No	No	No	No	No	No	AR-758700
60342	Solidified Resin, Paint	Black Solid	55	Steel Drum	>140 deg	No	No	No	No	No	No	No	No	AR-758700
60343	Mixed Solvent	Black Liquid	55	Steel Drum	>140 deg	No	No	No	No	No	No	No	No	AR-758700
60344	Absorbent/Soil	Soil	55	Poly Drum	No	No	No	No	No	No	No	No	No	AR-758794
60345	Absorbent/Soil	Soil	55	Poly Drum	No	No	No	No	No	No	No	No	No	AR-758794
60346	Absorbent/Soil	Absorbent	55	Poly Drum	No	No	No	Slight	9	No	No	No	No	AR-758700
60347	Absorbent/Soil	Absorbent	55	Steel Drum	No	No	No	Slight	7	No	No	No	No	AR-758700
60348	Absorbent/Soil	Soil	55	Steel Drum	No	No	No	Slight	7	No	No	No	No	AR-758700
60349	Debris, Rags, Filters	Paper	55	Steel Drum	>140 deg	No	No	No	No	No	No	No	No	AR-758700
60350	Debris, Rags, Filters	Plastic Bottles	55	Steel Drum	>140 deg	NS	NS	NS	NS	NS	NS	NS	NS	AR-758700
60351	Debris, Rags, Filters	Paper	55	Steel Drum	>140 deg	No	No	No	No	No	No	No	No	AR-758700
60352	Solidified Resin, Paint	Black Solid	55	Steel Drum	>140 deg	No	No	No	No	No	No	No	No	AR-758792
60353	Solidified Resin, Paint	Black Solid	55	Steel Drum	>140 deg	No	No	No	No	No	No	No	No	AR-758802
60354	Solidified Resin, Paint	Black Solid	55	Steel Drum	>140 deg	No	No	No	No	No	No	No	No	AR-758794
60355	Solidified Resin, Paint	Black Solid	55	Steel Drum	>140 deg	No	No	No	No	No	No	No	No	AR-758794
60356	Chemical Sludge	Grease	55	Steel Drum	>140 deg	No	No	No	No	No	No	No	No	AR-758700
60357	Debris, Rags, Filters	Plastic	55	Steel Drum	>140 deg	No	No	No	No	No	No	No	No	AR-758700
60358	Absorbent/Soil	Soil	55	Steel Drum	<140 deg	No	No	Slight	7	No	No	No	No	AR-758700
60359	Solidified Resin, Paint	Soil	55	Steel Drum	>140 deg	No	No	Slight	7	No	No	No	No	AR-758700
60360	Solidified Resin, Paint	Soil	55	Steel Drum	>140 deg	No	No	No	No	No	No	No	No	AR-758794
60361	Solidified Resin, Paint	Absorbent	55	Steel Drum	>140 deg	No	No	No	No	No	No	No	No	AR-758794
60362	Absorbent/Soil	Absorbent	55	Steel Drum	>140 deg	No	No	No	No	No	No	No	No	AR-758796
60363	Absorbent/Soil	Absorbent	55	Steel Drum	>140 deg	No	No	No	No	No	No	No	No	AR-758792
60364	Mixed Solvent	Yellow Liquid	55	Steel Drum	>140 deg	No	No	Slight	7	No	No	No	No	AR-758798
60365	Absorbent/Soil	Oil Filters	55	Steel Drum	>140 deg	No	No	No	No	No	No	No	No	AR-758796
60366	Debris, Rags, Filters	Paper	55	Steel Drum	>140 deg	No	No	No	No	No	No	No	No	AR-758796
60367	Aerosol Cans	Aerosol Cans	55	Steel Drum	NS	NS	NS	NS	NS	NS	NS	NS	NS	AR-758798
60368	Mixed Solvent	Soil	55	Steel Drum	<140 deg	No	No	No	No	No	No	No	No	AR-758700
60369	Mixed Solvent	Still Bottom	55	Steel Drum	>140 deg	No	No	No	No	No	No	No	No	AR-758826
60370	Debris, Rags, Filters	PPE	55	Steel Drum	>140 deg	No	No	No	No	No	No	No	No	AR-758700
60371	Debris, Rags, Filters	Paper	55	Steel Drum	>140 deg	No	No	No	No	No	No	No	No	AR-758700
60372	Mixed Solvent	Yellow Liquid	55	Steel Drum	>140 deg	No	No	No	No	No	No	No	No	AR-758826
60373	Solidified Resin, Paint	Hard Resin	55	Steel Drum	>140 deg	No	No	No	No	No	No	No	No	AR-758700
60374	Mixed Solvent	Still Bottom	55	Steel Drum	>140 deg	No	No	No	No	No	No	No	No	AR-758700
60375	Hi BTU/Hi Halide	Grey Sludge	55	Steel Drum	>140 deg	No	No	Slight	7	No	No	No	No	AR-758700
60376	Mixed Solvent	Still Bottom	55	Steel Drum	>140 deg	No	No	No	No	No	No	No	No	AR-758794
60377	Absorbent/Soil	Grey Solid	55	Steel Drum	No	No	No	No	No	No	No	No	No	AR-758700
60378	Mixed Solvent	Still Bottom	55	Steel Drum	No	No	No	Slight	7	No	No	No	No	AR-758794
60379	Solidified Resin, Paint	Soil	55	Steel Drum	No	No	No	No	No	No	No	No	No	AR-758700

Volumes are in gallons unless otherwise specified. NS = Not sampled.

Omega Drum Removal - HazCat Log

Drum No.	Waste Description	Physical Description	Container Volume	Container Type	Flammablilty	Air Reactive	Water Reactive	Water Soluble	pH	Oxidizer	Cyanide	Sulfide	Peroxide	Manifest No.
60380	Mixed Solvent	Still Bottom	55	Steel Drum	No	No	No	No	No	No	No	No	No	AR-758700
60381	Organic Mixture	Brn. Liquid/Sol.	55	Steel Drum	No	No	No	No	8	No	No	No	No	AR-758700
60382	Organic Mixture	Brown Sludge	55	Steel Drum	>140 deg	No	No	Slight	8	No	No	No	No	AR-758700
60383	Organic Mixture	Brown Liquid	55	Steel Drum	>140 deg	No	No	Slight	7	No	No	No	No	AR-758790
60384	Absorbent	Brown Solid	55	Steel Drum	No	No	No	No	8	No	No	No	No	AR-758700
60385	Debris, Rags, Filters	No Sample	55	Steel Drum	NS	NS	NS	NS	NS	NS	NS	NS	NS	AR-758700
60386	Aerosol Cans	No Sample	55	Steel Drum	NS	NS	NS	NS	NS	NS	NS	NS	NS	AR-758798
60387	Solidified Resin, Paint	Black Sludge	55	Steel Drum	No	No	No	No	8	No	No	No	No	AR-758793
60388	Alkaline Liquid	Brown Liquid	55	Steel Drum	No	No	No	Slight	12	No	No	No	No	AR-758798
60389	Mixed Solvent	Black Liquid	55	Steel Drum	<140 deg	No	No	Slight	8	No	No	No	No	AR-758798
60390	Mixed Solvent	White Liquid	55	Steel Drum	<140 deg	No	No	No	9	No	No	No	No	AR-758795
60391	Organic Mixture	Brown Liquid	55	Steel Drum	>140 deg	No	No	No	8	No	No	No	No	AR-758793
60392	Chemical Sludge	Black Sludge	55	Steel Drum	>140 deg	No	No	No	8	No	No	No	No	AR-758801
60393	Chemical Sludge	Brown Solid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758798
60394	Debris, Rags, Filters	Grey Solid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758700
60395	Absorbent/Soil	White Solid	55	Steel Drum	No	No	No	No	8	No	No	No	No	AR-758700
60396	Plastic Bottles	No Sample	55	Steel Drum	NS	NS	NS	NS	NS	NS	NS	NS	NS	AR-758792
60397	Solidified Resin, Paint	White Solid	55	Steel Drum	>140 deg	No	No	No	No	No	No	No	No	AR-758793
60398	Solidified Resin, Paint	White Solid	55	Steel Drum	>140 deg	No	No	No	No	No	No	No	No	AR-758793
60399	Solidified Resin, Paint	White Solid	55	Steel Drum	>140 deg	No	No	No	No	No	No	No	No	AR-758793
60400	Solidified Resin, Paint	White Solid	55	Steel Drum	>140 deg	No	No	No	No	No	No	No	No	AR-758793
60401	Chemical Sludge	Brown Sludge	55	Steel Drum	<140 deg	No	No	No	No	No	No	No	No	AR-758794
60402	Mixed Solvent	Green Sludge	55	Steel Drum	<140 deg	No	No	No	No	No	No	No	No	AR-758793
60403	Mixed Solvent	Brown Liquid	55	Steel Drum	>140 deg	No	No	No	No	No	No	No	No	AR-758793
60404	Mixed Solvent	Brown Liquid	55	Steel Drum	<140 deg	No	No	Yes	7	No	No	No	No	AR-758802
60405	Absorbent/Soil	Soil	55	Steel Drum	No	No	No	Slight	7	No	No	No	No	AR-758796
60406	Absorbent/Soil	Soil	55	Steel Drum	>140 deg	No	No	No	No	No	No	No	No	AR-758796
60407	Debris, Rags, Filters	Plastic	55	Steel Drum	>140 deg	No	No	No	No	No	No	No	No	AR-758796
60408	Absorbent/Soil	Soil	55	Steel Drum	No	No	No	Slight	7	No	No	No	No	AR-758796
60409	Debris, Rags, Filters	Paper	55	Steel Drum	>140 deg	No	No	No	No	No	No	No	No	AR-758796
60410	Absorbent/Soil	Soil	55	Steel Drum	No	No	No	No	No	No	No	No	No	AR-758796
60411	Debris, Rags, Filters	Paper	55	Steel Drum	>140 deg	No	No	No	No	No	No	No	No	AR-758796
60412	Absorbent/Soil	Absorbent	55	Steel Drum	No	No	No	No	No	No	No	No	No	AR-758796
60413	Debris, Rags, Filters	Plastic	55	Steel Drum	<140 deg	No	No	No	No	No	No	No	No	AR-758794
60414	Debris, Rags, Filters	Plastic	55	Steel Drum	<140 deg	No	No	No	No	No	No	No	No	AR-758794
60415	Debris, Rags, Filters	PPE	55	Steel Drum	<140 deg	No	No	No	No	No	No	No	No	AR-758794
60416	Debris, Rags, Filters	Plastic	55	Steel Drum	<140 deg	No	No	No	No	No	No	No	No	AR-758794
60417	Absorbent/Soil	Soil	55	Steel Drum	<140 deg	No	No	No	No	No	No	No	No	AR-758794
60418	Absorbent/Soil	Soil	55	Steel Drum	No	No	No	No	No	No	No	No	No	AR-758794
60419	Absorbent/Soil	Absorbent	55	Steel Drum	<140 deg	No	No	No	No	No	No	No	No	AR-758794
60420	Organic Mixture	Brown Liquid	55	Steel Drum	<140 deg	No	No	No	No	No	No	No	No	AR-758794
60421	Mixed Solvent	White Gel	55	Steel Drum	<140 deg	No	No	No	No	No	No	No	No	AR-758794
60422	Mixed Solvent	White Gel	55	Steel Drum	<140 deg	No	No	No	No	No	No	No	No	AR-758794
60423	Debris, Rags, Filters	Black Solid	55	Steel Drum	>140 deg	No	No	No	No	No	No	No	No	AR-758794
60424	Mixed Solvent	White Gel	55	Steel Drum	<140 deg	No	No	No	No	No	No	No	No	AR-758800
60425	Absorbent/Soil	Soil	55	Steel Drum	>140 deg	No	No	No	No	No	No	No	No	AR-758794
60426	Debris, Rags, Filters	Rags	55	Steel Drum	<140 deg	No	No	No	No	No	No	No	No	AR-758794
60427	Mixed Solvent	Sludge	55	Steel Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758794
60428	Mixed Solvent	Still Bottom	55	Steel Drum	>140 deg	No	No	No	No	No	No	No	No	AR-758794
60429	Mixed Solvent	Still Bottom	55	Steel Drum	>140 deg	No	No	No	No	No	No	No	No	AR-758802
60430	Debris, Rags, Filters	Debris	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758792

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Omega Drum Removal - HazCat Log

Drum No.	Waste Description	Physical Description	Container Volume	Container Type	Flammablilty	Air Reactive	Water Reactive	Water Soluble	pH	Oxidizer	Cyanide	Sulfide	Peroxide	Manifest No.
60431	Mixed Solvent	Grey Liquid	55	Steel Drum	<140 deg	No	No	No	No	No	No	No	No	AR-758792
60432	Debris, Rags, Filters	Rags	55	Steel Drum	<140 deg	No	No	No	No	No	No	No	No	AR-758837
60433	Absorbent/Soil	Soil	55	Steel Drum	No	No	No	No	No	No	No	No	No	AR-758795
60434	Debris, Rags, Filters	Rags	55	Steel Drum	<140 deg	No	No	No	No	No	No	No	No	AR-758795
60435	Absorbent/Soil	Soil	55	Steel Drum	No	No	No	No	No	No	No	No	No	AR-758795
60436	Organic Mixture	Brown Sludge	55	Steel Drum	>140 deg	No	No	No	No	No	No	No	No	AR-758795
60437	Absorbent/Soil	Soil	55	Steel Drum	No	No	No	No	No	No	No	No	No	AR-758794
60438	Absorbent/Soil	Soil/Resin	55	Steel Drum	>140 deg	No	No	No	No	No	No	No	No	AR-758794
60439	Absorbent/Soil	Black Solid	55	Steel Drum	No	No	No	No	No	No	No	No	No	AR-758794
60440	Absorbent/Soil	Soil	55	Steel Drum	No	No	No	No	No	No	No	No	No	AR-758794
60441	Absorbent/Soil	Soil	55	Steel Drum	>140 deg	No	No	No	No	No	No	No	No	AR-758798
60442	Debris, Rags, Filters	Fabric	55	Steel Drum	<140 deg	No	No	No	No	No	No	No	No	AR-758798
60443	Mixed Solvent	Black Sludge	55	Steel Drum	>140 deg	No	No	No	No	No	No	No	No	AR-758798
60444	Absorbent/Soil	Soil	55	Steel Drum	No	No	No	No	No	No	No	No	No	AR-758798
60445	Mixed Solvent	Still Bottom	55	Steel Drum	>140 deg	No	No	No	No	No	No	No	No	AR-758806
60446	Mixed Solvent	Still Bottom	55	Steel Drum	>140 deg	No	No	No	No	No	No	No	No	AR-758794
60447	Mixed Solvent	Still Bottom	55	Steel Drum	>140 deg	No	No	No	No	No	No	No	No	AR-758806
60448	Mixed Solvent	Brn/Blk Sludge	55	Steel Drum	>140 deg	No	No	No	No	No	No	No	No	AR-758794
60449	Absorbent/Soil	Soil	55	Steel Drum	No	No	No	No	No	No	No	No	No	AR-758798
60450	Organic Mixture	Oily Soil	55	Steel Drum	>140 deg	No	No	Slight	7	No	No	No	No	AR-758798
60451	Chemical Solids	Purple Powder	55	Steel Drum	No	No	No	No	No	No	No	No	No	AR-758806
60452	Absorbent/Soil	Soil	55	Steel Drum	No	No	No	No	No	No	No	No	No	AR-758798
60453	Mixed Solvent	Black Liquid	55	Steel Drum	>140 deg	No	No	No	No	No	No	No	No	AR-758799
60454	Mixed Solvent	Black Liquid	55	Steel Drum	>140 deg	No	No	No	No	No	No	No	No	AR-758798
60455	Solidified Resin, Paint	Paint Sludge	55	Steel Drum	<140 deg	No	No	No	No	No	No	No	No	AR-758799
60456	Chemical Solids	White Solid	55	Steel Drum	No	No	No	Slight	12	No	No	No	No	AR-758799
60457	Absorbent/Soil	Absorbent	55	Steel Drum	>140 deg	No	No	No	No	No	No	No	No	AR-758797
60458	Absorbent/Soil	Absorbent	55	Steel Drum	>140 deg	No	No	No	No	No	No	No	No	AR-758793
60459	Absorbent/Soil	Resin	55	Steel Drum	>140 deg	No	No	No	No	No	No	No	No	AR-758795
60460	Solidified Resin, Paint	Fiber	55	Steel Drum	>140 deg	No	No	No	No	No	No	No	No	AR-758793
60461	Debris, Rags, Filters	Cloth	55	Steel Drum	<140 deg	No	No	Yes	5	No	No	No	No	AR-758793
60462	Debris, Rags, Filters	Red Liquid	55	Steel Drum	No	No	No	No	No	No	No	No	No	AR-758793
60463	Lean Organic Mixture	Resin Solid	55	Steel Drum	>140 deg	No	No	No	No	No	No	No	No	AR-758793
60464	Solidified Resin, Paint	Absorbent	55	Steel Drum	No	No	No	Yes	7	No	No	No	No	AR-758793
60465	Absorbent/Soil	Oily Water	55	Steel Drum	No	No	No	Slight	No	No	No	No	No	AR-758793
60466	Organic Mixture	Absorbent	55	Steel Drum	No	No	No	Slight	7	No	No	No	No	AR-758792
60467	Absorbent/Soil	Oily White	55	Steel Drum	No	No	No	Slight	No	No	No	No	No	AR-758795
60468	Chemical Sludge	Oily White	55	Steel Drum	No	No	No	Slight	No	No	No	No	No	AR-758795
60469	Chemical Sludge	Resin	55	Steel Drum	>140 deg	No	No	No	No	No	No	No	No	AR-758795
60470	Chemical Sludge	Soil	55	Steel Drum	No	No	No	Slight	No	No	No	No	No	AR-758795
60471	Absorbent/Soil	Soil	55	Steel Drum	No	No	No	No	No	No	No	No	No	AR-758795
60472	Debris, Rags, Filters	Rags	55	Steel Drum	<140 deg	No	No	No	No	No	No	No	No	AR-758795
60473	Absorbent/Soil	Absorbent	55	Steel Drum	No	No	No	No	No	No	No	No	No	AR-758792
60474	Absorbent/Soil	Absorbent	55	Steel Drum	No	No	No	No	7	No	No	No	No	AR-758797
60475	Debris, Rags, Filters	Plastic Bottles	55	Steel Drum	No	No	No	No	No	No	No	No	No	AR-758816
60476	Aerosol Cans	Aerosol Cans	55	Steel Drum	NS	NS	NS	NS	NS	NS	NS	NS	NS	AR-758816
60477	Debris, Rags, Filters	Metal Cans	55	Steel Drum	NS	NS	NS	NS	NS	NS	NS	NS	NS	AR-758816
60478	Chemical Sludge	Green Sludge	55	Steel Drum	No	No	No	No	No	No	No	No	No	AR-758816
60479	Chemical Sludge	Yellow Sludge	55	Steel Drum	>140 deg	No	No	No	No	No	No	No	No	AR-758798
60480	Absorbent/Soil	Soil	55	Steel Drum	No	No	No	No	No	No	No	No	No	AR-758795
60481	Absorbent/Soil	White Solid	55	Steel Drum	No	No	No	No	No	No	No	No	No	AR-758813

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Omega Drum Removal - HazCat Log

Drum No.	Waste Description	Physical Description	Container Volume	Container Type	Flammablilty	Air Reactive	Water Reactive	Water Soluble	pH	Oxidizer	Cyanide	Sulfide	Peroxide	Manifest No.
60482	Absorbent/Soil	White Solid	55	Steel Drum	No	No	No	No	No	No	No	No	No	AR-758819
60483	Absorbent/Soil	Absorbent	55	Steel Drum	>140 deg	No	No	No	No	No	No	No	No	AR-758795
60484	Absorbent/Soil	Soil	55	Steel Drum	>140 deg	No	No	No	No	No	No	No	No	AR-758795
60485	Chemical Sludge	Paint Sludge	55	Steel Drum	>140 deg	No	No	No	No	No	No	No	No	AR-758819
60486	Chemical Sludge	Paint Sludge	55	Steel Drum	>140 deg	No	No	No	No	No	No	No	No	AR-758795
60487	Absorbent/Soil	Paint Solid	55	Steel Drum	>140 deg	No	No	No	No	No	No	No	No	AR-758795
60488	Absorbent/Soil	Paint Solid	55	Steel Drum	>140 deg	No	No	No	No	No	No	No	No	AR-758795
60489	Absorbent/Soil	Absorbent	55	Steel Drum	>140 deg	No	No	Slight	7	No	No	No	No	AR-758795
60490	Absorbent/Soil	Paint Solids	55	Steel Drum	>140 deg	No	No	No	No	No	No	No	No	AR-758795
60491	Chemical Sludge	Paint	55	Steel Drum	No	No	No	Slight	5	No	No	No	No	AR-758820
60492	Absorbent/Soil	Absorbent	55	Steel Drum	No	No	No	No	No	No	No	No	No	AR-758813
60493	Absorbent/Soil	Black Solid	55	Steel Drum	No	No	No	No	No	No	No	No	No	AR-758816
60494	Absorbent/Soil	Black Solid	55	Steel Drum	No	No	No	No	No	No	No	No	No	AR-758820
60495	Acid Sludge	Black Absorb.	55	Steel Drum	No	No	No	Yes	No	No	No	No	No	AR-758824
60496	Absorbent/Soil	Soil	55	Steel Drum	No	No	No	No	No	No	No	No	No	AR-758821
60497	Absorbent/Soil	Soil	55	Steel Drum	No	No	No	Slight	7	No	No	No	No	AR-758821
60498	Absorbent/Soil	Soil	55	Steel Drum	No	No	No	Slight	7	No	No	No	No	AR-758821
60499	Absorbent/Soil	Soil	55	Steel Drum	No	No	No	Slight	7	No	No	No	No	AR-758820
60500	Absorbent/Soil	Soil	55	Steel Drum	No	No	No	Slight	7	No	No	No	No	AR-758820
60501	Solidified Resin, Paint	Still Bottom	55	Steel Drum	>140 deg	No	No	No	No	No	No	No	No	AR-758825
60502	Absorbent/Soil	Soil	55	Steel Drum	No	No	No	Slight	7	No	No	No	No	AR-758825
60503	Chemical Sludge	Brown Sludge	55	Steel Drum	>140 deg	No	No	No	No	No	No	No	No	AR-758816
60504	Chemical Sludge	Brown Sludge	55	Steel Drum	>140 deg	No	No	No	No	No	No	No	No	AR-758819
60505	Solidified Resin, Paint	Brown Sludge	55	Steel Drum	>140 deg	No	No	No	No	No	No	No	No	AR-758809
60506	Chemical Sludge	Brown Sludge	55	Steel Drum	>140 deg	No	No	No	No	No	No	No	No	AR-758795
60507	Chemical Sludge	Purple Sludge	55	Steel Drum	>140 deg	No	No	No	No	No	No	No	No	AR-758816
60508	Chemical Sludge	Purple Sludge	55	Steel Drum	>140 deg	No	No	No	No	No	No	No	No	AR-758816
60509	Chemical Sludge	Purple Sludge	55	Steel Drum	>140 deg	No	No	No	No	No	No	No	No	AR-758795
60510	Acid Sludge	Soil	55	Steel Drum	No	No	No	Yes	1	No	No	No	No	AR-758799
60511	Chemical Sludge	Black Sludge	55	Steel Drum	>140 deg	No	No	No	No	No	No	No	No	AR-758819
60512	Chemical Sludge	Brown Liquid	55	Steel Drum	>140 deg	No	No	No	No	No	No	No	No	AR-758816
60513	Chemical Sludge	Grey Sludge	55	Steel Drum	>140 deg	No	No	Slight	4	No	No	No	No	AR-758819
60514	Chemical Sludge	Still Bottom	55	Steel Drum	>140 deg	No	No	No	No	No	No	No	No	AR-758819
60515	Mixed Solvent	Black Liquid	55	Steel Drum	No	No	No	Slight	7	No	No	No	No	AR-758825
60516	Chemical Sludge	Still Bottom	55	Steel Drum	>140 deg	No	No	No	No	No	No	No	No	AR-758819
60517	Chemical Sludge	Still Bottom	55	Steel Drum	>140 deg	No	No	No	No	No	No	No	No	AR-758816
60518	Chemical Sludge	Still Bottom	55	Steel Drum	>140 deg	No	No	No	No	No	No	No	No	AR-758819
60519	Loose Pack Liquids	Black Soil	55	Steel Drum	>140 deg	No	No	Slight	8	No	No	No	No	AR-758811
60520	Organic Mixture	Oily Water	55	Steel Drum	No	No	No	Yes	7	No	No	No	No	AR-758809
60521	Debris, Rags, Filters	Filters	55	Steel Drum	>140 deg	No	No	No	No	No	No	No	No	AR-758816
60522	Oxidizing Powder	Soil	55	Steel Drum	No	No	No	Yes	8	No	No	No	No	AR-758811
60524	Absorbent/Soil	Soil	55	Steel Drum	>140 deg	No	No	No	No	No	No	No	No	AR-758809
60525	Absorbent/Soil	Soil	55	Steel Drum	No	No	No	Yes	7	No	No	No	No	AR-758809
60526	Absorbent/Soil	Soil	55	Steel Drum	No	No	No	Yes	7	No	No	No	No	AR-758809
60527	Absorbent/Soil	Soil	55	Steel Drum	No	No	No	Yes	7	No	No	No	No	AR-758809
60529	Organic Mixture	Black Sludge	55	Steel Drum	>140 deg	No	No	No	8	No	No	No	No	AR-758822
60530	Chemical Sludge	Still Bottom	55	Steel Drum	>140 deg	No	No	No	No	No	No	No	No	AR-758795
60531	Chemical Sludge	Pink Sludge	55	Steel Drum	>140 deg	No	No	Yes	7	No	No	No	No	AR-758816
60532	Chemical Sludge	Pink Sludge	55	Steel Drum	>140 deg	No	No	Yes	7	No	No	No	No	AR-758795
60533	Absorbent/Soil	Black Solid	55	Steel Drum	>140 deg	No	No	No	No	No	No	No	No	AR-758795
60534	Absorbent/Soil	Black Solid	55	Steel Drum	No	No	No	No	No	No	No	No	No	AR-758795

Volumes are in gallons unless otherwise specified. NS = Not sampled.

Omega Drum Removal - HazCat Log

Drum No.	Waste Description	Physical Description	Container Volume	Container Type	Flammablility	Air Reactive	Water Reactive	Water Soluble	pH	Oxidizer	Cyanide	Sulfide	Peroxide	Manifest No.
60535	Absorbent/Soil	Black Solid	55	Steel Drum	>140 deg	No	No	No	No	No	No	No	No	AR-758795
60536	Absorbent/Soil	Green Absorb.	55	Steel Drum	No	No	No	Slight	7	No	No	No	No	AR-758795
60537	Debris, Rags, Filters	Paper	55	Steel Drum	>140 deg	No	No	No	No	No	No	No	No	AR-758795
60538	Chemical Sludge	Still Bottom	55	Steel Drum	>140 deg	No	No	No	No	No	No	No	No	AR-758795
60539	Chemical Sludge	Still Bottom	55	Steel Drum	>140 deg	No	No	No	No	No	No	No	No	AR-758798
60540	Chemical Sludge	Still Bottom	55	Steel Drum	>140 deg	No	No	No	No	No	No	No	No	AR-758795
60541	Absorbent/Soil	Soil	55	Steel Drum	No	No	No	Slight	7	No	No	No	No	AR-758821
60542	Alkaline Solids	Black Solid	55	Steel Drum	No	No	No	Yes	12	No	No	No	No	AR-758824
60543	Absorbent/Soil	Soil	55	Steel Drum	No	No	No	Slight	7	No	No	No	No	AR-758795
60544	Absorbent/Soil	Soil	55	Steel Drum	No	No	No	Slight	7	No	No	No	No	AR-758821
60545	Chemical Sludge	Brown Sludge	55	Steel Drum	>140 deg	No	No	No	No	No	No	No	No	AR-758820
60546	Chemical Sludge	Grey Sludge	55	Steel Drum	>140 deg	No	No	Slight	7	No	No	No	No	AR-758822
60547	Chemical Sludge	Brown Solids	55	Steel Drum	>140 deg	No	No	No	No	No	No	No	No	AR-758823
60548	Chemical Sludge	Brown Solids	55	Steel Drum	>140 deg	No	No	No	No	No	No	No	No	AR-758823
60549	Absorbent/Soil	Soil	55	Steel Drum	>140 deg	No	No	No	No	No	No	No	No	AR-758821
60550	Absorbent/Soil	Soil	55	Steel Drum	>140 deg	No	No	No	No	No	No	No	No	AR-758821
60551	Absorbent/Soil	Soil	55	Steel Drum	No	No	No	Slight	7	No	No	No	No	AR-758821
60552	Absorbent/Soil	Soil	55	Steel Drum	No	No	No	Slight	7	No	No	No	No	AR-758821
60553	Absorbent/Soil	Debris	55	Steel Drum	>140 deg	No	No	No	No	No	No	No	No	AR-758820
60554	Organic Mixture	Black Liquid	55	Steel Drum	No	No	No	Yes	5	No	No	No	No	AR-758821
60555	Absorbent/Soil	Soil	55	Steel Drum	No	No	No	Slight	7	No	No	No	No	AR-758820
60556	Absorbent/Soil	Soil	55	Steel Drum	>140 deg	No	No	No	No	No	No	No	No	AR-758820
60557	Chemical Sludge	Sludge	55	Steel Drum	No	No	No	Slight	7	No	No	No	No	AR-758793
60558	Absorbent/Soil	Soil	55	Steel Drum	<140 deg	No	No	Slight	7	No	No	No	No	AR-758793
60559	Debris, Rags, Filters	Rags	55	Steel Drum	<140 deg	No	No	No	No	No	No	No	No	AR-758793
60560	Organic Mixture	Solid (60%)	55	Steel Drum	>140 deg	No	No	No	8	No	No	No	No	AR-758798
60561	Organic Mixture	Solid (90%)	55	Steel Drum	>140 deg	No	No	No	8	No	No	No	No	AR-758798
60562	Organic Mixture	Solid (60%)	55	Steel Drum	>140 deg	No	No	No	8	No	No	No	No	AR-758798
60563	Absorbent/Soil	Solid (100%)	55	Steel Drum	>140 deg	No	No	No	8	No	No	No	No	AR-758799
60564	Debris, Rags, Filters	Solid (100%)	55	Steel Drum	>140 deg	No	No	No	8	No	No	No	No	AR-758801
60565	Mixed Solvent	Solid (100%)	55	Steel Drum	>140 deg	No	No	No	8	No	No	No	No	AR-758801
60566	Absorbent/Soil	Solid (100%)	55	Steel Drum	>140 deg	No	No	No	8	No	No	No	No	AR-758826
60567	Alkaline Solids	Solid (100%)	55	Steel Drum	>140 deg	No	No	No	14	No	No	No	No	AR-758801
60568	Absorbent/Soil	Solid (100%)	55	Steel Drum	>140 deg	No	No	No	8	No	No	No	No	AR-758799
60569	Absorbent/Soil	Solid (100%)	55	Steel Drum	>140 deg	No	No	No	8	No	No	No	No	AR-758801
60570	Debris, Rags, Filters	Solid (100%)	55	Steel Drum	>140 deg	No	No	No	8	No	No	No	No	AR-758801
60571	Absorbent/Soil	Solid (100%)	55	Steel Drum	>140 deg	No	No	No	8	No	No	No	No	AR-758801
60572	Solidified Resin, Paint	Solid (100%)	55	Steel Drum	>140 deg	No	No	No	8	No	No	No	No	AR-758801
60573	Absorbent/Soil	Solid (100%)	55	Steel Drum	>140 deg	No	No	No	8	No	No	No	No	AR-758801
60574	Debris, Rags, Filters	No Sample	55	Steel Drum	NS	NS	NS	NS	NS	NS	NS	NS	NS	AR-758801
60575	Debris, Rags, Filters	No Sample	55	Steel Drum	NS	NS	NS	NS	NS	NS	NS	NS	NS	AR-758800
60576	Debris, Rags, Filters	Solid (100%)	55	Steel Drum	>140 deg	No	No	No	8	No	No	No	No	AR-758801
60577	Absorbent/Soil	Solid (100%)	55	Steel Drum	>140 deg	No	No	No	8	No	No	No	No	AR-758801
60578	Organic Mixture	Solid (95%)	55	Steel Drum	>140 deg	No	No	No	8	No	No	No	No	AR-758801
60579	Absorbent/Soil	Solid (100%)	55	Steel Drum	>140 deg	No	No	No	8	No	No	No	No	AR-758801
60580	Absorbent/Soil	Solid (100%)	55	Steel Drum	>140 deg	No	No	No	8	No	No	No	No	AR-758801
60581	Absorbent/Soil	Solid (100%)	55	Steel Drum	>140 deg	No	No	No	8	No	No	No	No	AR-758799
60582	Absorbent/Soil	Solid (100%)	55	Steel Drum	>140 deg	No	No	No	8	No	No	No	No	AR-758799
60583	Absorbent/Soil	Solid (100%)	55	Steel Drum	>140 deg	No	No	No	8	No	No	No	No	AR-758799
60584	Absorbent/Soil	Solid (100%)	55	Steel Drum	>140 deg	No	No	No	8	No	No	No	No	AR-758799
60585	Absorbent/Soil	Solid (100%)	55	Steel Drum	>140 deg	No	No	No	8	No	No	No	No	AR-758799

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Omega Drum Removal - HazCat Log

Drum No.	Waste Description	Physical Description	Container Volume	Container Type	Flammability	Air Reactive	Water Reactive	Water Soluble	pH	Oxidizer	Cyanide	Sulfide	Peroxide	Manifest No.
60586	Absorbent/Soil	Solid (100%)	55	Steel Drum	>140 deg	No	No	No	8	No	No	No	No	AR-758799
60587	Absorbent/Soil	Solid (100%)	55	Steel Drum	>140 deg	No	No	No	8	No	No	No	No	AR-758799
60588	Absorbent/Soil	Solid (100%)	55	Steel Drum	>140 deg	No	No	No	8	No	No	No	No	AR-758799
60589	Absorbent/Soil	Solid (100%)	55	Steel Drum	>140 deg	No	No	No	8	No	No	No	No	AR-758799
60590	Absorbent/Soil	Solid (100%)	55	Steel Drum	>140 deg	No	No	No	8	No	No	No	No	AR-758799
60591	Absorbent/Soil	Solid (100%)	55	Steel Drum	>140 deg	No	No	No	8	No	No	No	No	AR-758799
60592	Lean Organic Mixture	Solid (60%)	55	Steel Drum	>140 deg	No	No	No	8	No	No	No	No	AR-758799
60593	Absorbent/Soil	Solid (100%)	55	Steel Drum	>140 deg	No	No	No	8	No	No	No	No	AR-758799
60594	Organic Mixture	Solid (70%)	55	Steel Drum	>140 deg	No	No	No	8	No	No	No	No	AR-758823
60595	Debris, Rags, Filters	Solid (100%)	55	Steel Drum	>140 deg	No	No	No	8	No	No	No	No	AR-758799
60596	Absorbent/Soil	Solid	55	Steel Drum	>140 deg	No	No	No	8	No	No	No	No	AR-758799
60597	Absorbent/Soil	Solid	55	Steel Drum	>140 deg	No	No	No	8	No	No	No	No	AR-758799
60598	Absorbent Lab Pack Removed	Lab Pack	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758837
60599	Absorbent/Soil	Solid (100%)	55	Steel Drum	>140 deg	No	No	No	8	No	No	No	No	AR-758799
60600	Absorbent/Soil	Solid (100%)	55	Steel Drum	>140 deg	No	No	No	8	No	No	No	No	AR-758799
60601	Absorbent/Soil	Solid (100%)	55	Steel Drum	>140 deg	No	No	No	8	No	No	No	No	AR-758797
60602	Solidified Resin, Paint	Solid (100%)	55	Steel Drum	>140 deg	No	No	No	8	No	No	No	No	AR-758799
60603	Lean Organic Mixture	Solid (40%)	55	Steel Drum	>140 deg	No	No	No	8	No	No	No	No	AR-758799
60604	Absorbent/Soil	Solid (100%)	55	Steel Drum	>140 deg	No	No	No	8	No	No	No	No	AR-758799
60605	Debris, Rags, Filters	Solid (100%)	55	Steel Drum	>140 deg	No	No	No	8	No	No	No	No	AR-758799
60606	Solidified Resin, Paint	Solid (100%)	55	Steel Drum	>140 deg	No	No	No	8	No	No	No	No	AR-758799
60607	Absorbent/Soil	Solid (100%)	55	Steel Drum	>140 deg	No	No	No	8	No	No	No	No	AR-758797
60608	Chemical Solids	Solid (100%)	55	Steel Drum	>140 deg	No	No	No	8	No	No	No	No	AR-758799
60609	Activated Charcoal	Solid (100%)	55	Steel Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758843
60610	Alkaline Powder	Solid (100%)	55	Steel Drum	>140 deg	No	No	Yes	14	No	No	No	No	AR-758799
60611	Solidified Resin, Paint	Solid (100%)	55	Steel Drum	NS	NS	NS	NS	NS	NS	NS	NS	NS	AR-758799
60612	Debris, Rags, Filters	Solid (100%)	55	Steel Drum	>140 deg	No	No	No	No	No	No	No	No	AR-758799
60613	Debris, Rags, Filters	Solid (100%)	55	Steel Drum	>140 deg	No	No	No	No	No	No	No	No	AR-758799
60614	Debris, Rags, Filters	Solid (100%)	55	Steel Drum	>140 deg	No	No	No	No	No	No	No	No	AR-758799
60615	Debris, Rags, Filters	Solid (100%)	55	Steel Drum	>140 deg	No	No	No	No	No	No	No	No	AR-758799
60616	Debris, Rags, Filters	Solid (100%)	55	Steel Drum	>140 deg	No	No	No	No	No	No	No	No	AR-758799
60617	Absorbent/Soil	Solid (100%)	55	Steel Drum	>140 deg	No	No	No	No	No	No	No	No	AR-758799
60618	Debris, Rags, Filters	Solid (100%)	55	Steel Drum	>140 deg	No	No	No	No	No	No	No	No	AR-758799
60619	Absorbent/Soil	Solid (100%)	55	Steel Drum	>140 deg	No	No	No	No	No	No	No	No	AR-758799
60620	Absorbent/Soil	Solid (100%)	55	Steel Drum	>140 deg	No	No	No	No	No	No	No	No	AR-758799
60621	Absorbent/Soil	Solid (100%)	55	Steel Drum	>140 deg	No	No	No	No	No	No	No	No	AR-758799
60622	Absorbent/Soil	Solid (100%)	55	Steel Drum	>140 deg	No	No	No	No	No	No	No	No	AR-758803
60623	Chemical Sludge	Solid (90%)	55	Steel Drum	>140 deg	No	No	No	No	No	No	No	No	AR-758797
60624	Chemical Sludge	Solid (80%)	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758797
60625	Debris, Rags, Filters	Debris	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758795
60626	Chemical Sludge	Liquid (100%)	55	Steel Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758795
60627	Chemical Sludge	Liquid (100%)	55	Steel Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758795
60628	Absorbent/Soil	Solid (100%)	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758801
60629	Absorbent/Soil	Solid (100%)	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758803
60630	Absorbent/Soil	Solid (100%)	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758801
60631	Debris, Rags, Filters	Solid (100%)	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758801
60632	Absorbent/Soil	Solid (100%)	55	Poly Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758803
60633	Absorbent/Soil	Absorbant	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758803
60634	Absorbent/Soil	Solid (100%)	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758795
60635	Absorbent/Soil	Solid (100%)	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758795

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Omega Drum Removal - HazCat Log

Drum No.	Waste Description	Physical Description	Container Volume	Container Type	Flammablility	Air Reactive	Water Reactive	Water Soluble	pH	Oxidizer	Cyanide	Sulfide	Peroxide	Manifest No.
60636	Absorbent/Soil	Solid (100%)	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758803
60637	Absorbent/Soil	Solid (100%)	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758803
60638	Absorbent/Soil	Solid (100%)	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758803
60639	Absorbent/Soil	Solid (100%)	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758803
60640	Absorbent/Soil	Solid (100%)	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758799
60641	Acid Sludge	Solid (100%)	55	Steel Drum	>140 deg	No	No	No	2	No	No	No	No	AR-758799
60642	Absorbent/Soil	Solid (100%)	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758799
60643	Absorbent/Soil	Solid (100%)	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758799
60644	Absorbent/Soil	Solid (100%)	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758797
60645	Absorbent/Soil	Solid (100%)	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758799
60646	Debris, Rags, Filters	Solid (100%)	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758799
60647	Debris, Rags, Filters	Solid (100%)	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758801
60648	Powder & Granular Oxidizers	Solid (100%)	55	Steel Drum	>140 deg	No	No	No	7	Yes	No	No	No	AR-758805
60649	Absorbent/Soil	Solid (100%)	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758801
60650	Absorbent/Soil	Solid (100%)	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758820
60651	Absorbent/Soil	Solid (100%)	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758801
60652	Debris, Rags, Filters	Solid (100%)	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758799
60653	Debris, Rags, Filters	Solid (100%)	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758799
60654	Absorbent/Soil	Solid (100%)	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758799
60655	Absorbent/Soil	Solid (100%)	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758799
60656	Absorbent/Soil	Solid (100%)	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758815
60657	Absorbent/Soil	Solid (90%)	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758799
60658	Absorbent/Soil	Solid (100%)	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758799
60659	Absorbent/Soil	Solid (100%)	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758799
60660	Chemical Sludge	Solid (100%)	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758799
60661	Chemical Sludge	Solid (100%)	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758799
60662	Chemical Sludge	Solid (100%)	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758799
60663	Absorbent/Soil	Solid (100%)	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758799
60664	Absorbent/Soil	Solid (100%)	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758805
60665	Debris, Rags, Filters	Solid (100%)	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758801
60666	Absorbent/Soil	Solid (100%)	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758801
60667	Debris, Rags, Filters	Solid (100%)	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758801
60668	Debris, Rags, Filters	Solid (100%)	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758801
60669	Absorbent/Soil	Solid (100%)	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758803
60670	Chemical Sludge	Solid (100%)	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758801
60671	Solidified Resin, Paint	Solid (100%)	55	Steel Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758803
60672	Chemical Sludge	Solid (90%)	55	Steel Drum	>140 deg	No	No	No	11	No	No	No	No	AR-758801
60673	Organic Mixture	Solid (10%)	55	Steel Drum	>140 deg	No	No	No	8	No	No	No	No	AR-758801
60674	Alkaline Sludge	Solid (90%)	55	Steel Drum	>140 deg	No	No	No	12	No	No	No	No	AR-758813
60675	Organic Mixture	Solid (90%)	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758801
60676	Debris, Rags, Filters	Solid (100%)	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758801
60677	Debris, Rags, Filters	Solid (100%)	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758801
60678	Debris, Rags, Filters	Solid (100%)	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758801
60679	Debris, Rags, Filters	Solid (100%)	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758801
60680	Aerosol/Debris	Aerosol Lab Pk	55	Steel Drum	NS	NS	NS	NS	NS	NS	NS	NS	NS	AR-758837
60681	Solidified Resin, Paint	Solid (100%)	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758801
60682	Chemical Sludge	Solid (100%)	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758801
60683	Absorbent/Soil	Solid (100%)	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758801
60684	Absorbent/Soil	Solid (95%)	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758799
60685	Chemical Sludge	Solid (100%)	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758801

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Omega Drum Removal - HazCat Log

Drum No.	Waste Description	Physical Description	Container Volume	Container Type	Flammablilty	Air Reactive	Water Reactive	Water Soluble	pH	Oxidizer	Cyanide	Sulfide	Peroxide	Manifest No.
60686	Absorbent/Soil	Solid (95%)	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758799
60687	Organic Mixture	Solid (80%)	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758801
60688	Chemical Sludge	Solid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758801
60689	Solidified Resin, Paint	Solid (100%)	55	Steel Drum	>140 deg	No	No	No	7	Yes	No	No	No	AR-758802
60690	Resin, Adhesive	Solid (10%)	85	Overpack Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758826
60691	Organic Mixture	Solid (30%)	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758797
60692	Absorbent/Soil	Solid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758797
60693	Paint, Resin	Solid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758800
60694	Absorbent/Soil	Solid	55	Steel Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758800
60695	Organic Mixture	Solid (20%)	55	Steel Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758797
60696	Paint	Liquid	55	Steel Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758798
60697	Chemical Sludge	Solid (100%)	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758798
60698	Chemical Sludge	Solid (90%)	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758798
60699	Solidified Resin, Paint	Solid (100%)	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758798
60700	Absorbent/Soil	Solid (100%)	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758804
60701	Solidified Resin, Paint	Solid (100%)	55	Steel Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758797
60702	Solidified Resin, Paint	Solid (100%)	55	Steel Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758797
60703	Solidified Resin, Paint	Solid (100%)	55	Steel Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758797
60704	Solidified Resin, Paint	Solid (100%)	55	Steel Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758820
60705	Debris, Rags, Filters	White Solid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758808
60706	Solidified Resin, Paint	Solid (100%)	55	Steel Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758800
60707	Solidified Resin, Paint	Solid (100%)	55	Steel Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758800
60708	Solidified Resin, Paint	Solid (100%)	55	Steel Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758800
60709	Absorbent/Soil	Solid (100%)	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758800
60710	Debris, Rags, Filters	Solid (100%)	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758798
60711	Absorbent/Soil	Solid (100%)	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758800
60712	Powder & Granular Oxidizers	Solid (100%)	55	Steel Drum	>140 deg	No	No	No	7	Yes	No	No	No	AR-758797
60713	Absorbent/Soil	Solid (100%)	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758800
60714	Absorbent/Soil	Solid (100%)	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758800
60715	Absorbent/Soil	Solid (100%)	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758800
60716	Absorbent/Soil	Solid (100%)	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758800
60717	Absorbent/Soil	Solid (100%)	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758800
60718	Absorbent/Soil	Solid (100%)	55	Poly Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758800
60719	Absorbent/Soil	Solid (100%)	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758797
60720	Absorbent/Soil	Solid (100%)	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758800
60721	Solidified Resin, Paint	Solid (100%)	55	Steel Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758801
60722	Absorbent/Soil	Solid (100%)	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758803
60723	Solidified Resin, Paint	Solid (100%)	55	Steel Drum	NS	NS	NS	NS	NS	NS	NS	NS	NS	AR-758803
60724	Organic Mixture	Solid (20%)	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758797
60725	Absorbent/Soil	Solid (100%)	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758801
60726	Absorbent/Soil	Solid (100%)	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758801
60727	Absorbent/Soil	Solid (100%)	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758801
60728	Absorbent/Soil	Solid (100%)	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758814
60729	Absorbent/Soil	Solid (100%)	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758799
60730	Absorbent/Soil	Solid (100%)	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758798
60731	Absorbent/Soil	Solid (100%)	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758798
60732	Organic Mixture	Solid (5%)	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758798
60733	Organic Mixture	Solid (90%)	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758798
60734	Absorbent/Soil	Solid (100%)	55	Steel Drum	>140 deg	Lab Pk	No	No	7	No	No	No	No	AR-758797

Volumes are in gallons unless otherwise specified. NS = Not sampled.

Omega Drum Removal - HazCat Log

Drum No.	Waste Description	Physical Description	Container Volume	Container Type	Flammability	Air Reactive	Water Reactive	Water Soluble	pH	Oxidizer	Cyanide	Sulfide	Peroxide	Manifest No.
60735	Absorbent Lab Pack Removed	Solid (100%)	55	Steel Drum	>140 deg	Lab Pk	No	No	7	No	No	No	No	AR-758837
60736	Chemical Sludge	Solid (98%)	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758797
60737	Absorbent Lab Pack Removed	Solid (100%)	55	Steel Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758837
60738	Chemical Sludge	Solid (100%)	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758797
60739	Chemical Sludge	Solid (90%)	55	Steel Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758797
60740	Chemical Sludge	Solid (90%)	55	Steel Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758797
60741	Absorbent/Soil	Solid (100%)	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758803
60742	Absorbent/Soil	Solid (100%)	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758797
60743-A	Powder & Granular Oxidizers	Solid (100%)	55	Poly Drum	>140 deg	No	No	No	7	Yes	No	No	No	AR-758837
60743-B	Powder & Granular Oxidizers	Solid (100%)	55	Poly Drum	>140 deg	No	No	No	7	Yes	No	No	No	AR-758837
60744	Absorbent/Soil	Solid (100%)	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758799
60745	Absorbent/Soil	Solid (100%)	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758803
60746	Solidified Resin, Paint	Solid (100%)	55	Steel Drum	NS	NS	NS	NS	NS	NS	NS	NS	NS	AR-758803
60747	Chemical Sludge	Solid (90%)	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758798
60748	Acid Sludge	Solid (80%)	55	Steel Drum	>140 deg	No	No	No	2	No	No	No	No	AR-758798
60749	Organic Mixture	Solid (95%)	85	Overpack Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758799
60750	Chemical Sludge	Solid (80%)	85	Overpack Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758811
60751	Chemical Sludge	Solid (90%)	85	Overpack Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758799
60752	Chemical Sludge	Solid (70%)	85	Overpack Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758799
60753	Absorbent/Soil	Solid (100%)	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758822
60754	Absorbent/Soil	Solid (100%)	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758822
60755	Absorbent/Soil	Solid (100%)	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758822
60756	Absorbent/Soil	Solid (100%)	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758822
60757	Chemical Sludge	Solid (100%)	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758822
60758	Solidified Resin, Paint	Solid (100%)	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758798
60759	Absorbent/Soil	Solid (100%)	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758798
60760	Solidified Resin, Paint	Solid (100%)	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758798
60761	Chemical Sludge	Solid (60%)	55	Steel Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758798
60762	Chemical Sludge	Solid (80%)	55	Steel Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758798
60763	Chemical Sludge	Solid (80%)	55	Steel Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758800
60764	Chemical Sludge	Solid (80%)	55	Steel Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758800
60765	Chemical Sludge	Solid (80%)	55	Steel Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758798
60766	Chemical Sludge	Solid (80%)	55	Steel Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758800
60767	Debris, Rags, Filters	100% Solid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758821
60768	Absorbent/Soil	100% Solid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758821
60769	Debris, Rags, Filters	100% Solid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758821
60770	Absorbent/Soil	100% Solid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758819
60771	Absorbent/Soil	100% Solid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758819
60772	Acid Sludge	100% Solid	55	Steel Drum	>140 deg	No	No	No	2	No	No	No	No	AR-758819
60773	Chemical Sludge	60% Solid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758819
60774	Absorbent/Soil	100% Solid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758821
60775	Absorbent/Soil	100% Solid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758818
60776	Absorbent/Soil	100% Solid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758818
60777	Absorbent/Soil	100% Solid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758818
60778	Chemical Sludge	30% Solid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758819
60779	Absorbent/Soil	100% Solid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758819
60780	Solidified Resin, Paint	100% Solid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758819

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Omega Drum Removal - HazCat Log

Drum No.	Waste Description	Physical Description	Container Volume	Container Type	Flammability	Air Reactive	Water Reactive	Water Soluble	pH	Oxidizer	Cyanide	Sulfide	Peroxide	Manifest No.
60781	Chemical Sludge	90% Solid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758819
60782	Absorbent/Soil	100% Solid	55	Steel Drum	No	No	No	No	7	No	No	No	No	AR-758826
60783	Loose Pack Liquids	50% Solid	55	Steel Drum	No	No	No	No	8	No	No	No	No	AR-758819
60784	Lean Organic Mixture	20% Solid	55	Steel Drum	No	No	No	No	8	No	No	No	No	AR-758819
60785	Debris, Rags, Filters	100% Solid	55	Steel Drum	No	No	No	No	8	No	No	No	No	AR-758819
60786	Solidified Resin, Paint	100% Solid	55	Steel Drum	No	No	No	No	8	No	No	No	No	AR-758819
60787	Debris, Rags, Filters	100% Solid	55	Steel Drum	No	No	No	No	8	No	No	No	No	AR-758819
60788	Chemical Solids	100% Solid	55	Steel Drum	No	No	No	No	8	No	No	No	No	AR-758824
60789	Absorbent/Soil	100% Solid	55	Steel Drum	No	No	No	No	8	No	No	No	No	AR-758824
60790	Solidified Paint	100% Solid	55	Steel Drum	No	No	No	No	8	No	No	No	No	AR-758824
60791	Solidified Paint	100% Solid	55	Steel Drum	No	No	No	No	8	No	No	No	No	AR-758824
60792	Filter	100% Solid	55	Steel Drum	No	No	No	No	8	No	No	No	No	AR-758818
60793	Organic Mixture	80% Solid	55	Steel Drum	No	No	No	No	8	No	No	No	No	AR-758818
60794	Absorbent/Soil	100% Solid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758818
60795	Absorbent/Soil	100% Solid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758818
60796	Absorbent/Soil	100% Solid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758818
60797	Lean Organic Mixture	50% Solid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758818
60798	Lean Organic Mixture	50% Solid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758818
60799	Organic Mixture	30% Solid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758818
60800	Organic Mixture	50% Solid	55	Steel Drum	<140 deg	No	No	No	8	No	No	No	No	AR-758818
60801	Organic Mixture	50% Solid	55	Steel Drum	<140 deg	No	No	No	8	No	No	No	No	AR-758818
60802	Absorbent/Soil	100% Solid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758824
60803	Absorbent/Soil	100% Solid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758818
60804	Absorbent/Soil	100% Solid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758818
60805	Debris	100% Solid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758826
60806	Lean Organic Mixture	20% Solid	55	Poly Drum	>140 deg	No	No	No	10	No	No	No	No	AR-758822
60807	Absorbent/Soil	No Sample	55	Steel Drum	NS	NS	NS	NS	NS	NS	NS	NS	NS	AR-758820
60808	Organic Mixture	80% Solid	55	Steel Drum	>140 deg	No	No	No	8	No	No	No	No	AR-758807
60809	Organic Mixture	80% Solid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758807
60810	Asborbent/Soil	100% Solid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758807
60811	Organic Mixture	50% Solid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758817
60812	Solidified Resin, Paint	100% Solid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758817
60813	Organic Mixture	90% Solid	55	Steel Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758819
60814	Solidified Resin, Paint	100% Solid	55	Steel Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758819
60815	Organic Mixture	100% Solid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758814
60816	Organic Mixture	60% Solid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758814
60817	Solidified Resin, Paint	60% Solid	55	Steel Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758814
60818	Solidified Resin, Paint	60% Solid	55	Steel Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758814
60819	Lean Organic Mixture	<10% Solid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758807
60820	Lean Organic Mixture	<10% Solid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758807
60821	Lean Organic Mixture	<10% Solid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758807
60822	Debris/Filter Media	100% Solid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758818
60823	Debris/Filter Media	100% Solid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758818
60824	Debris/Filter Media	100% Solid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758818
60825	Debris/Filter Media	100% Solid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758818
60826	Organic Mixture	80% Solid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758818
60827	Lean Organic Mixture	60% Solid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758818
60828	Organic Mixture	30% Solid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758818
60829	Solidified Resin, Paint	100% Solid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758820
60830	Solidified Resin, Paint	100% Solid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758820
60831	Solidified Resin, Paint	100% Solid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758820

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Omega Drum Removal - HazCat Log

Drum No.	Waste Description	Physical Description	Container Volume	Container Type	Flammablilty	Air Reactive	Water Reactive	Water Soluble	pH	Oxidizer	Cyanide	Sulfide	Peroxide	Manifest No.
60832	Organic Mixture	60% Solid	55	Steel Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758822
60833	Loose Pack Liquids	60% Solid	55	Steel Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758817
60834	Rags	100% Solid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758817
60835	Rags	100% Solid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758817
60836	Organic Mixture	80% Solid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758817
60837		Empty Drum	55	Steel Drum	NS	NS	NS	NS	NS	NS	NS	NS	NS	
60838		Empty Drum	55	Steel Drum	NS	NS	NS	NS	NS	NS	NS	NS	NS	
60839	Lean Organic Mixture	5% Solid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758815
60840	Lean Organic Mixture	5% Solid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758815
60841	Lean Organic Mixture	0% Solid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758815
60842	Lean Organic Mixture	5% Solid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758815
60843	Lean Organic Mixture	5% Solid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758815
60844	Mixed Solvent	Clear Liquid	55	Steel Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758824
60845	Absorbent/Soil	100% Solid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758815
60846	Solidified Resin, Paint	100% Solid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758815
60847	Absorbent/Soil	100% Solid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758815
60848	Organic Mixture	75% Solid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758815
60849	Absorbent/Soil	100% Solid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758815
60850	Absorbent/Soil	100% Solid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758815
60851	Solidified Paint	100% Solid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758815
60852	Absorbent/Soil	100% Solid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758815
60853	Debris, Rags, Filters	100% Solid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758815
60854	Absorbent/Soil	100% Solid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758815
60855	Organic Mixture	70% Solid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758815
60856	Organic Mixture	70% Solid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758815
60857	Organic Mixture	Brown Solid	55	Steel Drum	>140 deg	No	No	No	7	Yes	No	No	No	AR-758823
60858	Absorbent/Soil	Brown Solid	55	Steel Drum	>140 deg	No	No	No	7	Yes	No	No	No	AR-758823
60859	Debris, Rags, Filters	Paper Filter	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758823
60860	Powder & Granular Oxidizers	Cardboard	55	Steel Drum	>140 deg	No	No	No	7	Yes	No	No	No	AR-758820
60861	Solidified Resin, Paint	100% Solid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758820
60862	Solidified Resin, Paint	100% Solid	55	Steel Drum	>140 deg	No	No	No	4	No	No	No	No	AR-758820
60863	Organic Mixture	75% Solid	55	Steel Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758823
60864	Debris, Rags, Filters	100% Solid	55	Steel Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758820
60865	Absorbent/Soil	100% Solid	55	Steel Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758826
60866	Absorbent/Soil	100% Solid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758816
60867	Absorbent/Soil	100% Solid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758815
60868	Absorbent/Soil	100% Solid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758815
60869	Lean Organic Mixture	60% Solid	55	Steel Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758815
60870	Organic Mixture	80% Solid	55	Steel Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758815
60871	Lean Organic Mixture	60% Solid	55	Steel Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758815
60872	Absorbent/Soil	100% Solid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758815
60873	Organic Mixture	95% Solid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758815
60874	Organic Mixture	90% Solid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758815
60875	Organic Mixture	80% Solid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758815
60876	Organic Mixture	80% Solid	55	Steel Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758818
60877	Organic Mixture	80% Solid	55	Steel Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758818
60878	Organic Mixture	90% Solid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758815
60879	Absorbent/Soil	100% Solid	85	Overpack Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758815
60880	Absorbent Lab Pack Removed	Cylinders	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758844

Volumes are in gallons unless otherwise specified. NS = Not sampled.

Omega Drum Removal - HazCat Log

Drum No.	Waste Description	Physical Description	Container Volume	Container Type	Flammeblilty	Air Reactive	Water Reactive	Water Soluble	pH	Oxidizer	Cyanide	Sulfide	Peroxide	Manifest No.
60881	Organic Mixture	70% Solid	55	Steel Drum	>140 deg	No	No	No	4	No	No	No	No	AR-758818
60882	Absorbent/Soil	100% Solid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758816
60883	Organic Mixture	20% Solid	85	Overpack Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758815
60884	Organic Mixture	20% Solid	55	Steel Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758815
60885	Organic Mixture	80% Solid	55	Steel Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758818
60886	Organic Mixture	80% Solid	55	Steel Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758818
60887	Organic Mixture	70% Solid	55	Steel Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758818
60888	Solidified Resin, Paint	100% Solid	85	Overpack Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758818
60889	Mixed Solvent	95% Solid	85	Overpack Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758818
60890	Absorbent/Soil	100% Solid	85	Overpack Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758818
60891	Organic Mixture	20% Solid	85	Overpack Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758818
60892	Powder & Granular Oxidizers	Brown Solid	55	Steel Drum	>140 deg	No	No	No	7	Yes	No	No	No	AR-758818
60893	Absorbent/Soil	100% Solid	85	Overpack Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758816
60894	Mixed Solvent	75% Solid	85	Overpack Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758814
60895	Organic Mixture	90% Solid	85	Overpack Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758814
60896	Asborbent/Soil	Light Brown Sol	85	Overpack Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758815
60897	Organic Mixture	100% Solid	85	Overpack Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758802
60898	Organic Mixture	80% Solid	85	Overpack Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758814
60899	Absorbent/Soil	100% Solid	85	Overpack Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758814
60900	Absorbent/Soil	Brown Solid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758824
60901	Absorbent/Soil	100% Solid	85	Overpack Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758814
60902	Powder & Granular Oxidizers	100% Solid	85	Overpack Drum	>140 deg	No	No	No	7	Yes	No	No	No	AR-758814
60903	Powder & Granular Oxidizers	100% Solid	85	Overpack Drum	>140 deg	No	No	No	7	Yes	No	No	No	AR-758814
60904	Absorbent/Soil	100% Solid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758820
60905	Absorbent Lab Pack Removed	Lab Pack	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758844
60906	Absorbent/Soil	100% Solid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758820
60907	Solidified Resin, Paint	100% Solid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758820
60908	Absorbent Lab Pack Removed	100% Solid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758837
60909	Lean Organic Mixture	60% Solid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758814
60910	Debris, Rags, Filters	100% Solid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758814
60911	Absorbent/Soil	100% Solid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758814
60912	Plastic Container Not Sampled	No Sample	55	Steel Drum	NS	NS	NS	NS	NS	NS	NS	NS	NS	AR-758824
60913	Metal Pads Not Sampled	No Sample	55	Steel Drum	NS	NS	NS	NS	NS	NS	NS	NS	NS	AR-758824
60914	Absorbent	No Sample	55	Steel Drum	NS	NS	NS	NS	NS	NS	NS	NS	NS	AR-758837
60915	Metal Containers Not Sampled	100% Solid	55	Steel Drum	>140 deg	No	No	No	6	No	No	No	No	AR-758824
60916	Organic Mixture	Amber Liquid	55	Steel Drum	>140 deg	No	No	No	6	No	No	No	No	AR-758802
60917	Organic Mixture	10% Solid	85	Overpack Drum	>140 deg	No	No	No	6	No	No	No	No	AR-758809
60918	Empty/ No Samp.	Empty Drum	85	Overpack Drum	NS	NS	NS	NS	NS	NS	NS	NS	NS	
60919	Solidified Paint	100% Solid	85	Overpack Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758812
60920	Solidified Paint	100% Solid	85	Overpack Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758807
60921	Debris, Rags, Filters	100% Solid	85	Overpack Drum	>140 deg	No	No	No	8	No	No	No	No	AR-758807
60922	Organic Mixture	10% Solid	85	Overpack Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758807
60923	Chemical Sludge	50% Solid	85	Overpack Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758807
60924	Mixed Solvent	5% Solid	85	Overpack Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758807

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Omega Drum Removal - HazCat Log

Drum No.	Waste Description	Physical Description	Container Volume	Container Type	Flammablilty	Air Reactive	Water Reactive	Water Soluble	pH	Oxidizer	Cyanide	Sulfide	Peroxide	Manifest No.
60925	Absorbent/Soil	100% Solid	85	Overpack Drum	>140 deg	No	No	No	8	No	No	No	No	AR-758811
60926	Organic Mixture	95% Solid	85	Overpack Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758807
60927	Powder & Granular Oxidizers	100% Solid	85	Overpack Drum	>140 deg	No	No	No	7	Yes	No	No	No	AR-758811
60928	Debris, Rags, Filters	100% Solid	85	Overpack Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758807
60929	Debris, Rags, Filters	100% Solid	85	Overpack Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758807
60930	Debris, Rags, Filters	100% Solid	85	Overpack Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758807
60931	Organic Mixture	60% Solid	85	Overpack Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758807
60932	Resin, Adhesive	90% Solid	85	Overpack Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758807
60933	Organic Mixture	95% Solid	85	Overpack Drum	>140 deg	No	No	No	8	No	No	No	No	AR-758813
60934	Chemical Sludge	95% Solid	85	Overpack Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758807
60935	Absorbent/Soil	100% Solid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758819
60936	Organic Mixture	50% Solid	55	Steel Drum	<140 deg	No	No	No	8	No	No	No	No	AR-758819
60937	Absorbent/Soil	100% Solid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758817
60938	Chemical Sludge	90% Solid	55	Steel Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758819
60939	Chemical Sludge	60% Solid	55	Steel Drum	<140 deg	No	No	No	8	No	No	No	No	AR-758817
60940	Paint, Resin	80% Solid	55	Steel Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758817
60941	Powder & Granular Oxidizers	100% Solid	55	Steel Drum	>140 deg	No	No	No	7	Yes	No	No	No	AR-758817
60942	Absorbent/Soil	100% Solid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758817
60943	Absorbent/Soil	100% Solid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758817
60944	Absorbent/Soil	100% Solid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758817
60945	Absorbent/Soil	100% Solid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758817
60946	Absorbent/Soil	100% Solid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758817
60947	Organic Mixture	60% Solid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758819
60948	Organic Mixture	60% Solid	55	Steel Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758819
60949	Organic Mixture	60% Solid	55	Steel Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758819
60950	Mixed Solvent	70% Solid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758819
60951	Solidified Resin, Paint	90% Solid	55	Steel Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758817
60952	Mixed Solvent	20% Solid	55	Steel Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758817
60953	Resin, Adhesive	80% Solid	55	Steel Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758819
60954	Resin, Adhesive	90% Solid	55	Steel Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758819
60955	Chemical Sludge	90% Solid	55	Steel Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758819
60956	Mixed Solvent	60% Solid	55	Steel Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758819
60957	Organic Acid	60% Solid	55	Poly Drum	>140 deg	No	No	No	2	No	No	No	No	AR-758808
60958	Organic Acid	60% Solid	55	Poly Drum	>140 deg	No	No	No	2	No	No	No	No	AR-758808
60959	Organic Acid	60% Solid	55	Poly Drum	>140 deg	No	No	No	2	No	No	No	No	AR-758808
60960	Absorbent/Soil	100% Solid	55	Poly Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758816
60961	Paint, Resin	80% Solid	55	Poly Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758816
60962	Paint, Resin	80% Solid	55	Poly Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758816
60963	Alkaline Solids	100% Solid	55	Steel Drum	>140 deg	No	No	No	14	No	No	No	No	AR-758817
60964	Organic Acid	60% Solid	55	Poly Drum	>140 deg	No	No	No	2	No	No	No	No	AR-758808
60965	Mixed Solvent	60% Solid	55	Steel Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758816
60966	Mixed Solvent	40% Solid	55	Steel Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758816
60967	Organic Mixture	80% Solid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758816
60968	Organic Mixture	30% Solid	55	Steel Drum	>140 deg	No	No	No	9	No	No	No	No	AR-758816
60969	Organic Mixture	70% Solid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758814
60970	Solidified Resin, Paint	100% Solid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758812
60971	Oxidizing Liquid	90% Solid	55	Poly Drum	>140 deg	No	No	No	9	No	No	No	No	AR-758812
60972	Solidified Resin, Paint	100% Solid	55	Steel Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758812
60973	Absorbent/Soil	100% Solid	55	Poly Drum	>140 deg	No	No	No	9	No	No	No	No	AR-758812

Volumes are in gallons unless otherwise specified. NS = Not sampled.

Omega Drum Removal - HazCat Log

Drum No.	Waste Description	Physical Description	Container Volume	Container Type	Flammability	Air Reactive	Water Reactive	Water Soluble	pH	Oxidizer	Cyanide	Sulfide	Peroxide	Manifest No.
60974	Debris, Rags, Filters	100% Solid	55	Poly Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758812
60975	Organic Mixture	10% Solid	55	Poly Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758812
60976	Absorbent/Soil	100% Solid	55	Poly Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758812
60977	Mixed Solvent	80% Solid	55	Steel Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758812
60978	Organic Mixture	50% Solid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758812
60979	Lean Organic Mixture	50% Solid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758812
60980	Chemical Sludge	80% Solid	55	Steel Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758814
60981	Powder & Granular Oxidizers	100% Solid	55	Steel Drum	>140 deg	No	No	No	7	Yes	No	No	No	AR-758812
60982	Organic Mixture	80% Solid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758812
60983	Powder & Granular Oxidizers	100% Solid	55	Steel Drum	>140 deg	No	No	No	7	Yes	No	No	No	AR-758812
60984	Chemical Sludge	80% Solid	55	Steel Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758814
60985	Organic Mixture	90% Solid	55	Poly Drum	>140 deg	No	No	No	4	No	No	No	No	AR-758812
60986	Organic Mixture	90% Solid	55	Poly Drum	>140 deg	No	No	No	4	No	No	No	No	AR-758814
60987	Organic Mixture	60% Solid	55	Poly Drum	>140 deg	No	No	No	4	No	No	No	No	AR-758817
60988	Organic Mixture	90% Solid	55	Poly Drum	>140 deg	No	No	No	4	No	No	No	No	AR-758812
60989	Absorbent/Soil	100% Solid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758822
60990	Powder & Granular Oxidizers	100% Solid	55	Steel Drum	>140 deg	No	No	No	7	Yes	No	No	No	AR-758823
60991	Chemical Sludge	100% Solid	55	Steel Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758822
60992	Chemical Sludge	100% Solid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758822
60993	Paint, Resin	80% Solid	55	Steel Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758812
60994	Solidified Resin, Paint	100% Solid	55	Steel Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758812
60995	Chemical Sludge	80% Solid	55	Steel Drum	<140 deg	No	No	No	8	No	No	No	No	AR-758802
60996	Chemical Sludge	90% Solid	55	Steel Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758812
60997	Organic Mixture	80% Solid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758817
60998	Solidified Resin, Paint	100% Solid	55	Steel Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758817
60999	Organic Mixture	70% Solid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758817
61000	Chemical Sludge	70% Solid	85	Overpack Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758817
61001	Chemical Sludge	100% Solid	85	Overpack Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758817
61002	Chemical Sludge	85% Solid	85	Overpack Drum	<140 deg	No	No	No	8	No	No	No	No	AR-758817
61003	Acid Sludge	100% Solid	85	Overpack Drum	>140 deg	No	No	No	2	No	No	No	No	AR-758817
61004	Chemical Sludge	75% Solid	85	Overpack Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758817
61005	Absorbent/Soil	100% Solid	85	Overpack Drum	>140 deg	No	No	No	9	No	No	No	No	AR-758808
61006	Organic Mixture	95% Solid	85	Overpack Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758808
61007	Absorbent/Soil	100% Solid	85	Overpack Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758808
61008	Absorbent Lab Pack Removed	100% Solid	85	Overpack Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758837
61009	Organic Mixture	80% Solid	85	Overpack Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758817
61010	Absorbent/Soil	100% Solid	85	Overpack Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758812
61011	Mixed Solvent	<10% Solid	85	Overpack Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758825
61012	Debris, Rags, Filters	100% Solid	85	Overpack Drum	No	No	No	No	7	No	No	No	No	AR-758814
61013	Organic Mixture	60% Solid	55	Steel Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758817
61014	Lean Organic Mixture	60% Solid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758817
61015	Mixed Solvent	30% Solid	55	Steel Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758817
61016	Organic Mixture	80% Solid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758817
61017	Solidified Resin, Paint	100% Solid	85	Overpack Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758810
61018	Solidified Resin, Paint	100% Solid	85	Overpack Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758810
61019	Solidified Resin, Paint	100% Solid	85	Overpack Drum	No	No	No	No	7	No	No	No	No	AR-758810
61020	Lean Organic Mixture	30% Solid	85	Overpack Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758810

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Omega Drum Removal - HazCat Log

Drum No.	Waste Description	Physical Description	Container Volume	Container Type	Flammability	Air Reactive	Water Reactive	Water Soluble	pH	Oxidizer	Cyanide	Sulfide	Peroxide	Manifest No.
61021	Acid Sludge	100% Solid	85	Overpack Drum	>140 deg	No	No	No	1	No	No	No	No	AR-758814
61022	Absorbent/Soil	50% Solid	85	Overpack Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758810
61023	Organic Mixture	85% Solid	85	Overpack Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758810
61024	Lean Organic Mixture	50% Solid	85	Overpack Drum	>140 deg	No	No	No	9	No	No	No	No	AR-758810
61025	Debris, Rags, Filters	100% Solid	85	Overpack Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758817
61026	Absorbent/Soil	100% Solid	85	Overpack Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758817
61027	Absorbent/Soil	100% Solid	85	Overpack Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758817
61028	Organic Mixture	5% Solid	85	Overpack Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758808
61029	Organic Mixture	0% Solid	85	Overpack Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758812
61030	Organic Mixture	0% Solid	85	Overpack Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758812
61031	Organic Mixture	80% Solid	85	Overpack Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758810
61032	Mixed Solvent	0% Solid	85	Overpack Drum	<140 deg	No	No	No	9	No	No	No	No	AR-758806
61033	Absorbent Lab Pack Removed	LabPack	85	Overpack Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758837
61034	Resin, Adhesive	0% Solid	85	Overpack Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758806
61035	Mixed Solvent	0% Solid	85	Overpack Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758806
61036	Powder & Granular Oxidizers	100% Solid	85	Overpack Drum	>140 deg	No	No	No	7	Yes	No	No	No	AR-758817
61037	Absorbent/Soil	100% Solid	85	Overpack Drum	>140 deg	No	No	No	9	No	No	No	No	AR-758817
61038	Absorbent/Soil	100% Solid	85	Overpack Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758817
61039	Absorbent/Soil	100% Solid	85	Overpack Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758817
61040	Organic Mixture	0% Solid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758818
61041	Organic Mixture	0% Solid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758792
61042	Paint, Resin	10% Solid	55	Steel Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758818
61043	Chemical Sludge	80% Solid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758818
61044	Organic Mixture	50% Solid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758818
61045	Chemical Solids	100% Solid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758815
61046	Chemical Solids	100% Solid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758815
61047	Chemical Solids	100% Solid	55	Steel Drum	>140 deg	No	No	No	8	No	No	No	No	AR-758815
61048	Chemical Solids	100% Solid	55	Steel Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758815
61049	Chemical Solids	100% Solid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758815
61050	Chemical Solids	100% Solid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758815
61051	Absorbent/Soil	100% Solid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758815
61052	Organic Mixture	80% Solid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758815
61053	Paint, Resin	100% Solid	55	Steel Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758815
61054	Organic Mixture	0% Solid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758818
61055	Resin, Adhesive	90% Solid	55	Steel Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758818
61056	Chemical Sludge	80% Solid	55	Steel Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758818
61057	Solidified Resin, Paint	100% Solid	85	Overpack Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758802
61058	Organic Mixture	80% Solid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758826
61059	Absorbent/Soil	100% Solid	85	Overpack Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758815
61060	Organic Mixture	100% Solid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758826
61061	Solidified Resin, Paint	80% Solid	85	Overpack Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758826
61062	Resin, Adhesive	90% Solid	55	Steel Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758826
61063	Mixed Solvent	0% Solid	55	Steel Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758826
61064	Absorbent/Soil	100% Solid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758815
61065	Resin, Adhesive	80% Solid	55	Steel Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758826
61066	Mixed Solvent	10% Solid	55	Steel Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758826
61067	Paint, Resin	80% Solid	85	Overpack Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758826
61068	Debris, Rags, Filters	Rags	85	Overpack Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758837
61069	Debris, Rags, Filters	Rags	85	Overpack Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758837

Volumes are in gallons unless otherwise specified. NS = Not sampled.

Omega Drum Removal - HazCat Log

Drum No.	Waste Description	Physical Description	Container Volume	Container Type	Flammeblility	Air Reactive	Water Reactive	Water Soluble	pH	Oxidizer	Cyanide	Sulfide	Peroxide	Manifest No.
61070	Debris, Rags, Filters	Rags	85	Overpack Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758823
61071	Debris, Rags, Filters	Rags	85	Overpack Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758837
61072	Solidified Resin, Paint	100% Solid	85	Overpack Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758825
61073	Solidified Resin, Paint	100% Solid	85	Overpack Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758844
61074	Lean Organic Mixture	0% Solid	85	Overpack Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758792
61075	Resin, Adhesive	100% Solid	85	Overpack Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758822
61076	Absorbent Lab Pack Removed	LabPack	85	Overpack Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758837
61077	Solidified Resin, Paint	100% Solid	85	Overpack Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758826
61078	Lean Organic Mixture	50% Solid	85	Overpack Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758822
61079	Resin, Adhesive	95% Solid	85	Overpack Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758822
61080	Organic Mixture	75% Solid	85	Overpack Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758822
61081	Absorbent Lab Pack Removed	Lab Pack	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758837
61082	Organic Mixture	0% Solid	55	Steel Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758821
61083	Organic Mixture	0% Solid	55	Steel Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758821
61084	Paint, Resin	0% Solid	55	Steel Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758821
61085	Absorbent Lab Pack Removed	80% Solid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758837
61086	Mixed Solvent	0% Solid	30	Steel Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758824
61087	Mixed Solvent	50% Solid	55	Steel Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758822
61088	Debris, Rags, Filters	100% Solid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758826
61089	Debris, Rags, Filters	100% Solid	55	Steel Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758837
61090	Resin, Adhesive	5% Solid	55	Steel Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758822
61091	Organic Mixture	100% Solid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758823
61092	Absorbent/Soil	100% Solid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758822
61093	Absorbent/Soil	100% Solid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758822
61094	Absorbent/Soil	100% Solid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758822
61095	Absorbent/Soil	100% Solid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758822
61096	Absorbent/Soil	100% Solid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758822
61097	Resin, Adhesive	75% Solid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758821
61098	Resin, Adhesive	75% Solid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758821
61099	Organic Mixture	75% Solid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758821
61100	Organic Mixture	75% Solid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758821
61101	Organic Mixture	0% Solid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758824
61102	Lean Organic Mixture	60% Solid	85	Overpack Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758825
61103	Organic Mixture	0% Solid	85	Overpack Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758825
61104	Organic Mixture	80% Solid	85	Overpack Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758825
61105	Absorbent/Soil	100% Solid	85	Overpack Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758825
61106	Alkaline Liquid	0% Solid	85	Overpack Drum	>140 deg	No	No	No	13	No	No	No	No	AR-758825
61107	Absorbent/Soil	100% Solid	85	Overpack Drum	>140 deg	No	No	No	8	No	No	No	No	AR-758825
61108	Lean Organic Mixture	50% Solid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758821
61109	Solidified Resin, Paint	100% Solid	55	Steel Drum	>140 deg	No	No	No	8	No	No	No	No	AR-758821
61110	Organic Mixture	90% Solid	55	Steel Drum	>140 deg	No	No	No	8	No	No	No	No	AR-758821
61111	Lean Organic Mixture	20% Solid	55	Steel Drum	>140 deg	No	No	No	9	No	No	No	No	AR-758821
61112	Absorbent/Soil	100% Solid	85	Overpack Drum	>140 deg	No	No	No	8	No	No	No	No	AR-758816
61113	Absorbent/Soil	100% Solid	85	Overpack Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758824
61114	Absorbent/Soil	Brown Solid	85	Overpack Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758815
61115	Lean Organic Mixture	Brown Solid	85	Overpack Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758823
61116	Absorbent/Soil	Broken Glass	85	Overpack Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758823
61117	Organic Mixture	Brown Solid	85	Overpack Drum	>140 deg	No	No	No	8	No	No	No	No	AR-758823

Volumes are in gallons unless otherwise specified. NS = Not sampled.

Omega Drum Removal - HazCat Log

Drum No.	Waste Description	Physical Description	Container Volume	Container Type	Flammablilty	Air Reactive	Water Reactive	Water Soluble	pH	Oxidizer	Cyanide	Sulfide	Peroxide	Manifest No.
61118	Organic Mixture	0% Solid	85	Overpack Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758824
61119	Chemical Solids	100% Solid	85	Overpack Drum	>140 deg	No	No	No	8	No	No	No	No	AR-758821
61120	Solidified Resin, Paint	100% Solid	55	Steel Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758821
61121	Absorbent/Soil	100% Solid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758821
61122	Chemical Sludge	95% Solid	55	Steel Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758821
61123	Solidified Resin, Paint	100% Solid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758821
61124	Chemical Solids	100% Solid	55	Steel Drum	<140 deg	No	No	No	8	No	No	No	No	AR-758821
61125	Solidified Resin, Paint	100% Solid	55	Steel Drum	>140 deg	No	No	No	8	No	No	No	No	AR-758821
61126	Chemical Solids	100% Solid	55	Steel Drum	<140 deg	No	No	No	6	No	No	No	No	AR-758821
61127	Solidified Resin, Paint	100% Solid	55	Steel Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758824
61128	Mixed Solvent	30% Solid	55	Steel Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758821
61129	Mixed Solvent	0% Solid	55	Steel Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758824
61130	Alkaline Sludge	100% Solid	55	Steel Drum	<140 deg	No	No	No	12	No	No	No	No	AR-758824
61131	Organic Mixture	60% Solid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758824
61132	Chemical Sludge	90% Solid	55	Steel Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758824
61133	Lean Organic Mixture	60% Solid	55	Steel Drum	>140 deg	No	No	No	8	No	No	No	No	AR-758824
61134	Paint, Resin	0% Solid	55	Steel Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758824
61135	Organic Mixture	70% Solid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758824
61136	Chemical Sludge	90% Solid	85	Overpack Drum	>140 deg	No	No	No	8	No	No	No	No	AR-758824
61137	Absorbent/Soil	100% Solid	85	Overpack Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758824
61138	Chemical Sludge	75% Solid	85	Overpack Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758824
61139	Absorbent/Soil	100% Solid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758821
61140	Mixed Solvent	80% Solid	55	Steel Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758821
61141	Absorbent/Soil	100% Solid	85	Overpack Drum	>140 deg	No	No	No	8	No	No	No	No	AR-758824
61142	Organic Acid	10% Solid	85	Overpack Drum	>140 deg	No	No	No	0	No	No	No	No	AR-758837
61143	Organic Acid	10% Solid	85	Overpack Drum	>140 deg	No	No	No	0	No	No	No	No	AR-758837
61144	Absorbent Lab Pack Removed	Lab Pack	85	Overpack Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758837
61145	Absorbent Lab Pack Removed	Lab Pack	85	Overpack Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758837
61146	Lean Organic Mixture	20% Solid	85	Overpack Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758824
61147	Mixed Solvent	20% Solid	85	Overpack Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758824
61148	Lean Organic Mixture	40% Solid	55	Steel Drum	>140 deg	No	No	No	8	No	No	No	No	AR-758819
61149	Chemical Sludge	0% Solid	55	Steel Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758819
61150	Mixed Solvent	0% Solid	55	Steel Drum	<140 deg	No	No	No	8	No	No	No	No	AR-758819
61151	Organic Mixture	5% Solid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758819
61152	Organic Mixture	80% Solid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758819
61153	Organic Mixture	0% Solid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758819
61154	Absorbent/Soil	100% Solid	55	Steel Drum	>140 deg	No	No	No	6	No	No	No	No	AR-758819
61155	Alkaline Liquid	25% Solid	55	Steel Drum	>140 deg	No	No	No	12	No	No	No	No	AR-758819
61156	Solidified Resin, Paint	90% Solid	55	Steel Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758821
61157	Organic Mixture	90% Solid	55	Steel Drum	>140 deg	No	No	No	8	No	No	No	No	AR-758821
61158	Chemical Sludge	90% Solid	55	Steel Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758821
61159	Mixed Solvent	5% Solid	55	Steel Drum	<140 deg	No	No	No	6	No	No	No	No	AR-758821
61160	Absorbent/Soil	Brown Solid	55	Steel Drum	No	No	No	No	8	No	No	No	No	AR-758819
61161	Absorbent/Soil	Brown Solid	55	Steel Drum	No	No	No	No	8	No	No	No	No	AR-758819
61162	Absorbent/Soil	Black Solid	55	Steel Drum	No	No	No	No	7	No	No	No	No	AR-758819
61163	Absorbent/Soil	Brown Solid	55	Steel Drum	No	No	No	No	8	No	No	No	No	AR-758819
61164	Absorbent Lab Pack Removed	Lab Pack	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758843
61165	Absorbent/Soil	Black Solid	55	Steel Drum	No	No	No	No	7	No	No	No	No	AR-758821

Volumes are in gallons unless otherwise specified. NS = Not sampled.

Omega Drum Removal - HazCat Log

Drum No.	Waste Description	Physical Description	Container Volume	Container Type	Flammability	Air Reactive	Water Reactive	Water Soluble	pH	Oxidizer	Cyanide	Sulfide	Peroxide	Manifest No.
61166	Absorbent/Soil	Brown Solid	55	Steel Drum	No	No	No	No	8	No	No	No	No	AR-758824
61167	Absorbent/Soil	Blk/Wht Solid	55	Steel Drum	No	No	No	No	8	No	No	No	No	AR-758824
61168	Organic Mixture	Black Liquid	55	Steel Drum	>140 deg	No	No	Slight	8	No	No	No	No	AR-758819
61169	Organic Mixture	Black Liquid	55	Steel Drum	>140 deg	No	No	No	8	No	No	No	No	AR-758821
61170	Absorbent/Soil	Brown Solid	55	Steel Drum	No	No	No	No	8	No	No	No	No	AR-758824
61171	Organic Mixture	Brown Liquid	55	Steel Drum	<140 deg	No	No	No	8	No	No	No	No	AR-758824
61172	Chemical Sludge	White Sludge	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758817
61173	Mixed Solvent	Brown Liquid	55	Steel Drum	<140 deg	No	No	No	8	No	No	No	No	AR-758819
61174	Debris, Rags, Filters	Grey Solid	55	Steel Drum	>140 deg	No	No	No	8	No	No	No	No	AR-758817
61175	Organic Mixture	Multi Liquid	55	Steel Drum	No	No	No	No	8	No	No	No	No	AR-758817
61176	Mixed Solvent	Black Liquid	55	Steel Drum	<140 deg	No	No	Slight	8	No	No	No	No	AR-758819
61177	Mixed Solvent	Black Liquid	55	Steel Drum	<140 deg	No	No	Slight	8	No	No	No	No	AR-758819
61178	Mixed Solvent	Black Liquid	55	Steel Drum	<140 deg	No	No	Slight	8	No	No	No	No	AR-758819
61179	Mixed Solvent	Black Liquid	55	Steel Drum	<140 deg	No	No	Slight	8	No	No	No	No	AR-758819
61180	Mixed Solvent	Black Liquid	55	Steel Drum	<140 deg	No	No	Slight	8	No	No	No	No	AR-758811
61181	Chemical Sludge	Multi-Sludge	55	Steel Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758837
61182	Filters/Absorbent	No Sample	55	Steel Drum	NS	NS	NS	NS	NS	NS	NS	NS	NS	AR-758837
61183	Chemical Sludge	Multi-Sludge	55	Steel Drum	>140 deg	No	No	No	8	No	No	No	No	AR-758837
61184	Organic Mixture	Brown Liquid	55	Steel Drum	No	No	No	Slight	8	No	No	No	No	AR-758819
61185	Organic Mixture	Black Sludge	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758819
61186	Mixed Solvent	Black Liquid	55	Steel Drum	<140 deg	No	No	Slight	8	No	No	No	No	AR-758819
61187	Organic Mixture	Clear Liquid	55	Steel Drum	>140 deg	No	No	Yes	8	No	No	No	No	AR-758819
61188	Chemical Sludge	Black Solid	55	Steel Drum	<140 deg	No	No	No	8	No	No	No	No	AR-758820
61189	Organic Mixture	Black Liquid	55	Steel Drum	>140 deg	No	No	No	8	No	No	No	No	AR-758822
61190	Mixed Solvent	Black Solid	55	Steel Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758820
61191	Mixed Solvent	Black Solid	55	Steel Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758820
61192	Mixed Solvent	Black Liquid	55	Steel Drum	<140 deg	No	No	No	8	No	No	No	No	AR-758822
61193	Mixed Solvent	Amber Liquid	55	Steel Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758822
61194	Mixed Solvent	Black Liquid	55	Steel Drum	<140 deg	No	No	No	8	No	No	No	No	AR-758820
61195	Mixed Solvent	Black Liquid	55	Steel Drum	<140 deg	No	No	No	8	No	No	No	No	AR-758820
61196	Mixed Solvent	Black Sludge	55	Steel Drum	<140 deg	No	No	No	8	No	No	No	No	AR-758820
61197	Organic Mixture	Blk/Clr. Liquid	55	Steel Drum	>140 deg	No	No	No	8	No	No	No	No	AR-758820
61198	Organic Mixture	Grey Liquid	55	Steel Drum	>140 deg	No	No	No	8	No	No	No	No	AR-758820
61199	Organic Mixture	Grey Sludge	55	Steel Drum	No	No	No	No	7	No	No	No	No	AR-758820
61200	Organic Mixture	Black Liquid	55	Steel Drum	<140 deg	No	No	No	8	No	No	No	No	AR-758820
61201	Organic Mixture	Clr/Blk. Liquid	55	Steel Drum	>140 deg	No	No	No	8	No	No	No	No	AR-758820
61202	Organic Mixture	Brown Liquid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758820
61203	Mixed Solvent	Brown Liquid	55	Steel Drum	>140 deg	No	No	No	8	No	No	No	No	AR-758820
61204	Paint, Resin	Brown Liquid	55	Steel Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758823
61205	Absorbent/Soil	Brown Solid	55	Steel Drum	No	No	No	No	8	No	No	No	No	AR-758822
61206	Mixed Solvent	Brown Liquid	55	Steel Drum	<140 deg	No	No	No	8	No	No	No	No	AR-758820
61207	Mixed Solvent	Green Sludge	55	Steel Drum	<140 deg	No	No	No	8	No	No	No	No	AR-758820
61208	Organic Mixture	Clear Liquid	55	Steel Drum	No	No	No	Slight	7	No	No	No	No	AR-758824
61209	Mixed Solvent	Black Liquid	55	Steel Drum	<140 deg	No	No	No	8	No	No	No	No	AR-758812
61210	Lean Organic Mixture	Lt. Brown Liq.	55	Steel Drum	No	No	No	No	7	No	No	No	No	AR-758812
61211	Chemical Sludge	Black Sludge	55	Steel Drum	<140 deg	No	No	No	8	No	No	No	No	AR-758802
61212	Mixed Solvent	Black Liquid	55	Steel Drum	<140 deg	No	No	No	8	No	No	No	No	AR-758822
61213	Mixed Solvent	Black Liquid	55	Steel Drum	<140 deg	No	No	No	8	No	No	No	No	AR-758822
61214	Mixed Solvent	Brown Liquid	55	Steel Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758822
61215	Mixed Solvent	Brown Liquid	55	Steel Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758822
61216	Absorbent/Soil	White Solid	55	Steel Drum	No	No	No	No	8	No	No	No	No	AR-758820

Volumes are in gallons unless otherwise specified. NS = Not sampled.

Omega Drum Removal - HazCat Log

Drum No.	Waste Description	Physical Description	Container Volume	Container Type	Flammablilty	Air Reactive	Water Reactive	Water Soluble	pH	Oxidizer	Cyanide	Sulfide	Peroxide	Manifest No.
61217	Debris, Rags, Filters	Fiber Solid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758820
61218	Debris, Rags, Filters	Wh/Brn Solid	55	Steel Drum	No	No	No	No	8	No	No	No	No	AR-758820
61219	Absorbent/Soil	Wh/Brn Solid	55	Steel Drum	No	No	No	No	8	No	No	No	No	AR-758822
61220	Organic Acid	30% Solid	85	Overpack Drum	<140 deg	No	No	No	2	No	No	No	No	AR-758822
61221	Absorbent/Soil	100% Solid	85	Overpack Drum	>140 deg	No	No	No	8	No	No	No	No	AR-758820
61222	Paint, Resin	90% Solid	55	Steel Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758814
61223	Debris, Rags, Filters	100% Solid	85	Overpack Drum	No	No	No	No	No	No	No	No	No	AR-758814
61224	Mixed Solvent	60% Solid	55	Steel Drum	<140 deg	No	No	No	8	No	No	No	No	AR-758811
61225	Absorbent/Soil	100% Solid	55	Steel Drum	>140 deg	No	No	No	8	No	No	No	No	AR-758837
61226	Absorbent/Soil	100% Solid	55	Steel Drum	>140 deg	No	No	No	8	No	No	No	No	AR-758837
61227	Absorbent/Soil	100% Solid	55	Steel Drum	>140 deg	No	No	No	8	No	No	No	No	AR-758837
61228	Absorbent/Soil	100% Solid	55	Steel Drum	>140 deg	No	No	No	8	No	No	No	No	AR-758837
61229	Organic Mixture	90% Solid	55	Steel Drum	>140 deg	No	No	Slight	8	No	No	No	No	AR-758824
61230	Mixed Solvent	90% Solid	55	Steel Drum	<140 deg	No	No	No	8	No	No	No	No	AR-758821
61231	Organic Mixture	70% Solid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758824
61232	Paint, Resin	70% Solid	55	Steel Drum	>140 deg	No	No	No	8	No	No	No	No	AR-758824
61233	Chemical Sludge	90% Solid	55	Steel Drum	>140 deg	No	No	No	8	No	No	No	No	AR-758814
61234	Chemical Sludge	90% Solid	55	Steel Drum	>140 deg	No	No	No	8	No	No	No	No	AR-758814
61235	Oxidizing Liquid	90% Solid	55	Steel Drum	>140 deg	No	No	No	9	Yes	No	No	No	AR-758817
61236	Organic Mixture	90% Solid	55	Steel Drum	>140 deg	No	No	No	8	No	No	No	No	AR-758814
61237	Paint, Resin	90% Solid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758814
61238	Mixed Solvent	80% Solid	55	Steel Drum	<140 deg	No	No	No	8	No	No	No	No	AR-758814
61239	Mixed Solvent	70% Solid	55	Steel Drum	<140 deg	No	No	No	6	No	No	No	No	AR-758814
61240	Absorbent/Soil	100% Solid	55	Steel Drum	>140 deg	No	No	No	8	No	No	No	No	AR-758814
61241	Absorbent/Soil	100% Solid	55	Steel Drum	>140 deg	No	No	No	8	No	No	No	No	AR-758814
61242	Absorbent/Soil	100% Solid	55	Steel Drum	>140 deg	No	No	No	8	No	No	No	No	AR-758814
61243	Absorbent/Soil	100% Solid	55	Steel Drum	>140 deg	No	No	No	8	No	No	No	No	AR-758814
61244	Absorbent/Soil	100% Solid	55	Steel Drum	>140 deg	No	No	No	8	No	No	No	No	AR-758814
61245	Absorbent/Soil	100% Solid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758814
61246	Absorbent Lab Pack Removed	Lab Pack	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758843
61247	Absorbent/Soil	100% Solid	55	Steel Drum	No	No	No	No	8	No	No	No	No	AR-758814
61248	Absorbent/Soil	100% Solid	55	Steel Drum	No	No	No	No	8	No	No	No	No	AR-758814
61249	Organic Mixture	80% Solid	55	Steel Drum	>140 deg	No	No	No	8	No	No	No	No	AR-758814
61250	Acid Sludge	95% Solid	55	Steel Drum	>140 deg	No	No	No	2	No	No	No	No	AR-758814
61251	Solidified Resin, Paint	100% Solid	55	Steel Drum	>140 deg	No	No	No	8	No	No	No	No	AR-758814
61252	Acid Sludge	95% Solid	55	Steel Drum	>140 deg	No	No	No	2	No	No	No	No	AR-758821
61253	Organic Mixture	70% Solid	55	Steel Drum	>140 deg	No	No	No	8	No	No	No	No	AR-758814
61254	Absorbent/Soil	100% Solid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758814
61255	Mixed Solvent	80% Solid	55	Steel Drum	<140 deg	No	No	No	8	No	No	No	No	AR-758814
61256	Organic Mixture	20% Solid	55	Steel Drum	>140 deg	No	No	No	8	No	No	No	No	AR-758814
61257	Organic Mixture	90% Solid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758816
61258	Mixed Solvent	70% Solid	55	Steel Drum	<140 deg	No	No	No	8	No	No	No	No	AR-758814
61259	Mixed Solvent	90% Solid	55	Steel Drum	<140 deg	No	No	No	8	No	No	No	No	AR-758816
61260	Mixed Solvent	80% Solid	55	Steel Drum	<140 deg	No	No	No	8	No	No	No	No	AR-758814
80100	Lean Organic Mixture	100% Liquid	30	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758834
80101	Lean Organic Mixture	100% Liquid	30	Steel Drum	>140 deg	No	No	No	6	No	No	No	No	AR-758834
80102	Lean Organic Mixture	100% Liquid	20	Steel Drum	>140 deg	No	No	No	6	No	No	No	No	AR-758834
80103	Lean Organic Mixture	100% Liquid	20	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758834
80104	Lean Organic Mixture	100% Liquid	30	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758834
80105	Lean Organic Mixture	100% Liquid	20	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758834

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Omega Drum Removal - HazCat Log

Drum No.	Waste Description	Physical Description	Container Volume	Container Type	Flammability	Air Reactive	Water Reactive	Water Soluble	pH	Oxidizer	Cyanide	Sulfide	Peroxide	Manifest No.
80106	Lean Organic Mixture	100% Liquid	20	Steel Drum	>140 deg	No	No	No	6	No	No	No	No	AR-758834
80107	Lean Organic Mixture	100% Liquid	20	Steel Drum	>140 deg	No	No	No	6	No	No	No	No	AR-758834
80108		Empty Cans	10	Steel Drum	NS	NS	NS	NS	NS	NS	NS	NS	NS	
80109		Empty Cans	30	Steel Drum	NS	NS	NS	NS	NS	NS	NS	NS	NS	
80110		Empty Cans	30	Steel Drum	NS	NS	NS	NS	NS	NS	NS	NS	NS	
80111		Empty Cans	30	Steel Drum	NS	NS	NS	NS	NS	NS	NS	NS	NS	
80112		Empty Cans	30	Steel Drum	NS	NS	NS	NS	NS	NS	NS	NS	NS	
80113		Empty Cans	30	Steel Drum	NS	NS	NS	NS	NS	NS	NS	NS	NS	
80114		Empty Cans	30	Steel Drum	NS	NS	NS	NS	NS	NS	NS	NS	NS	
80115		Empty Cans	30	Steel Drum	NS	NS	NS	NS	NS	NS	NS	NS	NS	
80116		Empty Cans	30	Steel Drum	NS	NS	NS	NS	NS	NS	NS	NS	NS	
80117		Empty Cans	30	Steel Drum	NS	NS	NS	NS	NS	NS	NS	NS	NS	
80118	Lean Organic Mixture	100% Liquid	10	Steel Drum	>140 deg	No	No	No	8	No	No	No	No	AR-758834
80119	Lean Organic Mixture	100% Liquid	10	Steel Drum	>140 deg	No	No	No	8	No	No	No	No	AR-758834
80120	Lean Organic Mixture	100% Liquid	10	Steel Drum	>140 deg	No	No	No	8	No	No	No	No	AR-758834
80121	Lean Organic Mixture	100% Liquid	10	Steel Drum	>140 deg	No	No	No	8	No	No	No	No	AR-758834
80122	Lean Organic Mixture	100% Liquid	30	Steel Drum	>140 deg	No	No	No	8	No	No	No	No	AR-758834
80123	Lean Organic Mixture	100% Liquid	30	Steel Drum	>140 deg	No	No	No	8	No	No	No	No	AR-758834
80124	Lean Organic Mixture	100% Liquid	10	Steel Drum	>140 deg	No	No	No	8	No	No	No	No	AR-758834
80125	Lean Organic Mixture	100% Liquid	10	Steel Drum	>140 deg	No	No	No	8	No	No	No	No	AR-758834
80126	Lean Organic Mixture	100% Liquid	10	Steel Drum	>140 deg	No	No	No	8	No	No	No	No	AR-758834
80127	Lean Organic Mixture	100% Liquid	20	Steel Drum	>140 deg	No	No	No	8	No	No	No	No	AR-758834
80128	Lean Organic Mixture	100% Liquid	20	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758834
80129	Lean Organic Mixture	100% Liquid	20	Steel Drum	>140 deg	No	No	No	8	No	No	No	No	AR-758834
80130	Lean Organic Mixture	100% Liquid	20	Steel Drum	>140 deg	No	No	No	8	No	No	No	No	AR-758834
80131	Lean Organic Mixture	100% Liquid	20	Steel Drum	>140 deg	No	No	No	8	No	No	No	No	AR-758834
80132	Lean Organic Mixture	100% Liquid	1	Steel Drum	>140 deg	No	No	No	8	No	No	No	No	AR-758834
80133	Chemical Solids	100% Liquid	20	Poly Drum	>140 deg	No	No	No	8	No	No	No	No	AR-758834
80134	Chemical Solids	100% Liquid	20	Poly Drum	>140 deg	No	No	No	8	No	No	No	No	AR-758834
80135	Chemical Solids	100% Liquid	30	Poly Drum	>140 deg	No	No	No	8	No	No	No	No	AR-758834
80136	Organic Acid	100% Liquid	30	Poly Drum	>140 deg	No	No	No	1	No	No	No	No	AR-758844
80137		Empty Drum	55	Steel Drum	NS	NS	NS	NS	NS	NS	NS	NS	NS	
80138		Empty Drum	30	Steel Drum	NS	NS	NS	NS	NS	NS	NS	NS	NS	
80139		Empty Drum	30	Steel Drum	NS	NS	NS	NS	NS	NS	NS	NS	NS	
80140	Lean Organic Mixture	100% Liquid	30	Steel Drum	>140 deg	No	No	No	6	No	No	No	No	AR-758792
80141	Lean Organic Mixture	100% Liquid	10	Steel Drum	>140 deg	No	No	No	6	No	No	No	No	AR-758834
80142		Empty Drum	10	Steel Drum	NS	NS	NS	NS	NS	NS	NS	NS	NS	
80143		Empty Drum	30	Steel Drum	NS	NS	NS	NS	NS	NS	NS	NS	NS	
80144		Empty Drum	30	Steel Drum	NS	NS	NS	NS	NS	NS	NS	NS	NS	
80145		Empty Drum	30	Steel Drum	NS	NS	NS	NS	NS	NS	NS	NS	NS	
80146		Empty Drum	30	Steel Drum	NS	NS	NS	NS	NS	NS	NS	NS	NS	
80147		Empty Drum	30	Steel Drum	NS	NS	NS	NS	NS	NS	NS	NS	NS	
80148		Empty Drum	30	Steel Drum	NS	NS	NS	NS	NS	NS	NS	NS	NS	
80149		Empty Drum	30	Steel Drum	NS	NS	NS	NS	NS	NS	NS	NS	NS	
80150		Empty Drum	20	Steel Drum	NS	NS	NS	NS	NS	NS	NS	NS	NS	
80151		Empty Drum	30	Steel Drum	NS	NS	NS	NS	NS	NS	NS	NS	NS	
80152		Empty Drum	30	Steel Drum	NS	NS	NS	NS	NS	NS	NS	NS	NS	
80153		Empty Drum	30	Steel Drum	NS	NS	NS	NS	NS	NS	NS	NS	NS	
80154		Empty Drum	30	Steel Drum	NS	NS	NS	NS	NS	NS	NS	NS	NS	
80155		Empty Drum	30	Steel Drum	NS	NS	NS	NS	NS	NS	NS	NS	NS	
80156		Empty Drum	30	Steel Drum	NS	NS	NS	NS	NS	NS	NS	NS	NS	

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Omega Drum Removal - HazCat Log

Drum No.	Waste Description	Physical Description	Container Volume	Container Type	Flammability	Air Reactive	Water Reactive	Water Soluble	pH	Oxidizer	Cyanide	Sulfide	Peroxide	Manifest No.
80157		Empty Drum	30	Steel Drum	NS	NS	NS	NS	NS	NS	NS	NS	NS	
80158		Empty Drum	30	Steel Drum	NS	NS	NS	NS	NS	NS	NS	NS	NS	
80159		Empty Drum	30	Steel Drum	NS	NS	NS	NS	NS	NS	NS	NS	NS	
80160		Empty Drum	30	Steel Drum	NS	NS	NS	NS	NS	NS	NS	NS	NS	
80161		Empty Drum	30	Steel Drum	NS	NS	NS	NS	NS	NS	NS	NS	NS	
80162		Empty Drum	10	Steel Drum	NS	NS	NS	NS	NS	NS	NS	NS	NS	
80163		Empty Drum	30	Steel Drum	NS	NS	NS	NS	NS	NS	NS	NS	NS	
80164		Empty Drum	10	Steel Drum	NS	NS	NS	NS	NS	NS	NS	NS	NS	
80165		Empty Drum	10	Steel Drum	NS	NS	NS	NS	NS	NS	NS	NS	NS	
80166		Empty Drum	30	Steel Drum	NS	NS	NS	NS	NS	NS	NS	NS	NS	
80167		Empty Drum	30	Steel Drum	NS	NS	NS	NS	NS	NS	NS	NS	NS	
80168		Empty Drum	30	Steel Drum	NS	NS	NS	NS	NS	NS	NS	NS	NS	
80169		Empty Drum	30	Steel Drum	NS	NS	NS	NS	NS	NS	NS	NS	NS	
80170		Empty Drum	30	Steel Drum	NS	NS	NS	NS	NS	NS	NS	NS	NS	
80171		Empty Drum	30	Steel Drum	NS	NS	NS	NS	NS	NS	NS	NS	NS	
80172	Lean Organic Mixture	100%Liquid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758802
80173	Lean Organic Mixture	100% Liquid	55	Steel Drum	>140 deg	No	No	No	8	No	No	No	No	AR-758834
80174	Lean Organic Mixture	100% Liquid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758834
80175	Lean Organic Mixture	100% Liquid	55	Steel Drum	>140 deg	No	No	No	8	No	No	No	No	AR-758834
80176	Lean Organic Mixture	100% Liquid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758834
80177	Lean Organic Mixture	100% Liquid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758834
80178	Lean Organic Mixture	100% Liquid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758834
80179	Lean Organic Mixture	100% Liquid	55	Steel Drum	>140 deg	No	No	No	8	No	No	No	No	AR-758834
80180	Lean Organic Mixture	100% Liquid	85	Overpack Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758834
80181	Lean Organic Mixture	100% Liquid	55	Steel Drum	>140 deg	No	No	No	8	No	No	No	No	AR-758834
80182	Lean Organic Mixture	100% Liquid	55	Steel Drum	>140 deg	No	No	No	8	No	No	No	No	AR-758802
80183	Lean Organic Mixture	100% Liquid	55	Steel Drum	>140 deg	No	No	No	8	No	No	No	No	AR-758834
80184	Alkaline Liquid	Clear Liquid	55	Poly Drum	>140 deg	No	No	No	12	No	No	No	No	AR-758826
80185	Alkaline Liquid	Clear Liquid	55	Steel Drum	>140 deg	No	No	No	12	No	No	No	No	AR-758824
80186	Lean Organic Mixture	Merky Liquid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758816
80187	Mixed Solvent	Yellow Liquid	55	Steel Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758816
80188	Mixed Solvent	Yellow Liquid	30	Steel Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758816
80189	Mixed Solvent	Amber Liquid	55	Steel Drum	<140 deg	No	No	No	8	No	No	No	No	AR-758816
80190	Mixed Solvent	Clear Liquid	55	Steel Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758818
80191	Mixed Solvent	Clear Liquid	55	Steel Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758818
80192	Mixed Solvent	Clear Liquid	55	Steel Drum	<140 deg	No	No	No	6	No	No	No	No	AR-758818
80193	Mixed Solvent	Clear Liquid	55	Steel Drum	<140 deg	No	No	No	8	No	No	No	No	AR-758818
80194	Organic Mixture	Black Liquid	55	Steel Drum	>140 deg	No	No	No	8	No	No	No	No	AR-758816
80194-A	Lean Organic Mixture	Brn./Clr. Liquid	55	Poly Drum	>140 deg	No	No	No	6	No	No	No	No	AR-758816
80195	Organic Mixture	Clear Liquid	55	Steel Drum	>140 deg	No	No	No	8	No	No	No	No	AR-758816
80195-A	Lean Organic Mixture	Clear Liquid	55	Poly Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758823
80196	Organic Mixture	Brn/Clr Liquid	55	Steel Drum	>140 deg	No	No	No	5	No	No	No	No	AR-758816
80196-A	Lean Organic Mixture	Clear Liquid	55	Poly Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758834
80197	Lean Organic Mixture	Amber Liquid	20	Steel Drum	>140 deg	No	No	No	8	No	No	No	No	AR-758834
80198	Lean Organic Mixture	Brown Liquid	20	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758834
80199	Lean Organic Mixture	Yellow Liquid	55	Poly Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758834
80200	Lean Organic Mixture	Yellow Liquid	55	Poly Drum	>140 deg	No	No	No	8	No	No	No	No	AR-758834
80201	Lean Organic Mixture	Yellow Liquid	55	Poly Drum	>140 deg	No	No	No	8	No	No	No	No	AR-758834
80202	Lean Organic Mixture	Yellow Liquid	55	Poly Drum	>140 deg	No	No	No	8	No	No	No	No	AR-758834
80203	Lean Organic Mixture	Yellow Liquid	55	Poly Drum	>140 deg	No	No	No	8	No	No	No	No	AR-758834
80204	Lean Organic Mixture	Yellow Liquid	55	Poly Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758837

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Omega Drum Removal - HazCat Log

Drum No.	Waste Description	Physical Description	Container Volume	Container Type	Flammability	Air Reactive	Water Reactive	Water Soluble	pH	Oxidizer	Cyanide	Sulfide	Peroxide	Manifest No.
80205	Lean Organic Mixture	Yellow Liquid	55	Poly Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758834
80206	Lean Organic Mixture	Clear Liquid	55	Poly Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758834
80207	Lean Organic Mixture	Clear Liquid	55	Poly Drum	>140 deg	No	No	No	6	No	No	No	No	AR-758834
80208	Lean Organic Mixture	Yellow Liquid	55	Poly Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758834
80209	Lean Organic Mixture	Yellow Liquid	55	Poly Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758834
80210	Lean Organic Mixture	Yellow Liquid	55	Poly Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758834
80211	Lean Organic Mixture	Clear Liquid	55	Poly Drum	>140 deg	No	No	No	10	No	No	No	No	AR-758834
80212	Lean Organic Mixture	Clear Liquid	55	Poly Drum	>140 deg	No	No	No	10	No	No	No	No	AR-758834
80213	Lean Organic Mixture	Clear Liquid	55	Poly Drum	>140 deg	No	No	No	10	No	No	No	No	AR-758837
80214	Lean Organic Mixture	Clear Liquid	55	Poly Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758834
80215	Lean Organic Mixture	Yellow Liquid	55	Poly Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758834
80216	Lean Organic Mixture	Yellow Liquid	55	Poly Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758834
80217	Lean Organic Mixture	Yellow Liquid	55	Poly Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758834
80218	Lean Organic Mixture	Yellow Liquid	55	Poly Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758834
80219	Lean Organic Mixture	Yellow Liquid	55	Poly Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758834
80220	Lean Organic Mixture	Yellow Liquid	55	Poly Drum	>140 deg	No	No	No	6	No	No	No	No	AR-758834
80221	Lean Organic Mixture	Yellow Liquid	55	Poly Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758834
80222	Lean Organic Mixture	Amber Liquid	55	Poly Drum	>140 deg	No	No	No	2	No	No	No	No	AR-758834
80223	Lean Organic Mixture	Amber Liquid	55	Steel Drum	>140 deg	No	No	No	6	No	No	No	No	AR-758834
80224	Lean Organic Mixture	Clear Liquid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758834
80225	Lean Organic Mixture	Clear Liquid	55	Steel Drum	>140 deg	No	No	No	6	No	No	No	No	AR-758837
80226	Lean Organic Mixture	Clr/Blk Liquid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758834
80227	Lean Organic Mixture	Clear Liquid	55	Poly Drum	>140 deg	No	No	No	6	No	No	No	No	AR-758834
80228	Lean Organic Mixture	Clear Liquid	55	Poly Drum	>140 deg	No	No	No	10	No	No	No	No	AR-758834
80229	Lean Organic Mixture	Clear Liquid	55	Poly Drum	>140 deg	No	No	No	10	No	No	No	No	AR-758834
80230	Lean Organic Mixture	Clear Liquid	55	Poly Drum	>140 deg	No	No	No	10	No	No	No	No	AR-758834
80231	Lean Organic Mixture	Brown Liquid	55	Poly Drum	>140 deg	No	No	No	6	No	No	No	No	AR-758834
80232	Lean Organic Mixture	Clear Liquid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758834
80233	Lean Organic Mixture	Brown Liquid	55	Steel Drum	>140 deg	No	No	No	3	No	No	No	No	AR-758837
80234	Lean Organic Mixture	Green Liquid	30	Poly Drum	>140 deg	No	No	No	12	No	No	No	No	AR-758834
80235	Lean Organic Mixture	Clear Liquid	30	Poly Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758834
80236	Lean Organic Mixture	Clear Liquid	5	Poly Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758834
80237	Lean Organic Mixture	Clear Liquid	55	Poly Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758834
80238	Lean Organic Mixture	Yellow Liquid	55	Poly Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758834
80239	Oxidizing Liquid	Green Liquid	55	Poly Drum	>140 deg	No	No	No	12	Yes	No	No	No	AR-758823
80240	Oxidizing Liquid	Brown Liquid	55	Poly Drum	>140 deg	No	No	No	3	Yes	No	No	No	AR-758823
80241	Oxidizing Liquid	Green Liquid	55	Poly Drum	>140 deg	No	No	No	10	Yes	No	No	No	AR-758823
80242	Oxidizing Liquid	Yellow Liquid	55	Poly Drum	>140 deg	No	No	No	11	Yes	No	No	No	AR-758823
80243	Oxidizing Liquid	Brown Liquid	55	Poly Drum	>140 deg	No	No	No	12	Yes	No	No	No	AR-758823
80244	Oxidizing Liquid	Amber Liquid	55	Poly Drum	>140 deg	No	No	No	12	Yes	No	No	No	AR-758823
80245	Oxidizing Liquid	Green Liquid	55	Poly Drum	>140 deg	No	No	No	13	Yes	No	No	No	AR-758823
80246	Lean Organic Mixture	Pink Liquid	55	Poly Drum	>140 deg	No	No	No	11	Yes	No	No	No	AR-758823
80247	Inorganic Acids	Yellow Liquid	55	Poly Drum	>140 deg	No	No	No	2	No	No	No	No	AR-758826
80248	Lean Organic Acid	Pink Liquid	55	Poly Drum	>140 deg	No	No	No	11	No	No	No	No	AR-758823
80249	Lean Organic Acid	Pink Liquid	55	Poly Drum	>140 deg	No	No	No	11	No	No	No	No	AR-758823
80250	Oxidizing Liquid	Clera Liquid	55	Poly Drum	>140 deg	No	No	No	11	No	No	No	No	AR-758823
80251	Oxidizing Liquid	Yellow Liquid	55	Poly Drum	>140 deg	No	No	No	11	No	No	No	No	AR-758823
80252	Oxidizing Liquid	Green Liquid	55	Poly Drum	>140 deg	No	No	No	11	No	No	No	No	AR-758823
80253	Oxidizing Liquid	Clear Liquid	55	Poly Drum	>140 deg	No	No	No	11	No	No	No	No	AR-758823
80254	Oxidizing Liquid	Pink Liquid	55	Poly Drum	>140 deg	No	No	No	11	No	No	No	No	AR-758823
80255	Oxidizing Liquid	Pink Liquid	55	Poly Drum	>140 deg	No	No	No	11	No	No	No	No	AR-758823

Volumes are in gallons unless otherwise specified. NS = Not sampled.

Omega Drum Removal - HazCat Log

Drum No.	Waste Description	Physical Description	Container Volume	Container Type	Flammability	Air Reactive	Water Reactive	Water Soluble	pH	Oxidizer	Cyanide	Sulfide	Peroxide	Manifest No.
80256	Oxidizing Liquid	Pink Liquid	55	Poly Drum	>140 deg	No	No	No	11	No	No	No	No	AR-758823
80257	Oxidizing Liquid	Green Liquid	30	Poly Drum	>140 deg	No	No	No	8	No	No	No	No	AR-758823
80258	Oxidizing Liquid	Clear Liquid	30	Poly Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758823
80259	Oxidizing Liquid	Green Liquid	55	Poly Drum	>140 deg	No	No	No	12	No	No	No	No	AR-758823
80260	Oxidizing Liquid	Pink Liquid	55	Poly Drum	>140 deg	No	No	No	11	No	No	No	No	AR-758823
80261	Oxidizing Liquid	Pink Liquid	55	Poly Drum	>140 deg	No	No	No	11	No	No	No	No	AR-758823
80262	Oxidizing Liquid	Pink Liquid	55	Poly Drum	>140 deg	No	No	No	12	No	No	No	No	AR-758823
80263	Oxidizing Liquid	Pink Liquid	55	Poly Drum	>140 deg	No	No	No	12	No	No	No	No	AR-758823
80264	Oxidizing Liquid	Brown Liquid	55	Poly Drum	>140 deg	No	No	No	11	No	No	No	No	AR-758823
80265	Absorbent/Soil	Black Solid	85	Overpack Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758825
80266	Oxidizing Liquid	Yellow Liquid	55	Poly Drum	>140 deg	No	No	No	12	No	No	No	No	AR-758823
80267	Oxidizing Liquid	Yellow Liquid	55	Poly Drum	>140 deg	No	No	No	12	No	No	No	No	AR-758823
80268	Oxidizing Liquid	Yellow Liquid	55	Poly Drum	>140 deg	No	No	No	12	No	No	No	No	AR-758823
80269	Oxidizing Liquid	Yellow Liquid	55	Poly Drum	>140 deg	No	No	No	12	No	No	No	No	AR-758823
80270	Lean Organic Mixture	Clear Liquid	55	Poly Drum	>140 deg	No	No	No	9	No	No	No	No	AR-758823
80271	Oxidizing Liquid	Clear Liquid	55	Poly Drum	>140 deg	No	No	No	12	No	No	No	No	AR-758823
80272	Oxidizing Liquid	Clear Liquid	55	Poly Drum	>140 deg	No	No	No	12	No	No	No	No	AR-758823
80273	Alkaline Liquid	Green Liquid	55	Poly Drum	>140 deg	No	No	Yes	13	No	No	No	No	AR-758826
80274	Lean Organic Mixture	Green Liquid	55	Poly Drum	>140 deg	No	No	Yes	7	No	No	No	No	AR-758823
80275	Lean Organic Mixture	Green Liquid	55	Poly Drum	>140 deg	No	No	Yes	10	No	No	No	No	AR-758823
80276	Lean Organic Mixture	Pink Liquid	55	Poly Drum	>140 deg	No	No	No	8	No	No	No	No	AR-758823
80277	Oxidizing Liquid	Green Liquid	55	Poly Drum	>140 deg	No	No	No	9	No	No	No	No	AR-758823
80278	Oxidizing Liquid	Green Liquid	55	Poly Drum	>140 deg	No	No	No	10	No	No	No	No	AR-758823
80279	Oxidizing Liquid	Green Liquid	55	Poly Drum	>140 deg	No	No	No	10	No	No	No	No	AR-758823
80280	Oxidizing Liquid	Green Liquid	55	Poly Drum	>140 deg	No	No	No	10	No	No	No	No	AR-758823
80281	Oxidizing Liquid	Yellow Liquid	30	Poly Drum	>140 deg	No	No	No	11	No	No	No	No	AR-758823
80282	Lean Organic Mixture	Clear Liquid	15	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758823
80283	Lean Organic Mixture	Green Liquid	15	Steel Drum	>140 deg	No	No	No	10	No	No	No	No	AR-758834
80284	Lean Organic Mixture	Clear Liquid	5	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758824
80285	Lean Organic Mixture	Clear Liquid	5	Poly Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758834
80286	Lean Organic Mixture	Yellow Liquid	5	Poly Drum	>140 deg	No	No	No	5	No	No	No	No	AR-758834
80287	Lean Organic Mixture	Clear Liquid	5	Poly Drum	>140 deg	No	No	No	6	No	No	No	No	AR-758834
80288	Lean Organic Mixture	Brown Liquid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758837
80289	Paint, Resin	Brown Sludge	55	Steel Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758825
80290	Lean Organic Mixture	Black Liquid	55	Poly Drum	>140 deg	No	No	No	8	No	No	No	No	AR-758826
80291	Mixed Solvent	Amber Liquid	55	Steel Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758825
80292	Mixed Solvent	Clear Liquid	55	Steel Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758825
80293	Mixed Solvent	Black Liquid	55	Steel Drum	<140 deg	No	No	No	8	No	No	No	No	AR-758825
80294	Mixed Solvent	Clear Liquid	55	Steel Drum	<140 deg	No	No	No	8	No	No	No	No	AR-758825
80295	Mixed Solvent	Clear Liquid	55	Steel Drum	<140 deg	No	No	No	8	No	No	No	No	AR-758825
80296	Lean Organic Mixture	Brown Liquid	55	Steel Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758825
80297	Lean Organic Mixture	Liquid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758825
80298	Organic Mixture	Brown Liquid	55	Steel Drum	>140 deg	No	No	No	8	No	No	No	No	AR-758825
80299	Mixed Solvent	Amber Liquid	55	Steel Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758825
80300	Mixed Solvent	Pink Liquid	55	Steel Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758825
80301	Organic Mixture	Clear Liquid	55	Steel Drum	>140 deg	No	No	No	8	No	No	No	No	AR-758825
80302	Mixed Solvent	Brown Liquid	55	Steel Drum	<140 deg	No	No	No	8	No	No	No	No	AR-758825
80303	Mixed Solvent	Clear Liquid	55	Steel Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758825
80304	Mixed Solvent	Brown Liquid	30	Poly Drum	<140 deg	No	No	No	8	No	No	No	No	AR-758825
80305	Mixed Solvent	Brown Liquid	30	Poly Drum	<140 deg	No	No	No	8	No	No	No	No	AR-758825
80306	Mixed Solvent	Blue Liquid	20	Steel Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758825

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Omega Drum Removal - HazCat Log

Drum No.	Waste Description	Physical Description	Container Volume	Container Type	Flammablilty	Air Reactive	Water Reactive	Water Soluble	pH	Oxidizer	Cyanide	Sulfide	Peroxide	Manifest No.
80307	Mixed Solvent	Amber Liquid	30	Poly Drum	<140 deg	No	No	No	8	No	No	No	No	AR-758825
80308	Organic Mixture	Brown Liquid	20	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758834
80309	Mixed Solvent	Brown Liquid	20	Steel Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758834
80310	Lean Organic Mixture	Clear Liquid	10	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758834
80311	Mixed Solvent	Brown Liquid	10	Steel Drum	<140 deg	No	No	No	8	No	No	No	No	AR-758834
80312	Oxidizing Liquid	Brown Liquid	20	Steel Drum	>140 deg	No	No	No	13	No	No	No	No	AR-758817
80313	Lean Organic Mixture	Brown Liquid	55	Steel Drum	>140 deg	No	No	No	5	No	No	No	No	AR-758825
80314	Organic Acid	Yellow Liquid	30	Poly Drum	<140 deg	No	No	No	2	No	No	No	No	AR-758826
80315	Paint, Resin	Black Sludge	55	Steel Drum	<140 deg	No	No	No	8	No	No	No	No	AR-758825
80316	Mixed Solvent	Brown Liquid	55	Steel Drum	<140 deg	No	No	No	8	No	No	No	No	AR-758821
80317	Paint, Resin	Black Sludge	55	Steel Drum	<140 deg	No	No	No	8	No	No	No	No	AR-758821
80318	Paint, Resin	Black Sludge	55	Steel Drum	<140 deg	No	No	No	8	No	No	No	No	AR-758821
80319	Mixed Solvent	Amber Liquid	55	Steel Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758837
80320	Mixed Solvent	Brown Liquid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758826
80321	Mixed Solvent	Brown Liquid	55	Steel Drum	<140 deg	No	No	No	5	No	No	No	No	AR-758826
80322	Paint, Resin	Brown Sludge	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758825
80323	Paint, Resin	Brown Sludge	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758826
80324	Paint, Resin	Black Solid	55	Steel Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758837
80325	Paint, Resin	Black Solid	55	Steel Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758826
80326	Paint, Resin	Brown Sludge	55	Steel Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758826
80327	Mixed Solvent	Brown Liquid	55	Steel Drum	<140 deg	No	No	No	6	No	No	No	No	AR-758822
80328	Mixed Solvent	Brown Liquid	55	Steel Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758822
80329	Paint, Resin	Brown Sludge	55	Steel Drum	<140 deg	No	No	No	8	No	No	No	No	AR-758826
80330	Paint, Resin	Brown Sludge	55	Steel Drum	<140 deg	No	No	No	8	No	No	No	No	AR-758837
80331	Organic Mixture	Clear Liquid	55	Steel Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758826
80332	Lean Organic Mixture	Black Sludge	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758837
80333	Acid Sludge	Brown Liquid	55	Steel Drum	>140 deg	No	No	No	2	No	No	No	No	AR-758825
80334	Organic Mixture	Amber Liquid	55	Steel Drum	<140 deg	No	No	No	3	No	No	No	No	AR-758825
80335	Organic Mixture	Clear Liquid	55	Steel Drum	>140 deg	No	No	No	8	No	No	No	No	AR-758825
80336	Paint, Resin	Black Sludge	55	Steel Drum	<140 deg	No	No	No	8	No	No	No	No	AR-758826
80337	Mixed Solvent	Amber Liquid	55	Steel Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758826
80338	Paint, Resin	Brown Sludge	55	Steel Drum	<140 deg	No	No	No	8	No	No	No	No	AR-758826
80339	Paint, Resin	Brown Sludge	55	Steel Drum	<140 deg	No	No	No	8	No	No	No	No	AR-758826
80340	Mixed Solvent	Amber Liquid	55	Steel Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758825
80341	Mixed Solvent	Clear Liquid	55	Steel Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758825
80342	Mixed Solvent	Clear Liquid	55	Steel Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758825
80343	Mixed Solvent	Black Liquid	55	Steel Drum	<140 deg	No	No	No	8	No	No	No	No	AR-758825
80344	Mixed Solvent	Brown Liquid	55	Steel Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758825
80345	Lean Organic Mixture	Brown Liquid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758837
80346	Mixed Solvent	Clear Liquid	55	Steel Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758825
80347	Mixed Solvent	Clear Liquid	55	Steel Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758825
80348	Mixed Solvent	Amber Liquid	55	Steel Drum	<140 deg	No	No	No	8	No	No	No	No	AR-758825
80349	Mixed Solvent	Clear Liquid	55	Steel Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758825
80350	Mixed Solvent	Clear Liquid	55	Steel Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758825
80351	Lean Organic Mixture	Amber Liquid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758825
80352	Lean Organic Mixture	Clear Liquid	15	Poly Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758825
80353	Lean Organic Mixture	Clear Liquid	15	Poly Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758825
80354	Mixed Solvent	Clear Liquid	55	Steel Drum	<140 deg	No	No	No	8	No	No	No	No	AR-758826
80355	Mixed Solvent	Clear Liquid	55	Steel Drum	<140 deg	No	No	No	8	No	No	No	No	AR-758825
80356	Mixed Solvent	Clear Liquid	30	Steel Drum	<140 deg	No	No	No	8	No	No	No	No	AR-758826
80357	Mixed Solvent	Brown Liquid	55	Steel Drum	<140 deg	No	No	No	8	No	No	No	No	AR-758825

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Omega Drum Removal - HazCat Log

Drum No.	Waste Description	Physical Description	Container Volume	Container Type	Flammability	Air Reactive	Water Reactive	Water Soluble	pH	Oxidizer	Cyanide	Sulfide	Peroxide	Manifest No.
80358	Mixed Solvent	Brown Liquid	55	Steel Drum	<140 deg	No	No	No	8	No	No	No	No	AR-758825
80359	Mixed Solvent	Amber Liquid	55	Steel Drum	<140 deg	No	No	No	8	No	No	No	No	AR-758825
80360	Mixed Solvent	Amber Liquid	55	Steel Drum	<140 deg	No	No	No	8	No	No	No	No	AR-758825
80361	Mixed Solvent	Amber Liquid	55	Steel Drum	<140 deg	No	No	No	8	No	No	No	No	AR-758825
80362	Mixed Solvent	Amber Liquid	55	Steel Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758826
80363	Mixed Solvent	Amber Liquid	55	Steel Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758825
80364	Mixed Solvent	Amber Liquid	55	Steel Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758826
80365	Mixed Solvent	Amber Liquid	55	Steel Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758825
80366	Mixed Solvent	Amber Liquid	55	Steel Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758825
80367	Empty Drum	No Sample	55	Steel Drum	NS	NS	NS	NS	NS	NS	NS	NS	NS	
80368	Mixed Solvent	Amber Liquid	55	Steel Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758825
80369	Mixed Solvent	Amber Liquid	55	Steel Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758825
80370	Mixed Solvent	Yellow Liquid	55	Steel Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758825
80371	Mixed Solvent	Yellow Liquid	55	Steel Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758825
80372	Empty Drum	No Sample	55	Steel Drum	NS	NS	NS	NS	NS	NS	NS	NS	NS	
80373	Mixed Solvent	Yellow Liquid	55	Steel Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758825
80374	Mixed Solvent	Yellow Liquid	55	Steel Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758825
80375	Mixed Solvent	Yellow Liquid	55	Steel Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758825
80376	Mixed Solvent	Yellow Liquid	55	Steel Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758825
80377	Mixed Solvent	Yellow Liquid	55	Steel Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758824
80378	Mixed Solvent	Brown Sludge	55	Steel Drum	<140 deg	No	No	No	8	No	No	No	No	AR-758824
80379	Mixed Solvent	Brown Liquid	55	Steel Drum	<140 deg	No	No	No	8	No	No	No	No	AR-758824
80380	Mixed Solvent	Amber Liquid	30	Poly Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758825
80381	Mixed Solvent	Green Liquid	20	Steel Drum	<140 deg	No	No	No	8	No	No	No	No	AR-758825
80382	Mixed Solvent	Brown Liquid	30	Steel Drum	<140 deg	No	No	No	8	No	No	No	No	AR-758837
80383	Mixed Solvent	Blue Liquid	20	Steel Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758825
80384	Mixed Solvent	Yellow Liquid	30	Poly Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758825
80385	Mixed Solvent	Brown Liquid	55	Steel Drum	<140 deg	No	No	No	8	No	No	No	No	AR-758834
80386	Mixed Solvent	Brown Liquid	55	Steel Drum	<140 deg	No	No	No	8	No	No	No	No	AR-758826
80387	Mixed Solvent	Brown Liquid	55	Steel Drum	<140 deg	No	No	No	8	No	No	No	No	AR-758834
80388	Mixed Solvent	Brown Liquid	55	Steel Drum	<140 deg	No	No	No	8	No	No	No	No	AR-758826
80389	Mixed Solvent	Brown Liquid	55	Steel Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758823
80390	Mixed Solvent	Amber Liquid	30	Steel Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758825
80391	Mixed Solvent	Amber Liquid	30	Steel Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758825
80392	Mixed Solvent	Brown Liquid	30	Steel Drum	<140 deg	No	No	No	8	No	No	No	No	AR-758825
80393	Mixed Solvent	Amber Liquid	30	Steel Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758825
80394	Mixed Solvent	Blk/Wht Liquid	30	Steel Drum	<140 deg	No	No	No	8	No	No	No	No	AR-758825
80395	Mixed Solvent	Amber Liquid	30	Steel Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758825
80396	Mixed Solvent	Brown Liquid	30	Steel Drum	<140 deg	No	No	No	8	No	No	No	No	AR-758837
80397	Mixed Solvent	Amber Liquid	30	Steel Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758837
80398	Mixed Solvent	Black Liquid	30	Steel Drum	<140 deg	No	No	No	8	No	No	No	No	AR-758837
80399	Mixed Solvent	Amber Liquid	30	Steel Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758837
80400	Mixed Solvent	Brown Sludge	30	Steel Drum	<140 deg	No	No	No	8	No	No	No	No	AR-758826
80401	Mixed Solvent	Amber Liquid	30	Steel Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758837
80402	Mixed Solvent	Amber Liquid	30	Steel Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758826
80403	Mixed Solvent	Amber Liquid	30	Steel Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758826
80404	Mixed Solvent	Amber Liquid	30	Steel Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758826
80405	Mixed Solvent	Liquid	30	Steel Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758825
80406	Mixed Solvent	Brown Liquid	30	Steel Drum	<140 deg	No	No	No	8	No	No	No	No	AR-758825
80407	Mixed Solvent	Beige Liquid	30	Steel Drum	<140 deg	No	No	No	6	No	No	No	No	AR-758825
80408	Mixed Solvent	Beige Liquid	30	Steel Drum	<140 deg	No	No	No	6	No	No	No	No	AR-758825

Volumes are in gallons unless otherwise specified. NS = Not sampled.

Omega Drum Removal - HazCat Log

Drum No.	Waste Description	Physical Description	Container Volume	Container Type	Flammablility	Air Reactive	Water Reactive	Water Soluble	pH	Oxidizer	Cyanide	Sulfide	Peroxide	Manifest No.
80409	Mixed Solvent	Brown Liquid	55	Steel Drum	<140 deg	No	No	No	9	No	No	No	No	AR-758826
80410	Mixed Solvent	Brown Liquid	55	Steel Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758826
80411	Mixed Solvent	Brown Liquid	55	Steel Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758837
80412	Mixed Solvent	Brown Liquid	55	Steel Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758826
80413	Repack Org to 55 gal	Black Liquid	350	Tank	>140 deg	No	No	No	7	No	No	No	No	AR-758844
80414	Repack Org to 55 gal	Black Solid	350	Tank	>140 deg	No	No	No	7	No	No	No	No	AR-758844
80415	Lean Organic Mixture	Brn/Clr Liquid	55	Poly Drum	>140 deg	No	No	No	10	No	No	No	No	AR-758822
80730	Mixed Solvent	Clear Liquid	55	Poly Drum	<140 deg	No	No	No	7	No	No	No	No	AR-757882
81000	Alkaline Liquid	0% Solid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758826
81001	Lean Organic Mixture	0% Solid	30	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758826
81002	Mixed Solvent	0% Solid	55	Steel Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758826
81003	Mixed Solvent	0% Solid	30	Steel Drum	<140 deg	No	No	No	7	No	No	No	No	AR-758834
81004	Debris, Rags, Filters	100% Solid	55	Steel Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758826
81005	Lean Organic Mixture	5% Solid	30	Poly Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758826
81006	Lean Organic Mixture	5% Solid	55	Poly Drum	>140 deg	No	No	No	7	No	No	No	No	AR-758826
87000	Lean Organic Mixture	Clear Liquid	20	Poly Drum	No	No	No	No	7	No	No	No	No	AR-757882
87001	Lean Organic Mixture	Clear Liquid	20	Poly Drum	No	No	No	No	7	No	No	No	No	AR-757882
87002	Lean Organic Mixture	Clear Liquid	20	Poly Drum	Yes	No	No	No	7	No	No	No	No	AR-757882
87003	Lean Organic Mixture	Clear Liquid	20	Poly Drum	Yes	No	No	No	7	No	No	No	No	AR-757882
87004	Lean Organic Mixture	Liquid	5	Poly Drum	No	No	No	No	7	No	No	No	No	AR-757882
87005		Empty Drum	5	Poly Drum	NS	NS	NS	NS	NS	NS	NS	NS	NS	
87006	Lean Organic Mixture	Clear Liquid	5	Poly Drum	Yes	No	No	No	7	No	No	No	No	AR-757882
87007	Lean Organic Mixture	Clear Liquid	5	Poly Drum	Yes	No	No	No	7	No	No	No	No	AR-757882
87008	Lean Organic Mixture	Liquid	5	Poly Drum	Yes	No	No	No	7	No	No	No	No	AR-757882
87009	Lean Organic Mixture	Clear Liquid	5	Poly Drum	No	No	No	No	7	No	No	No	No	AR-757882
87010	Lean Organic Mixture	Clear Liquid	5	Poly Drum	No	No	No	No	7	No	No	No	No	AR-757882
87011	Lean Organic Mixture	Clear Liquid	5	Poly Drum	No	No	No	No	7	No	No	No	No	AR-757882
87012	Lean Organic Mixture	Clear Liquid	5	Poly Drum	No	No	No	No	7	No	No	No	No	AR-757882
87013	Lean Organic Mixture	Clear Liquid	5	Poly Drum	No	No	No	No	7	No	No	No	No	AR-757882
87014	Lean Organic Mixture	Clear Liquid	5	Poly Drum	No	No	No	No	7	No	No	No	No	AR-757882
87015	Lean Organic Mixture	Clear Liquid	5	Poly Drum	No	No	No	No	7	No	No	No	No	AR-757882
87016	Lean Organic Mixture	Clear Liquid	5	Poly Drum	No	No	No	No	7	No	No	No	No	AR-757882
87017	Lean Organic Mixture	Clear Liquid	5	Poly Drum	No	No	No	No	7	No	No	No	No	AR-757882
87018		Empty Drum	5	Poly Drum	NS	NS	NS	NS	NS	NS	NS	NS	NS	
87019	Lean Organic Mixture	Clear Liquid	5	Poly Drum	No	No	No	No	7	No	No	No	No	AR-757882
87020	Lean Organic Mixture	Clear Liquid	20	Poly Drum	No	No	No	No	7	No	No	No	No	AR-757882
87021	Lean Organic Mixture	Clear Liquid	20	Poly Drum	No	No	No	No	7	No	No	No	No	AR-757882
87022	Lean Organic Mixture	Clear Liquid	20	Poly Drum	No	No	No	No	7	No	No	No	No	AR-757882
87023	Lean Organic Mixture	Clear Liquid	20	Poly Drum	No	No	No	No	7	No	No	No	No	AR-757882
87024	Lean Organic Mixture	Clear Liquid	20	Poly Drum	No	No	No	No	7	No	No	No	No	AR-757882
87025		Empty Drum	20	Poly Drum	NS	NS	NS	NS	NS	NS	NS	NS	NS	
87026	Lean Organic Mixture	Clear Liquid	20	Poly Drum	No	No	No	No	7	No	No	No	No	AR-757882
87027	Lean Organic Mixture	Clear Liquid	20	Poly Drum	No	No	No	No	7	No	No	No	No	AR-757882
87028	Lean Organic Mixture	Clear Liquid	20	Poly Drum	No	No	No	No	7	No	No	No	No	AR-757882
87029	Mixed Solvent	Clear Liquid	30	Poly Drum	<140 deg	No	No	No	7	No	No	No	No	AR-757882
87031	Mixed Solvent	Clear Liquid	30	Poly Drum	<140 deg	No	No	No	7	No	No	No	No	AR-757882
87032	Absorbent/Soil	White Solid	55	Steel Drum	No	No	No	No	7	No	No	No	No	AR-757882
87033	Absorbent/Soil	Brown Solid	5	Container	No	No	No	No	7	No	No	No	No	AR-757882
87034	Mixed Solvent	Clear Liquid	30	Poly Drum	<140 deg	No	No	No	7	No	No	No	No	AR-757882
87035	Mixed Solvent	Clear Liquid	30	Poly Drum	<140 deg	No	No	No	7	No	No	No	No	AR-757882
87036	Mixed Solvent	Clear Liquid	30	Poly Drum	<140 deg	No	No	No	7	No	No	No	No	AR-757882

Volumes are in gallons unless otherwise specified. NS = Not sampled.

Omega Drum Removal - HazCat Log

Drum No.	Waste Description	Physical Description	Container Volume	Container Type	Flammability	Air Reactive	Water Reactive	Water Soluble	pH	Oxidizer	Cyanide	Sulfide	Peroxide	Manifest No.
87037	Mixed Solvent	Clear Liquid	30	Poly Drum	<140 deg	No	No	No	7	No	No	No	No	AR-757882
87038		Green Powder	5	Poly Drum	No	No	No	Yes	14	No	No	No	No	
87039		Blue Liquid	7	Poly Drum	No	No	No	Yes	10	No	No	No	No	
87040		White Liquid	5	Poly Drum	<140 deg	No	No	No	7	No	No	No	No	
87041		Grey Liquid	1 quart	Container	<140 deg	No	No	No	7	No	No	No	No	
87042		White Liquid	1	Container	>140 deg	No	No	No	7	No	No	No	No	
87043		Pink Liquid	1	Container	>140 deg	No	No	No	7	No	No	No	No	
87044		Red Liquid	1	Container	<140 deg	No	No	Yes	7	No	No	No	No	
87045	Lab Pack	Tan Liquid	1	Container	>140 deg	No	No	Yes	7	No	No	No	No	
87046	Lab Pack	White Liquid	1	Steel Drum	>140 deg	No	No	Yes	7	No	No	No	No	
87047	Lab Pack	Red Liquid	1	Container	>140 deg	No	No	No	7	No	No	No	No	
87048	Lab Pack	Tan Liquid	1	Container	>140 deg	No	No	No	7	No	No	No	No	
87049		Empty Drum	1	Container	NS	NS	NS	NS	NS	NS	NS	NS	NS	
87050	Lab Pack	Tan Liquid	5	Poly Drum	>140 deg	No	No	Yes	7	No	No	No	No	
87051	Lab Pack	Red Liquid	5	Poly Drum	>140 deg	No	No	No	7	No	No	No	No	
87052	Lab Pack	Tan Liquid	5	Poly Drum	>140 deg	No	No	No	7	No	No	No	No	
87053	Lab Pack	Amber Liquid	2.5	Container	<140 deg	No	No	No	7	No	No	No	No	
87054	Lab Pack	Clear Liquid	5	Poly Drum	No	No	No	Yes	7	No	No	No	No	
87055	Lab Pack	Tan Solid	5	Poly Drum	>140 deg	No	No	No	7	No	No	No	No	
87056	Lab Pack	Clear Liquid	5	Poly Drum	No	No	No	Yes	7	No	No	No	No	
87057	Lab Pack	Tan Liquid	5	Poly Drum	No	No	No	Yes	7	No	No	No	No	

Volumes are in gallons unless otherwise specified. NS = Not sampled.

APPENDIX C
EPA AND CA ID NUMBERS

Please print or type with ELITE type (12 characters per inch) in the unshaded areas only

Please refer to the *Instructions for Filling Notification* before completing this form. The information requested here is required by law (Section 3010 of the *Resource Conservation and Recovery Act*).

Notification of Regulated Waste Activity

United States Environmental Protection Agency

Date Received (For Official Use Only)

I. Installation's EPA ID Number *(Mark 'X' in the appropriate box)*

[X] A. First Notification [ ] B. Subsequent Notification *(Complete item C)*

C. Installation's EPA ID Number

II. Name of Installation *(Include company and specific site name)*

OMEGA CHEMICAL SITE PRP ORG GP

III. Location of Installation *(Physical address not P.O. Box or Route Number)*

Street: 12504 EAST WHITTIER BOULEVARD

Street (Continued):

City or Town: WHITTIER | State: CA | Zip Code: 90602-

County Code: 037 | County Name: LOS ANGELES

IV. Installation Mailing Address *(See Instructions)*

Street or P.O. Box: 901 CORPORATE CENTER DRIVE

City or Town: MONTEREY PARK | State: CA | Zip Code: 91756-

V. Installation Contact *(Person to be contacted regarding waste activities at site)*

Name (Last): WEBSTER | (First): IAN

Job Title: SR SUPERFUND PM | Phone Number (Area Code and Number): 213-977-6382

VI. Installation Contact Address *(See Instructions)*

A. Contract Address Location [ ] Mailing [X] Other [ ] | B. Street or P.O. Box:

City or Town: | State: | Zip Code: -

VII. Ownership *(See Instructions)*

A. Name of Installation's Legal Owner: DENNIS OMEARA

Street, P.O. Box, or Route Number: 12504 EAST WHITTIER BOULEVARD

City or Town: WHITTIER | State: CA | Zip Code: 90602-

Phone Number (Area Code and Number)	B. Land Type	C. Owner Type	D. Change of Owner Indicator	(Date Changed) Month / Day / Year
310-698-0991	P	P	Yes [ ] No [ ]	

EPA Form 8700-12 (Rev. 11-30-93) Previous edition is obsolete.

Continued on Reverse

PROVISIONAL

Please print or type with ELITE type (12 characters per inch) in the unshaded areas only

Form Approved, OMB No. 2050-0028 Expires 9-30-9
GSA No. 0246-EPA-07

PROVISIONAL

ID - For Official Use Only

VIII. Type of Regulated Waste Activity *(Mark 'X' in the appropriate boxes; Refer to Instructions)*

A. Hazardous Waste Activity

1. Generator (See Instructions)
   - [X] a. Greater than 1000kg/mo (2,200 lbs.)
   - [ ] b. 100 to 1000 kg/mo (200-2,200 lbs.)
   - [ ] c. Less than 100 kg/mo (220 lbs)
2. Transporter (Indicate Mode in boxes 1-5 below)
   - [ ] a. For own waste only
   - [ ] b. For commercial purposes

Mode of Transportation
- [ ] 1. Air
- [ ] 2. Rail
- [ ] 3. Highway
- [ ] 4. Water
- [ ] 5. Other - specify

3. [ ] Treater, Storer, Disposer (at installation) Note: A permit is required for this activity; see instructions.
4. Hazardous Waste Fuel
   - [ ] a. Generator Marketing to Burner
   - [ ] b. Other Marketers
   - [ ] c. Boiler and/or Industrial Furnace
     - [ ] 1. Smelter Deferral
     - [ ] 2. Small Quantity Exemption

Indicate Type of Combustion Device(s)
- [ ] 1. Utility Boiler
- [ ] 2. Industrial Boiler
- [ ] 3. Industrial Furnace

5. [ ] Underground Injection Control

B. Used Oil Recycling Activities

1. Used Oil Fuel Marketer
   - [ ] a. Marketer Directs Shipment of Used Oil to Off-Specification Burner
   - [ ] b. Marketer Who First Claims the Used Oil Meets the Specifications
2. Used Oil Burner - Indicate Type(s) of Combustion Device(s)
   - [ ] a. Utility Boiler
   - [ ] b. Industrial Boiler
   - [ ] c. Industrial Furnace
3. Used Oil Transporter - Indicate Type(s) of Activity(ies)
   - [ ] a. Transporter
   - [ ] b. Transfer Facility
4. Used Oil Processor/Re-refiner - Indicate Type(s) of Activity(ies)
   - [ ] a. Process
   - [ ] b. Re-refine

IX. Description of Hazardous Wastes *(Use additional sheets if necessary)*

A. Characteristics of Nonlisted Hazardous Wastes. *(Mark 'X' in the boxes corresponding to the characteristics of nonlisted hazardous wastes your installation handles; See 40 CFR Parts 261.20 - 261.24)*

1. Ignitable (D001)	2. Corrosive (D002)	3. Reactive (D003)	4. Toxicity Characteristic	(List specific EPA hazardous waste number(s) for the Toxicity characteristic contaminant(s))
X	X	X	X	

B. Listed Hazardous Wastes. *(See 40 CFR 261.31 - 33; See instructions if you need to list more than 12 waste codes.)*

1	2	3	4	5	6
7	8	9	10	11	12

C. Other Wastes. *(State or other wastes requiring a handler to have an I.D. number; See instructions.)*

1	2	3	4	5	6

X. Certification

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Signature	Name and Official Title *(Type or print)*	Date Signed
ON BEHALF OF THE OMEGA CHEMICAL SITE PRP ORGANIZED GROUP	ANDREW KELLER	6/30/95

XI. Comments

SEE ATTACHED SHEET FOR LIST OF HAZARDOUS WASTES BY CODE.

Note: Mail completed form to the appropriate EPA Regional or State Office. *(See Section III of the booklet for addresses.)*

IX. DESCRIPTION OF HAZARDOUS WASTES

D001	F001	K001	K052	P001
D002	F002	K002	K062	P002
D003	F003	K003	K083	P003
D004	F004	K004	K084	P004
D005	F005	K005	K085	P005
D006	F007	K006	K086	P006
D007	F008	K007	K094	P007
D008	F010	K008	K095	P008
D009	F011	K009	K096	P009
D010	F020	K010	K097	P010
D011	F022	K011	K098	P011
D012	F027	K012	K101	P012
D013	F028	K013	K103	P013
D014		K014	K104	P014
D015		K015	K105	P015
D016		K016		P016
D017		K017		P017
D018		K018		P018
D019		K019		P019
D020		K020		P020
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D035		K029		P029
D037		K030		P030
D038		K031		P031
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D040		K033		P033
D043		K034		P034
		K035		P035
		K036		P036
		K037		P037
		K038		P038
		K039		P039
		K040		P040
		K041		P041
		K042		P042
		K043		P043
		K048		P044
		K049		P045
		K050		P046
		K051		P047

IX. DESCRIPTION OF HAZARDOUS WASTES

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(All P-series wastes)

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IX. DESCRIPTION OF HAZARDOUS WASTES

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(All U-series wastes)

STATE OF CALIFORNIA

STATE BOARD OF EQUALIZATION
[redacted] STREET, SACRAMENTO, CALIFORNIA
[redacted] BOX 942879, SACRAMENTO, CALIFORNIA 94279-0001
Telephone (916) 445-8184

JOHAN KLEHS
First District, Hayward

DEAN F.ANDAL
Second District, Stockton

ERNEST J. DRONENBURG, JR.
Third District, San Diego

BRAD SHERMAN
Fourth District, Los Angeles

KATHLEEN CONNELL
Controller, Sacramento

BURTON W. OLIVER
Executive Director

July 7, 1995

OMEGA CHEMICAL SITE/PRP ORG GP
ATTN: STEPHANIE BASON
3 HUTTON CENTER DR STE 300
SANTA ANA, CA 92707

Account No.: HA HQ 36-054695
Site Address: 12504 E WHITTIER BLVD
WHITTIER, CA 90602

EPA No.: CAD042245001

Dear Ladies and Gentlemen:

The Hazardous Waste Tax Account Number listed above has been assigned pursuant to your recent telephone call to this office. This account number is used when completing Section B, "State Generators ID", on your California Uniform Hazardous Waste Manifest and informs the disposal facility that you will be paying the disposal fees directly to the Board. If there are any errors on the above account, please make the necessary corrections and notify us by copy of this letter.

Attached is an informational notice and applicable rates for the Hazardous Substances Tax Program.

If you have any returns/schedules due or overdue, they are enclosed with this letter. They should be completed and mailed back to this office within fifteen days. Otherwise, they will be sent to you according to the schedule on the attached insert. These forms will include further instructions which will aid you in their completion. When you are no longer generating or disposing of hazardous waste, please notify us so that your account can be closed.

Please keep this letter for your records as confirmation of registration. If you have any questions, please contact us.

Sincerely,

Melissa Garcia
Tax Tech II
Environmental Fees Division

Enclosure

82546

EO-93-039-MM

STATE OF CALIFORNIA

STATE BOARD OF EQUALIZATION

450 N STREET, SACRAMENTO, CALIFORNIA
(P.O. BOX 942879, SACRAMENTO, CALIFORNIA 94279-0001)

MEMBERS
First District
BRAD SHERMAN
Second District, Los Angeles
ERNEST J. DRONENBURG JR.
Third District, San Diego
MATTHEW K. FONG
Fourth District, Los Angeles
GRAY DAVIS
Controller, Sacramento
BURTON W. OLIVER
Executive Director

Notice to Producers and Transporters of Extremely Hazardous Waste

For periods prior to January 1, 1994, Section 25205.7 of the Health and Safety Code provides for an activity fee to be paid each time a permit or permit modification to manage Extremely Hazardous Waste is obtained.

For periods after January 1, 1994, a single calendar year fee applies to any person *producing* or *transporting* Extremely Hazardous Waste. The fee for calendar year 1994 is $235.00 and is payable to the Board of Equalization. This fee should be paid prior to producing or transporting Extremely Hazardous Waste.

If you anticipate producing or transporting Extremely Hazardous Waste during the 1994 calendar year, please complete the bottom portion of this notice and attach it to the enclosed tax return. Upon receipt of your notification, the Board will issue a billing for the fee.

Any questions should be directed to the Environmental Fees Division, P.O. Box 942879, MIC:57, Sacramento, California 94279-0001, telephone number (916) 322-9534.

I anticipate producing or transporting Extremely Hazardous Waste during the 1994 Calendar year.

Account Number HA HQ 36-054695

Signature Andrew Keller EMPLOYED BY HLA, AGENT FOR OMEGA SITE PRP GROUP Date 8/18/95

Title ASSOCIATE ENVIRONMENTAL SCIENTIST

Telephone Number (714) 556-7992

(11-93)

APPENDIX D

WEEKLY PROGRESS REPORTS

June 30, 1995

32026

Richard Wm. Martyn
Federal On-Scene Coordinator
Emergency Response (H-8-3)
US Environmental Protection Agency
75 Hawthorne Street
San Francisco, California 94105-3901

Weekly Progress Report No. 1
Omega Chemical Facility
12504 East Whittier Boulevard
Whittier, California

Dear Mr. Martyn:

Below please find *Weekly Progress Report No. 1* for the Omega Chemical site.

- **Percentage of Project Completed**
  - Less than 2 percent
- **Summary of Work Performed**
  - Mobilized to site
  - Cleaned and repaired office and bathroom facilities
  - Conducted initial health and safety briefing
  - Established support, contamination reduction and exclusion zones
  - Completed removal of poly drums from stakebed truck
  - Completed 80 percent removal of freon drums from semi-trailer
  - Overpacked 2 leaking drums
- **Changes in Drum Removal Action**
  - Initiated labpack of chemicals in laboratory
- **Summary of Community Interest Groups and Agency Contacts**
  - Articles in the Whittier Daily News 6/28/95 and 6/30/95
  - News segment KABC News 6/28/95
  - Fielded call from Cal-Air (neighboring property) to discuss news media crews in front of business
  - Ian Webster interacted with Richard Martyn on various issues
- **Potential Problem Areas**
  - Standing water in low points of storage pads
  - Site Access at 4:15 AM to start DRA before the heat of the day

- Over zealous "interference" by Omega representatives

- **Actions to be Taken**

  - Water samples obtained from standing water and are currently being analyzed for volatile and semi-volatile organics and CAM Metals

- **Changes in Personnel**

  - None

- **Projected Work for Next Reporting Period** (July 3, 5-7, 1995)

  - Trucks to be removed from site
  - Initiate crushing of empty drums
  - Remove standing water
  - Initiate HazCat and shipment of full drums
  - Upgrade communication equipment (install separate phone and FAX lines for DRA)
  - No work scheduled for July 4, 1995

- **Inspection Reports**

  - None

If you have any questions, please contact either of the undersigned.

Yours very truly,

HARDING LAWSON ASSOCIATES

Ian A. Webster, Sc.D.
Omega PRPs Project Coordinator

p:\sb\omega\wkrpt1.ltr

cc: Michael K. Schwennesen

July 7, 1995

32026

Richard Wm. Martyn
Federal On-Scene Coordinator
Emergency Response (H-8-3)
US Environmental Protection Agency
75 Hawthorne Street
San Francisco, California 94105-3901

Weekly Progress Report No. 2
Omega Chemical Facility
12504 East Whittier Boulevard
Whittier, California

Dear Mr. Martyn:

Below please find *Weekly Progress Report No. 2* for the Omega Chemical site.

- **Percentage of Project Completed**
  - Less then 10 percent
- **Summary of Work Performed**
  - 550 empty drums staged for crushing
  - Drum crushing started (approximately 55)
  - Omega vehicles offloaded and offsite
  - Former Omega laboratory chemicals lab packed
  - Started Hazcat on full drums (approximately 75)
- **Changes in Drum Removal Action**
  - Integrity of drum seals jeopardized when drum ring removed
  - Approximately 50 percent of drums are currently requiring overpacking
- **Summary of Community Interest Groups and Agency Contacts**
  - Site visit by Whittier Daily News July 7, 1995, in the morning
  - O'Meara denied site access
  - Webster/Coffeey talk offsite with reporter
- **Potential Problem Areas**
  - Potential heat related injuries to workers
  - Experiencing approximately 2 leaking drums per day

- **Actions to be Taken**

  - Canopies have been erected outside to shade workers. Other engineering controls will be initiated as needed.

- **Changes in Personnel**

  - None

- **Projected Work for Next Reporting Period**

  - Bins with crushed empties to be transported and disposed

- **Inspection Reports**

  - HLA heath and safety support team identified a limited number of items to be improved upon. These items will be incorporated into the health and safety plan.

If you have any questions, please contact either of the undersigned.

Yours very truly,

HARDING LAWSON ASSOCIATES

Ian A. Webster, Sc.D.
Omega PRPs Project Coordinator

p:\sb\omega\wkrpt2.ltr

cc: Michael K. Schwennesen

Printed on Recycled Paper.

July 14, 1995

32026

Richard Wm. Martyn
Federal On-Scene Coordinator
Emergency Response (H-8-3)
US Environmental Protection Agency
75 Hawthorne Street
San Francisco, California 94105-3901

Weekly Progress Report No .3
Omega Chemical Facility
12504 East Whittier Boulevard
Whittier, California

Dear Mr. Martyn:

Below please find *Weekly Progress Report No. 3* for the Omega Chemical site.

- **Percentage of Project Completed**
  - Less than 15 percent
- **Summary of Work Performed**
  - 650 empty drums characterized
  - Over 300 empty drums crushed
  - 5000 gallons of contaminated water removed
  - 500 drums HazCatted
  - 63 drums shipped (overpacked)
  - 20 cubic yards of crushed drums shipped
- **Changes in Remedial Design/Remedial Action**
  - Two 55 gallons labpaks containing organic peroxides encountered
  - Special handling to be initiated
- **Summary of Community Interest Groups and Agency Contacts**
  - Continuing good dialog with the EPA
  - EPA On Scene Coordinator inspected site
- **Potential Problem Areas**
  - Changing work hours to night shift, potential visibility problems until crews adjust to night work
  - Disposal of organic peroxide drums

- **Actions to be Taken**
  - Unnecessary areas to be delineated as "no entry" during night work
- **Changes in Personnel**
  - None
- **Projected Work for Next Reporting Period**
  - Work scheduled for all 5 days
  - Standard work schedule 1:30am to 9:30am
  - Complete drum crushing
  - Continue drum removal
  - Remove water from additional vessels/tanks
- **Inspection Reports**
  - EPA requested Emergency Medical Technician onsite
  - EPA requested security guard onsite during non working hours

If you have any questions, please contact either of the undersigned.

Yours very truly,

HARDING LAWSON ASSOCIATES

Ian A. Webster, Sc.D.
Omega PRPs Project Coordinator

p:\sb\omega\wkrpt3ltr

cc: Michael K. Schwennesen

Printed on Recycled Paper.

July 21, 1995

32026

Richard Wm. Martyn
Federal On-Scene Coordinator
Emergency Response (H-8-3)
US Environmental Protection Agency
75 Hawthorne Street
San Francisco, California 94105-3901

Weekly Progress Report No .4
Omega Chemical Facility
12504 East Whittier Boulevard
Whittier, California

Dear Mr. Martyn:

Below please find *Weekly Progress Report No. 4* for the Omega Chemical site.

- **Percentage of Project Completed**
  - Less than 25 percent
- **Summary of Work Performed**
  - 400 drums offsite this week.
  - 750 empty drums identified to date.
  - Conversion to night work complete. Heat related stress greatly reduced.
  - 1,050 drums characterized to date.
  - 40 cubic yards of crushed drums (600 total) shipped to date.
  - Five 5,000-gallon ASTs sampled and profiled.
- **Changes in Remedial Design/Remedial Action**
  - 3 nonconforming drums identified this week.
  - 5 total nonconforming drums to date.
  - Former Omega refrigerant cylinders to be evaluated by owner for removal.
- **Summary of Community Interest Groups and Agency Contacts**
  - EPA On Scene Coordinator onsite 7/18 - 7/19.
  - John Jards (EPA) visited site 7/19.

- **Potential Problem Areas**
  - 50% - 60% of drums require overpacking.
- **Actions to be Taken**
  - Drums will continue to be overpacked as necessary.
- **Changes in Personnel**
  - None
- **Projected Work for Next Reporting Period**
  - 600 drums to be sampled and characterized.
  - 600 drums shipped offsite.
- **Inspection Reports**
  - None

If you have any questions, please contact either of the undersigned.

Yours very truly,

HARDING LAWSON ASSOCIATES

Ian A. Webster, Sc.D.
Omega PRPs Project Coordinator

p:\sb\omega\wkrpt4tr

cc: Michael K. Schwennesen

Printed on Recycled Paper.

July 28, 1995

32026

Richard Wm. Martyn
Federal On-Scene Coordinator
Emergency Response (H-8-3)
US Environmental Protection Agency
75 Hawthorne Street
San Francisco, California 94105-3901

Weekly Progress Report No. 5
Omega Chemical Facility
12504 East Whittier Boulevard
Whittier, California

Dear Mr. Martyn:

Below please find *Weekly Progress Report No. 5* for the Omega Chemical site.

- **Percentage of Project Completed**
  - 35 percent
- **Summary of Work Performed**
  - 550 drums offsite this week.
  - 950 drums offsite to date.
- **Changes in Remedial Design/Remedial Action**
  - Seven non-conforming drums encountered this week. Drums consisted of unknown lab packed material.
  - Twelve non-conforming drums to date.
  - Non-conforming drums will be numbered, segregated, investigated and disposed of after the majority of the drums are offsite.
- **Summary of Community Interest Groups and Agency Contacts**
  - L.A. County Fire Department - Whittier Station (Capt. Andrade) visited the site Wednesday, July 26, 1995. The site visit was permitted by Omega personnel and occurred after working hours (1:30 P.M.).
- **Potential Problem Areas**
  - None

- **Actions to be Taken**
  - None
- **Changes in Personnel**
  - Two project chemists and various tech/labor personnel have been replaced due to personal conflicts with working nights.
- **Projected Work for Next Reporting Period**
  - 600 drums offsite.
- **Inspection Reports**
  - None

If you have any questions, please contact either of the undersigned.

Yours very truly,

HARDING LAWSON ASSOCIATES

Ian A. Webster, Sc.D.
Omega PRPs Project Coordinator

Doug Alvy
Construction Manager

p:\sb\omega\wkrpt5tr

cc: Michael K. Schwennesen

Printed on Recycled Paper.

August 4, 1995

32026

Richard Wm. Martyn
Federal On-Scene Coordinator
Emergency Response (H-8-3)
US Environmental Protection Agency
75 Hawthorne Street
San Francisco, California 94105-3901

Weekly Progress Report No. 6
Omega Chemical Facility
12504 East Whittier Boulevard
Whittier, California

Dear Mr. Martyn:

Below please find *Weekly Progress Report No. 6* for the Omega Chemical site.

- **Percentage of Project Completed**
  - 50 percent
- **Summary of Work Performed**
  - 538 drums offsite this week.
  - 1,489 drums offsite to date.
  - Approximately 600 drums sampled this week.
  - Approximately 2,600 drums sampled to date.
- **Changes in Remedial Design/Remedial Action**
  - Fifteen non-conforming drums encountered this week. Drums consisted primarily of unknown laboratory packed material.
  - Twenty seven non-conforming drums to date.
  - Non-conforming drums will be numbered, segregated, investigated and disposed of after the majority of the drums are offsite.
- **Summary of Community Interest Groups and Agency Contacts**
  - Rich Martyn, USEPA onsite Wednesday, August 2 and Thursday, August 3.

- **Potential Problem Areas**

  - Dennis O'mera believes the refrigerant and other cylinders in the warehouse are his property and not part of the DRA. He was very disturbed and agitated and stated there "would be problems" if we removed the cylinders.

- **Actions to be Taken**

  - Continued communication with the USEPA and the project coordinator to further clarify this situation with Mr. O'mera.

- **Changes in Personnel**

  - None.

- **Projected Work for Next Reporting Period**

  - Goals of 600 drums offsite.
  - Start pumping of residual liquids in remaining tanks.
  - Start tank cleaning.
  - Delineate scope of DRA in Warehouse per EPA/Project Coordinator discussions
  - Perform Detailed warehouse inventory of cylinders

- **Inspection Reports**

  - None

If you have any questions, please contact either of the undersigned.

Yours very truly,

HARDING LAWSON ASSOCIATES

Ian A. Webster, Sc.D.
Project Coordinator

p:\eb\omega\wlrpt6r

cc: Michael K. Schwennesen

August 11, 1995

32026

Richard Wm. Martyn
Federal On-Scene Coordinator
Emergency Response (H-8-3)
US Environmental Protection Agency
75 Hawthorne Street
San Francisco, California 94105-3901

Weekly Progress Report No .7
Omega Chemical Facility
12504 East Whittier Boulevard
Whittier, California

Dear Mr. Martyn:

Below please find *Weekly Progress Report No. 7* for the Omega Chemical site.

- **Percentage of Project Completed**
  - 70 percent
- **Summary of Work Performed**
  - 626 drums offsite this week
  - 2,114 drums offsite to date
  - Over 4,000 gallons of vessel water and decontamination rinsate removed from site
- **Changes in Remedial Design/Remedial Action**
  - None
- **Summary of Community Interest Groups and Agency Contacts**
  - Concerned citizen (no name given) on site Thursday 8/10 1:45am inquired about the noise. He was given perimeter walk and was informed of site activities.
  - Site activities will be modified with deliveries that occur at night rescheduled to normal working hours.
- **Potential Problem Areas**
  - Resolution of compressed gas cylinders with refrigerants may delay schedule for approximately two weeks. Schedule extension request will be formally submitted to OSC by Project Coordinator.

- **Actions to be Taken**
  - A draft cylinder management work plan is currently being prepared. When approved by Project Coordinator, HLA will sample the cylinders and determine what is viable product and what is waste.
- **Changes in Personnel**
  - Additional technicians on site to pressure wash miscellaneous vessels and tanks.
- **Projected Work for Next Reporting Period**
  - The remainder of the outside drums are anticipated to be removed. Non-conforming drum investigation, sampling, lab packing ad disposal to be completed. Remainder of miscellaneous vessels and tanks to be pressure washed. If approved by EPA OSC, cylinder samples to be retrieved.
- **Inspection Reports**
  - None

If you have any questions, please contact either of the undersigned.

Yours very truly,

HARDING LAWSON ASSOCIATES

Ian A. Webster, Sc.D.
Omega PRPs Project Coordinator

p:\sb\omega\wkrpt7tx

cc: Michael K. Schwennesen

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August 18, 1995

32026

Richard Wm. Martyn
Federal On-Scene Coordinator
Emergency Response (H-8-3)
US Environmental Protection Agency
75 Hawthorne Street
San Francisco, California 94105-3901

Weekly Progress Report No. 8
Omega Chemical Facility
12504 East Whittier Boulevard
Whittier, California

Dear Mr. Martyn:

Below please find *Weekly Progress Report No. 8* for the Omega Chemical site.

- **Percentage of Project Completed**
  - 85 percent
- **Summary of Work Performed**
  - 654 drums offsite this week
  - 2,771 drums offsite to date
  - 1,742 total drum overpacks to date (63 percent)
  - 300 cubic yards of crushed pallets (approximately)
  - 30 cubic yards of PPE disposed
  - 8,000 gallons of residual liquids/sludges (approximately) disposed
- **Changes in Remedial Design/Remedial Action**
  - Technical Memorandum Number 1 drafted for freon cylinders
- **Summary of Community Interest Groups and Agency Contacts**
  - Kay Lawrence of the EPA was onsite Monday, August 14, and Thursday, August 18, 1995
- **Potential Problem Areas**
  - Dennis O'Meara may continue to pose a problem if cylinders are taken offsite. Cal-Air (neighboring business) had a truck picking up cylinders Wednesday, August 16, 1995. Mr. O'Meara approached Jim Hardesty (HLA) outside while truck was parked and was agitated that cylinders were on the truck. Mr. Hardesty informed Mr. O'Meara that they were Cal-Air cylinders at which point Mr. O'Meara calmed down.

- **Actions to be Taken**

  - Confirm cylinder removal with Mr. O'Meara

- **Changes in Personnel**

  - Tank cleaning and confined-space entry personnel onsite

- **Projected Work for Next Reporting Period**

  - Non-conforming and laboratory packed drums will be prepared for transportation and disposal
  - Miscellaneous vessels and tanks to be pressure washed
  - Sludge pumping of 5K ASTs to continue
  - Unload resin bins for disposal
  - Clean and remove empty bins
  - Removal of remainder of crushed drums
  - Pressure washing of drum pads and sumps

- **Inspection Reports**

  - None

If you have any questions, please contact either of the undersigned.

Yours very truly,

HARDING LAWSON ASSOCIATES

Ian A. Webster, Sc.D.
Omega PRPs Project Coordinator

p:\eb\omega\wkrpt8.ltr

cc: Michael K. Schwennesen

Printed on Recycled Paper.

August 25, 1995

32026

Richard Wm. Martyn
Federal On-Scene Coordinator
Emergency Response (H-8-3)
US Environmental Protection Agency
75 Hawthorne Street
San Francisco, California 94105-3901

Weekly Progress Report No. 9
Omega Chemical Facility
12504 East Whittier Boulevard
Whittier, California

Dear Mr. Martyn:

Below please find *Weekly Progress Report No. 9* for the Omega Chemical site.

- **Percentage of Project Completed**
  - 95 percent
- **Summary of Work Performed**
  - 308 drums offsite this week
  - 3,079 drums offsite to date
  - 1,834 total drum overpacks to date (60 percent)
  - 390 cubic yards of crushed pallets disposed (approximately)
  - 55 cubic yards of PPE disposed (approximately)
  - 30,000 gallons of residual liquids/sludges disposed (approximately)

Note: 84 drums of the above total were generated from the Lab chemicals Warehouse chemicals and non-conforming drums.

- **Changes in Remedial Design/Remedial Action**
  - Phase I DRA Schedule extended to at least September 5, 1995
  - Respondents Phase II compliance date extended by EPA until September 15, 1995.
- **Summary of Community Interest Groups and Agency Contacts**
- **Potential Problem Areas**
  - Dennis O'Meara may continue to pose a problem if cylinders are taken offsite. He was on site Wednesday 8/23/95 asking if our cylinder analysis was completed. HLA supervisor informed him that Ian Webster would be the point of contact for any information.

- **Actions to be Taken**

  - Status of cylinder removal to be addressed with Project Coordinator, EPA On Site Coordinator and Dennis O'Meara

- **Changes in Personnel**

  - Tank cleaning and confined-space entry personnel continue to be onsite
  - DRA crew downsized to 50% to conduct general site clean up

- **Projected Work for Next Reporting Period**

  - Drum pad and loading dock pressure washing. Final 5K AST cleaning and confirmation wipe sampling. Initiate demobilization.

- **Inspection Reports**

  - None

If you have any questions, please contact either of the undersigned.

Yours very truly,

HARDING LAWSON ASSOCIATES

Ian A. Webster, Sc.D.
Omega PRPs Project Coordinator

p:\eb\omega\wkrpt9.ltr

cc: Michael K. Schwennesen

September 1, 1995

32026

Richard Wm. Martyn
Federal On-Scene Coordinator
Emergency Response (H-8-3)
US Environmental Protection Agency
75 Hawthorne Street
San Francisco, California 94105-3901

Weekly Progress Report No. 10
Omega Chemical Facility
12504 East Whittier Boulevard
Whittier, California

Dear Mr. Martyn:

Below please find *Weekly Progress Report No. 10* for the Omega Chemical site.

- **Percentage of Project Completed**

  - 100 percent

- **Summary of Work Performed**

  - 43 drums offsite this week
  - 3,122 drums offsite to date
  - 1,834 total overpacks to date (59 percent)
  - 825 empty non-RCRA empty drums processed and crushed to date
  - 390 cubic yards of crushed pallets disposed to date (approximately)
  - 55 cubic yards of PPE disposed to date (approximately)
  - 40,000 gallons of residual liquids/sludges disposed to date (approximately)
  - 40 cubic yards of miscellaneous debris offsite to date (primarily process piping)

- **Changes in Remedial Design/Remedial Action**

  - 5,000 gallon AST's were demolished rather than cleaned and wipe sampled. Substantial amounts of rinsate waste would have generated during the cleaning process and the cost of disposal of the rinse significantly exceeds the cost of demolition and Class 1 landfill disposal of the tanks.

- **Summary of Community Interest Groups and Agency Contacts**

  - 8-30-95 EPA requested inventory of any hazardous materials in adjacent building.
  - 8-31-95 EPA requested and were provided 9-1-95 drum removal activity records for judicial hearing on 9-5-95. These records are still in a rough format since the project is ongoing.

- **Potential Problem Areas**

  - Inventory of adjacent building determined substantial quantity of hazardous materials are still on site. This inventory consists primarily of compressed gas cylinders and drums. (see Attachment). Dennis O'Meara has become increasingly agitated and is utilizing a video camera to document site activities. His continual presence on site is considered to be disruptive to the work and affecting the crew's performance.

- **Actions to be Taken**

  - Adjacent building items to be handled as per the existing Drum Removal Activity (DRA) work plan.

- **Changes in Personnel**

  - Cylinder technicians on site. Remobilization of one drum removal crew to handle the adjacent building inventory.

- **Projected Work for Next Reporting Period**

  - Complete Phase 1 DRA. Initiate DRA of adjacent building inventory

- **Inspection Reports**

  - None

If you have any questions, please contact either of the undersigned.

Yours very truly,

HARDING LAWSON ASSOCIATES

Ian A. Webster, Sc.D.
Omega PRPs Project Coordinator

p:\sb\omega\wkrpt10.ltr

Attachment

cc: Michael K. Schwennesen

Printed on Recycled Paper.

Attachment

Inventory of Containers
12512 E. Whittier Blvd.

Harding Lawson Associates

1. Numerous 30-to 50-pound boxes with empty Freon canisters inside.

2. (5) 55-gallon drums "Flexosolvent 80/20."

3. (2) 55-gallon poly drums, full, no labels.

4. Sample jars containing contaminated (odorous) solids:
   (19) 8-oz.
   (52) 32-oz.

5. (17) boxes labeled "Dichlorodifluoromethane," each box containing (30) smaller cylinders, also boxed.
   All cylinders appear empty and new.

6. Buckets of paint:
   (9) 5-gallon
   (8) 1-gallon or less

7. CYLINDERS
   - (5) 125-lb. size, "Lockheed Building 376," "Genetron 502".
   - (1) 125-lb. size, "Lockheed Building 376," "Racon 502".
   - (1) 125-lb. size, "Lockheed Building 376," "Freon 22".
   - (2) 125-lb. size, "Stoody," "Freon 12".
   - (5) 125-lb. size, "Stoody," "unknown contents.
   - (16) 125-lb. size, unknown name and contents.
   - (2) ~80-lb. size, unknown name and contents.
   - (4) ~40-lb. size, unknown name and contents.

8. 5-gallon can, no label, full.

9. White 55-gallon drum, heavy, labeled "Molecular Sieve Absorbent."

10. (2) 12-volt Delco automotive batteries.

11. (27) cases of "N-Methyl 2-pyrrolidinone," each case contains (4) full 1-gallon glass jugs.

12. (21) bags calcium chloride, each 80 lbs.

13. (3) Gray poly containers, containing (a) (42) 1-liter bottles labeled, "Used Halocarbon Fluid," (b) (13) 1-liter bottles labeled, "Used Halocarbon Fluid," or "Lithium Bromide," (c) (42) 1-liter bottles labeled, "Used Halocarbon Fluid," or "Potassium Permanganate."

14. (13) 30-gallon poly containers or polybromofluoroethene;
    (16) 5-gallon poly containers of polybromofluoroethene.

15. Wooden crate 3' x 4' x 2 feet high, containing numerous small glass bottles and some poly containers, all packed in vermiculite. Example labels on bottles are:

    - "Bromofluid Flotation Fluid"
    - "Negative Photo Resist"
    - "Reprocessed Bromo"
    - "Chlorofluorocarbon Fluid"
    - "NaOH" (handwritten over printed labels indicating other material).

Printed on Recycled Paper.

September 8, 1995

32026

Richard Wm. Martyn
Federal On-Scene Coordinator
Emergency Response (H-8-3)
US Environmental Protection Agency
75 Hawthorne Street
San Francisco, California 94105-3901

Weekly Progress Report No. 11
Omega Chemical Facility
12504 East Whittier Boulevard
Whittier, California

Dear Mr. Martyn:

Below please find *Weekly Progress Report No. 11* for the Omega Chemical site.

- **Percentage of Project Completed**

  - 100%
  - 50% adjacent building DRA

- **Summary of Work Performed**

  - 3,122 drums offsite to date
  - 1,834 total overpacks to date (59 percent)
  - 825 empty non-RCRA empty drums processed and crushed to date
  - 390 cubic yards of crushed pallets disposed to date (approximately)
  - 55 cubic yards of PPE disposed to date (approximately)
  - 40,000 gallons of residual liquids/sludges disposed to date (approximately)
  - 116 cubic yards of miscellaneous debris offsite to date (primarily contaminated process piping and 5K AST's)
  - 60 cubic yards of resins offsite

- **Changes in Remedial Design/Remedial Action**

  - The large white tank with off spec R-22 has substantially more refrigerant than the gauges indicated. A refrigerant tanker truck will be mobilized to transport the remaining off spec refrigerant.

- **Summary of Community Interest Groups and Agency Contacts**

  - Received indefinite extension from the court

- **Potential Problem Areas**
  - None
- **Actions to be Taken**
  - None
- **Changes in Personnel**
  - None
- **Projected Work for Next Reporting Period**
  - Complete DRA of adjacent building. Complete shipping of off spec R-22 and other waste refrigerant.
- **Inspection Reports**
  - None

If you have any questions, please contact either of the undersigned.

Yours very truly,

HARDING LAWSON ASSOCIATES

Ian A. Webster, Sc.D.
Omega PRPs Project Coordinator

p:\sb\omega\wkrpt11ltr

cc: Michael K. Schwennesen

Printed on Recycled Paper.

September 15, 1995

32026

Richard Wm. Martyn
Final Phase I Weekly Status Report
Federal On-Scene Coordinator
Emergency Response (H-8-3)
US Environmental Protection Agency
75 Hawthorne Street
San Francisco, California 94105-3901

Weekly Progress Report No. 12
Omega Chemical Facility
12504 East Whittier Boulevard
Whittier, California

Dear Mr. Martyn:

Below please find *Weekly Progress Report No. 12* for the Omega Chemical site.

- **Percentage of Project Completed**

  - 100% Phase I DRA
  - 100% adjacent building drum removal

- **Summary of Work Performed**

  - 3,177 drums offsite
  - 1,834 total overpacks (58 percent)
  - 825 empty non-RCRA empty drums processed, crushed, and disposed
  - 390 cubic yards of crushed pallets disposed (approximately)
  - 55 cubic yards of PPE disposed (approximately)
  - 46,000 gallons of residual liquids/sludges disposed (approximately)
  - 126 cubic yards of miscellaneous debris disposed (primarily contaminated process piping and 5K AST's)
  - 60 cubic yards of resins disposed
  - 27,763 pounds of waste refrigerant offsite (incineration)
  - 35,000 pounds of off spec refrigerant offsite (reclamation)

- **Changes in Remedial Design/Remedial Action**

  - None

- **Summary of Community Interest Groups and Agency Contacts**

  - John Terry with Terra Pave, Inc. (business owner to the south) was onsite Monday, September 11 in the morning. He is concerned about Phase II schedule, placement of monitoring well possible migration of contamination onto his property from spills and liquids from the former Omega operation.

- **Potential Problem Areas**

  - None

- **Actions to be Taken**

  - None

- **Changes in Personnel**

  - All Phase I DRA personnel offsite. Demobilization complete.

- **Projected Work for Next Reporting Period**

  - Begin Preparation of Phase I DRA report.

- **Inspection Reports**

  - None

If you have any questions, please contact either of the undersigned.

Yours very truly,

HARDING LAWSON ASSOCIATES

Ian A. Webster, Sc.D.
Omega PRPs Project Coordinator

p:\sb\omega\wkrpt12tr

cc: Michael K. Schwennesen

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APPENDIX E

MANIFESTS

COPIES OF MANIFESTS ARE PROVIDED IN VOLUME III

APPENDIX F

ANALYTICAL DATA - EQUIPMENT

Omega Chemical Site
Wipe Sampling Log

Tank Name/#	Size (Gallons)	Date Cleaned	Date Sampled	EPA 8240	EPA 8270	Cam Metals	Test Results/Remarks	Status
2K-1	"2,000"	8/28/95	8/28/95	X	X	X	Clean on all tests	Complete
2K-2	"2,000"	8/14/95	8/14/95	X	X	X	Clean on all tests	Complete
2K-3	"2,000"	8/14/95	8/14/95	X	X	X	Clean on all tests	Complete
2K-4	"2,000"	8/14/95	8/14/95	X	X	X	Clean on all tests	Complete
TANK 5	"2,000"	8/14/95	8/14/95	X	X	X	Clean on all tests	Complete
SHEILA	"1,500"	8/14/95	8/14/95	X	X	X	Clean on all tests	Complete
TANK 7	900	8/14/95	8/14/95	X	X	X	Clean on all tests	Complete
TANK 8	200	8/14/95	8/14/95	X	X	X	Clean on all tests	Complete
TANK 9	500	8/14/95	8/14/95	X	X	X	Cleaned Twice	Complete
TANK 10	500	8/24/95	8/24/95	X	X	X	Clean on all tests	Complete
TANK 11	NA	8/24/95	8/24/95	NA	NA	NA	Entrance too small to wipe sample	NA
TANK 12	100	8/24/95	8/24/95	X	X	X	Clean on all tests	Complete
EASTMIX	200	8/24/95	8/24/95	X	X	X	Cleaned Twice	Complete
WESTMIX	200	8/24/95	8/24/95	X	X	X	Cleaned Twice	Complete
EASTBIN	"4,000"	8/24/95	8/24/95	X	X	X	Clean on all tests	Complete
WESTBIN	"4,000"	8/24/95	8/24/95	X	X	X	Clean on all tests	Complete
P13	"7,11"	8/24/95	8/24/95	X	X	X	Clean on all tests	Complete
P14	"13,10"	8/24/95	8/24/95	X	X	X	Clean on all tests	Complete
P15	"13,14"	8/24/95	8/24/95	X	X	X	Clean on all tests	Complete

Omega Chemical Site
Wipe Sampling Log (continued)

Tank Name/#	Size (Gallons)	Date Cleaned	Date Sampled	EPA 8240	EPA 8270	Cam Metals	Test Results/Remarks	Status
P16	"10,10"	8/24/95	8/24/95	X	X	X	Clean on all tests	Complete
P17	"10,16"	8/24/95	8/24/95	X	X	X	Clean on all tests	Complete
T18	150	8/24/95	8/24/95	X	X	X	Clean on all tests	Complete
T19	150	8/24/95	8/24/95	X	X	X	Clean on all tests	Complete
T20	400	8/24/95	8/24/95	X	X	X	Clean on all tests	Complete
T21	300	8/24/95	8/24/95	X	X	X	Clean on all tests	Complete
T22	600	8/24/95	8/24/95	X	X	X	Clean on all tests	Complete
T23	750	8/24/95	8/24/95	X	X	X	Clean on all tests	Complete
P24	"3,20"	8/24/95	8/24/95	X	X	X	Clean on all tests	Complete

Notes:

Tanks were removed with respect to how they were found on site
P = Pipe, inner diameter (in.), length (ft.)
T = Tank
NA = Not Possible to Wipe Sample

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Harding Lawson Associates
3 Hutton Centre, Suite 300
Santa Ana, CA 92707
Attention: Andrew Keller

Client Project ID: 32026
Omega/Whittier
Sample Descript: Water
First Sample #: EG00871

Sampled: Jun 29, 1995
Received: Jun 29, 1995
Extracted: Jul 12, 1995
Analyzed: Jul 12, 1995
Reported: Jul 12, 1995

pH (EPA 150.1)

Laboratory Number	Sample Description	Sample Result
EG00871	Surface East	7.8
EG00872	Surface West	8.4
EG00873	2000 Gal Stainless	2.3
EG00874	Shiela	3.6
EG00875	Amy	8.7
EG00876	Linda	8.1

DEL MAR ANALYTICAL, IRVINE (ELAP #1197)

Roberta Edwards

Roberta Edwards
Project Manager

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Harding Lawson Associates
15621 Redhill Avenue, Suite 100
Tustin, California 92680
714/259-7992 — 213/617-7232
Telecopy: 714/259-1378

CHAIN OF CUSTODY FORM

Lab: DEL MAR

Samplers: HARDESTY

Job Number: 32026

Name/Location: OMEGA / WHITTIER

Project Manager: A. KELLER

Recorder: Hardesty (Signature Required)

SOURCE CODE	MATRIX: Water	Sediment	Soil	Oil	#CONTAINERS & PRESERV.: Unpres.	H_2SO_4	HNO_3	SAMPLE NUMBER OR LAB NUMBER: Yr	Wk	Seq	DATE: Yr	Mo	Dy	Time	STATION DESCRIPTION/ NOTES
	X				2			SURF	-	E	95	06	29	1215	SURFACE EAST
					1									1215	
							1							1215	
					2			SURF	-	W				1220	SURFACE WEST
					1									1220	
							1							1220	
					2			2000	GAL					1225	2000 GAL. STAINLESS
					1			2000	GAL					1225	
	X						1	2000	GAL		95	06	29	1225	

ANALYSIS REQUESTED

EPA 601/8010	EPA 602/8020	EPA 624/8240	EPA 625/8270	Priority Pltnt. Metals	Benzene/Toluene/Xylene	Total Petrol. Hydrocarb.	METALS 17 CAM
		X					
			X				
							X
		X					
			X				
							X
		X					
			X				
							X

LAB NUMBER: Yr	Wk	Seq	DEPTH IN FEET	COL MTD CD	QA CODE	MISCELLANEOUS
						48 HR TAT

CHAIN OF CUSTODY RECORD

RELINQUISHED BY: (Signature) Hardesty 1255	RECEIVED BY: (Signature) Mara Lemus 6-29-95	DATE/TIME 12:55
RELINQUISHED BY: (Signature) Mara Lemus 6-29-95 2:20	RECEIVED BY: (Signature)	DATE/TIME
RELINQUISHED BY: (Signature)	RECEIVED BY: (Signature)	DATE/TIME
RELINQUISHED BY: (Signature)	RECEIVED BY: (Signature)	DATE/TIME
DISPATCHED BY: (Signature) DATE/TIME	RECEIVED FOR LAB BY: (Signature)	DATE/TIME 6/29 2:20
METHOD OF SHIPMENT Hand delivered		

Laboratory Copy White — Project Office Copy Yellow — Field or Office Copy Pink

Standard Report

6533

Hard[redacted]wson Associates
156[redacted]ill Avenue, Suite 100
Tustin, California 92680
714/259-7992 — 213/617-7232
Telecopy: 714/259-1378

CHAIN OF CU[redacted]ODY FORM

Lab: DELMAR

Samplers: HARDESTY

Job Number: OMEGA 32026

Name/Location: OMEGA / WHITTIER

Project Manager: A. KELLER

Recorder: Hardesty (Signature Required)

SOURCE CODE	MATRIX: Water	Sediment	Soil	Oil	#CONTAINERS & PRESERV.: Unpres.	H_2SO_4	HNO_3	SAMPLE NUMBER OR LAB NUMBER: Yr	Wk	Seq	DATE: Yr	Mo	Dy	Time	STATION DESCRIPTION/ NOTES	ANALYSIS REQUESTED: EPA 601/8010	EPA 602/8020	EPA 624/8240	EPA 625/8270	Priority Pllnt. Metals	Benzene/Toluene/Xylene	Total Petrol. Hydrocarb.	METALS 17 CAM
	X				2			SHIELA			95	06	29	1230	1000 GAL STAINLESS		X						
					1									1230				X					
							1							1230									X
					2			AMY						1235	500 GAL. STAINLESS		X						
					1									1235				X					
							1							1235									X
					2			LINDA						1245	500GAL. STAINLESS		X						
					1									1245				X					
	X						1				95	06	29	1245									X

LAB NUMBER: Yr	Wk	Seq	DEPTH IN FEET	COL MTD CD	QA CODE	MISCELLANEOUS
						48HR TAT

CHAIN OF CUSTODY RECORD

RELINQUISHED BY: (Signature) Hardesty 1255	RECEIVED BY: (Signature) Marcia Lemus	DATE/TIME 6-29-95 12:55
RELINQUISHED BY: (Signature) Marcia Lemus 6-29-95 2:20	RECEIVED BY: (Signature)	DATE/TIME
RELINQUISHED BY: (Signature)	RECEIVED BY: (Signature)	DATE/TIME
RELINQUISHED BY: (Signature)	RECEIVED BY: (Signature)	DATE/TIME
DISPATCHED BY: (Signature) DATE/TIME	RECEIVED FOR LAB BY: (Signature)	DATE/TIME 6/29 2:20
METHOD OF SHIPMENT Hand delivered		

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Harding Lawson Associates
3 Hutton Centre, Suite 300
Santa Ana, CA 92707
Attention: Andrew Keller

Client Project ID: 32026
Omega/Whittier
Sample Descript: Water, Surface East
Lab Number: EF02991

Sampled: Jun 29, 1995
Received: Jun 29, 1995
Extracted: Jun 30, 1995
Analyzed: Jun 30, 1995
Reported: Jul 5, 1995

VOLATILE ORGANICS by GC/MS (EPA 8240)

Analyte	Detection Limit µg/L (ppb)	Sample Result µg/L (ppb)
Acetone	10	N.D.
Benzene	2.0	N.D.
Bromodichloromethane	2.0	N.D.
Bromoform	2.0	N.D.
Bromomethane	5.0	N.D.
2-Butanone	10	N.D.
Carbon disulfide	5.0	N.D.
Carbon tetrachloride	5.0	N.D.
Chlorobenzene	2.0	N.D.
Chlorodibromomethane	2.0	N.D.
Chloroethane	5.0	N.D.
2-Chloroethyl vinyl ether	2.0	N.D.
Chloroform	2.0	N.D.
Chloromethane	5.0	N.D.
1,1-Dichloroethane	**2.0**	**2.4**
1,2-Dichloroethane	2.0	N.D.
1,1-Dichloroethene	5.0	N.D.
cis-1,2-Dichloroethene	**2.0**	**110**
trans-1,2-Dichloroethene	2.0	N.D.
1,2-Dichloropropane	2.0	N.D.
cis-1,3-Dichloropropene	2.0	N.D.
trans-1,3-Dichloropropene	2.0	N.D.
Ethylbenzene	2.0	N.D.
2-Hexanone	10	N.D.
Methylene chloride	10	N.D.
4-Methyl-2-pentanone	5.0	N.D.
Styrene	2.0	N.D.
1,1,2,2-Tetrachloroethane	2.0	N.D.
Tetrachloroethene	**2.0**	**18**
Toluene	2.0	N.D.
1,1,1-Trichloroethane	**2.0**	**7.0**
1,1,2-Trichloroethane	2.0	N.D.
Trichloroethene	**2.0**	**5.8**
Trichlorofluoromethane	5.0	N.D.
Vinyl acetate	5.0	N.D.
Vinyl chloride	5.0	N.D.
Total Xylenes	2.0	N.D.

Analytes reported as N.D. were not present above the stated limit of detection.

DEL MAR ANALYTICAL, IRVINE (ELAP #1197)

Gary Steube
Laboratory Director

Surrogate Standard Recoveries (Accept. Limits):	
1,2-Dichloroethane-d4 (76-114)	90%
Toluene-d8 (88-110)	91%
4-Bromofluorobenzene (86-115)	94%

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Harding Lawson Associates	Client Project ID: 32026	Sampled:	Jun 29, 19
3 Hutton Centre, Suite 300	Omega/Whittier	Received:	Jun 29, 1995
Santa Ana, CA 92707	Sample Descript: Water, Surface West	Extracted:	Jun 30, 1995
Attention: Andrew Keller	Lab Number: EF02992	Analyzed:	Jun 30, 1995
		Reported:	Jul 5, 1995

VOLATILE ORGANICS by GC/MS (EPA 8240)

Analyte	Detection Limit µg/L (ppb)	Sample Result µg/L (ppb)
Acetone	10	N.D.
Benzene	2.0	N.D.
Bromodichloromethane	2.0	N.D.
Bromoform	2.0	N.D.
Bromomethane	5.0	N.D.
2-Butanone	10	N.D.
Carbon disulfide	5.0	N.D.
Carbon tetrachloride	5.0	N.D.
Chlorobenzene	2.0	N.D.
Chlorodibromomethane	2.0	N.D.
Chloroethane	5.0	N.D.
2-Chloroethyl vinyl ether	2.0	N.D.
Chloroform	2.0	N.D.
Chloromethane	5.0	N.D.
1,1-Dichloroethane	2.0	N.D.
1,2-Dichloroethane	2.0	N.D.
1,1-Dichloroethene	5.0	N.D.
cis-1,2-Dichloroethene	2.0	N.D.
trans-1,2-Dichloroethene	2.0	N.D.
1,2-Dichloropropane	2.0	N.D.
cis-1,3-Dichloropropene	2.0	N.D.
trans-1,3-Dichloropropene	2.0	N.D.
Ethylbenzene	2.0	N.D.
2-Hexanone	10	N.D.
Methylene chloride	10	N.D.
4-Methyl-2-pentanone	5.0	N.D.
Styrene	2.0	N.D.
1,1,2,2-Tetrachloroethane	2.0	N.D.
Tetrachloroethene	**2.0**	**11**
Toluene	2.0	N.D.
1,1,1-Trichloroethane	**2.0**	**10**
1,1,2-Trichloroethane	2.0	N.D.
Trichloroethene	2.0	N.D.
Trichlorofluoromethane	5.0	N.D.
Vinyl acetate	5.0	N.D.
Vinyl chloride	5.0	N.D.
Total Xylenes	2.0	N.D.

Analytes reported as N.D. were not present above the stated limit of detection.

DEL MAR ANALYTICAL, IRVINE (ELAP #1197)

Gary Steube
Laboratory Director

Surrogate Standard Recoveries (Accept. Limits):	
1,2-Dichloroethane-d4 (76-114)	86%
Toluene-d8 (88-110)	90%
4-Bromofluorobenzene (86-115)	93%

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Harding Lawson Associates	Client Project ID: 32026	Sampled:	Jun 29, 1995
3 Hutton Centre, Suite 300	Omega/Whittier	Received:	Jun 29, 1995
Santa Ana, CA 92707	Sample Descript: Water, 2000 Gal. Stainless	Extracted:	Jun 30, 1995
Attention: Andrew Keller	Lab Number: EF02993	Analyzed:	Jun 30, 1995
		Reported:	Jul 5, 1995

VOLATILE ORGANICS by GC/MS (EPA 8240)

Analyte	Detection Limit µg/L (ppb)	Sample Result µg/L (ppb)
Acetone	100	N.D.
Benzene	20	N.D.
Bromodichloromethane	20	N.D.
Bromoform	20	N.D.
Bromomethane	50	N.D.
2-Butanone	100	N.D.
Carbon disulfide	50	N.D.
Carbon tetrachloride	50	N.D.
Chlorobenzene	20	N.D.
Chlorodibromomethane	20	N.D.
Chloroethane	50	N.D.
2-Chloroethyl vinyl ether	20	N.D.
Chloroform	20	N.D.
Chloromethane	50	N.D.
1,1-Dichloroethane	20	N.D.
1,2-Dichloroethane	20	N.D.
1,1-Dichloroethene	50	N.D.
cis-1,2-Dichloroethene	20	N.D.
trans-1,2-Dichloroethene	20	N.D.
1,2-Dichloropropane	20	N.D.
cis-1,3-Dichloropropene	20	N.D.
trans-1,3-Dichloropropene	20	N.D.
Ethylbenzene	20	N.D.
2-Hexanone	100	N.D.
Methylene chloride	100	N.D.
4-Methyl-2-pentanone	50	N.D.
Styrene	20	N.D.
1,1,2,2-Tetrachloroethane	20	N.D.
Tetrachloroethene	**20**	**2,800**
Toluene	**20**	**120**
1,1,1-Trichloroethane	**20**	**310**
1,1,2-Trichloroethane	20	N.D.
Trichloroethene	**20**	**100**
Trichlorofluoromethane	50	N.D.
Vinyl acetate	50	N.D.
Vinyl chloride	50	N.D.
Total Xylenes	**20**	**80**

Analytes reported as N.D. were not present above the stated limit of detection. Due to matrix effects and/or other factors, the sample required dilution.
Detection limits for this sample have been raised by a factor of 10.

DEL MAR ANALYTICAL, IRVINE (ELAP #1197)

Gary Steube
Laboratory Director

Surrogate Standard Recoveries (Accept. Limits):	
1,2-Dichloroethane-d4 (76-114)	90%
Toluene-d8 (88-110)	91%
4-Bromofluorobenzene (86-115)	92%

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Harding Lawson Associates	Client Project ID: 32026	Sampled:	Jun 29, 19
3 Hutton Centre, Suite 300	Omega/Whittier	Received:	Jun 29, 1995
Santa Ana, CA 92707	Sample Descript: Water, Surface East	Extracted:	Jun 30, 1995
Attention: Andrew Keller	Lab Number: EF02991	Analyzed:	Jul 3, 1995
		Reported:	Jul 5, 1995

SEMI-VOLATILE ORGANICS by GC/MS (EPA 3520/8270)

Analyte	Detection Limit µg/L (ppb)	Sample Result µg/L (ppb)	Analyte	Detection Limit µg/L (ppb)	Sample Result µg/L (ppb)
Acenaphthene	10	N.D.	Dimethyl phthalate	10	N.D.
Acenaphthylene	10	N.D.	4,6-Dinitro-2-methylphenol	40	N.D.
Aniline	10	N.D.	2,4-Dinitrophenol	100	N.D.
Anthracene	10	N.D.	2,4-Dinitrotoluene	10	N.D.
Azobenzene	20	N.D.	2,6-Dinitrotoluene	10	N.D.
Benzidine	100	N.D.	Di-N-octyl phthalate	40	N.D.
Benzoic Acid	100	N.D.	Fluoranthene	10	N.D.
Benz(a)anthracene	10	N.D.	Fluorene	10	N.D.
Benzo(b)fluoranthene	10	N.D.	Hexachlorobenzene	10	N.D.
Benzo(k)fluoranthene	10	N.D.	Hexachlorobutadiene	10	N.D.
Benzo(g,h,i)perylene	10	N.D.	Hexachlorocyclopentadiene	40	N.D.
Benzo(a)pyrene	10	N.D.	Hexachloroethane	10	N.D.
Benzyl alcohol	20	N.D.	Indeno(1,2,3-cd)pyrene	20	N.D.
Bis(2-chloroethoxy)methane	10	N.D.	Isophorone	10	N.D.
Bis(2-chloroethyl)ether	10	N.D.	2-Methylnaphthalene	10	N.D.
Bis(2-chloroisopropyl)ether	10	N.D.	2-Methylphenol	10	N.D.
Bis(2-ethylhexyl)phthalate	20	N.D.	4-Methylphenol	10	N.D.
4-Bromophenyl phenyl ether	10	N.D.	Naphthalene	10	N.D.
Butyl benzyl phthalate	20	N.D.	2-Nitroaniline	20	N.D.
4-Chloroaniline	10	N.D.	3-Nitroaniline	20	N.D.
2-Chloronaphthalene	10	N.D.	4-Nitroaniline	100	N.D.
4-Chloro-3-methylphenol	20	N.D.	Nitrobenzene	40	N.D.
2-Chlorophenol	10	N.D.	2-Nitrophenol	10	N.D.
4-Chlorophenyl phenyl ether	10	N.D.	4-Nitrophenol	100	N.D.
Chrysene	10	N.D.	N-Nitrosodiphenylamine	10	N.D.
Dibenz(a,h)anthracene	20	N.D.	N-Nitroso-di-N-propylamine	10	N.D.
Dibenzofuran	10	N.D.	Pentachlorophenol	40	N.D.
Di-N-butyl phthalate	20	N.D.	Phenanthrene	10	N.D.
1,3-Dichlorobenzene	10	N.D.	Phenol	10	N.D.
1,4-Dichlorobenzene	10	N.D.	Pyrene	10	N.D.
1,2-Dichlorobenzene	10	N.D.	1,2,4-Trichlorobenzene	10	N.D.
3,3-Dichlorobenzidine	40	N.D.	2,4,5-Trichlorophenol	20	N.D.
2,4-Dichlorophenol	10	N.D.	2,4,6-Trichlorophenol	20	N.D.
Diethyl phthalate	10	N.D.			
2,4-Dimethylphenol	20	N.D.			

Analytes reported as N.D. were not present above the stated limit of detection.

Surrogate Standard Recoveries (Accept. Limits):	
2-Fluorophenol (21-100)	29%
Phenol-d6 (10-94)	22%
2,4,6-Tribromophenol (10-123)	84%
Nitrobenzene-d5 (35-114)	20%
2-Fluorobiphenyl (43-116)	26%
Terphenyl-d14 (33-141)	57%

DEL MAR ANALYTICAL, IRVINE (ELAP #1197)

Gary Steube
Laboratory Director

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Harding Lawson Associates
3 Hutton Centre, Suite 300
Santa Ana, CA 92707
Attention: Andrew Keller

Client Project ID: 32026
Omega/Whittier
Sample Descript: Water, Surface West
Lab Number: EF02992

Sampled: Jun 29, 1995
Received: Jun 29, 1995
Extracted: Jun 30, 1995
Analyzed: Jul 3, 1995
Reported: Jul 5, 1995

SEMI-VOLATILE ORGANICS by GC/MS (EPA 3520/8270)

Analyte	Detection Limit µg/L (ppb)	Sample Result µg/L (ppb)	Analyte	Detection Limit µg/L (ppb)	Sample Result µg/L (ppb)
Acenaphthene	10	N.D.	Dimethyl phthalate	10	N.D.
Acenaphthylene	10	N.D.	4,6-Dinitro-2-methylphenol	40	N.D.
Aniline	10	N.D.	2,4-Dinitrophenol	100	N.D.
Anthracene	10	N.D.	2,4-Dinitrotoluene	10	N.D.
Azobenzene	20	N.D.	2,6-Dinitrotoluene	10	N.D.
Benzidine	100	N.D.	Di-N-octyl phthalate	40	N.D.
Benzoic Acid	100	N.D.	Fluoranthene	10	N.D.
Benz(a)anthracene	10	N.D.	Fluorene	10	N.D.
Benzo(b)fluoranthene	10	N.D.	Hexachlorobenzene	10	N.D.
Benzo(k)fluoranthene	10	N.D.	Hexachlorobutadiene	10	N.D.
Benzo(g,h,i)perylene	10	N.D.	Hexachlorocyclopentadiene	40	N.D.
Benzo(a)pyrene	10	N.D.	Hexachloroethane	10	N.D.
Benzyl alcohol	20	N.D.	Indeno(1,2,3-cd)pyrene	20	N.D.
Bis(2-chloroethoxy)methane	10	N.D.	Isophorone	10	N.D.
Bis(2-chloroethyl)ether	10	N.D.	2-Methylnaphthalene	10	N.D.
Bis(2-chloroisopropyl)ether	10	N.D.	2-Methylphenol	10	N.D.
Bis(2-ethylhexyl)phthalate	**20**	**30**	4-Methylphenol	10	N.D.
4-Bromophenyl phenyl ether	10	N.D.	Naphthalene	10	N.D.
Butyl benzyl phthalate	20	N.D.	2-Nitroaniline	20	N.D.
4-Chloroaniline	10	N.D.	3-Nitroaniline	20	N.D.
2-Chloronaphthalene	10	N.D.	4-Nitroaniline	100	N.D.
4-Chloro-3-methylphenol	20	N.D.	Nitrobenzene	40	N.D.
2-Chlorophenol	10	N.D.	2-Nitrophenol	10	N.D.
4-Chlorophenyl phenyl ether	10	N.D.	4-Nitrophenol	100	N.D.
Chrysene	10	N.D.	N-Nitrosodiphenylamine	10	N.D.
Dibenz(a,h)anthracene	20	N.D.	N-Nitroso-di-N-propylamine	10	N.D.
Dibenzofuran	10	N.D.	Pentachlorophenol	40	N.D.
Di-N-butyl phthalate	20	N.D.	Phenanthrene	10	N.D.
1,3-Dichlorobenzene	10	N.D.	Phenol	10	N.D.
1,4-Dichlorobenzene	10	N.D.	Pyrene	10	N.D.
1,2-Dichlorobenzene	10	N.D.	1,2,4-Trichlorobenzene	10	N.D.
3,3-Dichlorobenzidine	40	N.D.	2,4,5-Trichlorophenol	20	N.D.
2,4-Dichlorophenol	10	N.D.	2,4,6-Trichlorophenol	20	N.D.
Diethyl phthalate	10	N.D.			
2,4-Dimethylphenol	20	N.D.			

Analytes reported as N.D. were not present above the stated limit of detection.

Surrogate Standard Recoveries (Accept. Limits):	
2-Fluorophenol (21-100)	25%
Phenol-d6 (10-94)	17%
2,4,6-Tribromophenol (10-123)	92%
Nitrobenzene-d5 (35-114)	39%
2-Fluorobiphenyl (43-116)	52%
Terphenyl-d14 (33-141)	89%

DEL MAR ANALYTICAL, IRVINE (ELAP #1197)

Gary Steube
Laboratory Director

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2465 W. 12th St., Suite 1, Tempe, AZ 85281 (602) 968-8272 FAX (602) 968-1338

Harding Lawson Associates	Client Project ID: 32026	Sampled:	Jun 29, 19
3 Hutton Centre, Suite 300	Omega/Whittier	Received:	Jun 29, 1995
Santa Ana, CA 92707	Sample Descript: Water, 2000 Gal. Stainless	Extracted:	Jun 30, 1995
Attention: Andrew Keller	Lab Number: EF02993	Analyzed:	Jul 3, 1995
		Reported:	Jul 5, 1995

SEMI-VOLATILE ORGANICS by GC/MS (EPA 3520/8270)

Analyte	Detection Limit µg/L (ppb)	Sample Result µg/L (ppb)	Analyte	Detection Limit µg/L (ppb)	Sample Result µg/L (ppb)
Acenaphthene	10	N.D.	Dimethyl phthalate	10	N.D.
Acenaphthylene	10	N.D.	4,6-Dinitro-2-methylphenol	40	N.D.
Aniline	10	N.D.	2,4-Dinitrophenol	100	N.D.
Anthracene	10	N.D.	2,4-Dinitrotoluene	10	N.D.
Azobenzene	20	N.D.	2,6-Dinitrotoluene	10	N.D.
Benzidine	100	N.D.	Di-N-octyl phthalate	40	N.D.
Benzoic Acid	100	N.D.	Fluoranthene	10	N.D.
Benz(a)anthracene	10	N.D.	Fluorene	10	N.D.
Benzo(b)fluoranthene	10	N.D.	Hexachlorobenzene	10	N.D.
Benzo(k)fluoranthene	10	N.D.	Hexachlorobutadiene	10	N.D.
Benzo(g,h,i)perylene	10	N.D.	Hexachlorocyclopentadiene	40	N.D.
Benzo(a)pyrene	10	N.D.	Hexachloroethane	10	N.D.
Benzyl alcohol	20	N.D.	Indeno(1,2,3-cd)pyrene	20	N.D.
Bis(2-chloroethoxy)methane	10	N.D.	Isophorone	10	N.D.
Bis(2-chloroethyl)ether	10	N.D.	2-Methylnaphthalene	10	N.D.
Bis(2-chloroisopropyl)ether	10	N.D.	2-Methylphenol	10	N.D.
Bis(2-ethylhexyl)phthalate	**20**	**34**	4-Methylphenol	10	N.D.
4-Bromophenyl phenyl ether	10	N.D.	Naphthalene	10	N.D.
Butyl benzyl phthalate	20	N.D.	2-Nitroaniline	20	N.D.
4-Chloroaniline	10	N.D.	3-Nitroaniline	20	N.D.
2-Chloronaphthalene	10	N.D.	4-Nitroaniline	100	N.D.
4-Chloro-3-methylphenol	20	N.D.	Nitrobenzene	40	N.D.
2-Chlorophenol	10	N.D.	2-Nitrophenol	10	N.D.
4-Chlorophenyl phenyl ether	10	N.D.	4-Nitrophenol	100	N.D.
Chrysene	10	N.D.	N-Nitrosodiphenylamine	10	N.D.
Dibenz(a,h)anthracene	20	N.D.	N-Nitroso-di-N-propylamine	10	N.D.
Dibenzofuran	10	N.D.	Pentachlorophenol	40	N.D.
Di-N-butyl phthalate	20	N.D.	Phenanthrene	10	N.D.
1,3-Dichlorobenzene	10	N.D.	**Phenol**	**10**	**16**
1,4-Dichlorobenzene	10	N.D.	Pyrene	10	N.D.
1,2-Dichlorobenzene	10	N.D.	1,2,4-Trichlorobenzene	10	N.D.
3,3-Dichlorobenzidine	40	N.D.	2,4,5-Trichlorophenol	20	N.D.
2,4-Dichlorophenol	10	N.D.	2,4,6-Trichlorophenol	20	N.D.
Diethyl phthalate	10	N.D.			
2,4-Dimethylphenol	20	N.D.			

Analytes reported as N.D. were not present above the stated limit of detection.

Surrogate Standard Recoveries (Accept. Limits):	
2-Fluorophenol (21-100)	24%
Phenol-d6 (10-94)	17%
2,4,6-Tribromophenol (10-123)	84%
Nitrobenzene-d5 (35-114)	34%
2-Fluorobiphenyl (43-116)	46%
Terphenyl-d14 (33-141)	71%

DEL MAR ANALYTICAL, IRVINE (ELAP #1197)

Gary Steube
Laboratory Director

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2465 W. 12th St., Suite 1, Tempe, AZ 85281 (602) 968-8272 FAX (602) 968-1338

Harding Lawson Associates	Client Project ID:	32026	Sampled: Jun 29, 1995
3 Hutton Centre, Suite 300		Omega/Whittier	Received: Jun 29, 1995
Santa Ana, CA 92707	Sample Descript:	Water, Surface East	Extracted: Jun 30, 1995
Attention: Andrew Keller	Lab Number:	EF02991	Analyzed: 6/30-7/5, 1995
			Reported: Jul 5, 1995

CALIFORNIA CODE OF REGULATIONS, TITLE 22 METALS

Analyte	EPA Method	Detection Limit mg/L (ppm)	Sample Result mg/L (ppm)
Antimony	6010	0.50	N.D.
Arsenic	7060	0.010	N.D.
Barium	6010	0.050	0.46
Beryllium	6010	0.010	N.D.
Cadmium	6010	0.0050	N.D.
Chromium, VI	7196	0.025	N.D.
Chromium, total	6010	0.050	0.34
Cobalt	6010	0.050	0.25
Copper	6010	0.050	0.18
Lead	6010	0.050	0.37
Mercury	7470	0.00020	N.D.
Molybdenum	6010	0.10	N.D.
Nickel	6010	0.050	0.20
Selenium	7740	0.010	N.D.
Silver	6010	0.050	N.D.
Thallium	6010	0.50	N.D.
Vanadium	6010	0.050	N.D.
Zinc	6010	0.050	1.3

Analytes reported as N.D. were not present above the stated limit of detection.

DEL MAR ANALYTICAL, IRVINE (ELAP #1197)

Gary Steube
Laboratory Director

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2465 W. 12th St., Suite 1, Tempe, AZ 85281 (602) 968-8272 FAX (602) 968-1338

Harding Lawson Associates	Client Project ID:	32026	Sampled: Jun 29, 19
3 Hutton Centre, Suite 300		Omega/Whittier	Received: Jun 29, 1995
Santa Ana, CA 92707	Sample Descript:	Water, Surface West	Extracted: Jun 30, 1995
Attention: Andrew Keller	Lab Number:	EF02992	Analyzed: 6/30-7/5, 1995
			Reported: Jul 5, 1995

CALIFORNIA CODE OF REGULATIONS, TITLE 22 METALS

Analyte	EPA Method	Detection Limit mg/L (ppm)	Sample Result mg/L (ppm)
Antimony	6010	0.50	N.D.
Arsenic	7060	0.010	N.D.
Barium	6010	0.050	N.D.
Beryllium	6010	0.010	N.D.
Cadmium	6010	0.0050	N.D.
Chromium, VI	7196	0.025	N.D.
Chromium, total	7191	0.0050	0.019
Cobalt	6010	0.050	N.D.
Copper	6010	0.050	0.41
Lead	7421	0.0050	N.D.
Mercury	7470	0.00020	0.00070
Molybdenum	6010	0.10	N.D.
Nickel	6010	0.050	0.075
Selenium	7740	0.010	N.D.
Silver	6010	0.050	N.D.
Thallium	6010	0.50	N.D.
Vanadium	6010	0.050	N.D.
Zinc	6010	0.050	0.50

Analytes reported as N.D. were not present above the stated limit of detection.

DEL MAR ANALYTICAL, IRVINE (ELAP #1197)

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Harding Lawson Associates
3 Hutton Centre, Suite 300
Santa Ana, CA 92707
Attention: Andrew Keller

Client Project ID: 32026
Omega/Whittier
Sample Descript: Water, 2000 Gal. Stainless
Lab Number: EF02993

Sampled: Jun 29, 1995
Received: Jun 29, 1995
Extracted: Jun 30, 1995
Analyzed: 6/30-7/5, 1995
Reported: Jul 5, 1995

CALIFORNIA CODE OF REGULATIONS, TITLE 22 METALS

Analyte	EPA Method	Detection Limit mg/L (ppm)	Sample Result mg/L (ppm)
Antimony	6010	0.50	N.D.
Arsenic	7060	0.010	N.D.
Barium	6010	0.050	0.085
Beryllium	6010	0.010	N.D.
Cadmium	6010	0.0050	N.D.
Chromium, VI	7196	0.025	N.D.
Chromium, total	7191	0.010	0.089
Cobalt	6010	0.050	N.D.
Copper	6010	0.050	0.44
Lead	7421	0.0050	N.D.
Mercury	7470	0.00020	0.011
Molybdenum	6010	0.10	N.D.
Nickel	6010	0.050	0.23
Selenium	7740	0.010	N.D.
Silver	6010	0.050	N.D.
Thallium	6010	0.50	N.D.
Vanadium	6010	0.050	N.D.
Zinc	6010	0.050	0.29

Analytes reported as N.D. were not present above the stated limit of detection.

DEL MAR ANALYTICAL, IRVINE (ELAP #1197)

Gary Steube
Laboratory Director

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Harding Lawson Associates
3 Hutton Centre, Suite 300
Santa Ana, CA 92707
Attention: Andrew Keller

Method Blank

Extracted: Jun 30, 19
Analyzed: Jun 30, 1995
Reported: Jul 5, 1995
Matrix: Water

VOLATILE ORGANICS by GC/MS (EPA 8240)

Analyte	Detection Limit µg/L (ppb)	Sample Result µg/L (ppb)
Acetone	10	N.D.
Benzene	2.0	N.D.
Bromodichloromethane	2.0	N.D.
Bromoform	2.0	N.D.
Bromomethane	5.0	N.D.
2-Butanone	10	N.D.
Carbon disulfide	5.0	N.D.
Carbon tetrachloride	5.0	N.D.
Chlorobenzene	2.0	N.D.
Chlorodibromomethane	2.0	N.D.
Chloroethane	5.0	N.D.
2-Chloroethyl vinyl ether	2.0	N.D.
Chloroform	2.0	N.D.
Chloromethane	5.0	N.D.
1,1-Dichloroethane	2.0	N.D.
1,2-Dichloroethane	2.0	N.D.
1,1-Dichloroethene	5.0	N.D.
cis-1,2-Dichloroethene	2.0	N.D.
trans-1,2-Dichloroethene	2.0	N.D.
1,2-Dichloropropane	2.0	N.D.
cis-1,3-Dichloropropene	2.0	N.D.
trans-1,3-Dichloropropene	2.0	N.D.
Ethylbenzene	2.0	N.D.
2-Hexanone	10	N.D.
Methylene chloride	10	N.D.
4-Methyl-2-pentanone	5.0	N.D.
Styrene	2.0	N.D.
1,1,2,2-Tetrachloroethane	2.0	N.D.
Tetrachloroethene	2.0	N.D.
Toluene	2.0	N.D.
1,1,1-Trichloroethane	2.0	N.D.
1,1,2-Trichloroethane	2.0	N.D.
Trichloroethene	2.0	N.D.
Trichlorofluoromethane	5.0	N.D.
Vinyl acetate	5.0	N.D.
Vinyl chloride	5.0	N.D.
Total Xylenes	2.0	N.D.

Analytes reported as N.D. were not present above the stated limit of detection.

DEL MAR ANALYTICAL, IRVINE (ELAP #1197)

Gary Steube
Laboratory Director

Surrogate Standard Recoveries (Accept. Limits):	
1,2-Dichloroethane-d4 (76-114)	92%
Toluene-d8 (88-110)	90%
4-Bromofluorobenzene (86-115)	95%

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Harding Lawson Associates
3 Hutton Centre, Suite 300
Santa Ana, CA 92707
Attention: Andrew Keller

Method Blank

Extracted: Jun 30, 1995
Analyzed: Jul 3, 1995
Reported: Jul 5, 1995
Matrix Water

SEMI-VOLATILE ORGANICS by GC/MS (EPA 3520/8270)

Analyte	Detection Limit µg/L (ppb)	Sample Result µg/L (ppb)	Analyte	Detection Limit µg/L (ppb)	Sample Result µg/L (ppb)
Acenaphthene	10	N.D.	Dimethyl phthalate	10	N.D.
Acenaphthylene	10	N.D.	4,6-Dinitro-2-methylphenol	40	N.D.
Aniline	10	N.D.	2,4-Dinitrophenol	100	N.D.
Anthracene	10	N.D.	2,4-Dinitrotoluene	10	N.D.
Azobenzene	20	N.D.	2,6-Dinitrotoluene	10	N.D.
Benzidine	100	N.D.	Di-N-octyl phthalate	40	N.D.
Benzoic Acid	100	N.D.	Fluoranthene	10	N.D.
Benz(a)anthracene	10	N.D.	Fluorene	10	N.D.
Benzo(b)fluoranthene	10	N.D.	Hexachlorobenzene	10	N.D.
Benzo(k)fluoranthene	10	N.D.	Hexachlorobutadiene	10	N.D.
Benzo(g,h,i)perylene	10	N.D.	Hexachlorocyclopentadiene	40	N.D.
Benzo(a)pyrene	10	N.D.	Hexachloroethane	10	N.D.
Benzyl alcohol	20	N.D.	Indeno(1,2,3-cd)pyrene	20	N.D.
Bis(2-chloroethoxy)methane	10	N.D.	Isophorone	10	N.D.
Bis(2-chloroethyl)ether	10	N.D.	2-Methylnaphthalene	10	N.D.
Bis(2-chloroisopropyl)ether	10	N.D.	2-Methylphenol	10	N.D.
Bis(2-ethylhexyl)phthalate	20	N.D.	4-Methylphenol	10	N.D.
4-Bromophenyl phenyl ether	10	N.D.	Naphthalene	10	N.D.
Butyl benzyl phthalate	20	N.D.	2-Nitroaniline	20	N.D.
4-Chloroaniline	10	N.D.	3-Nitroaniline	20	N.D.
2-Chloronaphthalene	10	N.D.	4-Nitroaniline	100	N.D.
4-Chloro-3-methylphenol	20	N.D.	Nitrobenzene	40	N.D.
2-Chlorophenol	10	N.D.	2-Nitrophenol	10	N.D.
4-Chlorophenyl phenyl ether	10	N.D.	4-Nitrophenol	100	N.D.
Chrysene	10	N.D.	N-Nitrosodiphenylamine	10	N.D.
Dibenz(a,h)anthracene	20	N.D.	N-Nitroso-di-N-propylamine	10	N.D.
Dibenzofuran	10	N.D.	Pentachlorophenol	40	N.D.
Di-N-butyl phthalate	20	N.D.	Phenanthrene	10	N.D.
1,3-Dichlorobenzene	10	N.D.	Phenol	10	N.D.
1,4-Dichlorobenzene	10	N.D.	Pyrene	10	N.D.
1,2-Dichlorobenzene	10	N.D.	1,2,4-Trichlorobenzene	10	N.D.
3,3-Dichlorobenzidine	40	N.D.	2,4,5-Trichlorophenol	20	N.D.
2,4-Dichlorophenol	10	N.D.	2,4,6-Trichlorophenol	20	N.D.
Diethyl phthalate	10	N.D.			
2,4-Dimethylphenol	20	N.D.			

Analytes reported as N.D. were not present above the stated limit of detection.

Surrogate Standard Recoveries (Accept. Limits):	
2-Fluorophenol (21-100)	28%
Phenol-d6 (10-94)	18%
2,4,6-Tribromophenol (10-123)	48%
Nitrobenzene-d5 (35-114)	31%
2-Fluorobiphenyl (43-116)	42%
Terphenyl-d14 (33-141)	125%

DEL MAR ANALYTICAL, IRVINE (ELAP #1197)

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Laboratory Director

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Harding Lawson Associates
3 Hutton Centre, Suite 300
Santa Ana, CA 92707
Attention: Andrew Keller

Method Blank

Extracted: Jun 30, 19
Analyzed: 6/30-7/5,1995
Reported: Jul 5, 1995
Matrix Water

CALIFORNIA CODE OF REGULATIONS, TITLE 22 METALS

Analyte	EPA Method	Detection Limit mg/L (ppm)	Sample Result mg/L (ppm)
Antimony	6010	0.50	N.D.
Arsenic	7060	0.010	N.D.
Barium	6010	0.050	N.D.
Beryllium	6010	0.010	N.D.
Cadmium	6010	0.0050	N.D.
Chromium, VI	7196	0.025	N.D.
Chromium, total	7191	0.0050	N.D.
Cobalt	6010	0.050	N.D.
Copper	6010	0.050	N.D.
Lead	7421	0.0050	N.D.
Mercury	7470	0.00020	N.D.
Molybdenum	6010	0.10	N.D.
Nickel	6010	0.050	N.D.
Selenium	7740	0.010	N.D.
Silver	6010	0.050	N.D.
Thallium	6010	0.50	N.D.
Vanadium	6010	0.050	N.D.
Zinc	6010	0.050	N.D.

Analytes reported as N.D. were not present above the stated limit of detection.

DEL MAR ANALYTICAL, IRVINE (ELAP #1197)

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LABORATORY CONTROL SAMPLE

EPA METHOD 8270

Matrix: Water

DATE: 7/3/95 **SOURCE:** Ultra

Analyte	St	R1	PR	QC LIMITS
	ng	ng	%	%
Phenol	50	12	24%	5-122
1,4-Dichlorobenzene	50	31	62%	20-124
2-Nitrophenol	50	23	46%	29-182
2,4-Dichlorophenol	50	23	46%	39-135
Hexachlorobutadiene	50	39	78%	24-116
4-Chloro-3-Methylphenol	50	25	50%	22-147
2,4,6-Trichlorophenol	50	23	46%	37-144
Acenaphthene	50	49	98%	47-145
n-Nitrosodiphenylamine	50	54	108%	41-116
Pentachlorophenol	50	44	88%	17-109
Fluoranthene	50	61	122%	26-137
Di-n-octylphthalate	50	53	106%	4-146
Benzo(a)pyrene	50	60	120%	17-163

Definition of Terms:

St. . . . . Total nanograms of standard added to sample

R1 . . . . . Standard Result

PR . . . . . Percent Recovery

QC LIMITS . . . . . Acceptable Percent Recovery Range

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2465 W. 12th St., Suite 1, Tempe, AZ 85281 (602) 968-8272 FAX (602) 968-1338

CORRECTIVE ACTION REPORT

Date:	7/3 - 7/4/95	Method:	Water
Department:	GC/MS	Matrix:	EPA 8270

Identification and Definition of the Problem:

The Matrix Spike and Matrix Spike Duplicate recoveries were low. Some compounds were below control limits.

Determination of the Cause of the Problem:

Water samples for EPA 8270 are usually extracted using the Continuous Liquid-Liquid Extraction procedure, which regularly demonstrates acceptable QC recoveries. In order to meet client needs, a batch of samples and QC was extracted using the Separatory Funnel Liquid-Liquid Extraction procedure, which produced lower QC recoveries.

Corrective Action:

The Laboratory Control Sample was reviewed and determined to be within control limits. The extraction technicians returned to using the Continuous Liquid-Liquid Extraction procedure. No further corrective actions were made.

QA/QC Officer Signature: Debbie Parrick Date: 7/11/95

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QC DATA REPORT

EPA METHOD: **7470**
Matrix: Water

DATE: 6/30/95

SAMPLE #: EF02406

Analyte	R1	Sp	MS	MSD	PR1	PR2	RPD	MEAN PR
	ppm	ppm	ppm	ppm	%	%	%	%
Mercury	0	8	8	8.4	100%	105%	4.9%	103%

Definition of Terms:

R1..... Result of Sample Analysis

Sp..... Spike Concentration Added to Sample

MS..... Matrix Spike Result

MSD..... Matrix Spike Duplicate Result

PR1..... Percent Recovery of MS; ((MS-R1) / SP) X 100

PR2..... Percent Recovery of MSD; ((MSD-R1) / SP) X 100

RPD..... Relative Percent Difference; ((MS-MSD)/(MS+MSD)/2)) X 100

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2465 W. 12th St., Suite 1, Tempe, AZ 85281 (602) 968-8272 FAX (602) 968-1338

QC DATA REPORT

EPA METHOD: **7196**
Matrix: Water

DATE: 6/30/95

SAMPLE #: EF02988

Analyte	R1	Sp	MS	MSD	PR1	PR2	RPD	MEAN PR
	ppb	ppb	ppb	ppb	%	%	%	%
Chromium (VI)	0	200	203	203	102%	102%	0.0%	102%

Definition of Terms:

R1..... Result of Sample Analysis

Sp..... Spike Concentration Added to Sample

MS..... Matrix Spike Result

MSD..... Matrix Spike Duplicate Result

PR1..... Percent Recovery of MS; ((MS-R1) / SP) X 100

PR2..... Percent Recovery of MSD; ((MSD-R1) / SP) X 100

RPD..... Relative Percent Difference; ((MS-MSD)/(MS+MSD)/2)) X 100

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QC DATA REPORT

EPA METHOD: 624
Matrix: Water

DATE: 6/30/95

SAMPLE #: EF02831

Analyte	R1	Sp	MS	MSD	PR1	PR2	RPD	MEAN PR
	ppb	ppb	ppb	ppb	%	%	%	%
Benzene	5.5	50	57	61	103%	111%	6.8%	107%
Chlorobenzene	0	50	47	49	94%	98%	4.2%	96%
1,1-Dichloroethane	0	50	33	35	66%	70%	5.9%	68%
1,2-Dichlororethane	0	50	46	48	92%	96%	4.3%	94%
1,1-Dichloroethene	0	50	37	40	74%	80%	7.8%	77%
Chloroform	0	50	41	47	82%	94%	13.6%	88%
Tetrachloroethene	25	50	65	67	80%	84%	3.0%	82%
Toluene	0	50	40	41	80%	82%	2.5%	81%
Trichloroethene	0	50	49	51	98%	102%	4.0%	100%
Vinyl Chloride	0	50	41	44	82%	88%	7.1%	85%

Definition of Terms:

R1..... Result of Sample Analysis

Sp..... Spike Concentration Added to Sample

MS..... Matrix Spike Result

MSD..... Matrix Spike Duplicate Result

PR1..... Percent Recovery of MS; ((MS-R1) / SP) X 100

PR2..... Percent Recovery of MSD; ((MSD-R1) / SP) X 100

RPD..... Relative Percent Difference; ((MS-MSD)/(MS+MSD)/2)) X 100

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QC DATA REPORT

METHOD: **Metals**
Instrument: ICP
Matrix: WATER

DATE: 6/30/95

SAMPLE #: Blank

Analyte	R1	SP	MS	MSD	PR1	PR2	RPD	MEAN PR
	ppb	ppb	ppb	ppb	%	%	%	%
Antimony	0	1000	881	831	88%	83%	5.8%	86%
Arsenic	0	1000	1104	1109	110%	111%	0.5%	111%
Barium	0	1000	994	972	99%	97%	2.2%	98%
Beryllium	0	1000	1017	1010	102%	101%	0.7%	101%
Cadmium	0	1000	1004	991	100%	99%	1.3%	100%
Chromium	0	1000	1013	1039	101%	104%	2.5%	103%
Cobalt	0	1000	987	989	99%	99%	0.2%	99%
Copper	0	1000	1007	974	101%	97%	3.3%	99%
Lead	0	1000	1028	1055	103%	106%	2.6%	104%
Molybdenum	0	1000	1001	985	100%	99%	1.6%	99%
Nickel	0	1000	981	933	98%	93%	5.0%	96%
Selenium	0	1000	1069	1137	107%	114%	6.2%	110%
Silver	0	1000	996	888	100%	89%	11.5%	94%
Thallium	0	1000	996	1115	100%	112%	11.3%	106%
Vanadium	0	1000	993	999	99%	100%	0.6%	100%
Zinc	0	1000	1058	1059	106%	106%	0.1%	106%

R1..... ..... Result of Sample Analysis
Sp..... ..... Spike Concentration Added to Sample
MS..... ..... Matrix Spike Result
MSD..... ..... Matrix Spike Duplicate Result
PR2..... ..... Percent Recovery of MSD; ((MSD-R1) / SP X 100
RPD..... ..... Relative Percent Difference; ((MS-MSD)/(MS+MSD)/2)) X 100

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2465 W. 12th St., Suite 1, Tempe, AZ 85281 (602) 968-8272 FAX (602) 968-1338

QC DATA REPORT

METHOD: **Metals**
Instrument: AA
Matrix: water

DATE: 7/3/95

SAMPLE #: Blank

Analyte	R1	SP	MS	MSD	PR1	PR2	RPD	MEAN PR
	ppb	ppb	ppb	ppb	%	%	%	%
Lead	0	25	26	26	104%	104%	0.0%	104%

R1..... ..... Result of Sample Analysis
Sp..... ..... Spike Concentration Added to Sample
MS..... ..... Matrix Spike Result
MSD..... ..... Matrix Spike Duplicate Result
PR1..... ..... Percent Recovery of MS; (MS-R1) / SP X 100
PR2..... ..... Percent Recovery of MSD; ((MSD-R1) / SP X 100
RPD..... ..... Relative Percent Difference; ((MS-MSD)/(MS+MSD)/2)) X 100

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QC DATA REPORT

METHOD: **Metals**
Instrument: AA
Matrix: water

DATE: 7/3/95

SAMPLE #: EF02992

Analyte	R1	SP	MS	MSD	PR1	PR2	RPD	MEAN PR
	ppb	ppb	ppb	ppb	%	%	%	%
Chromium	9.4	25	34	34	98%	100%	0.9%	99%

R1..... Result of Sample Analysis
Sp..... Spike Concentration Added to Sample
MS..... Matrix Spike Result
MSD..... Matrix Spike Duplicate Result
PR1..... Percent Recovery of MS; (MS-R1) / SP X 100
PR2..... Percent Recovery of MSD; ((MSD-R1) / SP X 100
RPD..... Relative Percent Difference; ((MS-MSD)/(MS+MSD)/2)) X 100

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CORRECTIVE ACTION REPORT

Date: 7/3 - 7/4/95
Department: GC/MS
Method: Water
Matrix: EPA 8270

Identification and Definition of the Problem:

The Matrix Spike and Matrix Spike Duplicate recoveries were low. Some compounds were below control limits.

Determination of the Cause of the Problem:

Water samples for EPA 8270 are usually extracted using the Continuous Liquid-Liquid Extraction procedure, which regularly demonstrates acceptable QC recoveries. In order to meet client needs, a batch of samples and QC was extracted using the Separatory Funnel Liquid-Liquid Extraction procedure, which produced lower QC recoveries.

Corrective Action:

The Laboratory Control Sample was reviewed and determined to be within control limits. The extraction technicians returned to using the Continuous Liquid-Liquid Extraction procedure. No further corrective actions were made.

QA/QC Officer Signature: Deborah Patrick Date: 7/11/95

Del Mar Analytical

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LABORATORY CONTROL SAMPLE

EPA METHOD 8270

Matrix: Water

DATE: 7/3/95 **SOURCE:** Ultra

Analyte	St	R1	PR	QC LIMITS
	ng	ng	%	%
Phenol	50	12	24%	5-122
1,4-Dichlorobenzene	50	31	62%	20-124
2-Nitrophenol	50	23	46%	29-182
2,4-Dichlorophenol	50	23	46%	39-135
Hexachlorobutadiene	50	39	78%	24-116
4-Chloro-3-Methylphenol	50	25	50%	22-147
2,4,6-Trichlorophenol	50	23	46%	37-144
Acenaphthene	50	49	98%	47-145
n-Nitrosodiphenylamine	50	54	108%	41-116
Pentachlorophenol	50	44	88%	17-109
Fluoranthene	50	61	122%	26-137
Di-n-octylphthalate	50	53	106%	4-146
Benzo(a)pyrene	50	60	120%	17-163

Definition of Terms:

St. . . . . Total nanograms of standard added to sample

R1 . . . . . Standard Result

PR . . . . . Percent Recovery

QC LIMITS . . . . . Acceptable Percent Recovery Range

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QC DATA REPORT

EPA METHOD: **8270**
Matrix: Water

DATE: 7/3/95

SAMPLE #: Blank

Analyte	R1	Sp	MS	MSD	PR1	PR2	RPD	MEAN PR
	ppb	ppb	ppb	ppb	%	%	%	%
1,4-Dichlorobenzene	0	50	19	18	38%	36%	5.4%	37%
n-nitroso-di-n-propylamine	0	50	20	20	40%	40%	0.0%	40%
1,2,4-Trichlorobenzene	0	50	21	19	42%	38%	10.0%	40%
Acenaphthene	0	50	23	24	46%	48%	4.3%	47%
2,4-Dinitrotoluene	0	50	25	29	50%	58%	14.8%	54%
Pyrene	0	50	50	50	100%	100%	0.0%	100%
4-Chloro-3-methylphenol	0	100	26	43	26%	43%	49.3%	35%
2-Chlorophenol	0	100	24	40	24%	40%	50.0%	32%
4-Nitrophenol	0	100	12	18	12%	18%	40.0%	15%
Pentachlorophenol	0	100	55	67	55%	67%	19.7%	61%
Phenol	0	100	11	21	11%	21%	62.5%	16%

Definition of Terms:

R1..... **Result of Sample Analysis**

Sp..... **Spike Concentration Added to Sample**

MS..... **Matrix Spike Result**

MSD..... **Matrix Spike Duplicate Result**

PR1..... **Percent Recovery of MS; ((MS-R1) / SP) X 100**

PR2..... **Percent Recovery of MSD; ((MSD-R1) / SP) X 100**

RPD..... **Relative Percent Difference; ((MS-MSD)/(MS+MSD)/2)) X 100**

Del Mar Analytical

Harding Lawson Associates
15621 Redhill Avenue, Suite 100
Tustin, California 92680
714/259-7992 — 213/617-7232
Telecopy: 714/259-1378

CHAIN OF CUSTODY FORM

Lab: DEL MAR

Samplers: HARDESTY

Job Number: 32026

Name/Location: OMEGA / WHITTIER

Project Manager: A. KELLER

Recorder: Hardesty (Signature Required)

SOURCE CODE	MATRIX: Water	Sediment	Soil	Oil	#CONTAINERS & PRESERV.: Unpres.	H_2SO_4	HNO_3	SAMPLE NUMBER OR LAB NUMBER: Yr	Wk	Seq	DATE: Yr	Mo	Dy	Time	STATION DESCRIPTION/ NOTES
	X				2			SURF	-	E	95	06	29	1215	SURFACE EAST
					1									1215	
							1							1215	
					2			SURF	-	W				1220	SURFACE WEST
					1									1220	
							1							1220	
					2			2000	GAL					1225	2000 GAL. STAINLESS
					1			2000	GAL					1225	
	X						1	2000	GAL		95	06	29	1225	

ANALYSIS REQUESTED	EPA 601/8010	EPA 602/8020	EPA 624/8240	EPA 625/8270	Priority Pllnt. Metals	Benzene/Toluene/Xylene	Total Petrol. Hydrocarb.	METALS 17 CAM
		X						
			X					
								X
		X						
			X					
								X
		X						
			X					
								X

LAB NUMBER: Yr	Wk	Seq	DEPTH IN FEET	COL MTD CD	QA CODE	MISCELLANEOUS
						48 HR TAT

CHAIN OF CUSTODY RECORD

RELINQUISHED BY: (Signature) Hardesty 1255	RECEIVED BY: (Signature) Maria Lemus	DATE/TIME 6-29-95 12:55
RELINQUISHED BY: (Signature) Maria Lemus 6-29-95 2:20	RECEIVED BY: (Signature)	DATE/TIME
RELINQUISHED BY: (Signature)	RECEIVED BY: (Signature)	DATE/TIME
RELINQUISHED BY: (Signature)	RECEIVED BY: (Signature)	DATE/TIME
DISPATCHED BY: (Signature) DATE/TIME	RECEIVED FOR LAB BY: (Signature)	DATE/TIME 6/29 2:20
METHOD OF SHIPMENT Hand delivered		

Laboratory Copy White — Project Office Copy Yellow — Field or Office Copy Pink

6533

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Harding Lawson Associates
3 Hutton Centre, Suite 300
Santa Ana, CA 92707
Attention: Andrew Keller

Client Project ID: Omega 32026
Omega/Whittier
Sample Descript: Water, Shiela
Lab Number: EF02994

Sampled: Jun 29, 1995
Received: Jun 29, 1995
Extracted: Jun 30, 1995
Analyzed: Jun 30, 1995
Reported: Jul 13, 1995

VOLATILE ORGANICS by GC/MS (EPA 8240)

Analyte	Detection Limit µg/L (ppb)	Sample Result µg/L (ppb)
Acetone	50,000	N.D.
Benzene	10,000	N.D.
Bromodichloromethane	10,000	N.D.
Bromoform	10,000	N.D.
Bromomethane	25,000	N.D.
2-Butanone	50,000	N.D.
Carbon disulfide	25,000	N.D.
Carbon tetrachloride	25,000	N.D.
Chlorobenzene	10,000	N.D.
Chlorodibromomethane	10,000	N.D.
Chloroethane	25,000	N.D.
2-Chloroethyl vinyl ether	10,000	N.D.
Chloroform	10,000	N.D.
Chloromethane	25,000	N.D.
1,1-Dichloroethane	10,000	N.D.
1,2-Dichloroethane	10,000	N.D.
1,1-Dichloroethene	25,000	N.D.
cis-1,2-Dichloroethene	10,000	N.D.
trans-1,2-Dichloroethene	10,000	N.D.
1,2-Dichloropropane	10,000	N.D.
cis-1,3-Dichloropropene	10,000	N.D.
trans-1,3-Dichloropropene	10,000	N.D.
Ethylbenzene	10,000	N.D.
2-Hexanone	50,000	N.D.
Methylene chloride	50,000	N.D.
4-Methyl-2-pentanone	25,000	N.D.
Styrene	10,000	N.D.
1,1,2,2-Tetrachloroethane	10,000	N.D.
Tetrachloroethene	**10,000**	**570,000**
Toluene	**10,000**	**30,000**
1,1,1-Trichloroethane	**10,000**	**44,000**
1,1,2-Trichloroethane	10,000	N.D.
Trichloroethene	**10,000**	**210,000**
Trichlorofluoromethane	25,000	N.D.
Vinyl acetate	25,000	N.D.
Vinyl chloride	25,000	N.D.
Total Xylenes	**10,000**	**18,000**

Analytes reported as N.D. were not present above the stated limit of detection. Due to matrix effects and/or other factors, the sample required dilution.
Detection limits for this sample have been raised by a factor of 5000.

DEL MAR ANALYTICAL, IRVINE (ELAP #1197)

Gary Steube
Laboratory Director

Surrogate Standard Recoveries (Accept. Limits):	
1,2-Dichloroethane-d4 (76-114)	90%
Toluene-d8 (88-110)	91%
4-Bromofluorobenzene (86-115)	97%

Results pertain only to samples tested in the laboratory. This report shall not be reproduced, except in full, without written permission from Del Mar Analytical.

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Harding Lawson Associates	Client Project ID:	Omega 32026	Sampled: Jun 29, 19[illegible]
3 Hutton Centre, Suite 300		Omega/Whittier	Received: Jun 29, 1995
Santa Ana, CA 92707	Sample Descript:	Water, Amy	Extracted: Jul 1, 1995
Attention: Andrew Keller	Lab Number:	EF02995	Analyzed: Jul 1, 1995
			Reported: Jul 13, 1995

VOLATILE ORGANICS by GC/MS (EPA 8240)

Analyte	Detection Limit µg/L (ppb)	Sample Result µg/L (ppb)
Acetone	**1,000**	**16,000**
Benzene	200	N.D.
Bromodichloromethane	200	N.D.
Bromoform	**200**	**330**
Bromomethane	500	N.D.
2-Butanone	1,000	N.D.
Carbon disulfide	500	N.D.
Carbon tetrachloride	500	N.D.
Chlorobenzene	200	N.D.
Chlorodibromomethane	200	N.D.
Chloroethane	500	N.D.
2-Chloroethyl vinyl ether	200	N.D.
Chloroform	200	N.D.
Chloromethane	500	N.D.
1,1-Dichloroethane	200	N.D.
1,2-Dichloroethane	200	N.D.
1,1-Dichloroethene	500	N.D.
cis-1,2-Dichloroethene	200	N.D.
trans-1,2-Dichloroethene	200	N.D.
1,2-Dichloropropane	200	N.D.
cis-1,3-Dichloropropene	200	N.D.
trans-1,3-Dichloropropene	200	N.D.
Ethylbenzene	200	N.D.
2-Hexanone	1,000	N.D.
Methylene chloride	1,000	N.D.
4-Methyl-2-pentanone	500	N.D.
Styrene	200	N.D.
1,1,2,2-Tetrachloroethane	200	N.D.
Tetrachloroethene	**200**	**5,100**
Toluene	200	N.D.
1,1,1-Trichloroethane	200	N.D.
1,1,2-Trichloroethane	200	N.D.
Trichloroethene	200	N.D.
Trichlorofluoromethane	500	N.D.
Vinyl acetate	500	N.D.
Vinyl chloride	500	N.D.
Total Xylenes	200	N.D.

Analytes reported as N.D. were not present above the stated limit of detection. Due to matrix effects and/or other factors, the sample required dilution. Detection limits for this sample have been raised by a factor of 100.

DEL MAR ANALYTICAL, IRVINE (ELAP #1197)

Gary Steube
Laboratory Director

Surrogate Standard Recoveries (Accept. Limits):	
1,2-Dichloroethane-d4 (76-114)	94%
Toluene-d8 (88-110)	96%
4-Bromofluorobenzene (86-115)	95%

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Harding Lawson Associates
3 Hutton Centre, Suite 300
Santa Ana, CA 92707
Attention: Andrew Keller

Client Project ID: Omega 32026
Omega/Whittier
Sample Descript: Water, Linda
Lab Number: EF02996

Sampled: Jun 29, 1995
Received: Jun 29, 1995
Extracted: Jul 1, 1995
Analyzed: Jul 1, 1995
Reported: Jul 13, 1995

VOLATILE ORGANICS by GC/MS (EPA 8240)

Analyte	Detection Limit µg/L (ppb)	Sample Result µg/L (ppb)
Acetone	**25**	**140**
Benzene	5.0	N.D.
Bromodichloromethane	5.0	N.D.
Bromoform	**5.0**	**270**
Bromomethane	13	N.D.
2-Butanone	25	N.D.
Carbon disulfide	13	N.D.
Carbon tetrachloride	13	N.D.
Chlorobenzene	5.0	N.D.
Chlorodibromomethane	5.0	N.D.
Chloroethane	13	N.D.
2-Chloroethyl vinyl ether	5.0	N.D.
Chloroform	5.0	N.D.
Chloromethane	13	N.D.
1,1-Dichloroethane	5.0	N.D.
1,2-Dichloroethane	5.0	N.D.
1,1-Dichloroethene	13	N.D.
cis-1,2-Dichloroethene	5.0	N.D.
trans-1,2-Dichloroethene	5.0	N.D.
1,2-Dichloropropane	5.0	N.D.
cis-1,3-Dichloropropene	5.0	N.D.
trans-1,3-Dichloropropene	5.0	N.D.
Ethylbenzene	5.0	N.D.
2-Hexanone	25	N.D.
Methylene chloride	25	N.D.
4-Methyl-2-pentanone	13	N.D.
Styrene	5.0	N.D.
1,1,2,2-Tetrachloroethane	5.0	N.D.
Tetrachloroethene	**5.0**	**32**
Toluene	5.0	N.D.
1,1,1-Trichloroethane	**5.0**	**11**
1,1,2-Trichloroethane	5.0	N.D.
Trichloroethene	**5.0**	**11**
Trichlorofluoromethane	**13**	**24**
Vinyl acetate	13	N.D.
Vinyl chloride	13	N.D.
Total Xylenes	5.0	N.D.

Analytes reported as N.D. were not present above the stated limit of detection. Due to matrix effects and/or other factors, the sample required dilution.
Detection limits for this sample have been raised by a factor of 2.5.

DEL MAR ANALYTICAL, IRVINE (ELAP #1197)

Gary Steube
Laboratory Director

Surrogate Standard Recoveries (Accept. Limits):	
1,2-Dichloroethane-d4 (76-114)	109%
Toluene-d8 (88-110)	95%
4-Bromofluorobenzene (86-115)	101%

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Harding Lawson Associates	Client Project ID: Omega 32026	Sampled:	Jun 29, 19
3 Hutton Centre, Suite 300	Omega/Whittier	Received:	Jun 29, 1995
Santa Ana, CA 92707	Sample Descript: Water, Shiela	Extracted:	Jul 5, 1995
Attention: Andrew Keller	Lab Number: EF02994	Analyzed:	Jul 13, 1995
		Reported:	Jul 13, 1995

SEMI-VOLATILE ORGANICS by GC/MS (EPA 3520/8270)

Analyte	Detection Limit µg/L (ppb)	Sample Result µg/L (ppb)	Analyte	Detection Limit µg/L (ppb)	Sample Result µg/L (ppb)
Acenaphthene	13,000	N.D.	Dimethyl phthalate	13,000	N.D.
Acenaphthylene	13,000	N.D.	4,6-Dinitro-2-methylphenol	50,000	N.D.
Aniline	13,000	N.D.	2,4-Dinitrophenol	130,000	N.D.
Anthracene	13,000	N.D.	2,4-Dinitrotoluene	13,000	N.D.
Azobenzene	25,000	N.D.	2,6-Dinitrotoluene	13,000	N.D.
Benzidine	130,000	N.D.	Di-N-octyl phthalate	50,000	N.D.
Benzoic Acid	130,000	N.D.	Fluoranthene	13,000	N.D.
Benz(a)anthracene	13,000	N.D.	Fluorene	13,000	N.D.
Benzo(b)fluoranthene	13,000	N.D.	Hexachlorobenzene	13,000	N.D.
Benzo(k)fluoranthene	13,000	N.D.	Hexachlorobutadiene	13,000	N.D.
Benzo(g,h,i)perylene	13,000	N.D.	Hexachlorocyclopentadiene	50,000	N.D.
Benzo(a)pyrene	13,000	N.D.	Hexachloroethane	13,000	N.D.
Benzyl alcohol	25,000	N.D.	Indeno(1,2,3-cd)pyrene	25,000	N.D.
Bis(2-chloroethoxy)methane	13,000	N.D.	Isophorone	13,000	N.D.
Bis(2-chloroethyl)ether	13,000	N.D.	2-Methylnaphthalene	13,000	N.D.
Bis(2-chloroisopropyl)ether	13,000	N.D.	2-Methylphenol	13,000	N.D.
Bis(2-ethylhexyl)phthalate	25,000	N.D.	**4-Methylphenol**	**13,000**	**82,000**
4-Bromophenyl phenyl ether	13,000	N.D.	Naphthalene	13,000	N.D.
Butyl benzyl phthalate	25,000	N.D.	2-Nitroaniline	25,000	N.D.
4-Chloroaniline	13,000	N.D.	3-Nitroaniline	25,000	N.D.
2-Chloronaphthalene	13,000	N.D.	4-Nitroaniline	130,000	N.D.
4-Chloro-3-methylphenol	25,000	N.D.	Nitrobenzene	50,000	N.D.
2-Chlorophenol	13,000	N.D.	2-Nitrophenol	13,000	N.D.
4-Chlorophenyl phenyl ether	13,000	N.D.	4-Nitrophenol	130,000	N.D.
Chrysene	13,000	N.D.	N-Nitrosodiphenylamine	13,000	N.D.
Dibenz(a,h)anthracene	25,000	N.D.	N-Nitroso-di-N-propylamine	13,000	N.D.
Dibenzofuran	13,000	N.D.	Pentachlorophenol	50,000	N.D.
Di-N-butyl phthalate	25,000	N.D.	Phenanthrene	13,000	N.D.
1,3-Dichlorobenzene	13,000	N.D.	**Phenol**	**13,000**	**26,000**
1,4-Dichlorobenzene	13,000	N.D.	Pyrene	13,000	N.D.
1,2-Dichlorobenzene	**13,000**	**16,000**	1,2,4-Trichlorobenzene	13,000	N.D.
3,3-Dichlorobenzidine	50,000	N.D.	2,4,5-Trichlorophenol	25,000	N.D.
2,4-Dichlorophenol	13,000	N.D.	2,4,6-Trichlorophenol	25,000	N.D.
Diethyl phthalate	13,000	N.D.			
2,4-Dimethylphenol	25,000	N.D.			

Analytes reported as N.D. were not present above the stated limit of detection. Due to matrix effects and/or other factors, the sample required dilution. Detection limits for this sample have been raised by a factor of 1250.

DEL MAR ANALYTICAL, IRVINE (ELAP #1197)

Gary Steube
Laboratory Director

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Harding Lawson Associates
3 Hutton Centre, Suite 300
Santa Ana, CA 92707
Attention: Andrew Keller

Client Project ID: Omega 32026
Omega/Whittier
Sample Descript: Water, Amy
Lab Number: EF02995

Sampled: Jun 29, 1995
Received: Jun 29, 1995
Extracted: Jun 30, 1995
Analyzed: Jul 4, 1995
Reported: Jul 13, 1995

SEMI-VOLATILE ORGANICS by GC/MS (EPA 3520/8270)

Analyte	Detection Limit µg/L (ppb)	Sample Result µg/L (ppb)	Analyte	Detection Limit µg/L (ppb)	Sample Result µg/L (ppb)
Acenaphthene	200	N.D.	Dimethyl phthalate	200	N.D.
Acenaphthylene	200	N.D.	4,6-Dinitro-2-methylphenol	800	N.D.
Aniline	200	N.D.	2,4-Dinitrophenol	2,000	N.D.
Anthracene	200	N.D.	2,4-Dinitrotoluene	200	N.D.
Azobenzene	400	N.D.	2,6-Dinitrotoluene	200	N.D.
Benzidine	2,000	N.D.	Di-N-octyl phthalate	800	N.D.
Benzoic Acid	2,000	N.D.	Fluoranthene	200	N.D.
Benz(a)anthracene	200	N.D.	Fluorene	200	N.D.
Benzo(b)fluoranthene	200	N.D.	Hexachlorobenzene	200	N.D.
Benzo(k)fluoranthene	200	N.D.	Hexachlorobutadiene	200	N.D.
Benzo(g,h,i)perylene	200	N.D.	Hexachlorocyclopentadiene	800	N.D.
Benzo(a)pyrene	200	N.D.	Hexachloroethane	200	N.D.
Benzyl alcohol	400	N.D.	Indeno(1,2,3-cd)pyrene	400	N.D.
Bis(2-chloroethoxy)methane	200	N.D.	Isophorone	200	N.D.
Bis(2-chloroethyl)ether	200	N.D.	2-Methylnaphthalene	200	N.D.
Bis(2-chloroisopropyl)ether	200	N.D.	2-Methylphenol	200	N.D.
Bis(2-ethylhexyl)phthalate	400	N.D.	4-Methylphenol	200	N.D.
4-Bromophenyl phenyl ether	200	N.D.	Naphthalene	200	N.D.
Butyl benzyl phthalate	400	N.D.	2-Nitroaniline	400	N.D.
4-Chloroaniline	200	N.D.	3-Nitroaniline	400	N.D.
2-Chloronaphthalene	200	N.D.	4-Nitroaniline	2,000	N.D.
4-Chloro-3-methylphenol	400	N.D.	Nitrobenzene	800	N.D.
2-Chlorophenol	200	N.D.	2-Nitrophenol	200	N.D.
4-Chlorophenyl phenyl ether	200	N.D.	4-Nitrophenol	2,000	N.D.
Chrysene	200	N.D.	N-Nitrosodiphenylamine	200	N.D.
Dibenz(a,h)anthracene	400	N.D.	N-Nitroso-di-N-propylamine	200	N.D.
Dibenzofuran	200	N.D.	Pentachlorophenol	800	N.D.
Di-N-butyl phthalate	400	N.D.	Phenanthrene	200	N.D.
1,3-Dichlorobenzene	200	N.D.	Phenol	200	N.D.
1,4-Dichlorobenzene	200	N.D.	Pyrene	200	N.D.
1,2-Dichlorobenzene	200	N.D.	1,2,4-Trichlorobenzene	200	N.D.
3,3-Dichlorobenzidine	800	N.D.	2,4,5-Trichlorophenol	400	N.D.
2,4-Dichlorophenol	200	N.D.	2,4,6-Trichlorophenol	400	N.D.
Diethyl phthalate	200	N.D.			
2,4-Dimethylphenol	400	N.D.			

Analytes reported as N.D. were not present above the stated limit of detection. Due to matrix effects and/or other factors, the sample required dilution. Detection limits for this sample have been raised by a factor of 20.

DEL MAR ANALYTICAL, IRVINE (ELAP #1197)

Gary Steube
Laboratory Director

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Harding Lawson Associates	Client Project ID: Omega 32026	Sampled:	Jun 29, 199
3 Hutton Centre, Suite 300	Omega/Whittier	Received:	Jun 29, 1995
Santa Ana, CA 92707	Sample Descript: Water, Linda	Extracted:	Jun 30, 1995
Attention: Andrew Keller	Lab Number: EF02996	Analyzed:	Jul 4, 1995
		Reported:	Jul 13, 1995

SEMI-VOLATILE ORGANICS by GC/MS (EPA 3520/8270)

Analyte	Detection Limit µg/L (ppb)	Sample Result µg/L (ppb)	Analyte	Detection Limit µg/L (ppb)	Sample Result µg/L (ppb)
Acenaphthene	100	N.D.	Dimethyl phthalate	100	N.D.
Acenaphthylene	100	N.D.	4,6-Dinitro-2-methylphenol	400	N.D.
Aniline	100	N.D.	2,4-Dinitrophenol	1,000	N.D.
Anthracene	100	N.D.	2,4-Dinitrotoluene	100	N.D.
Azobenzene	200	N.D.	2,6-Dinitrotoluene	100	N.D.
Benzidine	1,000	N.D.	Di-N-octyl phthalate	400	N.D.
Benzoic Acid	1,000	N.D.	Fluoranthene	100	N.D.
Benz(a)anthracene	100	N.D.	Fluorene	100	N.D.
Benzo(b)fluoranthene	100	N.D.	Hexachlorobenzene	100	N.D.
Benzo(k)fluoranthene	100	N.D.	Hexachlorobutadiene	100	N.D.
Benzo(g,h,i)perylene	100	N.D.	Hexachlorocyclopentadiene	400	N.D.
Benzo(a)pyrene	100	N.D.	Hexachloroethane	100	N.D.
Benzyl alcohol	200	N.D.	Indeno(1,2,3-cd)pyrene	200	N.D.
Bis(2-chloroethoxy)methane	100	N.D.	Isophorone	100	N.D.
Bis(2-chloroethyl)ether	100	N.D.	2-Methylnaphthalene	100	N.D.
Bis(2-chloroisopropyl)ether	100	N.D.	2-Methylphenol	100	N.D.
Bis(2-ethylhexyl)phthalate	200	N.D.	4-Methylphenol	100	N.D.
4-Bromophenyl phenyl ether	100	N.D.	Naphthalene	100	N.D.
Butyl benzyl phthalate	200	N.D.	2-Nitroaniline	200	N.D.
4-Chloroaniline	100	N.D.	3-Nitroaniline	200	N.D.
2-Chloronaphthalene	100	N.D.	4-Nitroaniline	1,000	N.D.
4-Chloro-3-methylphenol	200	N.D.	Nitrobenzene	400	N.D.
2-Chlorophenol	100	N.D.	2-Nitrophenol	100	N.D.
4-Chlorophenyl phenyl ether	100	N.D.	4-Nitrophenol	1,000	N.D.
Chrysene	100	N.D.	N-Nitrosodiphenylamine	100	N.D.
Dibenz(a,h)anthracene	200	N.D.	N-Nitroso-di-N-propylamine	100	N.D.
Dibenzofuran	100	N.D.	Pentachlorophenol	400	N.D.
Di-N-butyl phthalate	200	N.D.	Phenanthrene	100	N.D.
1,3-Dichlorobenzene	100	N.D.	Phenol	100	N.D.
1,4-Dichlorobenzene	100	N.D.	Pyrene	100	N.D.
1,2-Dichlorobenzene	100	N.D.	1,2,4-Trichlorobenzene	100	N.D.
3,3-Dichlorobenzidine	400	N.D.	2,4,5-Trichlorophenol	200	N.D.
2,4-Dichlorophenol	100	N.D.	2,4,6-Trichlorophenol	200	N.D.
Diethyl phthalate	100	N.D.			
2,4-Dimethylphenol	200	N.D.			

Analytes reported as N.D. were not present above the stated limit of detection. Due to matrix effects and/or other factors, the sample required dilution. Detection limits for this sample have been raised by a factor of 10.

DEL MAR ANALYTICAL, IRVINE (ELAP #1197)

Gary Steube
Laboratory Director

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Harding Lawson Associates	Client Project ID:	Omega 32026	Sampled: Jun 29, 1995
3 Hutton Centre, Suite 300		Omega/Whittier	Received: Jun 29, 1995
Santa Ana, CA 92707	Sample Descript:	Water, Shiela	Extracted: Jun 30, 1995
Attention: Andrew Keller	Lab Number:	EF02994	Analyzed: 6/30-7/5, 1995
			Reported: Jul 13, 1995

CALIFORNIA CODE OF REGULATIONS, TITLE 22 METALS

Analyte	EPA Method	Detection Limit mg/L (ppm)	Sample Result mg/L (ppm)
Antimony	6010	0.50	N.D.
Arsenic	7060	0.010	0.015
Barium	6010	0.050	0.57
Beryllium	6010	0.010	N.D.
Cadmium	6010	0.0050	0.042
Chromium, VI	7196	0.25	N.D.
Chromium, total	6010	0.050	6.9
Cobalt	6010	0.050	0.40
Copper	6010	0.050	1.1
Lead	6010	0.050	1.4
Mercury	7470	0.00020	0.012
Molybdenum	6010	0.10	0.53
Nickel	6010	0.050	3.7
Selenium	7740	0.010	N.D.
Silver	6010	0.050	N.D.
Thallium	6010	0.50	N.D.
Vanadium	6010	0.050	N.D.
Zinc	6010	0.050	3.4

Analytes reported as N.D. were not present above the stated limit of detection.

DEL MAR ANALYTICAL, IRVINE (ELAP #1197)

Gary Steube
Laboratory Director

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Harding Lawson Associates	Client Project ID:	Omega 32026	Sampled: Jun 29, 19
3 Hutton Centre, Suite 300		Omega/Whittier	Received: Jun 29, 1995
Santa Ana, CA 92707	Sample Descript:	Water, Amy	Extracted: Jun 30, 1995
Attention: Andrew Keller	Lab Number:	EF02995	Analyzed: 6/30-7/5, 1995
			Reported: Jul 13, 1995

CALIFORNIA CODE OF REGULATIONS, TITLE 22 METALS

Analyte	EPA Method	Detection Limit mg/L (ppm)	Sample Result mg/L (ppm)
Antimony	6010	0.50	2.8
Arsenic	7060	0.010	N.D.
Barium	6010	0.050	N.D.
Beryllium	6010	0.010	N.D.
Cadmium	6010	0.0050	0.66
Chromium, VI	7196	0.25	N.D.
Chromium, total	6010	0.050	370
Cobalt	6010	0.050	N.D.
Copper	6010	0.050	24
Lead	6010	0.050	2.5
Mercury	7470	0.00020	0.0027
Molybdenum	6010	0.10	8.6
Nickel	6010	0.050	0.16
Selenium	7740	0.010	N.D.
Silver	6010	0.050	N.D.
Thallium	6010	0.50	N.D.
Vanadium	6010	0.050	N.D.
Zinc	6010	0.050	1.4

Analytes reported as N.D. were not present above the stated limit of detection.

DEL MAR ANALYTICAL, IRVINE (ELAP #1197)

Gary Steube
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Harding Lawson Associates	Client Project ID:	Omega 32026	Sampled: Jun 29, 1995
3 Hutton Centre, Suite 300		Omega/Whittier	Received: Jun 29, 1995
Santa Ana, CA 92707	Sample Descript:	Water, Linda	Extracted: Jun 30, 1995
Attention: Andrew Keller	Lab Number:	EF02996	Analyzed: 6/30-7/5, 1995
			Reported: Jul 13, 1995

CALIFORNIA CODE OF REGULATIONS, TITLE 22 METALS

Analyte	EPA Method	Detection Limit mg/L (ppm)	Sample Result mg/L (ppm)
Antimony	6010	0.50	N.D.
Arsenic	7060	0.010	N.D.
Barium	6010	0.050	N.D.
Beryllium	6010	0.010	N.D.
Cadmium	6010	0.0050	0.076
Chromium, VI	7196	0.25	N.D.
Chromium, total	6010	0.050	17
Cobalt	6010	0.050	N.D.
Copper	6010	0.050	53
Lead	6010	0.050	0.13
Mercury	7470	0.00020	0.010
Molybdenum	6010	0.10	1.5
Nickel	6010	0.050	0.066
Selenium	7740	0.010	N.D.
Silver	6010	0.050	N.D.
Thallium	6010	0.50	N.D.
Vanadium	6010	0.050	N.D.
Zinc	6010	0.050	1.4

Analytes reported as N.D. were not present above the stated limit of detection.

DEL MAR ANALYTICAL, IRVINE (ELAP #1197)

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Laboratory Director

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Harding Lawson Associates
3 Hutton Centre, Suite 300
Santa Ana, CA 92707
Attention: Andrew Keller

Method Blank

Extracted: Jun 30, 199
Analyzed: Jun 30, 1995
Reported: Jul 13, 1995
Matrix: Water

VOLATILE ORGANICS by GC/MS (EPA 8240)

Analyte	Detection Limit µg/L (ppb)	Sample Result µg/L (ppb)
Acetone	10	N.D.
Benzene	2.0	N.D.
Bromodichloromethane	2.0	N.D.
Bromoform	2.0	N.D.
Bromomethane	5.0	N.D.
2-Butanone	10	N.D.
Carbon disulfide	5.0	N.D.
Carbon tetrachloride	5.0	N.D.
Chlorobenzene	2.0	N.D.
Chlorodibromomethane	2.0	N.D.
Chloroethane	5.0	N.D.
2-Chloroethyl vinyl ether	2.0	N.D.
Chloroform	2.0	N.D.
Chloromethane	5.0	N.D.
1,1-Dichloroethane	2.0	N.D.
1,2-Dichloroethane	2.0	N.D.
1,1-Dichloroethene	5.0	N.D.
cis-1,2-Dichloroethene	2.0	N.D.
trans-1,2-Dichloroethene	2.0	N.D.
1,2-Dichloropropane	2.0	N.D.
cis-1,3-Dichloropropene	2.0	N.D.
trans-1,3-Dichloropropene	2.0	N.D.
Ethylbenzene	2.0	N.D.
2-Hexanone	10	N.D.
Methylene chloride	10	N.D.
4-Methyl-2-pentanone	5.0	N.D.
Styrene	2.0	N.D.
1,1,2,2-Tetrachloroethane	2.0	N.D.
Tetrachloroethene	2.0	N.D.
Toluene	2.0	N.D.
1,1,1-Trichloroethane	2.0	N.D.
1,1,2-Trichloroethane	2.0	N.D.
Trichloroethene	2.0	N.D.
Trichlorofluoromethane	5.0	N.D.
Vinyl acetate	5.0	N.D.
Vinyl chloride	5.0	N.D.
Total Xylenes	2.0	N.D.

Analytes reported as N.D. were not present above the stated limit of detection.

DEL MAR ANALYTICAL, IRVINE (ELAP #1197)

Gary Steube
Laboratory Director

Surrogate Standard Recoveries (Accept. Limits):	
1,2-Dichloroethane-d4 (76-114)	92%
Toluene-d8 (88-110)	90%
4-Bromofluorobenzene (86-115)	95%

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Harding Lawson Associates
3 Hutton Centre, Suite 300
Santa Ana, CA 92707
Attention: Andrew Keller

Method Blank

Extracted: Jul 1, 1995
Analyzed: Jul 1, 1995
Reported: Jul 13, 1995
Matrix: Water

VOLATILE ORGANICS by GC/MS (EPA 8240)

Analyte	Detection Limit µg/L (ppb)	Sample Result µg/L (ppb)
Acetone	10	N.D.
Benzene	2.0	N.D.
Bromodichloromethane	2.0	N.D.
Bromoform	2.0	N.D.
Bromomethane	5.0	N.D.
2-Butanone	10	N.D.
Carbon disulfide	5.0	N.D.
Carbon tetrachloride	5.0	N.D.
Chlorobenzene	2.0	N.D.
Chlorodibromomethane	2.0	N.D.
Chloroethane	5.0	N.D.
2-Chloroethyl vinyl ether	2.0	N.D.
Chloroform	2.0	N.D.
Chloromethane	5.0	N.D.
1,1-Dichloroethane	2.0	N.D.
1,2-Dichloroethane	2.0	N.D.
1,1-Dichloroethene	5.0	N.D.
cis-1,2-Dichloroethene	2.0	N.D.
trans-1,2-Dichloroethene	2.0	N.D.
1,2-Dichloropropane	2.0	N.D.
cis-1,3-Dichloropropene	2.0	N.D.
trans-1,3-Dichloropropene	2.0	N.D.
Ethylbenzene	2.0	N.D.
2-Hexanone	10	N.D.
Methylene chloride	10	N.D.
4-Methyl-2-pentanone	5.0	N.D.
Styrene	2.0	N.D.
1,1,2,2-Tetrachloroethane	2.0	N.D.
Tetrachloroethene	2.0	N.D.
Toluene	2.0	N.D.
1,1,1-Trichloroethane	2.0	N.D.
1,1,2-Trichloroethane	2.0	N.D.
Trichloroethene	2.0	N.D.
Trichlorofluoromethane	5.0	N.D.
Vinyl acetate	5.0	N.D.
Vinyl chloride	5.0	N.D.
Total Xylenes	2.0	N.D.

Analytes reported as N.D. were not present above the stated limit of detection.

DEL MAR ANALYTICAL, IRVINE (ELAP #1197)

Gary Steube
Laboratory Director

Surrogate Standard Recoveries (Accept. Limits):	
1,2-Dichloroethane-d4 (76-114)	97%
Toluene-d8 (88-110)	90%
4-Bromofluorobenzene (86-115)	95%

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Harding Lawson Associates
3 Hutton Centre, Suite 300
Santa Ana, CA 92707
Attention: Andrew Keller

Method Blank

Extracted: Jun 30, 19
Analyzed: Jul 4, 1995
Reported: Jul 13, 1995
Matrix Water

SEMI-VOLATILE ORGANICS by GC/MS (EPA 3520/8270)

Analyte	Detection Limit µg/L (ppb)	Sample Result µg/L (ppb)	Analyte	Detection Limit µg/L (ppb)	Sample Result µg/L (ppb)
Acenaphthene	10	N.D.	Dimethyl phthalate	10	N.D.
Acenaphthylene	10	N.D.	4,6-Dinitro-2-methylphenol	40	N.D.
Aniline	10	N.D.	2,4-Dinitrophenol	100	N.D.
Anthracene	10	N.D.	2,4-Dinitrotoluene	10	N.D.
Azobenzene	20	N.D.	2,6-Dinitrotoluene	10	N.D.
Benzidine	100	N.D.	Di-N-octyl phthalate	40	N.D.
Benzoic Acid	100	N.D.	Fluoranthene	10	N.D.
Benz(a)anthracene	10	N.D.	Fluorene	10	N.D.
Benzo(b)fluoranthene	10	N.D.	Hexachlorobenzene	10	N.D.
Benzo(k)fluoranthene	10	N.D.	Hexachlorobutadiene	10	N.D.
Benzo(g,h,i)perylene	10	N.D.	Hexachlorocyclopentadiene	40	N.D.
Benzo(a)pyrene	10	N.D.	Hexachloroethane	10	N.D.
Benzyl alcohol	20	N.D.	Indeno(1,2,3-cd)pyrene	20	N.D.
Bis(2-chloroethoxy)methane	10	N.D.	Isophorone	10	N.D.
Bis(2-chloroethyl)ether	10	N.D.	2-Methylnaphthalene	10	N.D.
Bis(2-chloroisopropyl)ether	10	N.D.	2-Methylphenol	10	N.D.
Bis(2-ethylhexyl)phthalate	20	N.D.	4-Methylphenol	10	N.D.
4-Bromophenyl phenyl ether	10	N.D.	Naphthalene	10	N.D.
Butyl benzyl phthalate	20	N.D.	2-Nitroaniline	20	N.D.
4-Chloroaniline	10	N.D.	3-Nitroaniline	20	N.D.
2-Chloronaphthalene	10	N.D.	4-Nitroaniline	100	N.D.
4-Chloro-3-methylphenol	20	N.D.	Nitrobenzene	40	N.D.
2-Chlorophenol	10	N.D.	2-Nitrophenol	10	N.D.
4-Chlorophenyl phenyl ether	10	N.D.	4-Nitrophenol	100	N.D.
Chrysene	10	N.D.	N-Nitrosodiphenylamine	10	N.D.
Dibenz(a,h)anthracene	20	N.D.	N-Nitroso-di-N-propylamine	10	N.D.
Dibenzofuran	10	N.D.	Pentachlorophenol	40	N.D.
Di-N-butyl phthalate	20	N.D.	Phenanthrene	10	N.D.
1,3-Dichlorobenzene	10	N.D.	Phenol	10	N.D.
1,4-Dichlorobenzene	10	N.D.	Pyrene	10	N.D.
1,2-Dichlorobenzene	10	N.D.	1,2,4-Trichlorobenzene	10	N.D.
3,3-Dichlorobenzidine	40	N.D.	2,4,5-Trichlorophenol	20	N.D.
2,4-Dichlorophenol	10	N.D.	2,4,6-Trichlorophenol	20	N.D.
Diethyl phthalate	10	N.D.			
2,4-Dimethylphenol	20	N.D.			

Analytes reported as N.D. were not present above the stated limit of detection.

Surrogate Standard Recoveries (Accept. Limits):	
2-Fluorophenol (21-100)	24%
Phenol-d6 (10-94)	13%
2,4,6-Tribromophenol (10-123)	26%
Nitrobenzene-d5 (35-114)	30%
2-Fluorobiphenyl (43-116)	34%
Terphenyl-d14 (33-141)	113%

DEL MAR ANALYTICAL, IRVINE (ELAP #1197)

Gary Steube
Laboratory Director

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Harding Lawson Associates
3 Hutton Centre, Suite 300
Santa Ana, CA 92707
Attention: Andrew Keller

Method Blank

Extracted: Jul 5, 1995
Analyzed: Jul 13, 1995
Reported: Jul 13, 1995
Matrix Water

SEMI-VOLATILE ORGANICS by GC/MS (EPA 3520/8270)

Analyte	Detection Limit µg/L (ppb)	Sample Result µg/L (ppb)	Analyte	Detection Limit µg/L (ppb)	Sample Result µg/L (ppb)
Acenaphthene	10	N.D.	Dimethyl phthalate	10	N.D.
Acenaphthylene	10	N.D.	4,6-Dinitro-2-methylphenol	40	N.D.
Aniline	10	N.D.	2,4-Dinitrophenol	100	N.D.
Anthracene	10	N.D.	2,4-Dinitrotoluene	10	N.D.
Azobenzene	20	N.D.	2,6-Dinitrotoluene	10	N.D.
Benzidine	100	N.D.	Di-N-octyl phthalate	40	N.D.
Benzoic Acid	100	N.D.	Fluoranthene	10	N.D.
Benz(a)anthracene	10	N.D.	Fluorene	10	N.D.
Benzo(b)fluoranthene	10	N.D.	Hexachlorobenzene	10	N.D.
Benzo(k)fluoranthene	10	N.D.	Hexachlorobutadiene	10	N.D.
Benzo(g,h,i)perylene	10	N.D.	Hexachlorocyclopentadiene	40	N.D.
Benzo(a)pyrene	10	N.D.	Hexachloroethane	10	N.D.
Benzyl alcohol	20	N.D.	Indeno(1,2,3-cd)pyrene	20	N.D.
Bis(2-chloroethoxy)methane	10	N.D.	Isophorone	10	N.D.
Bis(2-chloroethyl)ether	10	N.D.	2-Methylnaphthalene	10	N.D.
Bis(2-chloroisopropyl)ether	10	N.D.	2-Methylphenol	10	N.D.
Bis(2-ethylhexyl)phthalate	20	N.D.	4-Methylphenol	10	N.D.
4-Bromophenyl phenyl ether	10	N.D.	Naphthalene	10	N.D.
Butyl benzyl phthalate	20	N.D.	2-Nitroaniline	20	N.D.
4-Chloroaniline	10	N.D.	3-Nitroaniline	20	N.D.
2-Chloronaphthalene	10	N.D.	4-Nitroaniline	100	N.D.
4-Chloro-3-methylphenol	20	N.D.	Nitrobenzene	40	N.D.
2-Chlorophenol	10	N.D.	2-Nitrophenol	10	N.D.
4-Chlorophenyl phenyl ether	10	N.D.	4-Nitrophenol	100	N.D.
Chrysene	10	N.D.	N-Nitrosodiphenylamine	10	N.D.
Dibenz(a,h)anthracene	20	N.D.	N-Nitroso-di-N-propylamine	10	N.D.
Dibenzofuran	10	N.D.	Pentachlorophenol	40	N.D.
Di-N-butyl phthalate	20	N.D.	Phenanthrene	10	N.D.
1,3-Dichlorobenzene	10	N.D.	Phenol	10	N.D.
1,4-Dichlorobenzene	10	N.D.	Pyrene	10	N.D.
1,2-Dichlorobenzene	10	N.D.	1,2,4-Trichlorobenzene	10	N.D.
3,3-Dichlorobenzidine	40	N.D.	2,4,5-Trichlorophenol	20	N.D.
2,4-Dichlorophenol	10	N.D.	2,4,6-Trichlorophenol	20	N.D.
Diethyl phthalate	10	N.D.			
2,4-Dimethylphenol	20	N.D.			

Analytes reported as N.D. were not present above the stated limit of detection.

Surrogate Standard Recoveries (Accept. Limits):	
2-Fluorophenol (21-100)	75%
Phenol-d6 (10-94)	80%
2,4,6-Tribromophenol (10-123)	95%
Nitrobenzene-d5 (35-114)	85%
2-Fluorobiphenyl (43-116)	89%
Terphenyl-d14 (33-141)	103%

DEL MAR ANALYTICAL, IRVINE (ELAP #1197)

Gary Steube
Laboratory Director

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Harding Lawson Associates
3 Hutton Centre, Suite 300
Santa Ana, CA 92707
Attention: Andrew Keller

Method Blank

Extracted: Jun 30, 19
Analyzed: 6/30-7/5, 1995
Reported: Jul 13, 1995
Matrix Water

CALIFORNIA CODE OF REGULATIONS, TITLE 22 METALS

Analyte	EPA Method	Detection Limit mg/L (ppm)	Sample Result mg/L (ppm)
Antimony	6010	0.50	N.D.
Arsenic	7060	0.010	N.D.
Barium	6010	0.050	N.D.
Beryllium	6010	0.010	N.D.
Cadmium	6010	0.0050	N.D.
Chromium, VI	7196	0.025	N.D.
Chromium, total	7191	0.0050	N.D.
Cobalt	6010	0.050	N.D.
Copper	6010	0.050	N.D.
Lead	7421	0.0050	N.D.
Mercury	7470	0.00020	N.D.
Molybdenum	6010	0.10	N.D.
Nickel	6010	0.050	N.D.
Selenium	7740	0.010	N.D.
Silver	6010	0.050	N.D.
Thallium	6010	0.50	N.D.
Vanadium	6010	0.050	N.D.
Zinc	6010	0.050	N.D.

Analytes reported as N.D. were not present above the stated limit of detection.

DEL MAR ANALYTICAL, IRVINE (ELAP #1197)

Gary Steube
Laboratory Director

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QC DATA REPORT

EPA METHOD: 624
Matrix: Water

DATE: 6/30/95

SAMPLE #: EF02831

Analyte	R1	Sp	MS	MSD	PR1	PR2	RPD	MEAN PR
	ppb	ppb	ppb	ppb	%	%	%	%
Benzene	5.5	50	57	61	103%	111%	6.8%	107%
Chlorobenzene	0	50	47	49	94%	98%	4.2%	96%
1,1-Dichloroethane	0	50	33	35	66%	70%	5.9%	68%
1,2-Dichlororethane	0	50	46	48	92%	96%	4.3%	94%
1,1-Dichloroethene	0	50	37	40	74%	80%	7.8%	77%
Chloroform	0	50	41	47	82%	94%	13.6%	88%
Tetrachloroethene	25	50	65	67	80%	84%	3.0%	82%
Toluene	0	50	40	41	80%	82%	2.5%	81%
Trichloroethene	0	50	49	51	98%	102%	4.0%	100%
Vinyl Chloride	0	50	41	44	82%	88%	7.1%	85%

Definition of Terms:

R1..... Result of Sample Analysis

Sp..... Spike Concentration Added to Sample

MS..... Matrix Spike Result

MSD..... Matrix Spike Duplicate Result

PR1..... Percent Recovery of MS; ((MS-R1) / SP) X 100

PR2..... Percent Recovery of MSD; ((MSD-R1) / SP) X 100

RPD..... Relative Percent Difference; ((MS-MSD)/(MS+MSD)/2)) X 100

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QC DATA REPORT

EPA METHOD: **7196**
Matrix: Water

DATE: 6/30/95

SAMPLE #: EF02988

Analyte	R1	Sp	MS	MSD	PR1	PR2	RPD	MEAN PR
	ppb	ppb	ppb	ppb	%	%	%	%
Chromium (VI)	0	200	203	203	102%	102%	0.0%	102%

Definition of Terms:

R1..... Result of Sample Analysis

Sp..... Spike Concentration Added to Sample

MS..... Matrix Spike Result

MSD..... Matrix Spike Duplicate Result

PR1..... Percent Recovery of MS; ((MS-R1) / SP) X 100

PR2..... Percent Recovery of MSD; ((MSD-R1) / SP) X 100

RPD..... Relative Percent Difference; ((MS-MSD)/(MS+MSD)/2)) X 100

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QC DATA REPORT

EPA METHOD: **7470**
Matrix: Water

DATE: 6/30/95

SAMPLE #: EF02406

Analyte	R1	Sp	MS	MSD	PR1	PR2	RPD	MEAN PR
	ppm	ppm	ppm	ppm	%	%	%	%
Mercury	0	8	8	8.4	100%	105%	4.9%	103%

Definition of Terms:

R1..... Result of Sample Analysis

Sp..... Spike Concentration Added to Sample

MS..... Matrix Spike Result

MSD..... Matrix Spike Duplicate Result

PR1..... Percent Recovery of MS; ((MS-R1) / SP) X 100

PR2..... Percent Recovery of MSD; ((MSD-R1) / SP) X 100

RPD..... Relative Percent Difference; ((MS-MSD)/(MS+MSD)/2)) X 100

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QC DATA REPORT

METHOD: **Metals**
Instrument: ICP
Matrix: WATER

DATE: 6/30/95

SAMPLE #: Blank

Analyte	R1	SP	MS	MSD	PR1	PR2	RPD	MEAN PR
	ppb	ppb	ppb	ppb	%	%	%	%
Antimony	0	1000	881	831	88%	83%	5.8%	86%
Arsenic	0	1000	1104	1109	110%	111%	0.5%	111%
Barium	0	1000	994	972	99%	97%	2.2%	98%
Beryllium	0	1000	1017	1010	102%	101%	0.7%	101%
Cadmium	0	1000	1004	991	100%	99%	1.3%	100%
Chromium	0	1000	1013	1039	101%	104%	2.5%	103%
Cobalt	0	1000	987	989	99%	99%	0.2%	99%
Copper	0	1000	1007	974	101%	97%	3.3%	99%
Lead	0	1000	1028	1055	103%	106%	2.6%	104%
Molybdenum	0	1000	1001	985	100%	99%	1.6%	99%
Nickel	0	1000	981	933	98%	93%	5.0%	96%
Selenium	0	1000	1069	1137	107%	114%	6.2%	110%
Silver	0	1000	996	888	100%	89%	11.5%	94%
Thallium	0	1000	996	1115	100%	112%	11.3%	106%
Vanadium	0	1000	993	999	99%	100%	0.6%	100%
Zinc	0	1000	1058	1059	106%	106%	0.1%	106%

R1..... ..... Result of Sample Analysis
Sp..... ..... Spike Concentration Added to Sample
MS..... ..... Matrix Spike Result
MSD..... ..... Matrix Spike Duplicate Result
PR2..... ..... Percent Recovery of MSD; ((MSD-R1) / SP X 100
RPD..... ..... Relative Percent Difference; ((MS-MSD)/(MS+MSD)/2)) X 100

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QC DATA REPORT

METHOD: **Metals**
Instrument: AA
Matrix: water

DATE: 7/5/95

SAMPLE #: Blank

Analyte	R1	SP	MS	MSD	PR1	PR2	RPD	MEAN PR
	ppb	ppb	ppb	ppb	%	%	%	%
Selenium	0	25	26	27	104%	108%	3.8%	106%

R1..... Result of Sample Analysis
Sp..... Spike Concentration Added to Sample
MS..... Matrix Spike Result
MSD..... Matrix Spike Duplicate Result
PR1..... Percent Recovery of MS; (MS-R1) / SP X 100
PR2..... Percent Recovery of MSD; ((MSD-R1) / SP X 100
RPD..... Relative Percent Difference; ((MS-MSD)/(MS+MSD)/2)) X 100

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QC DATA REPORT

METHOD: **Metals**
Instrument: AA
Matrix: water

DATE: 7/5/95

SAMPLE #: Blank

Analyte	R1	SP	MS	MSD	PR1	PR2	RPD	MEAN PR
	ppb	ppb	ppb	ppb	%	%	%	%
Arsenic	2.2	25	29	28	107%	103%	3.5%	105%

R1..... Result of Sample Analysis
Sp..... Spike Concentration Added to Sample
MS..... Matrix Spike Result
MSD..... Matrix Spike Duplicate Result
PR1..... Percent Recovery of MS; (MS-R1) / SP X 100
PR2..... Percent Recovery of MSD; ((MSD-R1) / SP X 100
RPD..... Relative Percent Difference; ((MS-MSD)/(MS+MSD)/2)) X 100

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2465 W. 12th St., Suite 1, Tempe, AZ 85281 (602) 968-8272 FAX (602) 968-1338

QC DATA REPORT

EPA METHOD: **625**
Matrix: Water

DATE: 7/13/95

SAMPLE # Blank

Analyte	R1	Sp	MS	MSD	PR1	PR2	RPD	MEAN PR
	ppb	ppb	ppb	ppb	%	%	%	%
1,4-Dichlorobenzene	0	50	24	24	48%	48%	0.0%	48%
n-nitroso-di-n-propylamine	0	50	38	38	76%	76%	0.0%	76%
1,2,4-Trichlorobenzene	0	50	30	31	60%	62%	3.3%	61%
Acenaphthene	0	50	41	41	82%	82%	0.0%	82%
2,4-Dinitrotoluene	0	50	37	35	74%	70%	5.6%	72%
Pyrene	0	50	51	46	102%	92%	10.3%	97%
4-Chloro-3-methylphenol	0	100	81	76	81%	76%	6.4%	79%
2-Chlorophenol	0	100	67	71	67%	71%	5.8%	69%
4-Nitrophenol	0	100	82	77	82%	77%	6.3%	80%
Pentachlorophenol	0	100	86	81	86%	81%	6.0%	84%
Phenol	0.2	100	63	66	63%	66%	4.7%	64%

Definition of Terms:

R1..... Result of Sample Analysis

Sp..... Spike Concentration Added to Sample

MS..... Matrix Spike Result

MSD..... Matrix Spike Duplicate Result

PR1..... Percent Recovery of MS; ((MS-R1) / SP) X 100

PR2..... Percent Recovery of MSD; ((MSD-R1) / SP) X 100

RPD..... Relative Percent Difference; ((MS-MSD)/(MS+MSD)/2)) X 100

Del Mar Analytical

Harding Lawson Associates
15621 Redhill Avenue, Suite 100
Tustin, California 92680
714/259-7992 — 213/617-7232
Telecopy: 714/259-1378

CHAIN OF CUSTODY FORM

Lab: DELMAR

Samplers: HARDESTY

Job Number: OMEGA 32026

Name/Location: OMEGA / WHITTIER

Project Manager: A. KELLER

Recorder: Hardesty (Signature Required)

SOURCE CODE	MATRIX: Water	Sediment	Soil	Oil	#CONTAINERS & PRESERV.: Unpres.	H_2SO_4	HNO_3	SAMPLE NUMBER OR LAB NUMBER: Yr	Wk	Seq	DATE: Yr	Mo	Dy	Time	STATION DESCRIPTION / NOTES
	X				2			S	H	I E L A	9	5	0 6	2 9	1230 — 1000 GAL STAINLESS
					1										1230
						1									1230
					2			A	M	Y					1235 — 500 GAL. STAINLESS
					1										1235
						1									1235
					2			L	I	N D A					1245 — 500 GAL. STAINLESS
					1										1245
	X					1					9	5	0 6	2 9	1245

ANALYSIS REQUESTED

EPA 601/8010	EPA 602/8020	EPA 624/8240	EPA 625/8270	Priority Pllnt. Metals	Benzene/Toluene/Xylene	Total Petrol. Hydrocarb.	METALS 17 CAM
		X					
			X				
							X
		X					
			X				
							X
		X					
			X				
							X

LAB NUMBER: Yr	Wk	Seq	DEPTH IN FEET	COL MTD CD	QA CODE	MISCELLANEOUS
						48HR TAT

CHAIN OF CUSTODY RECORD

RELINQUISHED BY: (Signature) Hardesty 1255	RECEIVED BY: (Signature) Marcia Lemus	DATE/TIME 6-29-95 12:55
RELINQUISHED BY: (Signature) Marcia Lemus 6-29-95 2:20	RECEIVED BY: (Signature)	DATE/TIME
RELINQUISHED BY: (Signature)	RECEIVED BY: (Signature)	DATE/TIME
RELINQUISHED BY: (Signature)	RECEIVED BY: (Signature)	DATE/TIME
DISPATCHED BY: (Signature) DATE/TIME	RECEIVED FOR LAB BY: (Signature)	DATE/TIME 6/29 2:20
METHOD OF SHIPMENT Hand delivered		

Laboratory Copy White — Project Office Copy Yellow — Field or Office Copy Pink

6533

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Harding Lawson Associates
3 Hutton Centre, Suite 300
Santa Ana, CA 92707
Attention: Andrew Keller

Client Project ID: 32026.39
Omega Chemical/Whittier
Sample Descript: Solid, AST-1
Lab Number: EH00983

Sampled: Aug 8, 1995
Received: Aug 8, 1995
Extracted: Aug 8, 1995
Analyzed: Aug 8-9, 1995
Reported: Aug 9, 1995

CALIFORNIA CODE OF REGULATIONS, TITLE 22 METALS

Analyte	EPA Method	STLC Max. Limit mg/L (ppm)	TTLC Max. Limit mg/Kg (ppm)	Detection Limit mg/Kg (ppm)		TTLC Sample Result mg/Kg (ppm)
Antimony	6010	15	500	5.0		N.D.
Arsenic	6010	5.0	500	1.0		N.D.
Barium	6010	100	10000	0.50		210
Beryllium	6010	0.75	75	0.10		0.48
Cadmium	6010	1.0	100	0.10		110
Chromium, VI	7196	5.0	500	0.25		N.D.
Chromium, total	6010	560	2500	0.50		96
Cobalt	6010	80	8000	0.50		11
Copper	6010	25	2500	0.50		640
Lead	6010	5.0	1000	1.0		790
Mercury	7471	0.20	20	0.020		4.8
Molybdenum	6010	350	3500	0.50		4.4
Nickel	6010	20	2000	0.50		30
Selenium	6010	1.0	100	1.0		N.D.
Silver	6010	5.0	500	0.50		23
Thallium	6010	7.0	700	5.0		N.D.
Vanadium	6010	24	2400	0.50		N.D.
Zinc	6010	250	5000	0.50		960

Analytes reported as N.D. were not present above the stated limit of detection.

DEL MAR ANALYTICAL, IRVINE (ELAP #1197)

Gary Steube
Laboratory Director

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2465 W. 12th St., Suite 1, Tempe, AZ 85281 (602) 968-8272 FAX (602) 968-1338

Harding Lawson Associates
3 Hutton Centre, Suite 300
Santa Ana, CA 92707
Attention: Andrew Keller

Client Project ID: 32026.39
Omega Chemical/Whittier
Sample Descript: Solid, AST-2
Lab Number: EH00984

Sampled: Aug 8, 199
Received: Aug 8, 1995
Extracted: Aug 8, 1995
Analyzed: Aug 8-9, 1995
Reported: Aug 9, 1995

CALIFORNIA CODE OF REGULATIONS, TITLE 22 METALS

Analyte	EPA Method	STLC Max. Limit mg/L (ppm)	TTLC Max. Limit mg/Kg (ppm)	Detection Limit mg/Kg (ppm)		TTLC Sample Result mg/Kg (ppm)
Antimony	6010	15	500	5.0		N.D.
Arsenic	6010	5.0	500	1.0		N.D.
Barium	6010	100	10000	0.50		91
Beryllium	6010	0.75	75	0.10		N.D.
Cadmium	6010	1.0	100	0.10		11
Chromium, VI	7196	5.0	500	0.25		N.D.
Chromium, total	6010	560	2500	0.50		150
Cobalt	6010	80	8000	0.50		9.1
Copper	6010	25	2500	0.50		85
Lead	6010	5.0	1000	1.0		850
Mercury	7471	0.20	20	0.020		0.90
Molybdenum	6010	350	3500	0.50		5.3
Nickel	6010	20	2000	0.50		41
Selenium	6010	1.0	100	1.0		18
Silver	6010	5.0	500	0.50		4.0
Thallium	6010	7.0	700	5.0		N.D.
Vanadium	6010	24	2400	0.50		1.3
Zinc	6010	250	5000	0.50		260

Analytes reported as N.D. were not present above the stated limit of detection.

DEL MAR ANALYTICAL, IRVINE (ELAP #1197)

Gary Steube
Laboratory Director

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2465 W. 12th St., Suite 1, Tempe, AZ 85281 (602) 968-8272 FAX (602) 968-1338

Harding Lawson Associates	Client Project ID: 32026.39	Sampled:	Aug 8, 1995
3 Hutton Centre, Suite 300	Omega Chemical/Whittier	Received:	Aug 8, 1995
Santa Ana, CA 92707	Sample Descript: Solid, AST-3	Extracted:	Aug 8, 1995
Attention: Andrew Keller	Lab Number: EH00985	Analyzed:	Aug 8-9, 1995
		Reported:	Aug 9, 1995

CALIFORNIA CODE OF REGULATIONS, TITLE 22 METALS

Analyte	EPA Method	STLC Max. Limit mg/L (ppm)	TTLC Max. Limit mg/Kg (ppm)	Detection Limit mg/Kg (ppm)		TTLC Sample Result mg/Kg (ppm)
Antimony	6010	15	500	5.0		N.D.
Arsenic	6010	5.0	500	1.0		N.D.
Barium	6010	100	10000	0.50		160
Beryllium	6010	0.75	75	0.10		0.22
Cadmium	6010	1.0	100	0.10		18
Chromium, VI	7196	5.0	500	0.25		0.32
Chromium, total	6010	560	2500	0.50		330
Cobalt	6010	80	8000	0.50		6.4
Copper	6010	25	2500	0.50		450
Lead	6010	5.0	1000	1.0		560
Mercury	7471	0.20	20	0.020		2.4
Molybdenum	6010	350	3500	0.50		54
Nickel	6010	20	2000	0.50		39
Selenium	6010	1.0	100	1.0		3.4
Silver	6010	5.0	500	0.50		2.0
Thallium	6010	7.0	700	5.0		N.D.
Vanadium	6010	24	2400	0.50		1.8
Zinc	6010	250	5000	0.50		330

Analytes reported as N.D. were not present above the stated limit of detection.

DEL MAR ANALYTICAL, IRVINE (ELAP #1197)

Gary Steube
Laboratory Director

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2465 W. 12th St., Suite 1, Tempe, AZ 85281 (602) 968-8272 FAX (602) 968-1338

Harding Lawson Associates	Client Project ID:	32026.39	Sampled: Aug 8, 199
3 Hutton Centre, Suite 300		Omega Chemical/Whittier	Received: Aug 8, 1995
Santa Ana, CA 92707	Sample Descript:	Solid, AST-4	Extracted: Aug 8, 1995
Attention: Andrew Keller	Lab Number:	EH00986	Analyzed: Aug 8-9, 1995
			Reported: Aug 9, 1995

CALIFORNIA CODE OF REGULATIONS, TITLE 22 METALS

Analyte	EPA Method	STLC Max. Limit mg/L (ppm)	TTLC Max. Limit mg/Kg (ppm)	Detection Limit mg/Kg (ppm)		TTLC Sample Result mg/Kg (ppm)
Antimony	6010	15	500	5.0		N.D.
Arsenic	6010	5.0	500	1.0		N.D.
Barium	6010	100	10000	0.50		1.3
Beryllium	6010	0.75	75	0.10		N.D.
Cadmium	6010	1.0	100	0.10		8.5
Chromium, VI	7196	5.0	500	0.25		0.62
Chromium, total	6010	560	2500	0.50		55
Cobalt	6010	80	8000	0.50		12
Copper	6010	25	2500	0.50		39
Lead	6010	5.0	1000	1.0		75
Mercury	7471	0.20	20	0.020		3.4
Molybdenum	6010	350	3500	0.50		1.3
Nickel	6010	20	2000	0.50		82
Selenium	6010	1.0	100	1.0		N.D.
Silver	6010	5.0	500	0.50		1.0
Thallium	6010	7.0	700	5.0		N.D.
Vanadium	6010	24	2400	0.50		N.D.
Zinc	6010	250	5000	0.50		38

Analytes reported as N.D. were not present above the stated limit of detection.

DEL MAR ANALYTICAL, IRVINE (ELAP #1197)

Gary Steube
Laboratory Director

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Harding Lawson Associates
3 Hutton Centre, Suite 300
Santa Ana, CA 92707
Attention: Andrew Keller

Client Project ID: 32026.39
Omega Chemical/Whittier
Sample Descript: Solid, AST-5
Lab Number: EH00987

Sampled: Aug 8, 1995
Received: Aug 8, 1995
Extracted: Aug 8, 1995
Analyzed: Aug 8-9, 1995
Reported: Aug 9, 1995

CALIFORNIA CODE OF REGULATIONS, TITLE 22 METALS

Analyte	EPA Method	STLC Max. Limit mg/L (ppm)	TTLC Max. Limit mg/Kg (ppm)	Detection Limit mg/Kg (ppm)		TTLC Sample Result mg/Kg (ppm)
Antimony	6010	15	500	5.0		N.D.
Arsenic	6010	5.0	500	1.0		N.D.
Barium	6010	100	10000	0.50		37
Beryllium	6010	0.75	75	0.10		N.D.
Cadmium	6010	1.0	100	0.10		7.6
Chromium, VI	7196	5.0	500	0.25		1.4
Chromium, total	6010	560	2500	0.50		260
Cobalt	6010	80	8000	0.50		18
Copper	6010	25	2500	0.50		130
Lead	6010	5.0	1000	1.0		87
Mercury	7471	0.20	20	0.020		1.1
Molybdenum	6010	350	3500	0.50		21
Nickel	6010	20	2000	0.50		210
Selenium	6010	1.0	100	1.0		3.0
Silver	6010	5.0	500	0.50		2.0
Thallium	6010	7.0	700	5.0		N.D.
Vanadium	6010	24	2400	0.50		1.3
Zinc	6010	250	5000	0.50		210

Analytes reported as N.D. were not present above the stated limit of detection.

DEL MAR ANALYTICAL, IRVINE (ELAP #1197)

Gary Steube
Laboratory Director

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Harding Lawson Associates
3 Hutton Centre, Suite 300
Santa Ana, CA 92707
Attention: Andrew Keller

Method Blank

Extracted: Aug 8, 199
Analyzed: Aug 8-9, 1995
Reported: Aug 9, 1995
Matrix Solid

CALIFORNIA CODE OF REGULATIONS, TITLE 22 METALS

Analyte	EPA Method	STLC Max. Limit mg/L (ppm)	TTLC Max. Limit mg/Kg (ppm)	Detection Limit mg/Kg (ppm)		TTLC Sample Result mg/Kg (ppm)
Antimony	6010	15	500	5.0		N.D.
Arsenic	6010	5.0	500	1.0		N.D.
Barium	6010	100	10000	0.50		N.D.
Beryllium	6010	0.75	75	0.10		N.D.
Cadmium	6010	1.0	100	0.10		N.D.
Chromium, VI	7196	5.0	500	0.25		N.D.
Chromium, total	6010	560	2500	0.50		N.D.
Cobalt	6010	80	8000	0.50		N.D.
Copper	6010	25	2500	0.50		N.D.
Lead	6010	5.0	1000	1.0		N.D.
Mercury	7471	0.20	20	0.020		N.D.
Molybdenum	6010	350	3500	0.50		N.D.
Nickel	6010	20	2000	0.50		N.D.
Selenium	6010	1.0	100	1.0		N.D.
Silver	6010	5.0	500	0.50		N.D.
Thallium	6010	7.0	700	5.0		N.D.
Vanadium	6010	24	2400	0.50		N.D.
Zinc	6010	250	5000	0.50		N.D.

Analytes reported as N.D. were not present above the stated limit of detection.

DEL MAR ANALYTICAL, IRVINE (ELAP #1197)

Gary Steube
Laboratory Director

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Harding Lawson Associates
3 Hutton Centre, Suite 300
Santa Ana, CA 92707
Attention: Andrew Keller

Client Project ID: 32026.39
Omega Chemical/Whittier
Sample Descript: Solid, AST-1
Lab Number: EH00983

Sampled: Aug 8, 1995
Received: Aug 8, 1995
Extracted: Aug 10, 1995
Analyzed: Aug 10, 1995
Reported: Aug 14, 1995

VOLATILE ORGANICS by GC/MS (EPA 8240)

Analyte	Detection Limit µg/Kg (ppb)	Sample Result µg/Kg (ppb)
Acetone	2,500,000	N.D.
Benzene	500,000	N.D.
Bromodichloromethane	500,000	N.D.
Bromoform	500,000	N.D.
Bromomethane	1,300,000	N.D.
2-Butanone	**2,500,000**	**7,800,000**
Carbon disulfide	1,300,000	N.D.
Carbon tetrachloride	1,300,000	N.D.
Chlorobenzene	500,000	N.D.
Chlorodibromomethane	500,000	N.D.
Chloroethane	1,300,000	N.D.
2-Chloroethyl vinyl ether	500,000	N.D.
Chloroform	500,000	N.D.
Chloromethane	1,300,000	N.D.
1,1-Dichloroethane	500,000	N.D.
1,2-Dichloroethane	500,000	N.D.
1,1-Dichloroethene	1,300,000	N.D.
cis-1,2-Dichloroethene	500,000	N.D.
trans-1,2-Dichloroethene	500,000	N.D.
1,2-Dichloropropane	500,000	N.D.
cis-1,3-Dichloropropene	500,000	N.D.
trans-1,3-Dichloropropene	500,000	N.D.
Ethylbenzene	**500,000**	**1,200,000**
2-Hexanone	2,500,000	N.D.
Methylene chloride	**2,500,000**	**41,000,000**
4-Methyl-2-pentanone	1,300,000	N.D.
Styrene	500,000	N.D.
1,1,2,2-Tetrachloroethane	500,000	N.D.
Tetrachloroethene	**500,000**	**2,500,000**
Toluene	**500,000**	**5,500,000**
1,1,1-Trichloroethane	**500,000**	**1,800,000**
1,1,2-Trichloroethane	500,000	N.D.
Trichloroethene	**500,000**	**500,000**
Trichlorofluoromethane	1,300,000	N.D.
Vinyl acetate	1,300,000	N.D.
Vinyl chloride	1,300,000	N.D.
Total Xylenes	**500,000**	**4,400,000**

Analytes reported as N.D. were not present above the stated limit of detection. Due to matrix effects and/or other factors, the sample required dilution. Detection limits for this sample have been raised by a factor of 250000.

DEL MAR ANALYTICAL, IRVINE (ELAP #1197)

Gary Steube
Laboratory Director

Surrogate Standard Recoveries (Accept. Limits):	
1,2-Dichloroethane-d4 (70-121)	103%
Toluene-d8 (81-117)	100%
4-Bromofluorobenzene (74-121)	88%

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Harding Lawson Associates
3 Hutton Centre, Suite 300
Santa Ana, CA 92707
Attention: Andrew Keller

Client Project ID: 32026.39
Omega Chemical/Whittier
Sample Descript: Solid, AST-2
Lab Number: EH00984

Sampled: Aug 8, 1995
Received: Aug 8, 1995
Extracted: Aug 10, 1995
Analyzed: Aug 10, 1995
Reported: Aug 14, 1995

VOLATILE ORGANICS by GC/MS (EPA 8240)

Analyte	Detection Limit µg/Kg (ppb)	Sample Result µg/Kg (ppb)
Acetone	**2,500,000**	**2,500,000**
Benzene	500,000	N.D.
Bromodichloromethane	500,000	N.D.
Bromoform	500,000	N.D.
Bromomethane	1,300,000	N.D.
2-Butanone	**2,500,000**	**9,500,000**
Carbon disulfide	1,300,000	N.D.
Carbon tetrachloride	1,300,000	N.D.
Chlorobenzene	500,000	N.D.
Chlorodibromomethane	500,000	N.D.
Chloroethane	1,300,000	N.D.
2-Chloroethyl vinyl ether	500,000	N.D.
Chloroform	500,000	N.D.
Chloromethane	1,300,000	N.D.
1,1-Dichloroethane	500,000	N.D.
1,2-Dichloroethane	500,000	N.D.
1,1-Dichloroethene	1,300,000	N.D.
cis-1,2-Dichloroethene	500,000	N.D.
trans-1,2-Dichloroethene	500,000	N.D.
1,2-Dichloropropane	500,000	N.D.
cis-1,3-Dichloropropene	500,000	N.D.
trans-1,3-Dichloropropene	500,000	N.D.
Ethylbenzene	500,000	N.D.
2-Hexanone	2,500,000	N.D.
Methylene chloride	2,500,000	N.D.
4-Methyl-2-pentanone	1,300,000	N.D.
Styrene	500,000	N.D.
1,1,2,2-Tetrachloroethane	500,000	N.D.
Tetrachloroethene	**500,000**	**8,200,000**
Toluene	**500,000**	**3,800,000**
1,1,1-Trichloroethane	**500,000**	**5,500,000**
1,1,2-Trichloroethane	500,000	N.D.
Trichloroethene	500,000	N.D.
Trichlorofluoromethane	1,300,000	N.D.
Vinyl acetate	1,300,000	N.D.
Vinyl chloride	1,300,000	N.D.
Total Xylenes	**500,000**	**2,500,000**

Analytes reported as N.D. were not present above the stated limit of detection. Due to matrix effects and/or other factors, the sample required dilution. Detection limits for this sample have been raised by a factor of 250000.

DEL MAR ANALYTICAL, IRVINE (ELAP #1197)

Gary Steube
Laboratory Director

Surrogate Standard Recoveries (Accept. Limits):	
1,2-Dichloroethane-d4 (70-121)	106%
Toluene-d8 (81-117)	99%
4-Bromofluorobenzene (74-121)	90%

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2465 W. 12th St., Suite 1, Tempe, AZ 85281 (602) 968-8272 FAX (602) 968-1338

Harding Lawson Associates
3 Hutton Centre, Suite 300
Santa Ana, CA 92707
Attention: Andrew Keller

Client Project ID: 32026.39
Omega Chemical/Whittier
Sample Descript: Solid, AST-3
Lab Number: EH00985

Sampled: Aug 8, 1995
Received: Aug 8, 1995
Extracted: Aug 10, 1995
Analyzed: Aug 10, 1995
Reported: Aug 14, 1995

VOLATILE ORGANICS by GC/MS (EPA 8240)

Analyte	Detection Limit µg/Kg (ppb)	Sample Result µg/Kg (ppb)
Acetone	**2,500,000**	**13,000,000**
Benzene	500,000	N.D.
Bromodichloromethane	500,000	N.D.
Bromoform	500,000	N.D.
Bromomethane	1,300,000	N.D.
2-Butanone	**2,500,000**	**8,300,000**
Carbon disulfide	1,300,000	N.D.
Carbon tetrachloride	1,300,000	N.D.
Chlorobenzene	500,000	N.D.
Chlorodibromomethane	500,000	N.D.
Chloroethane	1,300,000	N.D.
2-Chloroethyl vinyl ether	500,000	N.D.
Chloroform	**500,000**	**750,000**
Chloromethane	1,300,000	N.D.
1,1-Dichloroethane	500,000	N.D.
1,2-Dichloroethane	500,000	N.D.
1,1-Dichloroethene	1,300,000	N.D.
cis-1,2-Dichloroethene	500,000	N.D.
trans-1,2-Dichloroethene	500,000	N.D.
1,2-Dichloropropane	500,000	N.D.
cis-1,3-Dichloropropene	500,000	N.D.
trans-1,3-Dichloropropene	500,000	N.D.
Ethylbenzene	**500,000**	**5,800,000**
2-Hexanone	2,500,000	N.D.
Methylene chloride	**2,500,000**	**5,800,000**
4-Methyl-2-pentanone	1,300,000	N.D.
Styrene	500,000	N.D.
1,1,2,2-Tetrachloroethane	500,000	N.D.
Tetrachloroethene	**500,000**	**23,000,000**
Toluene	**500,000**	**3,800,000**
1,1,1-Trichloroethane	**500,000**	**33,000,000**
1,1,2-Trichloroethane	500,000	N.D.
Trichloroethene	500,000	N.D.
Trichlorofluoromethane	**1,300,000**	**3,500,000**
Vinyl acetate	1,300,000	N.D.
Vinyl chloride	1,300,000	N.D.
Total Xylenes	**500,000**	**3,100,000**

Analytes reported as N.D. were not present above the stated limit of detection. Due to matrix effects and/or other factors, the sample required dilution. Detection limits for this sample have been raised by a factor of 250000.

DEL MAR ANALYTICAL, IRVINE (ELAP #1197)

Gary Steube
Laboratory Director

Surrogate Standard Recoveries (Accept. Limits):	
1,2-Dichloroethane-d4 (70-121)	103%
Toluene-d8 (81-117)	98%
4-Bromofluorobenzene (74-121)	90%

Results pertain only to samples tested in the laboratory. This report shall not be reproduced, except in full, without written permission from Del Mar Analytical.

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Harding Lawson Associates
3 Hutton Centre, Suite 300
Santa Ana, CA 92707
Attention: Andrew Keller

Client Project ID: 32026.39
Omega Chemical/Whittier
Sample Descript: Solid, AST-4
Lab Number: EH00986

Sampled: Aug 8, 1995
Received: Aug 8, 1995
Extracted: Aug 11, 1995
Analyzed: Aug 11, 1995
Reported: Aug 14, 1995

VOLATILE ORGANICS by GC/MS (EPA 8240)

Analyte	Detection Limit µg/Kg (ppb)		Sample Result µg/Kg (ppb)
Acetone	**500,000**		**9,400,000**
Benzene	100,000		N.D.
Bromodichloromethane	100,000		N.D.
Bromoform	100,000		N.D.
Bromomethane	250,000		N.D.
2-Butanone	**500,000**		**3,000,000**
Carbon disulfide	250,000		N.D.
Carbon tetrachloride	250,000		N.D.
Chlorobenzene	100,000		N.D.
Chlorodibromomethane	100,000		N.D.
Chloroethane	250,000		N.D.
2-Chloroethyl vinyl ether	100,000		N.D.
Chloroform	100,000		N.D.
Chloromethane	250,000		N.D.
1,1-Dichloroethane	100,000		N.D.
1,2-Dichloroethane	100,000		N.D.
1,1-Dichloroethene	250,000		N.D.
cis-1,2-Dichloroethene	100,000		N.D.
trans-1,2-Dichloroethene	100,000		N.D.
1,2-Dichloropropane	100,000		N.D.
cis-1,3-Dichloropropene	100,000		N.D.
trans-1,3-Dichloropropene	100,000		N.D.
Ethylbenzene	100,000		N.D.
2-Hexanone	500,000		N.D.
Methylene chloride	**500,000**		**550,000**
4-Methyl-2-pentanone	250,000		N.D.
Styrene	100,000		N.D.
1,1,2,2-Tetrachloroethane	100,000		N.D.
Tetrachloroethene	**100,000**		**500,000**
Toluene	100,000		N.D.
1,1,1-Trichloroethane	**100,000**		**650,000**
1,1,2-Trichloroethane	100,000		N.D.
Trichloroethene	100,000		N.D.
Trichlorofluoromethane	250,000		N.D.
Vinyl acetate	250,000		N.D.
Vinyl chloride	250,000		N.D.
Total Xylenes	100,000		N.D.

Analytes reported as N.D. were not present above the stated limit of detection. Due to matrix effects and/or other factors, the sample required dilution. Detection limits for this sample have been raised by a factor of 50000.

DEL MAR ANALYTICAL, IRVINE (ELAP #1197)

Gary Steube
Laboratory Director

Surrogate Standard Recoveries (Accept. Limits):	
1,2-Dichloroethane-d4 (70-121)	103%
Toluene-d8 (81-117)	98%
4-Bromofluorobenzene (74-121)	97%

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2465 W. 12th St., Suite 1, Tempe, AZ 85281 (602) 968-8272 FAX (602) 968-1338

Harding Lawson Associates	Client Project ID:	32026.39	Sampled: Aug 8, 1995
3 Hutton Centre, Suite 300		Omega Chemical/Whittier	Received: Aug 8, 1995
Santa Ana, CA 92707	Sample Descript:	Solid, AST-5	Extracted: Aug 11, 1995
Attention: Andrew Keller	Lab Number:	EH00987	Analyzed: Aug 11, 1995
			Reported: Aug 14, 1995

VOLATILE ORGANICS by GC/MS (EPA 8240)

Analyte	Detection Limit µg/Kg (ppb)	Sample Result µg/Kg (ppb)
Acetone	2,500,000	N.D.
Benzene	500,000	N.D.
Bromodichloromethane	500,000	N.D.
Bromoform	500,000	N.D.
Bromomethane	1,300,000	N.D.
2-Butanone	2,500,000	N.D.
Carbon disulfide	1,300,000	N.D.
Carbon tetrachloride	1,300,000	N.D.
Chlorobenzene	500,000	N.D.
Chlorodibromomethane	500,000	N.D.
Chloroethane	1,300,000	N.D.
2-Chloroethyl vinyl ether	500,000	N.D.
Chloroform	500,000	N.D.
Chloromethane	1,300,000	N.D.
1,1-Dichloroethane	500,000	N.D.
1,2-Dichloroethane	500,000	N.D.
1,1-Dichloroethene	1,300,000	N.D.
cis-1,2-Dichloroethene	500,000	N.D.
trans-1,2-Dichloroethene	500,000	N.D.
1,2-Dichloropropane	500,000	N.D.
cis-1,3-Dichloropropene	500,000	N.D.
trans-1,3-Dichloropropene	500,000	N.D.
Ethylbenzene	500,000	N.D.
2-Hexanone	2,500,000	N.D.
Methylene chloride	2,500,000	N.D.
4-Methyl-2-pentanone	1,300,000	N.D.
Styrene	500,000	N.D.
1,1,2,2-Tetrachloroethane	500,000	N.D.
Tetrachloroethene	**500,000**	**10,000,000**
Toluene	**500,000**	**830,000**
1,1,1-Trichloroethane	**500,000**	**5,300,000**
1,1,2-Trichloroethane	500,000	N.D.
Trichloroethene	**500,000**	**650,000**
Trichlorofluoromethane	**1,300,000**	**3,800,000**
Vinyl acetate	1,300,000	N.D.
Vinyl chloride	1,300,000	N.D.
Total Xylenes	500,000	N.D.

Analytes reported as N.D. were not present above the stated limit of detection. Due to matrix effects and/or other factors, the sample required dilution. Detection limits for this sample have been raised by a factor of 250000.

DEL MAR ANALYTICAL, IRVINE (ELAP #1197)

Gary Steube
Laboratory Director

Surrogate Standard Recoveries (Accept. Limits):	
1,2-Dichloroethane-d4 (70-121)	108%
Toluene-d8 (81-117)	100%
4-Bromofluorobenzene (74-121)	91%

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2465 W. 12th St., Suite 1, Tempe, AZ 85281 (602) 968-8272 FAX (602) 968-1338

Harding Lawson Associates
3 Hutton Centre, Suite 300
Santa Ana, CA 92707
Attention: Andrew Keller

Client Project ID: 32026.39
Omega Chemical/Whittier
Sample Descript: Solid, AST-1
Lab Number: EH00983

Sampled: Aug 8, 199
Received: Aug 8, 1995
Extracted: Aug 9, 1995
Analyzed: Aug 10, 1995
Reported: Aug 14, 1995

SEMI-VOLATILE ORGANICS by GC/MS (EPA 3550/8270)

Analyte	Detection Limit µg/Kg (ppb)	Sample Result µg/Kg (ppb)	Analyte	Detection Limit µg/Kg (ppb)	Sample Result µg/Kg (ppb)
Acenaphthene	10,000	N.D.	Dimethyl phthalate	10,000	N.D.
Acenaphthylene	10,000	N.D.	4,6-Dinitro-2-methylphenol	25,000	N.D.
Aniline	15,000	N.D.	2,4-Dinitrophenol	25,000	N.D.
Anthracene	10,000	N.D.	2,4-Dinitrotoluene	10,000	N.D.
Azobenzene	15,000	N.D.	2,6-Dinitrotoluene	10,000	N.D.
Benzidine	100,000	N.D.	Di-N-octyl phthalate	50,000	N.D.
Benzoic Acid	50,000	N.D.	Fluoranthene	10,000	N.D.
Benz(a)anthracene	10,000	N.D.	Fluorene	10,000	N.D.
Benzo(b)fluoranthene	20,000	N.D.	Hexachlorobenzene	10,000	N.D.
Benzo(k)fluoranthene	20,000	N.D.	Hexachlorobutadiene	10,000	N.D.
Benzo(g,h,i)perylene	15,000	N.D.	Hexachlorocyclopentadiene	50,000	N.D.
Benzo(a)pyrene	20,000	N.D.	Hexachloroethane	20,000	N.D.
Benzyl alcohol	**20,000**	**83,000**	Indeno(1,2,3-cd)pyrene	20,000	N.D.
Bis(2-chloroethoxy)methane	10,000	N.D.	**Isophorone**	**10,000**	**11,000**
Bis(2-chloroethyl)ether	10,000	N.D.	**2-Methylnaphthalene**	**10,000**	**25,000**
Bis(2-chloroisopropyl)ether	10,000	N.D.	**2-Methylphenol**	**15,000**	**36,000**
Bis(2-ethylhexyl)phthalate	**25,000**	**350,000**	**4-Methylphenol**	**15,000**	**80,000**
4-Bromophenyl phenyl ether	15,000	N.D.	**Naphthalene**	**15,000**	**29,000**
Butyl benzyl phthalate	**50,000**	**56,000**	2-Nitroaniline	20,000	N.D.
4-Chloroaniline	10,000	N.D.	3-Nitroaniline	20,000	N.D.
2-Chloronaphthalene	10,000	N.D.	4-Nitroaniline	50,000	N.D.
4-Chloro-3-methylphenol	10,000	N.D.	Nitrobenzene	50,000	N.D.
2-Chlorophenol	25,000	N.D.	2-Nitrophenol	10,000	N.D.
4-Chlorophenyl phenyl ether	10,000	N.D.	4-Nitrophenol	50,000	N.D.
Chrysene	10,000	N.D.	N-Nitrosodiphenylamine	20,000	N.D.
Dibenz(a,h)anthracene	25,000	N.D.	N-Nitroso-di-N-propylamine	15,000	N.D.
Dibenzofuran	10,000	N.D.	Pentachlorophenol	50,000	N.D.
Di-N-butyl phthalate	**25,000**	**40,000**	Phenanthrene	10,000	N.D.
1,3-Dichlorobenzene	10,000	N.D.	**Phenol**	**15,000**	**120,000**
1,4-Dichlorobenzene	10,000	N.D.	Pyrene	15,000	N.D.
1,2-Dichlorobenzene	**10,000**	**17,000**	1,2,4-Trichlorobenzene	10,000	N.D.
3,3-Dichlorobenzidine	50,000	N.D.	2,4,5-Trichlorophenol	15,000	N.D.
2,4-Dichlorophenol	10,000	N.D.	2,4,6-Trichlorophenol	15,000	N.D.
Diethyl phthalate	10,000	N.D.			
2,4-Dimethylphenol	25,000	N.D.			

Analytes reported as N.D. were not present above the stated limit of detection. Due to matrix effects and/or other factors, the sample required dilution. Detection limits for this sample have been raised by a factor of 100.

DEL MAR ANALYTICAL, IRVINE (ELAP #1197)

Gary Steube
Laboratory Director

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2465 W. 12th St., Suite 1, Tempe, AZ 85281 (602) 968-8272 FAX (602) 968-1338

Harding Lawson Associates
3 Hutton Centre, Suite 300
Santa Ana, CA 92707
Attention: Andrew Keller

Client Project ID: 32026.39
Omega Chemical/Whittier
Sample Descript: Solid, AST-2
Lab Number: EH00984

Sampled: Aug 8, 1995
Received: Aug 8, 1995
Extracted: Aug 9, 1995
Analyzed: Aug 10, 1995
Reported: Aug 14, 1995

SEMI-VOLATILE ORGANICS by GC/MS (EPA 3550/8270)

Analyte	Detection Limit µg/Kg (ppb)	Sample Result µg/Kg (ppb)	Analyte	Detection Limit µg/Kg (ppb)	Sample Result µg/Kg (ppb)
Acenaphthene	10,000	N.D.	**Dimethyl phthalate**	**10,000**	**16,000**
Acenaphthylene	10,000	N.D.	4,6-Dinitro-2-methylphenol	25,000	N.D.
Aniline	15,000	N.D.	2,4-Dinitrophenol	25,000	N.D.
Anthracene	10,000	N.D.	2,4-Dinitrotoluene	10,000	N.D.
Azobenzene	15,000	N.D.	2,6-Dinitrotoluene	10,000	N.D.
Benzidine	100,000	N.D.	Di-N-octyl phthalate	50,000	N.D.
Benzoic Acid	50,000	N.D.	Fluoranthene	10,000	N.D.
Benz(a)anthracene	10,000	N.D.	Fluorene	10,000	N.D.
Benzo(b)fluoranthene	20,000	N.D.	Hexachlorobenzene	10,000	N.D.
Benzo(k)fluoranthene	20,000	N.D.	Hexachlorobutadiene	10,000	N.D.
Benzo(g,h,i)perylene	15,000	N.D.	Hexachlorocyclopentadiene	50,000	N.D.
Benzo(a)pyrene	20,000	N.D.	Hexachloroethane	20,000	N.D.
Benzyl alcohol	**20,000**	**52,000**	Indeno(1,2,3-cd)pyrene	20,000	N.D.
Bis(2-chloroethoxy)methane	10,000	N.D.	Isophorone	10,000	N.D.
Bis(2-chloroethyl)ether	10,000	N.D.	**2-Methylnaphthalene**	**10,000**	**35,000**
Bis(2-chloroisopropyl)ether	10,000	N.D.	2-Methylphenol	15,000	N.D.
Bis(2-ethylhexyl)phthalate	**25,000**	**45,000**	**4-Methylphenol**	**15,000**	**33,000**
4-Bromophenyl phenyl ether	15,000	N.D.	**Naphthalene**	**15,000**	**44,000**
Butyl benzyl phthalate	50,000	N.D.	2-Nitroaniline	20,000	N.D.
4-Chloroaniline	10,000	N.D.	3-Nitroaniline	20,000	N.D.
2-Chloronaphthalene	10,000	N.D.	4-Nitroaniline	50,000	N.D.
4-Chloro-3-methylphenol	10,000	N.D.	Nitrobenzene	50,000	N.D.
2-Chlorophenol	25,000	N.D.	2-Nitrophenol	10,000	N.D.
4-Chlorophenyl phenyl ether	10,000	N.D.	4-Nitrophenol	50,000	N.D.
Chrysene	10,000	N.D.	N-Nitrosodiphenylamine	20,000	N.D.
Dibenz(a,h)anthracene	25,000	N.D.	N-Nitroso-di-N-propylamine	15,000	N.D.
Dibenzofuran	10,000	N.D.	Pentachlorophenol	50,000	N.D.
Di-N-butyl phthalate	**25,000**	**28,000**	Phenanthrene	10,000	N.D.
1,3-Dichlorobenzene	10,000	N.D.	**Phenol**	**15,000**	**160,000**
1,4-Dichlorobenzene	10,000	N.D.	Pyrene	15,000	N.D.
1,2-Dichlorobenzene	10,000	N.D.	1,2,4-Trichlorobenzene	10,000	N.D.
3,3-Dichlorobenzidine	50,000	N.D.	2,4,5-Trichlorophenol	15,000	N.D.
2,4-Dichlorophenol	10,000	N.D.	2,4,6-Trichlorophenol	15,000	N.D.
Diethyl phthalate	10,000	N.D.			
2,4-Dimethylphenol	25,000	N.D.			

Analytes reported as N.D. were not present above the stated limit of detection. Due to matrix effects and/or other factors, the sample required dilution. Detection limits for this sample have been raised by a factor of 100.

DEL MAR ANALYTICAL, IRVINE (ELAP #1197)

Gary Steube
Laboratory Director

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Harding Lawson Associates
3 Hutton Centre, Suite 300
Santa Ana, CA 92707
Attention: Andrew Keller

Client Project ID: 32026.39
Omega Chemical/Whittier
Sample Descript: Solid, AST-3
Lab Number: EH00985

Sampled: Aug 8, 199
Received: Aug 8, 1995
Extracted: Aug 9, 1995
Analyzed: Aug 9, 1995
Reported: Aug 14, 1995

SEMI-VOLATILE ORGANICS by GC/MS (EPA 3550/8270)

Analyte	Detection Limit µg/Kg (ppb)	Sample Result µg/Kg (ppb)	Analyte	Detection Limit µg/Kg (ppb)	Sample Result µg/Kg (ppb)
Acenaphthene	40,000	N.D.	Dimethyl phthalate	40,000	N.D.
Acenaphthylene	40,000	N.D.	4,6-Dinitro-2-methylphenol	100,000	N.D.
Aniline	60,000	N.D.	2,4-Dinitrophenol	100,000	N.D.
Anthracene	40,000	N.D.	2,4-Dinitrotoluene	40,000	N.D.
Azobenzene	60,000	N.D.	2,6-Dinitrotoluene	40,000	N.D.
Benzidine	400,000	N.D.	Di-N-octyl phthalate	200,000	N.D.
Benzoic Acid	200,000	N.D.	Fluoranthene	40,000	N.D.
Benz(a)anthracene	40,000	N.D.	Fluorene	40,000	N.D.
Benzo(b)fluoranthene	80,000	N.D.	Hexachlorobenzene	40,000	N.D.
Benzo(k)fluoranthene	80,000	N.D.	Hexachlorobutadiene	40,000	N.D.
Benzo(g,h,i)perylene	60,000	N.D.	Hexachlorocyclopentadiene	200,000	N.D.
Benzo(a)pyrene	80,000	N.D.	Hexachloroethane	80,000	N.D.
Benzyl alcohol	80,000	N.D.	Indeno(1,2,3-cd)pyrene	80,000	N.D.
Bis(2-chloroethoxy)methane	40,000	N.D.	Isophorone	40,000	N.D.
Bis(2-chloroethyl)ether	40,000	N.D.	2-Methylnaphthalene	40,000	N.D.
Bis(2-chloroisopropyl)ether	40,000	N.D.	2-Methylphenol	60,000	N.D.
Bis(2-ethylhexyl)phthalate	100,000	N.D.	**4-Methylphenol**	**60,000**	**72,000**
4-Bromophenyl phenyl ether	60,000	N.D.	Naphthalene	60,000	N.D.
Butyl benzyl phthalate	200,000	N.D.	2-Nitroaniline	80,000	N.D.
4-Chloroaniline	40,000	N.D.	3-Nitroaniline	80,000	N.D.
2-Chloronaphthalene	40,000	N.D.	4-Nitroaniline	200,000	N.D.
4-Chloro-3-methylphenol	40,000	N.D.	Nitrobenzene	200,000	N.D.
2-Chlorophenol	100,000	N.D.	2-Nitrophenol	40,000	N.D.
4-Chlorophenyl phenyl ether	40,000	N.D.	4-Nitrophenol	200,000	N.D.
Chrysene	40,000	N.D.	N-Nitrosodiphenylamine	80,000	N.D.
Dibenz(a,h)anthracene	100,000	N.D.	N-Nitroso-di-N-propylamine	60,000	N.D.
Dibenzofuran	40,000	N.D.	Pentachlorophenol	200,000	N.D.
Di-N-butyl phthalate	100,000	N.D.	Phenanthrene	40,000	N.D.
1,3-Dichlorobenzene	40,000	N.D.	**Phenol**	**60,000**	**1,200,000**
1,4-Dichlorobenzene	40,000	N.D.	Pyrene	60,000	N.D.
1,2-Dichlorobenzene	40,000	N.D.	1,2,4-Trichlorobenzene	40,000	N.D.
3,3-Dichlorobenzidine	200,000	N.D.	2,4,5-Trichlorophenol	60,000	N.D.
2,4-Dichlorophenol	40,000	N.D.	2,4,6-Trichlorophenol	60,000	N.D.
Diethyl phthalate	40,000	N.D.			
2,4-Dimethylphenol	100,000	N.D.			

Analytes reported as N.D. were not present above the stated limit of detection. Due to matrix effects and/or other factors, the sample required dilution. Detection limits for this sample have been raised by a factor of 400.

DEL MAR ANALYTICAL, IRVINE (ELAP #1197)

Gary Steube
Laboratory Director

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Harding Lawson Associates
3 Hutton Centre, Suite 300
Santa Ana, CA 92707
Attention: Andrew Keller

Client Project ID: 32026.39
Omega Chemical/Whittier
Sample Descript: Solid, AST-4
Lab Number: EH00986

Sampled: Aug 8, 1995
Received: Aug 8, 1995
Extracted: Aug 9, 1995
Analyzed: Aug 9, 1995
Reported: Aug 14, 1995

SEMI-VOLATILE ORGANICS by GC/MS (EPA 3550/8270)

Analyte	Detection Limit µg/Kg (ppb)	Sample Result µg/Kg (ppb)	Analyte	Detection Limit µg/Kg (ppb)	Sample Result µg/Kg (ppb)
Acenaphthene	40,000	N.D.	Dimethyl phthalate	40,000	N.D.
Acenaphthylene	40,000	N.D.	4,6-Dinitro-2-methylphenol	100,000	N.D.
Aniline	60,000	N.D.	2,4-Dinitrophenol	100,000	N.D.
Anthracene	40,000	N.D.	2,4-Dinitrotoluene	40,000	N.D.
Azobenzene	60,000	N.D.	2,6-Dinitrotoluene	40,000	N.D.
Benzidine	400,000	N.D.	Di-N-octyl phthalate	200,000	N.D.
Benzoic Acid	200,000	N.D.	Fluoranthene	40,000	N.D.
Benz(a)anthracene	40,000	N.D.	Fluorene	40,000	N.D.
Benzo(b)fluoranthene	80,000	N.D.	Hexachlorobenzene	40,000	N.D.
Benzo(k)fluoranthene	80,000	N.D.	Hexachlorobutadiene	40,000	N.D.
Benzo(g,h,i)perylene	60,000	N.D.	Hexachlorocyclopentadiene	200,000	N.D.
Benzo(a)pyrene	80,000	N.D.	Hexachloroethane	80,000	N.D.
Benzyl alcohol	**80,000**	**330,000**	Indeno(1,2,3-cd)pyrene	80,000	N.D.
Bis(2-chloroethoxy)methane	40,000	N.D.	Isophorone	40,000	N.D.
Bis(2-chloroethyl)ether	40,000	N.D.	2-Methylnaphthalene	40,000	N.D.
Bis(2-chloroisopropyl)ether	40,000	N.D.	2-Methylphenol	60,000	N.D.
Bis(2-ethylhexyl)phthalate	**100,000**	**100,000**	**4-Methylphenol**	**60,000**	**98,000**
4-Bromophenyl phenyl ether	60,000	N.D.	Naphthalene	60,000	N.D.
Butyl benzyl phthalate	200,000	N.D.	2-Nitroaniline	80,000	N.D.
4-Chloroaniline	40,000	N.D.	3-Nitroaniline	80,000	N.D.
2-Chloronaphthalene	40,000	N.D.	4-Nitroaniline	200,000	N.D.
4-Chloro-3-methylphenol	40,000	N.D.	Nitrobenzene	200,000	N.D.
2-Chlorophenol	100,000	N.D.	2-Nitrophenol	40,000	N.D.
4-Chlorophenyl phenyl ether	40,000	N.D.	4-Nitrophenol	200,000	N.D.
Chrysene	40,000	N.D.	N-Nitrosodiphenylamine	80,000	N.D.
Dibenz(a,h)anthracene	100,000	N.D.	N-Nitroso-di-N-propylamine	60,000	N.D.
Dibenzofuran	40,000	N.D.	Pentachlorophenol	200,000	N.D.
Di-N-butyl phthalate	100,000	N.D.	Phenanthrene	40,000	N.D.
1,3-Dichlorobenzene	40,000	N.D.	**Phenol**	**60,000**	**62,000**
1,4-Dichlorobenzene	40,000	N.D.	Pyrene	60,000	N.D.
1,2-Dichlorobenzene	40,000	N.D.	1,2,4-Trichlorobenzene	40,000	N.D.
3,3-Dichlorobenzidine	200,000	N.D.	2,4,5-Trichlorophenol	60,000	N.D.
2,4-Dichlorophenol	40,000	N.D.	2,4,6-Trichlorophenol	60,000	N.D.
Diethyl phthalate	40,000	N.D.			
2,4-Dimethylphenol	100,000	N.D.			

Analytes reported as N.D. were not present above the stated limit of detection. Due to matrix effects and/or other factors, the sample required dilution. Detection limits for this sample have been raised by a factor of 400.

DEL MAR ANALYTICAL, IRVINE (ELAP #1197)

Gary Steube
Laboratory Director

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Harding Lawson Associates
3 Hutton Centre, Suite 300
Santa Ana, CA 92707
Attention: Andrew Keller

Client Project ID: 32026.39
Omega Chemical/Whittier
Sample Descript: Solid, AST-5
Lab Number: EH00987

Sampled: Aug 8, 19[illegible]
Received: Aug 8, 1995
Extracted: Aug 9, 1995
Analyzed: Aug 9, 1995
Reported: Aug 14, 1995

SEMI-VOLATILE ORGANICS by GC/MS (EPA 3550/8270)

Analyte	Detection Limit µg/Kg (ppb)	Sample Result µg/Kg (ppb)	Analyte	Detection Limit µg/Kg (ppb)	Sample Result µg/Kg (ppb)
Acenaphthene	40,000	N.D.	Dimethyl phthalate	40,000	N.D.
Acenaphthylene	40,000	N.D.	4,6-Dinitro-2-methylphenol	100,000	N.D.
Aniline	60,000	N.D.	2,4-Dinitrophenol	100,000	N.D.
Anthracene	40,000	N.D.	2,4-Dinitrotoluene	40,000	N.D.
Azobenzene	60,000	N.D.	2,6-Dinitrotoluene	40,000	N.D.
Benzidine	400,000	N.D.	Di-N-octyl phthalate	200,000	N.D.
Benzoic Acid	200,000	N.D.	Fluoranthene	40,000	N.D.
Benz(a)anthracene	40,000	N.D.	Fluorene	40,000	N.D.
Benzo(b)fluoranthene	80,000	N.D.	Hexachlorobenzene	40,000	N.D.
Benzo(k)fluoranthene	80,000	N.D.	Hexachlorobutadiene	40,000	N.D.
Benzo(g,h,i)perylene	60,000	N.D.	Hexachlorocyclopentadiene	200,000	N.D.
Benzo(a)pyrene	80,000	N.D.	Hexachloroethane	80,000	N.D.
Benzyl alcohol	**80,000**	**440,000**	Indeno(1,2,3-cd)pyrene	80,000	N.D.
Bis(2-chloroethoxy)methane	40,000	N.D.	Isophorone	40,000	N.D.
Bis(2-chloroethyl)ether	40,000	N.D.	**2-Methylnaphthalene**	**40,000**	**60,000**
Bis(2-chloroisopropyl)ether	40,000	N.D.	**2-Methylphenol**	**60,000**	**120,000**
Bis(2-ethylhexyl)phthalate	100,000	N.D.	**4-Methylphenol**	**60,000**	**98,000**
4-Bromophenyl phenyl ether	60,000	N.D.	Naphthalene	60,000	N.D.
Butyl benzyl phthalate	200,000	N.D.	2-Nitroaniline	80,000	N.D.
4-Chloroaniline	40,000	N.D.	3-Nitroaniline	80,000	N.D.
2-Chloronaphthalene	40,000	N.D.	4-Nitroaniline	200,000	N.D.
4-Chloro-3-methylphenol	40,000	N.D.	Nitrobenzene	200,000	N.D.
2-Chlorophenol	100,000	N.D.	2-Nitrophenol	40,000	N.D.
4-Chlorophenyl phenyl ether	40,000	N.D.	4-Nitrophenol	200,000	N.D.
Chrysene	40,000	N.D.	N-Nitrosodiphenylamine	80,000	N.D.
Dibenz(a,h)anthracene	100,000	N.D.	N-Nitroso-di-N-propylamine	60,000	N.D.
Dibenzofuran	40,000	N.D.	Pentachlorophenol	200,000	N.D.
Di-N-butyl phthalate	100,000	N.D.	Phenanthrene	40,000	N.D.
1,3-Dichlorobenzene	40,000	N.D.	**Phenol**	**60,000**	**190,000**
1,4-Dichlorobenzene	40,000	N.D.	Pyrene	60,000	N.D.
1,2-Dichlorobenzene	40,000	N.D.	1,2,4-Trichlorobenzene	40,000	N.D.
3,3-Dichlorobenzidine	200,000	N.D.	2,4,5-Trichlorophenol	60,000	N.D.
2,4-Dichlorophenol	40,000	N.D.	2,4,6-Trichlorophenol	60,000	N.D.
Diethyl phthalate	40,000	N.D.			
2,4-Dimethylphenol	100,000	N.D.			

Analytes reported as N.D. were not present above the stated limit of detection. Due to matrix effects and/or other factors, the sample required dilution. Detection limits for this sample have been raised by a factor of 400.

DEL MAR ANALYTICAL, IRVINE (ELAP #1197)

Gary Steube
Laboratory Director

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2465 W. 12th St., Suite 1, Tempe, AZ 85281 (602) 968-8272 FAX (602) 968-1338

Harding Lawson Associates
3 Hutton Centre, Suite 300
Santa Ana, CA 92707
Attention: Andrew Keller

Client Project ID: 32026.39
Omega Chemical/Whittier
Sample Descript: Solid
First Sample #: EH00983

Sampled: Aug 8, 1995
Received: Aug 8, 1995
Extracted: Aug 10, 1995
Analyzed: Aug 10, 1995
Reported: Aug 14, 1995

TOTAL ORGANIC CARBON (EPA 9060)

Laboratory Number	Sample Description	Detection Limit mg/Kg (ppm)	Sample Result mg/Kg (ppm)
EH00983	AST-1	100	45,000
EH00984	AST-2	100	110,000
EH00985	AST-3	100	55,000
EH00986	AST-4	100	450,000
EH00987	AST-5	100	55,000

This analysis was performed at a subcontracted laboratory.

Analytes reported as N.D. were not present above the stated limit of detection.

DEL MAR ANALYTICAL, IRVINE (ELAP #1197)

Gary Steube
Laboratory Director

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Harding Lawson Associates
3 Hutton Centre, Suite 300
Santa Ana, CA 92707
Attention: Andrew Keller

Client Project ID: 32026.39
Omega Chemical/Whittier
Sample Descript: Solid
First Sample #: EH00983

Sampled: Aug 8, 199
Received: Aug 8, 1995
Extracted: Aug 9, 1995
Analyzed: Aug 9, 1995
Reported: Aug 14, 1995

FLASHPOINT (EPA 1010)

Laboratory Number	Sample Description	Sample Result (°C)
EH00983	AST-1	25°C
EH00984	AST-2	25°C
EH00985	AST-3	25°C
EH00986	AST-4	25°C
EH00987	AST-5	25°C

Detection Limit:	**25**

Analytes reported as N.D. were not present above the stated limit of detection.

DEL MAR ANALYTICAL, IRVINE (ELAP #1197)

Gary Steube
Laboratory Director

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Harding Lawson Associates
3 Hutton Centre, Suite 300
Santa Ana, CA 92707
Attention: Andrew Keller

Client Project ID: 32026.39
Omega Chemical/Whittier
Sample Descript: Solid
First Sample #: EH00983

Sampled: Aug 8, 1995
Received: Aug 8, 1995
Extracted: Aug 11, 1995
Analyzed: Aug 11, 1995
Reported: Aug 14, 1995

HEATING VALUE (ASTM D240)

Laboratory Number	Sample Description	Sample Result BTU/lb
EH00983	AST-1	5,300
EH00984	AST-2	430
EH00985	AST-3	8,100
EH00986	AST-4	7,100
EH00987	AST-5	6,400

This analysis was performed at a subcontracted laboratory.

Analytes reported as N.D. were not present above the stated limit of detection.

DEL MAR ANALYTICAL, IRVINE (ELAP #1197)

Gary Steube
Laboratory Director

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Harding Lawson Associates
3 Hutton Centre, Suite 300
Santa Ana, CA 92707
Attention: Andrew Keller

Method Blank

Extracted: Aug 10, 199
Analyzed: Aug 10, 1995
Reported: Aug 14, 1995
Matrix: Solid

VOLATILE ORGANICS by GC/MS (EPA 8240)

Analyte	Detection Limit µg/Kg (ppb)	Sample Result µg/Kg (ppb)
Acetone	10	N.D.
Benzene	2.0	N.D.
Bromodichloromethane	2.0	N.D.
Bromoform	2.0	N.D.
Bromomethane	5.0	N.D.
2-Butanone	10	N.D.
Carbon disulfide	5.0	N.D.
Carbon tetrachloride	5.0	N.D.
Chlorobenzene	2.0	N.D.
Chlorodibromomethane	2.0	N.D.
Chloroethane	5.0	N.D.
2-Chloroethyl vinyl ether	2.0	N.D.
Chloroform	2.0	N.D.
Chloromethane	5.0	N.D.
1,1-Dichloroethane	2.0	N.D.
1,2-Dichloroethane	2.0	N.D.
1,1-Dichloroethene	5.0	N.D.
cis-1,2-Dichloroethene	2.0	N.D.
trans-1,2-Dichloroethene	2.0	N.D.
1,2-Dichloropropane	2.0	N.D.
cis-1,3-Dichloropropene	2.0	N.D.
trans-1,3-Dichloropropene	2.0	N.D.
Ethylbenzene	2.0	N.D.
2-Hexanone	10	N.D.
Methylene chloride	10	N.D.
4-Methyl-2-pentanone	5.0	N.D.
Styrene	2.0	N.D.
1,1,2,2-Tetrachloroethane	2.0	N.D.
Tetrachloroethene	2.0	N.D.
Toluene	2.0	N.D.
1,1,1-Trichloroethane	2.0	N.D.
1,1,2-Trichloroethane	2.0	N.D.
Trichloroethene	2.0	N.D.
Trichlorofluoromethane	5.0	N.D.
Vinyl acetate	5.0	N.D.
Vinyl chloride	5.0	N.D.
Total Xylenes	2.0	N.D.

Analytes reported as N.D. were not present above the stated limit of detection.

DEL MAR ANALYTICAL, IRVINE (ELAP #1197)

Gary Steube
Laboratory Director

Surrogate Standard Recoveries (Accept. Limits):	
1,2-Dichloroethane-d4 (70-121)	105%
Toluene-d8 (81-117)	99%
4-Bromofluorobenzene (74-121)	90%

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2465 W. 12th St., Suite 1, Tempe, AZ 85281 (602) 968-8272 FAX (602) 968-1338

Harding Lawson Associates
3 Hutton Centre, Suite 300
Santa Ana, CA 92707
Attention: Andrew Keller

Method Blank

Extracted: Aug 11, 1995
Analyzed: Aug 11, 1995
Reported: Aug 14, 1995
Matrix: Solid

VOLATILE ORGANICS by GC/MS (EPA 8240)

Analyte	Detection Limit µg/Kg (ppb)	Sample Result µg/Kg (ppb)
Acetone	10	N.D.
Benzene	2.0	N.D.
Bromodichloromethane	2.0	N.D.
Bromoform	2.0	N.D.
Bromomethane	5.0	N.D.
2-Butanone	10	N.D.
Carbon disulfide	5.0	N.D.
Carbon tetrachloride	5.0	N.D.
Chlorobenzene	2.0	N.D.
Chlorodibromomethane	2.0	N.D.
Chloroethane	5.0	N.D.
2-Chloroethyl vinyl ether	2.0	N.D.
Chloroform	2.0	N.D.
Chloromethane	5.0	N.D.
1,1-Dichloroethane	2.0	N.D.
1,2-Dichloroethane	2.0	N.D.
1,1-Dichloroethene	5.0	N.D.
cis-1,2-Dichloroethene	2.0	N.D.
trans-1,2-Dichloroethene	2.0	N.D.
1,2-Dichloropropane	2.0	N.D.
cis-1,3-Dichloropropene	2.0	N.D.
trans-1,3-Dichloropropene	2.0	N.D.
Ethylbenzene	2.0	N.D.
2-Hexanone	10	N.D.
Methylene chloride	10	N.D.
4-Methyl-2-pentanone	5.0	N.D.
Styrene	2.0	N.D.
1,1,2,2-Tetrachloroethane	2.0	N.D.
Tetrachloroethene	2.0	N.D.
Toluene	2.0	N.D.
1,1,1-Trichloroethane	2.0	N.D.
1,1,2-Trichloroethane	2.0	N.D.
Trichloroethene	2.0	N.D.
Trichlorofluoromethane	5.0	N.D.
Vinyl acetate	5.0	N.D.
Vinyl chloride	5.0	N.D.
Total Xylenes	2.0	N.D.

Analytes reported as N.D. were not present above the stated limit of detection.

DEL MAR ANALYTICAL, IRVINE (ELAP #1197)

Gary Stedbe
Laboratory Director

Surrogate Standard Recoveries (Accept. Limits):	
1,2-Dichloroethane-d4 (70-121).....	102%
Toluene-d8 (81-117).....	100%
4-Bromofluorobenzene (74-121).....	92%

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Harding Lawson Associates
3 Hutton Centre, Suite 300
Santa Ana, CA 92707
Attention: Andrew Keller

Method Blank

Extracted: Aug 9, 199
Analyzed: Aug 9, 1995
Reported: Aug 14, 1995
Matrix Solid

SEMI-VOLATILE ORGANICS by GC/MS (EPA 3550/8270)

Analyte	Detection Limit µg/Kg (ppb)	Sample Result µg/Kg (ppb)	Analyte	Detection Limit µg/Kg (ppb)	Sample Result µg/Kg (ppb)
Acenaphthene	100	N.D.	Dimethyl phthalate	100	N.D.
Acenaphthylene	100	N.D.	4,6-Dinitro-2-methylphenol	250	N.D.
Aniline	150	N.D.	2,4-Dinitrophenol	250	N.D.
Anthracene	100	N.D.	2,4-Dinitrotoluene	100	N.D.
Azobenzene	150	N.D.	2,6-Dinitrotoluene	100	N.D.
Benzidine	1,000	N.D.	Di-N-octyl phthalate	500	N.D.
Benzoic Acid	500	N.D.	Fluoranthene	100	N.D.
Benz(a)anthracene	100	N.D.	Fluorene	100	N.D.
Benzo(b)fluoranthene	200	N.D.	Hexachlorobenzene	100	N.D.
Benzo(k)fluoranthene	200	N.D.	Hexachlorobutadiene	100	N.D.
Benzo(g,h,i)perylene	150	N.D.	Hexachlorocyclopentadiene	500	N.D.
Benzo(a)pyrene	200	N.D.	Hexachloroethane	200	N.D.
Benzyl alcohol	200	N.D.	Indeno(1,2,3-cd)pyrene	200	N.D.
Bis(2-chloroethoxy)methane	100	N.D.	Isophorone	100	N.D.
Bis(2-chloroethyl)ether	100	N.D.	2-Methylnaphthalene	100	N.D.
Bis(2-chloroisopropyl)ether	100	N.D.	2-Methylphenol	150	N.D.
Bis(2-ethylhexyl)phthalate	250	N.D.	4-Methylphenol	150	N.D.
4-Bromophenyl phenyl ether	150	N.D.	Naphthalene	150	N.D.
Butyl benzyl phthalate	500	N.D.	2-Nitroaniline	200	N.D.
4-Chloroaniline	100	N.D.	3-Nitroaniline	200	N.D.
2-Chloronaphthalene	100	N.D.	4-Nitroaniline	500	N.D.
4-Chloro-3-methylphenol	100	N.D.	Nitrobenzene	500	N.D.
2-Chlorophenol	250	N.D.	2-Nitrophenol	100	N.D.
4-Chlorophenyl phenyl ether	100	N.D.	4-Nitrophenol	500	N.D.
Chrysene	100	N.D.	N-Nitrosodiphenylamine	200	N.D.
Dibenz(a,h)anthracene	250	N.D.	N-Nitroso-di-N-propylamine	150	N.D.
Dibenzofuran	100	N.D.	Pentachlorophenol	500	N.D.
Di-N-butyl phthalate	250	N.D.	Phenanthrene	100	N.D.
1,3-Dichlorobenzene	100	N.D.	Phenol	150	N.D.
1,4-Dichlorobenzene	100	N.D.	Pyrene	150	N.D.
1,2-Dichlorobenzene	100	N.D.	1,2,4-Trichlorobenzene	100	N.D.
3,3-Dichlorobenzidine	500	N.D.	2,4,5-Trichlorophenol	150	N.D.
2,4-Dichlorophenol	100	N.D.	2,4,6-Trichlorophenol	150	N.D.
Diethyl phthalate	100	N.D.			
2,4-Dimethylphenol	250	N.D.			

Analytes reported as N.D. were not present above the stated limit of detection.

Surrogate Standard Recoveries (Accept. Limits):	
2-Fluorophenol (25-121)	57%
Phenol-d6 (24-113)	58%
2,4,6-Tribromophenol (19-122)	82%
Nitrobenzene-d5 (23-120)	61%
2-Fluorobiphenyl (30-115)	68%
Terphenyl-d14 (18-137)	76%

DEL MAR ANALYTICAL, IRVINE (ELAP #1197)

Gary Stelbe
Laboratory Director

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2465 W. 12th St., Suite 1, Tempe, AZ 85281 (602) 968-8272 FAX (602) 968-1338

Harding Lawson Associates
3 Hutton Centre, Suite 300
Santa Ana, CA 92707
Attention: Andrew Keller

Method Blank

Extracted: Aug 10, 1995
Analyzed: Aug 10, 1995
Reported: Aug 14, 1995
Matrix Solid

SEMI-VOLATILE ORGANICS by GC/MS (EPA 3550/8270)

Analyte	Detection Limit µg/Kg (ppb)	Sample Result µg/Kg (ppb)	Analyte	Detection Limit µg/Kg (ppb)	Sample Result µg/Kg (ppb)
Acenaphthene	100	N.D.	Dimethyl phthalate	100	N.D.
Acenaphthylene	100	N.D.	4,6-Dinitro-2-methylphenol	250	N.D.
Aniline	150	N.D.	2,4-Dinitrophenol	250	N.D.
Anthracene	100	N.D.	2,4-Dinitrotoluene	100	N.D.
Azobenzene	150	N.D.	2,6-Dinitrotoluene	100	N.D.
Benzidine	1,000	N.D.	Di-N-octyl phthalate	500	N.D.
Benzoic Acid	500	N.D.	Fluoranthene	100	N.D.
Benz(a)anthracene	100	N.D.	Fluorene	100	N.D.
Benzo(b)fluoranthene	200	N.D.	Hexachlorobenzene	100	N.D.
Benzo(k)fluoranthene	200	N.D.	Hexachlorobutadiene	100	N.D.
Benzo(g,h,i)perylene	150	N.D.	Hexachlorocyclopentadiene	500	N.D.
Benzo(a)pyrene	200	N.D.	Hexachloroethane	200	N.D.
Benzyl alcohol	200	N.D.	Indeno(1,2,3-cd)pyrene	200	N.D.
Bis(2-chloroethoxy)methane	100	N.D.	Isophorone	100	N.D.
Bis(2-chloroethyl)ether	100	N.D.	2-Methylnaphthalene	100	N.D.
Bis(2-chloroisopropyl)ether	100	N.D.	2-Methylphenol	150	N.D.
Bis(2-ethylhexyl)phthalate	250	N.D.	4-Methylphenol	150	N.D.
4-Bromophenyl phenyl ether	150	N.D.	Naphthalene	150	N.D.
Butyl benzyl phthalate	500	N.D.	2-Nitroaniline	200	N.D.
4-Chloroaniline	100	N.D.	3-Nitroaniline	200	N.D.
2-Chloronaphthalene	100	N.D.	4-Nitroaniline	500	N.D.
4-Chloro-3-methylphenol	100	N.D.	Nitrobenzene	500	N.D.
2-Chlorophenol	250	N.D.	2-Nitrophenol	100	N.D.
4-Chlorophenyl phenyl ether	100	N.D.	4-Nitrophenol	500	N.D.
Chrysene	100	N.D.	N-Nitrosodiphenylamine	200	N.D.
Dibenz(a,h)anthracene	250	N.D.	N-Nitroso-di-N-propylamine	150	N.D.
Dibenzofuran	100	N.D.	Pentachlorophenol	500	N.D.
Di-N-butyl phthalate	250	N.D.	Phenanthrene	100	N.D.
1,3-Dichlorobenzene	100	N.D.	Phenol	150	N.D.
1,4-Dichlorobenzene	100	N.D.	Pyrene	150	N.D.
1,2-Dichlorobenzene	100	N.D.	1,2,4-Trichlorobenzene	100	N.D.
3,3-Dichlorobenzidine	500	N.D.	2,4,5-Trichlorophenol	150	N.D.
2,4-Dichlorophenol	100	N.D.	2,4,6-Trichlorophenol	150	N.D.
Diethyl phthalate	100	N.D.			
2,4-Dimethylphenol	250	N.D.			

Analytes reported as N.D. were not present above the stated limit of detection.

Surrogate Standard Recoveries (Accept. Limits):	
2-Fluorophenol (25-121)	57%
Phenol-d6 (24-113)	55%
2,4,6-Tribromophenol (19-122)	83%
Nitrobenzene-d5 (23-120)	58%
2-Fluorobiphenyl (30-115)	66%
Terphenyl-d14 (18-137)	82%

DEL MAR ANALYTICAL, IRVINE (ELAP #1197)

Gary Stelbe
Laboratory Director

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2465 W. 12th St., Suite 1, Tempe, AZ 85281 (602) 968-8272 FAX (602) 968-1338

MS/MSD DATA REPORT

EPA METHOD: 8240
Matrix: Soil

DATE: 8/10/95

SAMPLE #: Blank

Analyte	R1	Sp	MS	MSD	PR1	PR2	RPD	MEAN PR
	ppb	ppb	ppb	ppb	%	%	%	%
Benzene	0	50	43	48	86%	96%	11.0%	91%
Chlorobenzene	0	50	44	51	88%	102%	14.7%	95%
1,1-Dichloroethane	0	50	41	46	82%	92%	11.5%	87%
1,2-Dichlororethane	0	50	46	53	92%	106%	14.1%	99%
1,1-Dichloroethene	0	50	40	45	80%	90%	11.8%	85%
Chloroform	0	50	41	46	82%	92%	11.5%	87%
Tetrachloroethene	0	50	43	49	86%	98%	13.0%	92%
Toluene	0	50	43	49	86%	98%	13.0%	92%
Trichloroethene	0	50	39	45	78%	90%	14.3%	84%
Vinyl Chloride	0	50	60	66	120%	132%	9.5%	126%

Definition of Terms:

R1..... Result of Sample Analysis

Sp..... Spike Concentration Added to Sample

MS..... Matrix Spike Result

MSD..... Matrix Spike Duplicate Result

PR1..... Percent Recovery of MS; ((MS-R1) / SP) X 100

PR2..... Percent Recovery of MSD; ((MSD-R1) / SP) X 100

RPD..... Relative Percent Difference; ((MS-MSD)/(MS+MSD)/2)) X 100

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2465 W. 12th St., Suite 1, Tempe, AZ 85281 (602) 968-8272 FAX (602) 968-1338

MS/MSD DATA REPORT

EPA METHOD: **8270**
Matrix: Soil

DATE: 8/9/95

SAMPLE #: Blank

Analyte	R1	Sp	MS	MSD	PR1	PR2	RPD	MEAN PR
	ppb	ppb	ppb	ppb	%	%	%	%
1,4-Dichlorobenzene	0	50	27	31	54%	62%	13.8%	58%
n-nitroso-di-n-propylamine	0	50	27	31	54%	62%	13.8%	58%
1,2,4-Trichlorobenzene	0	50	32	35	64%	70%	9.0%	67%
Acenaphthene	0	50	35	38	70%	76%	8.2%	73%
2,4-Dinitrotoluene	0	50	27	32	54%	64%	16.9%	59%
Pyrene	0	50	35	35	70%	70%	0.0%	70%
4-Chloro-3-methylphenol	0	100	61	70	61%	70%	13.7%	66%
2-Chlorophenol	0	100	57	64	57%	64%	11.6%	61%
4-Nitrophenol	0	100	62	81	62%	81%	26.6%	72%
Pentachlorophenol	0	100	66	71	66%	71%	7.3%	69%
Phenol	0	100	58	62	58%	62%	6.7%	60%

Definition of Terms:

R1..... **Result of Sample Analysis**

Sp..... **Spike Concentration Added to Sample**

MS..... **Matrix Spike Result**

MSD..... **Matrix Spike Duplicate Result**

PR1..... **Percent Recovery of MS; ((MS-R1) / SP) X 100**

PR2..... **Percent Recovery of MSD; ((MSD-R1) / SP) X 100**

RPD..... **Relative Percent Difference; ((MS-MSD)/(MS+MSD)/2)) X 100**

Del Mar Analytical

Harding Lawson Associates
351 Rolling Oaks Drive, Suite 100
Thousand Oaks, CA 91361
(805) 494-7725 • (805) 494-8386 FAX

CHAIN OF CUSTODY FORM

Lab: Del Mar Analytical

Samplers: John Coffman

Job Number: 32026.39

Name/Location: Omega Chemical/Whittier

Project Manager: Andrew Keller

Recorder: John Coffman (Signature Required)

SOURCE CODE	MATRIX: Water	Sediment	Soil	Oil	Sludge	# CONTAINERS & PRESERV.: Unpres.	H_2SO_4	HNO_3	HCL	Ice	SAMPLE NUMBER OR LAB NUMBER: Yr	Wk	Seq	DATE: Yr	Mo	Day	Time	STATION DESCRIPTION/ NOTES
46					X	1					AST	-	1	95	08	08	0415	5K
						1					AST	-	2	95	08	08	0425	5K
						1					AST	-	3	95	08	08	0435	5K
						1					AST	-	4	95	08	08	0445	5K
					X	1					AST	-	5	95	08	08	0455	5K

(X) 24 HR TURNAROUND TIME - IMMEDIATE RESULTS ARE NEEDED!
FAX TO: 714-~~[illegible]~~ 662-3297
310-907-9826 ATTN: D. Alvy & J. Hardesty

ANALYSIS REQUESTED

EPA 601/8010	EPA 602/8020	EPA 624/8240	EPA 625/8270	METALS CAM (X)	EPA 8015M/TPHg	EPA 8020/BTEX	EPA 8015M/TPHd,o	ADHS BLS-181	EPA 9060 TOC	ASTM D-240 BTU	EPA 1010
		X	X	X					X	X	X
		X	X	X					X	X	X
		X	X	X					X	X	X
		X	X	X					X	X	X
		X	X	X					X	X	X
		72 HR TURNAROUND	72 HR TURNAROUND	24 HR TURNAROUND					72 HR TURNAROUND	72 HR TURNAROUND	72 HR TURNAROUND

LAB NUMBER: Yr	Wk	Seq	DEPTH IN FEET	COL MTD CD	QA CODE	MISCELLANEOUS

CHAIN OF CUSTODY RECORD

RELINQUISHED BY: (Signature)	RECEIVED BY: (Signature)	DATE/TIME
John Coffman	[signature] DMA	8/8/95 9:05
[signature]		
DISPATCHED BY: (Signature) DATE/TIME	RECEIVED FOR LAB BY: (Signature) [signature]	8/8/95 1230

METHOD OF SHIPMENT: Hand Delivered

SAMPLE CONDITION WHEN RECEIVED BY THE LABORATORY: intact/on ice

Laboratory Copy Project Office Copy Field or Office Copy

Del Mar Analytical

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2465 W. 12th St., Suite 1, Tempe, AZ 85281 (602) 968-8272 FAX (602) 968-1338

Harding Lawson Associates	Client Project ID: 32026.04	Sampled:	Jul 26, 1995
3 Hutton Centre, Suite 300	Omega Chemical, Whittier	Received:	Jul 26, 1995
Santa Ana, CA 92707	Sample Descript: Solid, Composite AST's 1-5	Extracted:	Jul 31, 1995
Attention: Andrew Keller	Lab Number: EG02700	Analyzed:	Aug 2, 1995
		Reported:	Aug 3, 1995

ORGANOCHLORINE PESTICIDES AND PCBs by GC (EPA 3550/8080)

Analyte	Detection Limit µg/Kg (ppb)	Sample Result µg/Kg (ppb)
Aldrin	250	N.D.
alpha-BHC	250	N.D.
beta-BHC	250	N.D.
delta-BHC	500	N.D.
gamma-BHC (Lindane)	250	N.D.
Chlordane	500	N.D.
4,4'-DDD	500	N.D.
4,4'-DDE	250	N.D.
4,4'-DDT	500	N.D.
Dieldrin	250	N.D.
Endosulfan I	500	N.D.
Endosulfan II	250	N.D.
Endosulfan sulfate	2,500	N.D.
Endrin	500	N.D.
Endrin aldehyde	750	N.D.
Heptachlor	250	N.D.
Heptachlor epoxide	250	N.D.
Methoxychlor	7,500	N.D.
Toxaphene	9,000	N.D.
PCB-1016	2,500	N.D.
PCB-1221	2,500	N.D.
PCB-1232	2,500	N.D.
PCB-1242	2,500	N.D.
PCB-1248	2,500	N.D.
PCB-1254	2,500	N.D.
PCB-1260	2,500	N.D.

Analytes reported as N.D. were not present above the stated limit of detection. Due to matrix effects and/or other factors, the sample required dilution. Detection limits for this sample have been raised by a factor of 50.

DEL MAR ANALYTICAL, IRVINE (ELAP #1197)

Gary Stetube
Laboratory Director

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Harding Lawson Associates
3 Hutton Centre, Suite 300
Santa Ana, CA 92707
Attention: Andrew Keller

Method Blank

Extracted: Jul 31, 199
Analyzed: Aug 2, 1995
Reported: Aug 3, 1995
Matrix: Soil

ORGANOCHLORINE PESTICIDES AND PCBs by GC (EPA 3550/8080)

Analyte	Detection Limit µg/Kg (ppb)	Sample Result µg/Kg (ppb)
Aldrin	5.0	N.D.
alpha-BHC	5.0	N.D.
beta-BHC	5.0	N.D.
delta-BHC	10	N.D.
gamma-BHC (Lindane)	5.0	N.D.
Chlordane	10	N.D.
4,4'-DDD	10	N.D.
4,4'-DDE	5.0	N.D.
4,4'-DDT	10	N.D.
Dieldrin	5.0	N.D.
Endosulfan I	10	N.D.
Endosulfan II	5.0	N.D.
Endosulfan sulfate	50	N.D.
Endrin	10	N.D.
Endrin aldehyde	15	N.D.
Heptachlor	5.0	N.D.
Heptachlor epoxide	5.0	N.D.
Methoxychlor	150	N.D.
Toxaphene	180	N.D.
PCB-1016	50	N.D.
PCB-1221	50	N.D.
PCB-1232	50	N.D.
PCB-1242	50	N.D.
PCB-1248	50	N.D.
PCB-1254	50	N.D.
PCB-1260	50	N.D.

Analytes reported as N.D. were not present above the stated limit of detection.

DEL MAR ANALYTICAL, IRVINE (ELAP #1197)

Gary Steube
Laboratory Director

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2465 W. 12th St., Suite 1, Tempe, AZ 85281 (602) 968-8272 FAX (602) 968-1338

MS/MSD DATA REPORT

EPA METHOD: **8080**
Matrix: Soil

DATE: 8/2/95

SAMPLE #: Blank

Analyte	R1	Sp	MS	MSD	PR1	PR2	RPD	MEAN PR
	ppb	ppb	ppb	ppb	%	%	%	%
DDE	0	125	140	150	112%	120%	6.9%	116%
DDD	0	125	130	150	104%	120%	14.3%	112%
DDT	0	125	140	160	112%	128%	13.3%	120%

Definition of Terms:

R1..... Result of Sample Analysis

Sp..... Spike Concentration Added to Sample

MS..... Matrix Spike Result

MSD..... Matrix Spike Duplicate Result

PR1..... Percent Recovery of MS; ((MS-R1) / SP) X 100

PR2..... Percent Recovery of MSD; ((MSD-R1) / SP) X 100

RPD..... Relative Percent Difference; ((MS-MSD)/(MS+MSD)/2)) X 100

Del Mar Analytical

Harding Lawson Associates
351 Rolling Oaks Drive, Suite 100
Thousand Oaks, CA 91361
(805) 494-7725 • (805) 494-8386 FAX

CHAIN OF CUSTODY FORM

Lab: Del Mar Analytical

Samplers: John Coffman

Job Number: 32026.04

Name/Location: Omega Chemical / Whittier

Project Manager: Andrew Keller

Recorder: John Coffman (Signature Required)

SOURCE CODE	MATRIX: Water	Sediment	Soil	Oil	Sludge	# CONTAINERS & PRESERV.: Unpres.	H_2SO_4	HNO_3	HCL	Ice	1 Jar	SAMPLE NUMBER OR LAB NUMBER: Yr	Wk	Seq	DATE: Yr	Mo	Day	Time	STATION DESCRIPTION/ NOTES
44					X						1	5	K	A S T	9 5	0 7	2 6	0 8 0 0	1 Glass Jar Composite of AST's 1 thru 5

ANALYSIS REQUESTED	EPA 601/8010	EPA 602/8020	EPA 624/8240	EPA 625/8270	METALS	EPA 8015M/TPHg	EPA 8020/BTEX	EPA 8015M/TPHd,o	ADHS BLS-181	EPA 8080
										X

LAB NUMBER: Yr	Wk	Seq	DEPTH IN FEET	COL MTD CD	QA CODE	MISCELLANEOUS
						~~NORMAL TAT~~ 5 Day Turnaround

CHAIN OF CUSTODY RECORD

RELINQUISHED BY: (Signature) John Coffman	RECEIVED BY: (Signature)	DATE/TIME 7/26 1004
RELINQUISHED BY: (Signature)	RECEIVED BY: (Signature)	DATE/TIME
RELINQUISHED BY: (Signature)	RECEIVED BY: (Signature)	DATE/TIME
RELINQUISHED BY: (Signature)	RECEIVED BY: (Signature)	DATE/TIME
DISPATCHED BY: (Signature) DATE/TIME	RECEIVED FOR LAB BY: (Signature)	DATE/TIME 7/26/95 1205

METHOD OF SHIPMENT: Hand delivered

SAMPLE CONDITION WHEN RECEIVED BY THE LABORATORY: intact / cool

Laboratory Copy White — Pr... ce Copy ...low — Field or Office Copy Pink

Del Mar Analytical

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2465 W. 12th St., Suite 1, Tempe, AZ 85281 (602) 968-8272 FAX (602) 968-1338

Harding Lawson Associates
3 Hutton Centre, Suite 300
Santa Ana, CA 92707
Attention: Andrew Keller

Client Project ID: 32026.04
Omega Chemical/Whittier
Sample Descript: Composite Soil, Tank 1-5
Lab Number: EH00019

Sampled: Jul 26, 1995
Received: Jul 26, 1995
Extracted: Aug 7, 1995
Analyzed: Aug 7, 1995
Reported: Aug 8, 1995

VOLATILE ORGANICS by GC/MS (EPA 8240)

Analyte	Detection Limit µg/Kg (ppb)	Sample Result µg/Kg (ppb)
Acetone	5,000,000	N.D.
Benzene	1,000,000	N.D.
Bromodichloromethane	1,000,000	N.D.
Bromoform	1,000,000	N.D.
Bromomethane	2,500,000	N.D.
2-Butanone	**5,000,000**	**7,000,000**
Carbon disulfide	2,500,000	N.D.
Carbon tetrachloride	2,500,000	N.D.
Chlorobenzene	1,000,000	N.D.
Chlorodibromomethane	1,000,000	N.D.
Chloroethane	2,500,000	N.D.
2-Chloroethyl vinyl ether	1,000,000	N.D.
Chloroform	1,000,000	N.D.
Chloromethane	2,500,000	N.D.
1,1-Dichloroethane	1,000,000	N.D.
1,2-Dichloroethane	1,000,000	N.D.
1,1-Dichloroethene	2,500,000	N.D.
cis-1,2-Dichloroethene	1,000,000	N.D.
trans-1,2-Dichloroethene	1,000,000	N.D.
1,2-Dichloropropane	1,000,000	N.D.
cis-1,3-Dichloropropene	1,000,000	N.D.
trans-1,3-Dichloropropene	1,000,000	N.D.
Ethylbenzene	1,000,000	N.D.
2-Hexanone	5,000,000	N.D.
Methylene chloride	**5,000,000**	**9,000,000**
4-Methyl-2-pentanone	2,500,000	N.D.
Styrene	1,000,000	N.D.
1,1,2,2-Tetrachloroethane	1,000,000	N.D.
Tetrachloroethene	**1,000,000**	**32,000,000**
Toluene	**1,000,000**	**5,500,000**
1,1,1-Trichloroethane	**1,000,000**	**27,000,000**
1,1,2-Trichloroethane	1,000,000	N.D.
Trichloroethene	**1,000,000**	**1,300,000**
Trichlorofluoromethane	**2,500,000**	**3,800,000**
Vinyl acetate	2,500,000	N.D.
Vinyl chloride	2,500,000	N.D.
Total Xylenes	**1,000,000**	**6,300,000**

Analytes reported as N.D. were not present above the stated limit of detection. Due to matrix effects and/or other factors, the sample required dilution.
Detection limits for this sample have been raised by a factor of 500000.

DEL MAR ANALYTICAL, IRVINE (ELAP #1197)

Gary Steube
Laboratory Director

Surrogate Standard Recoveries (Accept. Limits):	
1,2-Dichloroethane-d4 (70-121)	89%
Toluene-d8 (81-117)	94%
4-Bromofluorobenzene (74-121)	102%

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Harding Lawson Associates
3 Hutton Centre, Suite 300
Santa Ana, CA 92707
Attention: Andrew Keller

Client Project ID: 32026.04
Omega Chemical/Whittier
Sample Descript: Composite Soil, Tank 1-5
Lab Number: EH00019

Sampled: Jul 26, 199
Received: Jul 26, 1995
Extracted: Aug 4, 1995
Analyzed: Aug 7, 1995
Reported: Aug 8, 1995

SEMI-VOLATILE ORGANICS by GC/MS (EPA 3550/8270)

Analyte	Detection Limit µg/Kg (ppb)	Sample Result µg/Kg (ppb)	Analyte	Detection Limit µg/Kg (ppb)	Sample Result µg/Kg (ppb)
Acenaphthene	25,000	N.D.	Dimethyl phthalate	25,000	N.D.
Acenaphthylene	25,000	N.D.	4,6-Dinitro-2-methylphenol	63,000	N.D.
Aniline	38,000	N.D.	2,4-Dinitrophenol	63,000	N.D.
Anthracene	25,000	N.D.	2,4-Dinitrotoluene	25,000	N.D.
Azobenzene	38,000	N.D.	2,6-Dinitrotoluene	25,000	N.D.
Benzidine	250,000	N.D.	Di-N-octyl phthalate	130,000	N.D.
Benzoic Acid	130,000	N.D.	Fluoranthene	25,000	N.D.
Benz(a)anthracene	25,000	N.D.	Fluorene	25,000	N.D.
Benzo(b)fluoranthene	50,000	N.D.	Hexachlorobenzene	25,000	N.D.
Benzo(k)fluoranthene	50,000	N.D.	Hexachlorobutadiene	25,000	N.D.
Benzo(g,h,i)perylene	38,000	N.D.	Hexachlorocyclopentadiene	130,000	N.D.
Benzo(a)pyrene	50,000	N.D.	Hexachloroethane	50,000	N.D.
Benzyl alcohol	**50,000**	**75,000**	Indeno(1,2,3-cd)pyrene	50,000	N.D.
Bis(2-chloroethoxy)methane	25,000	N.D.	Isophorone	25,000	N.D.
Bis(2-chloroethyl)ether	25,000	N.D.	**2-Methylnaphthalene**	**25,000**	**27,000**
Bis(2-chloroisopropyl)ether	25,000	N.D.	2-Methylphenol	38,000	N.D.
Bis(2-ethylhexyl)phthalate	**63,000**	**79,000**	**4-Methylphenol**	**38,000**	**77,000**
4-Bromophenyl phenyl ether	38,000	N.D.	**Naphthalene**	**38,000**	**45,000**
Butyl benzyl phthalate	130,000	N.D.	2-Nitroaniline	50,000	N.D.
4-Chloroaniline	25,000	N.D.	3-Nitroaniline	50,000	N.D.
2-Chloronaphthalene	25,000	N.D.	4-Nitroaniline	130,000	N.D.
4-Chloro-3-methylphenol	25,000	N.D.	Nitrobenzene	130,000	N.D.
2-Chlorophenol	63,000	N.D.	2-Nitrophenol	25,000	N.D.
4-Chlorophenyl phenyl ether	25,000	N.D.	4-Nitrophenol	130,000	N.D.
Chrysene	25,000	N.D.	N-Nitrosodiphenylamine	50,000	N.D.
Dibenz(a,h)anthracene	63,000	N.D.	N-Nitroso-di-N-propylamine	38,000	N.D.
Dibenzofuran	25,000	N.D.	Pentachlorophenol	130,000	N.D.
Di-N-butyl phthalate	63,000	N.D.	Phenanthrene	25,000	N.D.
1,3-Dichlorobenzene	25,000	N.D.	**Phenol**	**38,000**	**200,000**
1,4-Dichlorobenzene	25,000	N.D.	Pyrene	38,000	N.D.
1,2-Dichlorobenzene	**25,000**	**31,000**	1,2,4-Trichlorobenzene	25,000	N.D.
3,3-Dichlorobenzidine	130,000	N.D.	2,4,5-Trichlorophenol	38,000	N.D.
2,4-Dichlorophenol	25,000	N.D.	2,4,6-Trichlorophenol	38,000	N.D.
Diethyl phthalate	25,000	N.D.			
2,4-Dimethylphenol	63,000	N.D.			

Analytes reported as N.D. were not present above the stated limit of detection. Due to matrix effects and/or other factors, the sample required dilution. Detection limits for this sample have been raised by a factor of 250.

DEL MAR ANALYTICAL, IRVINE (ELAP #1197)

Gary Steube
Laboratory Director

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Harding Lawson Associates
3 Hutton Centre, Suite 300
Santa Ana, CA 92707
Attention: Andrew Keller

Client Project ID: 32026.04
Omega Chemical/Whittier
Sample Descript: Composite Soil, Tank 1-5
Lab Number: EH00019

Sampled: Jul 26, 1995
Received: Jul 26, 1995
Extracted: Aug 3-4, 1995
Analyzed: Aug 3-7, 1995
Reported: Aug 7, 1995

CALIFORNIA CODE OF REGULATIONS, TITLE 22 METALS

Analyte	EPA Method	STLC Max. Limit mg/L (ppm)	TTLC Max. Limit mg/Kg (ppm)	Detection Limit mg/Kg (ppm)		TTLC Sample Result mg/Kg (ppm)
Antimony	6010	15	500	5.0		N.D.
Arsenic	6010	5.0	500	1.0		N.D.
Barium	6010	100	10000	0.50		280
Beryllium	6010	0.75	75	0.10		N.D.
Cadmium	6010	1.0	100	0.10		16
Chromium, VI	7196	5.0	500	0.25		N.D.
Chromium, total	6010	560	2500	0.50		340
Cobalt	6010	80	8000	0.50		14
Copper	6010	25	2500	0.50		350
Lead	6010	5.0	1000	1.0		1,500
Mercury	7471	0.20	20	0.020		4.7
Molybdenum	6010	350	3500	0.50		N.D.
Nickel	6010	20	2000	0.50		72
Selenium	6010	1.0	100	1.0		N.D.
Silver	6010	5.0	500	0.50		5.4
Thallium	6010	7.0	700	5.0		N.D.
Vanadium	6010	24	2400	0.50		N.D.
Zinc	6010	250	5000	0.50		340

Analytes reported as N.D. were not present above the stated limit of detection.

DEL MAR ANALYTICAL, IRVINE (ELAP #1197)

Gary Steube
Laboratory Director

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Harding Lawson Associates	Client Project ID:	32026.04	Sampled: Jul 26, 1995
3 Hutton Centre, Suite 300		Omega Chemical/Whittier	Received: Jul 26, 1995
Santa Ana, CA 92707	Sample Descript:	Composite Soil	Extracted: Aug 4, 1995
Attention: Andrew Keller	First Sample #:	EH00019	Analyzed: Aug 7, 1995
			Reported: Aug 7, 1995

TOTAL ORGANIC CARBON (EPA 9060)

Laboratory Number	Sample Description	Detection Limit mg/Kg (ppm)	Sample Result mg/Kg (ppm)
EH00019	Tank 1-5	100	92,000

This analysis was performed at a subcontracted laboratory.

Analytes reported as N.D. were not present above the stated limit of detection.

DEL MAR ANALYTICAL, IRVINE (ELAP #1197)

Gary Stelbe
Laboratory Director

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Harding Lawson Associates
3 Hutton Centre, Suite 300
Santa Ana, CA 92707
Attention: Andrew Keller

Client Project ID: 32026.04
Omega Chemical/Whittier
Sample Descript: Composite Soil
First Sample #: EH00019

Sampled: Jul 26, 1995
Received: Jul 26, 1995
Extracted: Aug 4, 1995
Analyzed: Aug 4, 1995
Reported: Aug 7, 1995

HEATING VALUE (ASTM D-240)

Laboratory Number	Sample Description	Detection Limit BTU/lb	Sample Result BTU/lb
EH00019	Tank 1-5	180	6,900

This analysis was performed at a subcontracted laboratory.

Analytes reported as N.D. were not present above the stated limit of detection.

DEL MAR ANALYTICAL, IRVINE (ELAP #1197)

Gary Steube
Laboratory Director

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Harding Lawson Associates
3 Hutton Centre, Suite 300
Santa Ana, CA 92707
Attention: Andrew Keller

Client Project ID: 32026.04
Omega Chemical/Whittier
Sample Descript: Soil
First Sample #: EH00019

Sampled: Jul 26, 199
Received: Jul 26, 1995
Extracted: Aug 7, 1995
Analyzed: Aug 7, 1995
Reported: Aug 7, 1995

FLASHPOINT (EPA 1010)

Laboratory Number	Sample Description	Sample Result (°C)
EH00019	Tank 1-5	25°C

Detection Limit:	25

Analytes reported as N.D. were not present above the stated limit of detection.

DEL MAR ANALYTICAL, IRVINE (ELAP #1197)

Gary Steube
Laboratory Director

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Harding Lawson Associates
3 Hutton Centre, Suite 300
Santa Ana, CA 92707
Attention: Andrew Keller

Method Blank

Extracted: Aug 7, 1995
Analyzed: Aug 7, 1995
Reported: Aug 8, 1995
Matrix: Soil

VOLATILE ORGANICS by GC/MS (EPA 8240)

Analyte	Detection Limit µg/Kg (ppb)	Sample Result µg/Kg (ppb)
Acetone	10	N.D.
Benzene	2.0	N.D.
Bromodichloromethane	2.0	N.D.
Bromoform	2.0	N.D.
Bromomethane	5.0	N.D.
2-Butanone	10	N.D.
Carbon disulfide	5.0	N.D.
Carbon tetrachloride	5.0	N.D.
Chlorobenzene	2.0	N.D.
Chlorodibromomethane	2.0	N.D.
Chloroethane	5.0	N.D.
2-Chloroethyl vinyl ether	2.0	N.D.
Chloroform	2.0	N.D.
Chloromethane	5.0	N.D.
1,1-Dichloroethane	2.0	N.D.
1,2-Dichloroethane	2.0	N.D.
1,1-Dichloroethene	5.0	N.D.
cis-1,2-Dichloroethene	2.0	N.D.
trans-1,2-Dichloroethene	2.0	N.D.
1,2-Dichloropropane	2.0	N.D.
cis-1,3-Dichloropropene	2.0	N.D.
trans-1,3-Dichloropropene	2.0	N.D.
Ethylbenzene	2.0	N.D.
2-Hexanone	10	N.D.
Methylene chloride	10	N.D.
4-Methyl-2-pentanone	5.0	N.D.
Styrene	2.0	N.D.
1,1,2,2-Tetrachloroethane	2.0	N.D.
Tetrachloroethene	2.0	N.D.
Toluene	2.0	N.D.
1,1,1-Trichloroethane	2.0	N.D.
1,1,2-Trichloroethane	2.0	N.D.
Trichloroethene	2.0	N.D.
Trichlorofluoromethane	5.0	N.D.
Vinyl acetate	5.0	N.D.
Vinyl chloride	5.0	N.D.
Total Xylenes	2.0	N.D.

Analytes reported as N.D. were not present above the stated limit of detection.

DEL MAR ANALYTICAL, IRVINE (ELAP #1197)

Gary Steube
Laboratory Director

Surrogate Standard Recoveries (Accept. Limits):	
1,2-Dichloroethane-d4 (70-121)	90%
Toluene-d8 (81-117)	91%
4-Bromofluorobenzene (74-121)	90%

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Harding Lawson Associates
3 Hutton Centre, Suite 300
Santa Ana, CA 92707
Attention: Andrew Keller

Method Blank

Extracted: Aug 4, 199
Analyzed: Aug 7, 1995
Reported: Aug 8, 1995
Matrix Soil

SEMI-VOLATILE ORGANICS by GC/MS (EPA 3550/8270)

Analyte	Detection Limit µg/Kg (ppb)	Sample Result µg/Kg (ppb)	Analyte	Detection Limit µg/Kg (ppb)	Sample Result µg/Kg (ppb)
Acenaphthene	100	N.D.	Dimethyl phthalate	100	N.D.
Acenaphthylene	100	N.D.	4,6-Dinitro-2-methylphenol	250	N.D.
Aniline	150	N.D.	2,4-Dinitrophenol	250	N.D.
Anthracene	100	N.D.	2,4-Dinitrotoluene	100	N.D.
Azobenzene	150	N.D.	2,6-Dinitrotoluene	100	N.D.
Benzidine	1,000	N.D.	Di-N-octyl phthalate	500	N.D.
Benzoic Acid	500	N.D.	Fluoranthene	100	N.D.
Benz(a)anthracene	100	N.D.	Fluorene	100	N.D.
Benzo(b)fluoranthene	200	N.D.	Hexachlorobenzene	100	N.D.
Benzo(k)fluoranthene	200	N.D.	Hexachlorobutadiene	100	N.D.
Benzo(g,h,i)perylene	150	N.D.	Hexachlorocyclopentadiene	500	N.D.
Benzo(a)pyrene	200	N.D.	Hexachloroethane	200	N.D.
Benzyl alcohol	200	N.D.	Indeno(1,2,3-cd)pyrene	200	N.D.
Bis(2-chloroethoxy)methane	100	N.D.	Isophorone	100	N.D.
Bis(2-chloroethyl)ether	100	N.D.	2-Methylnaphthalene	100	N.D.
Bis(2-chloroisopropyl)ether	100	N.D.	2-Methylphenol	150	N.D.
Bis(2-ethylhexyl)phthalate	250	N.D.	4-Methylphenol	150	N.D.
4-Bromophenyl phenyl ether	150	N.D.	Naphthalene	150	N.D.
Butyl benzyl phthalate	500	N.D.	2-Nitroaniline	200	N.D.
4-Chloroaniline	100	N.D.	3-Nitroaniline	200	N.D.
2-Chloronaphthalene	100	N.D.	4-Nitroaniline	500	N.D.
4-Chloro-3-methylphenol	100	N.D.	Nitrobenzene	500	N.D.
2-Chlorophenol	250	N.D.	2-Nitrophenol	100	N.D.
4-Chlorophenyl phenyl ether	100	N.D.	4-Nitrophenol	500	N.D.
Chrysene	100	N.D.	N-Nitrosodiphenylamine	200	N.D.
Dibenz(a,h)anthracene	250	N.D.	N-Nitroso-di-N-propylamine	150	N.D.
Dibenzofuran	100	N.D.	Pentachlorophenol	500	N.D.
Di-N-butyl phthalate	250	N.D.	Phenanthrene	100	N.D.
1,3-Dichlorobenzene	100	N.D.	Phenol	150	N.D.
1,4-Dichlorobenzene	100	N.D.	Pyrene	150	N.D.
1,2-Dichlorobenzene	100	N.D.	1,2,4-Trichlorobenzene	100	N.D.
3,3-Dichlorobenzidine	500	N.D.	2,4,5-Trichlorophenol	150	N.D.
2,4-Dichlorophenol	100	N.D.	2,4,6-Trichlorophenol	150	N.D.
Diethyl phthalate	100	N.D.			
2,4-Dimethylphenol	250	N.D.			

Analytes reported as N.D. were not present above the stated limit of detection.

Surrogate Standard Recoveries (Accept. Limits):	
2-Fluorophenol (25-121)	70%
Phenol-d6 (24-113)	70%
2,4,6-Tribromophenol (19-122)	72%
Nitrobenzene-d5 (23-120)	68%
2-Fluorobiphenyl (30-115)	75%
Terphenyl-d14 (18-137)	81%

DEL MAR ANALYTICAL, IRVINE (ELAP #1197)

Gary Steube
Laboratory Director

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Harding Lawson Associates
3 Hutton Centre, Suite 300
Santa Ana, CA 92707
Attention: Andrew Keller

Method Blank

Extracted: Aug 3-4, 1995
Analyzed: Aug 3-7, 1995
Reported: Aug 7, 1995
Matrix Soil

CALIFORNIA CODE OF REGULATIONS, TITLE 22 METALS

Analyte	EPA Method	STLC Max. Limit mg/L (ppm)	TTLC Max. Limit mg/Kg (ppm)	Detection Limit mg/Kg (ppm)		TTLC Sample Result mg/Kg (ppm)
Antimony	6010	15	500	5.0		N.D.
Arsenic	6010	5.0	500	1.0		N.D.
Barium	6010	100	10000	0.50		N.D.
Beryllium	6010	0.75	75	0.10		N.D.
Cadmium	6010	1.0	100	0.10		N.D.
Chromium, VI	7196	5.0	500	0.25		N.D.
Chromium, total	6010	560	2500	0.50		N.D.
Cobalt	6010	80	8000	0.50		N.D.
Copper	6010	25	2500	0.50		N.D.
Lead	6010	5.0	1000	1.0		N.D.
Mercury	7471	0.20	20	0.020		N.D.
Molybdenum	6010	350	3500	0.50		N.D.
Nickel	6010	20	2000	0.50		N.D.
Selenium	6010	1.0	100	1.0		N.D.
Silver	6010	5.0	500	0.50		N.D.
Thallium	6010	7.0	700	5.0		N.D.
Vanadium	6010	24	2400	0.50		N.D.
Zinc	6010	250	5000	0.50		N.D.

Analytes reported as N.D. were not present above the stated limit of detection.

DEL MAR ANALYTICAL, IRVINE (ELAP #1197)

Gary Steube
Laboratory Director

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MS/MSD DATA REPORT

EPA METHOD: **3060/7196**
Matrix: Soil

DATE: 8/3/95

SAMPLE #: Blank

Analyte	R1	Sp	MS	MSD	PR1	PR2	RPD	MEAN PR
	ppb	ppb	ppb	ppb	%	%	%	%
Chromium (VI)	0	200	201	200	101%	100%	0.5%	100%

Definition of Terms:

R1..... Result of Sample Analysis

Sp..... Spike Concentration Added to Sample

MS..... Matrix Spike Result

MSD..... Matrix Spike Duplicate Result

PR1..... Percent Recovery of MS; ((MS-R1) / SP) X 100

PR2..... Percent Recovery of MSD; ((MSD-R1) / SP) X 100

RPD..... Relative Percent Difference; ((MS-MSD)/(MS+MSD)/2)) X 100

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2465 W. 12th St., Suite 1, Tempe, AZ 85281 (602) 968-8272 FAX (602) 968-1338

MS/MSD DATA REPORT

EPA METHOD: **7471**
Matrix: Soil

DATE: 8/3/95

SAMPLE #: EH00252

Analyte	R1	Sp	MS	MSD	PR1	PR2	RPD	MEAN PR
	ppb	ppb	ppb	ppb	%	%	%	%
Mercury	1.5	8	9.8	10	104%	106%	2.0%	105%

Definition of Terms:

R1..... Result of Sample Analysis

Sp..... Spike Concentration Added to Sample

MS..... Matrix Spike Result

MSD..... Matrix Spike Duplicate Result

PR1..... Percent Recovery of MS; ((MS-R1) / SP) X 100

PR2..... Percent Recovery of MSD; ((MSD-R1) / SP) X 100

RPD..... Relative Percent Difference; ((MS-MSD)/(MS+MSD)/2)) X 100

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2465 W. 12th St., Suite 1, Tempe, AZ 85281 (602) 968-8272 FAX (602) 968-1338

MS/MSD DATA REPORT

EPA METHOD: 8240
Matrix: Soil

DATE: 8/7/95

SAMPLE #: EH00141

Analyte	R1	Sp	MS	MSD	PR1	PR2	RPD	MEAN PR
	ppb	ppb	ppb	ppb	%	%	%	%
Benzene	0	50	35	40	70%	80%	13.3%	75%
Chlorobenzene	0	50	38	44	76%	88%	14.6%	82%
1,1-Dichloroethane	0	50	32	37	64%	74%	14.5%	69%
1,2-Dichlororethane	0	50	36	41	72%	82%	13.0%	77%
1,1-Dichloroethene	0	50	34	39	68%	78%	13.7%	73%
Chloroform	0	50	32	36	64%	72%	11.8%	68%
Tetrachloroethene	0	50	37	43	74%	86%	15.0%	80%
Toluene	0	50	34	39	68%	78%	13.7%	73%
Trichloroethene	0	50	35	41	70%	82%	15.8%	76%
Vinyl Chloride	0	50	31	37	62%	74%	17.6%	68%

Definition of Terms:

R1..... Result of Sample Analysis

Sp..... Spike Concentration Added to Sample

MS..... Matrix Spike Result

MSD..... Matrix Spike Duplicate Result

PR1..... Percent Recovery of MS; ((MS-R1) / SP) X 100

PR2..... Percent Recovery of MSD; ((MSD-R1) / SP) X 100

RPD..... Relative Percent Difference; ((MS-MSD)/(MS+MSD)/2)) X 100

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2465 W. 12th St., Suite 1, Tempe, AZ 85281 (602) 968-8272 FAX (602) 968-1338

MS/MSD DATA REPORT

EPA METHOD: **8270**
Matrix: Soil

DATE: 8/7/95

SAMPLE #: Blank

Analyte	R1	Sp	MS	MSD	PR1	PR2	RPD	MEAN PR
	ppb	ppb	ppb	ppb	%	%	%	%
1,4-Dichlorobenzene	0	50	34	35	68%	70%	2.9%	69%
n-nitroso-di-n-propylamine	0	50	37	38	74%	76%	2.7%	75%
1,2,4-Trichlorobenzene	0	50	38	39	76%	78%	2.6%	77%
Acenaphthene	0	50	42	43	84%	86%	2.4%	85%
2,4-Dinitrotoluene	0	50	35	35	70%	70%	0.0%	70%
Pyrene	0	50	44	44	88%	88%	0.0%	88%
4-Chloro-3-methylphenol	0	100	81	85	81%	85%	4.8%	83%
2-Chlorophenol	0	100	75	78	75%	78%	3.9%	77%
4-Nitrophenol	0	100	81	87	81%	87%	7.1%	84%
Pentachlorophenol	0	100	73	78	73%	78%	6.6%	76%
Phenol	0	100	73	77	73%	77%	5.3%	75%

Definition of Terms:

R1..... Result of Sample Analysis

Sp..... Spike Concentration Added to Sample

MS..... Matrix Spike Result

MSD..... Matrix Spike Duplicate Result

PR1..... Percent Recovery of MS; ((MS-R1) / SP) X 100

PR2..... Percent Recovery of MSD; ((MSD-R1) / SP) X 100

RPD..... Relative Percent Difference; ((MS-MSD)/(MS+MSD)/2)) X 100

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MS/MSD DATA REPORT

METHOD: **Metals**
Instrument: ICP
Matrix: SOIL

Date: 8/7/95

Sample #: EG03327

Analyte	R1	SP	MS	MSD	PR1	PR2	RPD	MEAN PR
	ppb	ppb	ppb	ppb	%	%	%	%
Antimony	0	1000	960	969	96%	97%	0.9%	96%
Arsenic	0	1000	926	900	93%	90%	2.8%	91%
Barium	57	1000	1091	1065	103%	101%	2.4%	102%
Beryllium	0	1000	1061	1079	106%	108%	1.7%	107%
Cadmium	0	1000	991	994	99%	99%	0.3%	99%
Chromium	0	1000	1008	1013	101%	101%	0.5%	101%
Cobalt	0	1000	1035	1019	104%	102%	1.6%	103%
Copper	0	1000	1056	1078	106%	108%	2.1%	107%
Lead	0	1000	1167	1088	117%	109%	7.0%	113%
Molybdenum	0	1000	977	999	98%	100%	2.2%	99%
Nickel	0	1000	1027	1027	103%	103%	0.0%	103%
Selenium	0	1000	1053	1073	105%	107%	1.9%	106%
Silver	0	1000	925	962	93%	96%	3.9%	94%
Thallium	0	1000	1094	1199	109%	120%	9.2%	115%
Vanadium	0	1000	976	1005	98%	101%	2.9%	99%
Zinc	0	1000	1019	997	102%	100%	2.2%	101%

R1..... ..... Result of Sample Analysis
Sp..... ..... Spike Concentration Added to Sample
MS..... ..... Matrix Spike Result
MSD..... ..... Matrix Spike Duplicate Result
PR1..... ..... Percent Recovery of MS; ((MS-R1) / SP) X 100
PR2..... ..... Percent Recovery of MSD; ((MSD-R1) / SP) X 100
RPD..... ..... Relative Percent Difference; ((MS-MSD)/(MS+MSD)/2)) X 100

Del Mar Analytical

Ha[redacted] Lawson Associates
351 Rolling Oaks Drive, Suite 100
Thousand Oaks, CA 91361
(805) 494-7725 • (805) 494-8386 FAX

CHAIN OF [redacted]STODY FORM

Lab: Del Mar Analytical

Samplers: John Coffman

Job Number: 32026.04

Name/Location: Omega Chemical / Whittier

Project Manager: Andrew Keller

Recorder: John Coffman (Signature Required)

SOURCE CODE	MATRIX: Water	Sediment	Soil	Oil	Sludge	# CONTAINERS & PRESERV.: Unpres.	H_2SO_4	HNO_3	HCL	Ice	1 Jar	SAMPLE NUMBER OR LAB NUMBER: Yr	Wk	Seq	DATE: Yr	Mo	Day	Time	STATION DESCRIPTION/ NOTES
44					X						1	5	K	A S T	9 5	0 7	2 6	0 8 0 0	1 Glass Jar Composite of AST's 1 thru 5

ANALYSIS REQUESTED	
EPA 601/8010	
EPA 602/8020	
EPA 624/8240	
EPA 625/8270	
METALS	
EPA 8015M/TPHg	
EPA 8020/BTEX	
EPA 8015M/TPHd,o	
ADHS BLS-181	X
EPA 418.1	

LAB NUMBER: Yr	Wk	Seq	DEPTH IN FEET	COL MTD CD	QA CODE	MISCELLANEOUS
						Normal TAT/TK 5 Day Turnaround

CHAIN OF CUSTODY RECORD

RELINQUISHED BY: (Signature) John Coffman	RECEIVED BY: (Signature)	DATE/TIME 7/26 1004
RELINQUISHED BY: (Signature) 7/26 1205	RECEIVED BY: (Signature)	DATE/TIME
RELINQUISHED BY: (Signature)	RECEIVED BY: (Signature)	DATE/TIME
RELINQUISHED BY: (Signature)	RECEIVED BY: (Signature)	DATE/TIME
DISPATCHED BY: (Signature) DATE/TIME	RECEIVED FOR LAB BY: (Signature)	DATE/TIME 7/26/95 1205 ✓

METHOD OF SHIPMENT: Hand delivered ✓

SAMPLE CONDITION WHEN RECEIVED BY THE LABORATORY: intact / cool ✓

Laboratory Copy (White) — Project Office Copy (Yellow) — Field or Office Copy (Pink)

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2465 W. 12th St., Suite 1, Tempe, AZ 85281 (602) 968-8272 FAX (602) 968-1338

Harding Lawson Associates
3 Hutton Centre, Suite 300
Santa Ana, CA 92707
Attention: Andrew Keller

Client Project ID: 32026.49
Omega Chemical
Sample Descript: Solid, BIN-East
Lab Number: EH01304

Sampled: Aug 9, 1995
Received: Aug 9, 1995
Extracted: Aug 10-11,1995
Analyzed: Aug 10-11,1995
Reported: Aug 11, 1995

CALIFORNIA CODE OF REGULATIONS, TITLE 22 METALS

Analyte	EPA Method	STLC Max. Limit mg/L (ppm)	TTLC Max. Limit mg/Kg (ppm)	Detection Limit mg/Kg (ppm)		TTLC Sample Result mg/Kg (ppm)
Antimony	6010	15	500	5.0		N.D.
Arsenic	6010	5.0	500	1.0		N.D.
Barium	6010	100	10000	0.50		28
Beryllium	6010	0.75	75	0.10		N.D.
Cadmium	6010	1.0	100	0.10		N.D.
Chromium, VI	7196	5.0	500	0.25		N.D.
Chromium, total	6010	560	2500	0.50		88
Cobalt	6010	80	8000	0.50		8,100
Copper	6010	25	2500	0.50		5,300
Lead	6010	5.0	1000	1.0		4,700
Mercury	7471	0.20	20	0.020		17
Molybdenum	6010	350	3500	0.50		N.D.
Nickel	6010	20	2000	0.50		6,300
Selenium	6010	1.0	100	1.0		N.D.
Silver	6010	5.0	500	0.50		15
Thallium	6010	7.0	700	5.0		N.D.
Vanadium	6010	24	2400	0.50		15
Zinc	6010	250	5000	0.50		1,100

Analytes reported as N.D. were not present above the stated limit of detection.

DEL MAR ANALYTICAL, IRVINE (ELAP #1197)

Gary Steube
Laboratory Director

Results pertain only to samples tested in the laboratory. This report shall not be reproduced, except in full, without written permission from Del Mar Analytical.

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Harding Lawson Associates
3 Hutton Centre, Suite 300
Santa Ana, CA 92707
Attention: Andrew Keller

Client Project ID: 32026.49
Omega Chemical
Sample Descript: Solid, BIN-West
Lab Number: EH01305

Sampled: Aug 9, 199
Received: Aug 9, 1995
Extracted: Aug 10-11,1995
Analyzed: Aug 10-11,1995
Reported: Aug 11, 1995

CALIFORNIA CODE OF REGULATIONS, TITLE 22 METALS

Analyte	EPA Method	STLC Max. Limit mg/L (ppm)	TTLC Max. Limit mg/Kg (ppm)	Detection Limit mg/Kg (ppm)		TTLC Sample Result mg/Kg (ppm)
Antimony	6010	15	500	5.0		6.3
Arsenic	6010	5.0	500	1.0		N.D.
Barium	6010	100	10000	0.50		19
Beryllium	6010	0.75	75	0.10		N.D.
Cadmium	6010	1.0	100	0.10		N.D.
Chromium, VI	7196	5.0	500	0.25		N.D.
Chromium, total	6010	560	2500	0.50		43
Cobalt	6010	80	8000	0.50		40
Copper	6010	25	2500	0.50		130
Lead	6010	5.0	1000	1.0		20
Mercury	7471	0.20	20	0.020		13
Molybdenum	6010	350	3500	0.50		N.D.
Nickel	6010	20	2000	0.50		250
Selenium	6010	1.0	100	1.0		N.D.
Silver	6010	5.0	500	0.50		N.D.
Thallium	6010	7.0	700	5.0		N.D.
Vanadium	6010	24	2400	0.50		17
Zinc	6010	250	5000	0.50		560

Analytes reported as N.D. were not present above the stated limit of detection.

DEL MAR ANALYTICAL, IRVINE (ELAP #1197)

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Laboratory Director

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Harding Lawson Associates
3 Hutton Centre, Suite 300
Santa Ana, CA 92707
Attention: Andrew Keller

Method Blank

Extracted: Aug 10-11,1995
Analyzed: Aug 10-11,1995
Reported: Aug 11, 1995
Matrix Solid

CALIFORNIA CODE OF REGULATIONS, TITLE 22 METALS

Analyte	EPA Method	STLC Max. Limit mg/L (ppm)	TTLC Max. Limit mg/Kg (ppm)	Detection Limit mg/Kg (ppm)		TTLC Sample Result mg/Kg (ppm)
Antimony	6010	15	500	5.0	.....	N.D.
Arsenic	6010	5.0	500	1.0	.....	N.D.
Barium	6010	100	10000	0.50	.....	N.D.
Beryllium	6010	0.75	75	0.10	.....	N.D.
Cadmium	6010	1.0	100	0.10	.....	N.D.
Chromium, VI	7196	5.0	500	0.25	.....	N.D.
Chromium, total	6010	560	2500	0.50	.....	N.D.
Cobalt	6010	80	8000	0.50	.....	N.D.
Copper	6010	25	2500	0.50	.....	N.D.
Lead	6010	5.0	1000	1.0	.....	N.D.
Mercury	7471	0.20	20	0.020	.....	N.D.
Molybdenum	6010	350	3500	0.50	.....	N.D.
Nickel	6010	20	2000	0.50	.....	N.D.
Selenium	6010	1.0	100	1.0	.....	N.D.
Silver	6010	5.0	500	0.50	.....	N.D.
Thallium	6010	7.0	700	5.0	.....	N.D.
Vanadium	6010	24	2400	0.50	.....	N.D.
Zinc	6010	250	5000	0.50	.....	N.D.

Analytes reported as N.D. were not present above the stated limit of detection.

DEL MAR ANALYTICAL, IRVINE (ELAP #1197)

Gary Steube
Laboratory Director

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2465 W. 12th St., Suite 1, Tempe, AZ 85281 (602) 968-8272 FAX (602) 968-1338

MS/MSD DATA REPORT

METHOD: **Metals**
Instrument: ICP
Matrix: SOIL

Date: 8/11/95

Sample #: EH00813

Analyte	R1	SP	MS	MSD	PR1	PR2	RPD	MEAN PR
	ppb	ppb	ppb	ppb	%	%	%	%
Antimony	0	1000	997	1020	100%	102%	2.3%	101%
Vanadium	0	1000	1152	1154	115%	115%	0.2%	115%

R1..... Result of Sample Analysis
Sp..... Spike Concentration Added to Sample
MS..... Matrix Spike Result
MSD..... Matrix Spike Duplicate Result
PR1..... Percent Recovery of MS; ((MS-R1) / SP) X 100
PR2..... Percent Recovery of MSD; ((MSD-R1) / SP) X 100
RPD..... Relative Percent Difference; ((MS-MSD)/(MS+MSD)/2)) X 100

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MS/MSD DATA REPORT

METHOD: **Metals**
Instrument: ICP
Matrix: SOIL

Date: 8/11/95

Sample #: Blank

Analyte	R1	SP	MS	MSD	PR1	PR2	RPD	MEAN PR
	ppb	ppb	ppb	ppb	%	%	%	%
Arsenic	0	1000	925	1028	93%	103%	10.5%	98%
Barium	0	1000	1109	1143	111%	114%	3.0%	113%
Beryllium	0	1000	958	1007	96%	101%	5.0%	98%
Cadmium	0	1000	1006	932	101%	93%	7.6%	97%
Chromium	0	1000	1150	1166	115%	117%	1.4%	116%
Cobalt	0	1000	1009	1030	101%	103%	2.1%	102%
Copper	0	1000	1198	1249	120%	125%	4.2%	122%
Lead	0	1000	1078	1156	108%	116%	7.0%	112%
Molybdenum	0	1000	1074	1055	107%	106%	1.8%	106%
Nickel	0	1000	984	1007	98%	101%	2.3%	100%
Selenium	0	1000	989	1078	99%	108%	8.6%	103%
Silver	0	1000	909	979	91%	98%	7.4%	94%
Thallium	0	1000	981	936	98%	94%	4.7%	96%
Zinc	0	1000	1140	1171	114%	117%	2.7%	116%

R1..... ..... Result of Sample Analysis
Sp..... ..... Spike Concentration Added to Sample
MS..... ..... Matrix Spike Result
MSD..... ..... Matrix Spike Duplicate Result
PR1..... ..... Percent Recovery of MS; ((MS-R1) / SP) X 100
PR2..... ..... Percent Recovery of MSD; ((MSD-R1) / SP) X 100
RPD..... ..... Relative Percent Difference; ((MS-MSD)/(MS+MSD)/2)) X 100

Del Mar Analytical

Del Mar Analytical

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MS/MSD DATA REPORT

EPA METHOD: **3060/7196**
Matrix: Soil

DATE: 8/10/95

SAMPLE #: Blank

Analyte	R1	Sp	MS	MSD	PR1	PR2	RPD	MEAN PR
	ppb	ppb	ppb	ppb	%	%	%	%
Chromium (VI)	0	200	221	223	111%	112%	0.9%	111%

Definition of Terms:

R1..... Result of Sample Analysis

Sp..... Spike Concentration Added to Sample

MS..... Matrix Spike Result

MSD..... Matrix Spike Duplicate Result

PR1..... Percent Recovery of MS; ((MS-R1) / SP) X 100

PR2..... Percent Recovery of MSD; ((MSD-R1) / SP) X 100

RPD..... Relative Percent Difference; ((MS-MSD)/(MS+MSD)/2)) X 100

Del Mar Analytical

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2465 W. 12th St., Suite 1, Tempe, AZ 85281 (602) 968-8272 FAX (602) 968-1338

MS/MSD DATA REPORT

EPA METHOD: **7471**
Matrix: Soil

DATE: 8/11/95

SAMPLE #: EH00418

Analyte	R1	Sp	MS	MSD	PR1	PR2	RPD	MEAN PR
	ppb	ppb	ppb	ppb	%	%	%	%
Mercury	1.6	8.0	7.8	8.0	78%	80%	2.5%	79%

Definition of Terms:

R1..... Result of Sample Analysis

Sp..... Spike Concentration Added to Sample

MS..... Matrix Spike Result

MSD..... Matrix Spike Duplicate Result

PR1..... Percent Recovery of MS; ((MS-R1) / SP) X 100

PR2..... Percent Recovery of MSD; ((MSD-R1) / SP) X 100

RPD..... Relative Percent Difference; ((MS-MSD)/(MS+MSD)/2)) X 100

Del Mar Analytical

Harding Lawson Associates
351 Rolling Oaks Drive, Suite 100
Thousand Oaks, CA 91361
(805) 494-7725 • (805) 494-8386 FAX

CHAIN OF CUSTODY FORM

Lab: Del Mar Analytics

Samplers: John Coffman

Job Number: 32026.49

Name/Location: Omega Chemical

Project Manager: Andrew Keller

Recorder: John Coffman (Signature Required)

SOURCE CODE	MATRIX: Water	Sediment	Soil	Oil	Resin	# CONTAINERS & PRESERV.: Unpres.	H_2SO_4	HNO_3	HCL	Ice	SAMPLE NUMBER OR LAB NUMBER: Yr	Wk	Seq	DATE: Yr	Mo	Day	Time	STATION DESCRIPTION/ NOTES
00					X	1					BIN-	East		95	08	09	0400	Samples in glass jar
00					X	1					BIN-	West		95	08	09	0415	"

ANALYSIS REQUESTED

EPA 601/8010	EPA 602/8020	EPA 624/8240	EPA 625/8270	METALS	EPA 8015M/TPHg	EPA 8020/BTEX	EPA 8015M/TPHd,o	ADHS BLS-181
		X	X					
		X	X					
		Rush Turnaround	Rush Turnaround					

LAB NUMBER: Yr	Wk	Seq	DEPTH IN FEET	COL MTD CD	QA CODE	MISCELLANEOUS
						24 Hour Turnaround
						Fax Results to
						Jim Hardesty
						(310) 907-4826
						and Andrew Keller
						(714) 662-3297

CHAIN OF CUSTODY RECORD

RELINQUISHED BY: (Signature) John Coffman	RECEIVED BY: (Signature) Marcia Lemus	DATE/TIME 8-9-95 7:39
RELINQUISHED BY: (Signature) Marcia Lemus 8-9-95 9:00	RECEIVED BY: (Signature)	DATE/TIME
RELINQUISHED BY: (Signature)	RECEIVED BY: (Signature)	DATE/TIME
RELINQUISHED BY: (Signature)	RECEIVED BY: (Signature)	DATE/TIME
DISPATCHED BY: (Signature) DATE/TIME	RECEIVED FOR LAB BY: (Signature) C Ingman	DATE/TIME 9/9/95

METHOD OF SHIPMENT

SAMPLE CONDITION WHEN RECEIVED BY THE LABORATORY: Intact on ice

Laboratory Copy White — Project Office Copy Yellow — Field or Office Copy Pink

Del Mar Analytical

2852 Alton Ave., Irvine, CA 92714 (714) 261-1022 FAX (714) 261-1228
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2465 W. 12th St., Suite 1, Tempe, AZ 85281 (602) 968-8272 FAX (602) 968-1338

Harding Lawson Associates
3 Hutton Centre, Suite 300
Santa Ana, CA 92707
Attention: Andrew Keller

Client Project ID: 32026.49
Omega Chemical
Sample Descript: Solid, Bin-East
Lab Number: EH03033

Sampled: Aug 9, 1995
Received: Aug 9, 1995
Extracted: Aug 18, 1995
Analyzed: Aug 18, 1995
Reported: Aug 21, 1995

ORGANOCHLORINE PESTICIDES AND PCBs by GC (EPA 3550/8080)

Analyte	Detection Limit µg/Kg (ppb)	Sample Result µg/Kg (ppb)
Aldrin	200	N.D.
alpha-BHC	200	N.D.
beta-BHC	200	N.D.
delta-BHC	400	N.D.
gamma-BHC (Lindane)	200	N.D.
Chlordane	400	N.D.
4,4'-DDD	400	N.D.
4,4'-DDE	200	N.D.
4,4'-DDT	400	N.D.
Dieldrin	200	N.D.
Endosulfan I	400	N.D.
Endosulfan II	200	N.D.
Endosulfan sulfate	2,000	N.D.
Endrin	400	N.D.
Endrin aldehyde	600	N.D.
Heptachlor	200	N.D.
Heptachlor epoxide	200	N.D.
Methoxychlor	6,000	N.D.
Toxaphene	7,200	N.D.
PCB-1016	2,000	N.D.
PCB-1221	2,000	N.D.
PCB-1232	2,000	N.D.
PCB-1242	2,000	N.D.
PCB-1248	2,000	N.D.
PCB-1254	2,000	N.D.
PCB-1260	2,000	N.D.

Analytes reported as N.D. were not present above the stated limit of detection. Due to matrix effects and/or other factors, the sample required dilution. Detection limits for this sample have been raised by a factor of 40.

DEL MAR ANALYTICAL, IRVINE (ELAP #1197)

Roberta Edwards

Roberta Edwards
Project Manager

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Harding Lawson Associates
3 Hutton Centre, Suite 300
Santa Ana, CA 92707
Attention: Andrew Keller

Client Project ID: 32026.49
Omega Chemical
Sample Descript: Solid, Bin-West
Lab Number: EH03034

Sampled: Aug 9, 199
Received: Aug 9, 1995
Extracted: Aug 18, 1995
Analyzed: Aug 18, 1995
Reported: Aug 21, 1995

ORGANOCHLORINE PESTICIDES AND PCBs by GC (EPA 3550/8080)

Analyte	Detection Limit µg/Kg (ppb)	Sample Result µg/Kg (ppb)
Aldrin	1,000	N.D.
alpha-BHC	1,000	N.D.
beta-BHC	1,000	N.D.
delta-BHC	2,000	N.D.
gamma-BHC (Lindane)	1,000	N.D.
Chlordane	2,000	N.D.
4,4'-DDD	2,000	N.D.
4,4'-DDE	1,000	N.D.
4,4'-DDT	2,000	N.D.
Dieldrin	1,000	N.D.
Endosulfan I	2,000	N.D.
Endosulfan II	1,000	N.D.
Endosulfan sulfate	10,000	N.D.
Endrin	2,000	N.D.
Endrin aldehyde	3,000	N.D.
Heptachlor	1,000	N.D.
Heptachlor epoxide	1,000	N.D.
Methoxychlor	30,000	N.D.
Toxaphene	36,000	N.D.
PCB-1016	10,000	N.D.
PCB-1221	10,000	N.D.
PCB-1232	10,000	N.D.
PCB-1242	10,000	N.D.
PCB-1248	10,000	N.D.
PCB-1254	10,000	N.D.
PCB-1260	10,000	N.D.

Analytes reported as N.D. were not present above the stated limit of detection. Due to matrix effects and/or other factors, the sample required dilution. Detection limits for this sample have been raised by a factor of 200.

DEL MAR ANALYTICAL, IRVINE (ELAP #1197)

Roberta Edwards

Roberta Edwards
Project Manager

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Harding Lawson Associates
3 Hutton Centre, Suite 300
Santa Ana, CA 92707
Attention: Andrew Keller

Method Blank

Extracted: Aug 18, 1995
Analyzed: Aug 18, 1995
Reported: Aug 21, 1995
Matrix: Solid

ORGANOCHLORINE PESTICIDES AND PCBs by GC (EPA 3550/8080)

Analyte	Detection Limit µg/Kg (ppb)	Sample Result µg/Kg (ppb)
Aldrin	5.0	N.D.
alpha-BHC	5.0	N.D.
beta-BHC	5.0	N.D.
delta-BHC	10	N.D.
gamma-BHC (Lindane)	5.0	N.D.
Chlordane	10	N.D.
4,4'-DDD	10	N.D.
4,4'-DDE	5.0	N.D.
4,4'-DDT	10	N.D.
Dieldrin	5.0	N.D.
Endosulfan I	10	N.D.
Endosulfan II	5.0	N.D.
Endosulfan sulfate	50	N.D.
Endrin	10	N.D.
Endrin aldehyde	15	N.D.
Heptachlor	5.0	N.D.
Heptachlor epoxide	5.0	N.D.
Methoxychlor	150	N.D.
Toxaphene	180	N.D.
PCB-1016	50	N.D.
PCB-1221	50	N.D.
PCB-1232	50	N.D.
PCB-1242	50	N.D.
PCB-1248	50	N.D.
PCB-1254	50	N.D.
PCB-1260	50	N.D.

Analytes reported as N.D. were not present above the stated limit of detection.

DEL MAR ANALYTICAL, IRVINE (ELAP #1197)

Roberta Edwards

Roberta Edwards
Project Manager

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MS/MSD DATA REPORT

EPA METHOD: **8080**
Matrix: Soil

DATE: 8/18/95

SAMPLE #: Blank

Analyte	R1	Sp	MS	MSD	PR1	PR2	RPD	MEAN PR
	ppb	ppb	ppb	ppb	%	%	%	%
DDE	0	125	110	120	88%	96%	8.7%	92%
DDD	0	125	120	130	96%	104%	8.0%	100%
DDT	0	125	130	140	104%	112%	7.4%	108%

Definition of Terms:

R1..... Result of Sample Analysis

Sp..... Spike Concentration Added to Sample

MS..... Matrix Spike Result

MSD..... Matrix Spike Duplicate Result

PR1..... Percent Recovery of MS; ((MS-R1) / SP) X 100

PR2..... Percent Recovery of MSD; ((MSD-R1) / SP) X 100

RPD..... Relative Percent Difference; ((MS-MSD)/(MS+MSD)/2)) X 100

Del Mar Analytical

Harding Lawson Associates
351 Rolling Oaks Drive, Suite 100
Thousand Oaks, CA 91361
(805) 494-7725 • (805) 494-8386 FAX

CHAIN OF CUSTODY FORM

Lab: Del Mar Analytics

Samplers: John Coffman

Job Number: 32026.49

Name/Location: Omega Chemical

Project Manager: Andrew Keller

Recorder: John Coffman (Signature Required)

SOURCE CODE	MATRIX: Water	Sediment	Soil	Oil	Resin	# CONTAINERS & PRESERV.: Unpres.	H_2SO_4	HNO_3	HCL	Ice	SAMPLE NUMBER OR LAB NUMBER: Yr	Wk	Seq	DATE: Yr	Mo	Day	Time	STATION DESCRIPTION/ NOTES
00					X	1					BIN-		East	95	08	09	0400	Samples in glassjar
00					X	1					BIN-		West	95	08	09	0415	" "

ANALYSIS REQUESTED

EPA 601/8010	EPA 602/8020	EPA 624/8240	EPA 625/8270	METALS	EPA 8015M/TPHg	EPA 8020/BTEX	EPA 8015M/TPHd,o	ADHS BLS-181
		X	X					
		X	X					
		Rush Turnaround	Rush Turnaround					

LAB NUMBER: Yr	Wk	Seq	DEPTH IN FEET	COL MTD CD	QA CODE
			•		
			•		
			•		
			•		
			•		
			•		
			•		
			•		
			•		

MISCELLANEOUS

24 Hour Turnaround
Fax Results to
Jim Hardesty
(310) 907-4826
and Andrew Keller
(714) 662-3297

CHAIN OF CUSTODY RECORD

RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED BY: (Signature)	DATE/TIME
John Coffman		Maria Lemus	8-9-95 7:35
Maria Lemus	8-9-95 9:00		
RELINQUISHED BY: (Signature)		RECEIVED BY: (Signature)	DATE/TIME
RELINQUISHED BY: (Signature)		RECEIVED BY: (Signature)	DATE/TIME
DISPATCHED BY: (Signature)	DATE/TIME	RECEIVED FOR LAB BY: (Signature)	DATE/TIME
		[illegible]	9/9/95

METHOD OF SHIPMENT

SAMPLE CONDITION WHEN RECEIVED BY THE LABORATORY
Intact - on ice

Laboratory Copy Project Office Copy Field or Office Copy

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2465 W. 12th St., Suite 1, Tempe, AZ 85281 (602) 968-8272 FAX (602) 968-1338

Harding Lawson Associates
3 Hutton Centre, Suite 300
Santa Ana, CA 92707
Attention: Andrew Keller

Client Project ID: 32026.49
Omega Chemical
Sample Descript: Solid, Bin-East
Lab Number: EH01162

Sampled: Aug 9, 1995
Received: Aug 9, 1995
Extracted: Aug 9, 1995
Analyzed: Aug 10, 1995
Reported: Aug 11, 1995

SEMI-VOLATILE ORGANICS by GC/MS (EPA 3550/8270)

Analyte	Detection Limit µg/Kg (ppb)	Sample Result µg/Kg (ppb)	Analyte	Detection Limit µg/Kg (ppb)	Sample Result µg/Kg (ppb)
Acenaphthene	10,000	N.D.	Dimethyl phthalate	10,000	N.D.
Acenaphthylene	10,000	N.D.	4,6-Dinitro-2-methylphenol	25,000	N.D.
Aniline	15,000	N.D.	2,4-Dinitrophenol	25,000	N.D.
Anthracene	10,000	N.D.	2,4-Dinitrotoluene	10,000	N.D.
Azobenzene	15,000	N.D.	2,6-Dinitrotoluene	10,000	N.D.
Benzidine	100,000	N.D.	Di-N-octyl phthalate	50,000	N.D.
Benzoic Acid	**50,000**	**230,000**	Fluoranthene	10,000	N.D.
Benz(a)anthracene	10,000	N.D.	Fluorene	10,000	N.D.
Benzo(b)fluoranthene	20,000	N.D.	Hexachlorobenzene	10,000	N.D.
Benzo(k)fluoranthene	20,000	N.D.	Hexachlorobutadiene	10,000	N.D.
Benzo(g,h,i)perylene	15,000	N.D.	Hexachlorocyclopentadiene	50,000	N.D.
Benzo(a)pyrene	20,000	N.D.	Hexachloroethane	20,000	N.D.
Benzyl alcohol	20,000	N.D.	Indeno(1,2,3-cd)pyrene	20,000	N.D.
Bis(2-chloroethoxy)methane	10,000	N.D.	Isophorone	10,000	N.D.
Bis(2-chloroethyl)ether	10,000	N.D.	2-Methylnaphthalene	10,000	N.D.
Bis(2-chloroisopropyl)ether	10,000	N.D.	2-Methylphenol	15,000	N.D.
Bis(2-ethylhexyl)phthalate	25,000	N.D.	4-Methylphenol	15,000	N.D.
4-Bromophenyl phenyl ether	15,000	N.D.	Naphthalene	15,000	N.D.
Butyl benzyl phthalate	50,000	N.D.	2-Nitroaniline	20,000	N.D.
4-Chloroaniline	10,000	N.D.	3-Nitroaniline	20,000	N.D.
2-Chloronaphthalene	10,000	N.D.	4-Nitroaniline	50,000	N.D.
4-Chloro-3-methylphenol	10,000	N.D.	Nitrobenzene	50,000	N.D.
2-Chlorophenol	25,000	N.D.	2-Nitrophenol	10,000	N.D.
4-Chlorophenyl phenyl ether	10,000	N.D.	4-Nitrophenol	50,000	N.D.
Chrysene	10,000	N.D.	N-Nitrosodiphenylamine	20,000	N.D.
Dibenz(a,h)anthracene	25,000	N.D.	N-Nitroso-di-N-propylamine	15,000	N.D.
Dibenzofuran	10,000	N.D.	Pentachlorophenol	50,000	N.D.
Di-N-butyl phthalate	25,000	N.D.	Phenanthrene	10,000	N.D.
1,3-Dichlorobenzene	10,000	N.D.	**Phenol**	**15,000**	**16,000**
1,4-Dichlorobenzene	10,000	N.D.	Pyrene	15,000	N.D.
1,2-Dichlorobenzene	10,000	N.D.	1,2,4-Trichlorobenzene	10,000	N.D.
3,3-Dichlorobenzidine	50,000	N.D.	2,4,5-Trichlorophenol	15,000	N.D.
2,4-Dichlorophenol	10,000	N.D.	2,4,6-Trichlorophenol	15,000	N.D.
Diethyl phthalate	10,000	N.D.			
2,4-Dimethylphenol	25,000	N.D.			

Analytes reported as N.D. were not present above the stated limit of detection. Due to matrix effects and/or other factors, the sample required dilution. Detection limits for this sample have been raised by a factor of 100.

DEL MAR ANALYTICAL, IRVINE (ELAP #1197)

Surrogate Standard Recoveries (Accept. Limits):	
2-Fluorophenol (25-121)	62%
Phenol-d6 (24-113)	48%
2,4,6-Tribromophenol (19-122)	78%
Nitrobenzene-d5 (23-120)	93%
2-Fluorobiphenyl (30-115)	87%
Terphenyl-d14 (18-137)	104%

Gary Steube
Laboratory Director

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Harding Lawson Associates
3 Hutton Centre, Suite 300
Santa Ana, CA 92707
Attention: Andrew Keller

Client Project ID: 32026.49
Omega Chemical
Sample Descript: Solid, Bin-West
Lab Number: EH01163

Sampled: Aug 9, 199
Received: Aug 9, 1995
Extracted: Aug 9, 1995
Analyzed: Aug 10, 1995
Reported: Aug 11, 1995

SEMI-VOLATILE ORGANICS by GC/MS (EPA 3550/8270)

Analyte	Detection Limit µg/Kg (ppb)	Sample Result µg/Kg (ppb)	Analyte	Detection Limit µg/Kg (ppb)	Sample Result µg/Kg (ppb)
Acenaphthene	10,000	N.D.	**Dimethyl phthalate**	**10,000**	**150,000**
Acenaphthylene	10,000	N.D.	4,6-Dinitro-2-methylphenol	25,000	N.D.
Aniline	15,000	N.D.	2,4-Dinitrophenol	25,000	N.D.
Anthracene	10,000	N.D.	2,4-Dinitrotoluene	10,000	N.D.
Azobenzene	15,000	N.D.	2,6-Dinitrotoluene	10,000	N.D.
Benzidine	100,000	N.D.	Di-N-octyl phthalate	50,000	N.D.
Benzoic Acid	**50,000**	**180,000**	Fluoranthene	10,000	N.D.
Benz(a)anthracene	10,000	N.D.	Fluorene	10,000	N.D.
Benzo(b)fluoranthene	20,000	N.D.	Hexachlorobenzene	10,000	N.D.
Benzo(k)fluoranthene	20,000	N.D.	Hexachlorobutadiene	10,000	N.D.
Benzo(g,h,i)perylene	15,000	N.D.	Hexachlorocyclopentadiene	50,000	N.D.
Benzo(a)pyrene	20,000	N.D.	Hexachloroethane	20,000	N.D.
Benzyl alcohol	20,000	N.D.	Indeno(1,2,3-cd)pyrene	20,000	N.D.
Bis(2-chloroethoxy)methane	10,000	N.D.	Isophorone	10,000	N.D.
Bis(2-chloroethyl)ether	10,000	N.D.	2-Methylnaphthalene	10,000	N.D.
Bis(2-chloroisopropyl)ether	10,000	N.D.	2-Methylphenol	15,000	N.D.
Bis(2-ethylhexyl)phthalate	25,000	N.D.	4-Methylphenol	15,000	N.D.
4-Bromophenyl phenyl ether	15,000	N.D.	Naphthalene	15,000	N.D.
Butyl benzyl phthalate	50,000	N.D.	2-Nitroaniline	20,000	N.D.
4-Chloroaniline	10,000	N.D.	3-Nitroaniline	20,000	N.D.
2-Chloronaphthalene	10,000	N.D.	4-Nitroaniline	50,000	N.D.
4-Chloro-3-methylphenol	10,000	N.D.	Nitrobenzene	50,000	N.D.
2-Chlorophenol	25,000	N.D.	2-Nitrophenol	10,000	N.D.
4-Chlorophenyl phenyl ether	10,000	N.D.	4-Nitrophenol	50,000	N.D.
Chrysene	10,000	N.D.	N-Nitrosodiphenylamine	20,000	N.D.
Dibenz(a,h)anthracene	25,000	N.D.	N-Nitroso-di-N-propylamine	15,000	N.D.
Dibenzofuran	10,000	N.D.	Pentachlorophenol	50,000	N.D.
Di-N-butyl phthalate	25,000	N.D.	Phenanthrene	10,000	N.D.
1,3-Dichlorobenzene	10,000	N.D.	Phenol	15,000	N.D.
1,4-Dichlorobenzene	10,000	N.D.	Pyrene	15,000	N.D.
1,2-Dichlorobenzene	10,000	N.D.	1,2,4-Trichlorobenzene	10,000	N.D.
3,3-Dichlorobenzidine	50,000	N.D.	2,4,5-Trichlorophenol	15,000	N.D.
2,4-Dichlorophenol	10,000	N.D.	2,4,6-Trichlorophenol	15,000	N.D.
Diethyl phthalate	10,000	N.D.			
2,4-Dimethylphenol	25,000	N.D.			

Analytes reported as N.D. were not present above the stated limit of detection. Due to matrix effects and/or other factors, the sample required dilution.
Detection limits for this sample have been raised by a factor of 100.

DEL MAR ANALYTICAL, IRVINE (ELAP #1197)

Gary Steube
Laboratory Director

Surrogate Standard Recoveries (Accept. Limits):	
2-Fluorophenol (25-121)	74%
Phenol-d6 (24-113)	43%
2,4,6-Tribromophenol (19-122)	39%
Nitrobenzene-d5 (23-120)	72%
2-Fluorobiphenyl (30-115)	95%
Terphenyl-d14 (18-137)	118%

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Harding Lawson Associates
3 Hutton Centre, Suite 300
Santa Ana, CA 92707
Attention: Andrew Keller

Client Project ID: 32026.49
Omega Chemical
Sample Descript: Solid, Bin-East
Lab Number: EH01162

Sampled: Aug 9, 1995
Received: Aug 9, 1995
Extracted: Aug 9, 1995
Analyzed: Aug 9, 1995
Reported: Aug 14, 1995

VOLATILE ORGANICS by GC/MS (EPA 8240)

Analyte	Detection Limit µg/Kg (ppb)	Sample Result µg/Kg (ppb)
Acetone	8,000	N.D.
Benzene	1,600	N.D.
Bromodichloromethane	1,600	N.D.
Bromoform	1,600	N.D.
Bromomethane	4,000	N.D.
2-Butanone	8,000	N.D.
Carbon disulfide	4,000	N.D.
Carbon tetrachloride	4,000	N.D.
Chlorobenzene	1,600	N.D.
Chlorodibromomethane	1,600	N.D.
Chloroethane	4,000	N.D.
2-Chloroethyl vinyl ether	1,600	N.D.
Chloroform	1,600	N.D.
Chloromethane	4,000	N.D.
1,1-Dichloroethane	1,600	N.D.
1,2-Dichloroethane	1,600	N.D.
1,1-Dichloroethene	4,000	N.D.
cis-1,2-Dichloroethene	1,600	N.D.
trans-1,2-Dichloroethene	1,600	N.D.
1,2-Dichloropropane	1,600	N.D.
cis-1,3-Dichloropropene	1,600	N.D.
trans-1,3-Dichloropropene	1,600	N.D.
Ethylbenzene	**1,600**	**3,900**
2-Hexanone	8,000	N.D.
Methylene chloride	**8,000**	**11,000**
4-Methyl-2-pentanone	4,000	N.D.
Styrene	**1,600**	**180,000**
1,1,2,2-Tetrachloroethane	1,600	N.D.
Tetrachloroethene	1,600	N.D.
Toluene	**1,600**	**11,000**
1,1,1-Trichloroethane	1,600	N.D.
1,1,2-Trichloroethane	1,600	N.D.
Trichloroethene	1,600	N.D.
Trichlorofluoromethane	4,000	N.D.
Vinyl acetate	4,000	N.D.
Vinyl chloride	4,000	N.D.
Total Xylenes	**1,600**	**13,000**

Analytes reported as N.D. were not present above the stated limit of detection. Due to matrix effects and/or other factors, the sample required dilution. Detection limits for this sample have been raised by a factor of 800.

DEL MAR ANALYTICAL, IRVINE (ELAP #1197)

Gary Stelbe
Laboratory Director

Surrogate Standard Recoveries (Accept. Limits):	
1,2-Dichloroethane-d4 (70-121)	93%
Toluene-d8 (81-117)	117%
4-Bromofluorobenzene (74-121)	108%

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Harding Lawson Associates
3 Hutton Centre, Suite 300
Santa Ana, CA 92707
Attention: Andrew Keller

Client Project ID: 32026.49
Omega Chemical
Sample Descript: Solid, BIN-West
Lab Number: EH01163

Sampled: Aug 9, 199
Received: Aug 9, 1995
Extracted: Aug 12, 1995
Analyzed: Aug 12, 1995
Reported: Aug 14, 1995

VOLATILE ORGANICS by GC/MS (EPA 8240)

Analyte	Detection Limit µg/Kg (ppb)	Sample Result µg/Kg (ppb)
Acetone	400,000	N.D.
Benzene	80,000	N.D.
Bromodichloromethane	80,000	N.D.
Bromoform	80,000	N.D.
Bromomethane	200,000	N.D.
2-Butanone	400,000	N.D.
Carbon disulfide	200,000	N.D.
Carbon tetrachloride	200,000	N.D.
Chlorobenzene	80,000	N.D.
Chlorodibromomethane	80,000	N.D.
Chloroethane	200,000	N.D.
2-Chloroethyl vinyl ether	80,000	N.D.
Chloroform	80,000	N.D.
Chloromethane	200,000	N.D.
1,1-Dichloroethane	80,000	N.D.
1,2-Dichloroethane	80,000	N.D.
1,1-Dichloroethene	200,000	N.D.
cis-1,2-Dichloroethene	80,000	N.D.
trans-1,2-Dichloroethene	80,000	N.D.
1,2-Dichloropropane	80,000	N.D.
cis-1,3-Dichloropropene	80,000	N.D.
trans-1,3-Dichloropropene	80,000	N.D.
Ethylbenzene	80,000	N.D.
2-Hexanone	400,000	N.D.
Methylene chloride	400,000	N.D.
4-Methyl-2-pentanone	200,000	N.D.
Styrene	**80,000**	**6,200,000**
1,1,2,2-Tetrachloroethane	80,000	N.D.
Tetrachloroethene	80,000	N.D.
Toluene	80,000	N.D.
1,1,1-Trichloroethane	80,000	N.D.
1,1,2-Trichloroethane	80,000	N.D.
Trichloroethene	80,000	N.D.
Trichlorofluoromethane	200,000	N.D.
Vinyl acetate	200,000	N.D.
Vinyl chloride	200,000	N.D.
Total Xylenes	80,000	N.D.

Analytes reported as N.D. were not present above the stated limit of detection. Due to matrix effects and/or other factors, the sample required dilution.
Detection limits for this sample have been raised by a factor of 40000.

DEL MAR ANALYTICAL, IRVINE (ELAP #1197)

Gary Steube
Laboratory Director

Surrogate Standard Recoveries (Accept. Limits):	
1,2-Dichloroethane-d4 (70-121)	105%
Toluene-d8 (81-117)	100%
4-Bromofluorobenzene (74-121)	100%

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Harding Lawson Associates
3 Hutton Centre, Suite 300
Santa Ana, CA 92707
Attention: Andrew Keller

Method Blank

Extracted: Aug 9, 1995
Analyzed: Aug 10, 1995
Reported: Aug 11, 1995
Matrix Solid

SEMI-VOLATILE ORGANICS by GC/MS (EPA 3550/8270)

Analyte	Detection Limit µg/Kg (ppb)	Sample Result µg/Kg (ppb)	Analyte	Detection Limit µg/Kg (ppb)	Sample Result µg/Kg (ppb)
Acenaphthene	100	N.D.	Dimethyl phthalate	100	N.D.
Acenaphthylene	100	N.D.	4,6-Dinitro-2-methylphenol	250	N.D.
Aniline	150	N.D.	2,4-Dinitrophenol	250	N.D.
Anthracene	100	N.D.	2,4-Dinitrotoluene	100	N.D.
Azobenzene	150	N.D.	2,6-Dinitrotoluene	100	N.D.
Benzidine	1,000	N.D.	Di-N-octyl phthalate	500	N.D.
Benzoic Acid	500	N.D.	Fluoranthene	100	N.D.
Benz(a)anthracene	100	N.D.	Fluorene	100	N.D.
Benzo(b)fluoranthene	200	N.D.	Hexachlorobenzene	100	N.D.
Benzo(k)fluoranthene	200	N.D.	Hexachlorobutadiene	100	N.D.
Benzo(g,h,i)perylene	150	N.D.	Hexachlorocyclopentadiene	500	N.D.
Benzo(a)pyrene	200	N.D.	Hexachloroethane	200	N.D.
Benzyl alcohol	200	N.D.	Indeno(1,2,3-cd)pyrene	200	N.D.
Bis(2-chloroethoxy)methane	100	N.D.	Isophorone	100	N.D.
Bis(2-chloroethyl)ether	100	N.D.	2-Methylnaphthalene	100	N.D.
Bis(2-chloroisopropyl)ether	100	N.D.	2-Methylphenol	150	N.D.
Bis(2-ethylhexyl)phthalate	250	N.D.	4-Methylphenol	150	N.D.
4-Bromophenyl phenyl ether	150	N.D.	Naphthalene	150	N.D.
Butyl benzyl phthalate	500	N.D.	2-Nitroaniline	200	N.D.
4-Chloroaniline	100	N.D.	3-Nitroaniline	200	N.D.
2-Chloronaphthalene	100	N.D.	4-Nitroaniline	500	N.D.
4-Chloro-3-methylphenol	100	N.D.	Nitrobenzene	500	N.D.
2-Chlorophenol	250	N.D.	2-Nitrophenol	100	N.D.
4-Chlorophenyl phenyl ether	100	N.D.	4-Nitrophenol	500	N.D.
Chrysene	100	N.D.	N-Nitrosodiphenylamine	200	N.D.
Dibenz(a,h)anthracene	250	N.D.	N-Nitroso-di-N-propylamine	150	N.D.
Dibenzofuran	100	N.D.	Pentachlorophenol	500	N.D.
Di-N-butyl phthalate	250	N.D.	Phenanthrene	100	N.D.
1,3-Dichlorobenzene	100	N.D.	Phenol	150	N.D.
1,4-Dichlorobenzene	100	N.D.	Pyrene	150	N.D.
1,2-Dichlorobenzene	100	N.D.	1,2,4-Trichlorobenzene	100	N.D.
3,3-Dichlorobenzidine	500	N.D.	2,4,5-Trichlorophenol	150	N.D.
2,4-Dichlorophenol	100	N.D.	2,4,6-Trichlorophenol	150	N.D.
Diethyl phthalate	100	N.D.			
2,4-Dimethylphenol	250	N.D.			

Analytes reported as N.D. were not present above the stated limit of detection.

Surrogate Standard Recoveries (Accept. Limits):	
2-Fluorophenol (25-121)	57%
Phenol-d6 (24-113)	55%
2,4,6-Tribromophenol (19-122)	83%
Nitrobenzene-d5 (23-120)	58%
2-Fluorobiphenyl (30-115)	66%
Terphenyl-d14 (18-137)	82%

DEL MAR ANALYTICAL, IRVINE (ELAP #1197)

Gary Steube
Laboratory Director

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Harding Lawson Associates
3 Hutton Centre, Suite 300
Santa Ana, CA 92707
Attention: Andrew Keller

Method Blank

Extracted: Aug 9, 199
Analyzed: Aug 9, 1995
Reported: Aug 14, 1995
Matrix: Solid

VOLATILE ORGANICS by GC/MS (EPA 8240)

Analyte	Detection Limit µg/Kg (ppb)	Sample Result µg/Kg (ppb)
Acetone	10	N.D.
Benzene	2.0	N.D.
Bromodichloromethane	2.0	N.D.
Bromoform	2.0	N.D.
Bromomethane	5.0	N.D.
2-Butanone	10	N.D.
Carbon disulfide	5.0	N.D.
Carbon tetrachloride	5.0	N.D.
Chlorobenzene	2.0	N.D.
Chlorodibromomethane	2.0	N.D.
Chloroethane	5.0	N.D.
2-Chloroethyl vinyl ether	2.0	N.D.
Chloroform	2.0	N.D.
Chloromethane	5.0	N.D.
1,1-Dichloroethane	2.0	N.D.
1,2-Dichloroethane	2.0	N.D.
1,1-Dichloroethene	5.0	N.D.
cis-1,2-Dichloroethene	2.0	N.D.
trans-1,2-Dichloroethene	2.0	N.D.
1,2-Dichloropropane	2.0	N.D.
cis-1,3-Dichloropropene	2.0	N.D.
trans-1,3-Dichloropropene	2.0	N.D.
Ethylbenzene	2.0	N.D.
2-Hexanone	10	N.D.
Methylene chloride	10	N.D.
4-Methyl-2-pentanone	5.0	N.D.
Styrene	2.0	N.D.
1,1,2,2-Tetrachloroethane	2.0	N.D.
Tetrachloroethene	2.0	N.D.
Toluene	2.0	N.D.
1,1,1-Trichloroethane	2.0	N.D.
1,1,2-Trichloroethane	2.0	N.D.
Trichloroethene	2.0	N.D.
Trichlorofluoromethane	5.0	N.D.
Vinyl acetate	5.0	N.D.
Vinyl chloride	5.0	N.D.
Total Xylenes	2.0	N.D.

Analytes reported as N.D. were not present above the stated limit of detection.

DEL MAR ANALYTICAL, IRVINE (ELAP #1197)

Gary Steube
Laboratory Director

Surrogate Standard Recoveries (Accept. Limits):	
1,2-Dichloroethane-d4 (70-121)	86%
Toluene-d8 (81-117)	89%
4-Bromofluorobenzene (74-121)	92%

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Harding Lawson Associates
3 Hutton Centre, Suite 300
Santa Ana, CA 92707
Attention: Andrew Keller

Method Blank

Extracted: Aug 12, 1995
Analyzed: Aug 12, 1995
Reported: Aug 14, 1995
Matrix: Solid

VOLATILE ORGANICS by GC/MS (EPA 8240)

Analyte	Detection Limit µg/Kg (ppb)	Sample Result µg/Kg (ppb)
Acetone	10	N.D.
Benzene	2.0	N.D.
Bromodichloromethane	2.0	N.D.
Bromoform	2.0	N.D.
Bromomethane	5.0	N.D.
2-Butanone	10	N.D.
Carbon disulfide	5.0	N.D.
Carbon tetrachloride	5.0	N.D.
Chlorobenzene	2.0	N.D.
Chlorodibromomethane	2.0	N.D.
Chloroethane	5.0	N.D.
2-Chloroethyl vinyl ether	2.0	N.D.
Chloroform	2.0	N.D.
Chloromethane	5.0	N.D.
1,1-Dichloroethane	2.0	N.D.
1,2-Dichloroethane	2.0	N.D.
1,1-Dichloroethene	5.0	N.D.
cis-1,2-Dichloroethene	2.0	N.D.
trans-1,2-Dichloroethene	2.0	N.D.
1,2-Dichloropropane	2.0	N.D.
cis-1,3-Dichloropropene	2.0	N.D.
trans-1,3-Dichloropropene	2.0	N.D.
Ethylbenzene	2.0	N.D.
2-Hexanone	10	N.D.
Methylene chloride	10	N.D.
4-Methyl-2-pentanone	5.0	N.D.
Styrene	2.0	N.D.
1,1,2,2-Tetrachloroethane	2.0	N.D.
Tetrachloroethene	2.0	N.D.
Toluene	2.0	N.D.
1,1,1-Trichloroethane	2.0	N.D.
1,1,2-Trichloroethane	2.0	N.D.
Trichloroethene	2.0	N.D.
Trichlorofluoromethane	5.0	N.D.
Vinyl acetate	5.0	N.D.
Vinyl chloride	5.0	N.D.
Total Xylenes	2.0	N.D.

Analytes reported as N.D. were not present above the stated limit of detection.

DEL MAR ANALYTICAL, IRVINE (ELAP #1197)

Gary Steube
Laboratory Director

Surrogate Standard Recoveries (Accept. Limits):	
1,2-Dichloroethane-d4 (70-121)	103%
Toluene-d8 (81-117)	100%
4-Bromofluorobenzene (74-121)	94%

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2465 W. 12th St., Suite 1, Tempe, AZ 85281 (602) 968-8272 FAX (602) 968-1338

MS/MSD DATA REPORT

EPA METHOD: 8240
Matrix: Soil

DATE: 8/9/95

SAMPLE #: EH00922

Analyte	R1	Sp	MS	MSD	PR1	PR2	RPD	MEAN PR
	ppb	ppb	ppb	ppb	%	%	%	%
Benzene	0	50	45	45	90%	90%	0.0%	90%
Chlorobenzene	0	50	52	46	104%	92%	12.2%	98%
1,1-Dichloroethane	0	50	42	42	84%	84%	0.0%	84%
1,2-Dichlororethane	0	50	45	45	90%	90%	0.0%	90%
1,1-Dichloroethene	0	50	44	44	88%	88%	0.0%	88%
Chloroform	0	50	42	41	84%	82%	2.4%	83%
Tetrachloroethene	0	50	45	45	90%	90%	0.0%	90%
Toluene	0	50	45	42	90%	84%	6.9%	87%
Trichloroethene	0	50	48	45	96%	90%	6.5%	93%
Vinyl Chloride	0	50	41	40	82%	80%	2.5%	81%

Definition of Terms:

R1..... Result of Sample Analysis

Sp..... Spike Concentration Added to Sample

MS..... Matrix Spike Result

MSD..... Matrix Spike Duplicate Result

PR1..... Percent Recovery of MS; ((MS-R1) / SP) X 100

PR2..... Percent Recovery of MSD; ((MSD-R1) / SP) X 100

RPD..... Relative Percent Difference; ((MS-MSD)/(MS+MSD)/2)) X 100

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2465 W. 12th St., Suite 1, Tempe, AZ 85281 (602) 968-8272 FAX (602) 968-1338

MS/MSD DATA REPORT

EPA METHOD: **8270**
Matrix: Soil

DATE: 8/9/95

SAMPLE #: Blank

Analyte	R1	Sp	MS	MSD	PR1	PR2	RPD	MEAN PR
	ppb	ppb	ppb	ppb	%	%	%	%
1,4-Dichlorobenzene	0	50	27	31	54%	62%	13.8%	58%
n-nitroso-di-n-propylamine	0	50	27	31	54%	62%	13.8%	58%
1,2,4-Trichlorobenzene	0	50	32	35	64%	70%	9.0%	67%
Acenaphthene	0	50	35	38	70%	76%	8.2%	73%
2,4-Dinitrotoluene	0	50	27	32	54%	64%	16.9%	59%
Pyrene	0	50	35	35	70%	70%	0.0%	70%
4-Chloro-3-methylphenol	0	100	61	70	61%	70%	13.7%	66%
2-Chlorophenol	0	100	57	64	57%	64%	11.6%	61%
4-Nitrophenol	0	100	62	81	62%	81%	26.6%	72%
Pentachlorophenol	0	100	66	71	66%	71%	7.3%	69%
Phenol	0	100	58	62	58%	62%	6.7%	60%

Definition of Terms:

R1..... **Result of Sample Analysis**

Sp..... **Spike Concentration Added to Sample**

MS..... **Matrix Spike Result**

MSD..... **Matrix Spike Duplicate Result**

PR1..... **Percent Recovery of MS; ((MS-R1) / SP) X 100**

PR2..... **Percent Recovery of MSD; ((MSD-R1) / SP) X 100**

RPD..... **Relative Percent Difference; ((MS-MSD)/(MS+MSD)/2)) X 100**

Del Mar Analytical

Harding Lawson Associates
351 Rolling Oaks Drive, Suite 100
Thousand Oaks, CA 91361
(805) 494-7725 • (805) 494-8386 FAX

CHAIN OF CUSTODY FORM

Lab: Del Mar Analytics

Samplers: John Coffman

Job Number: 32026.49

Name/Location: Omega Chemical

Project Manager: Andrew Keller

Recorder: John Coffman (Signature Required)

SOURCE CODE	MATRIX: Water	Sediment	Soil	Oil	Resin	# CONTAINERS & PRESERV.: Unpres.	H_2SO_4	HNO_3	HCL	Ice	SAMPLE NUMBER OR LAB NUMBER	DATE: Yr Mo Day Time	STATION DESCRIPTION/ NOTES
00					X	1					BIN-East	950809 0400	Samples in glass jar
00					X	1					BIN-West	950809 0415	" "

ANALYSIS REQUESTED

EPA 601/8010	EPA 602/8020	EPA 624/8240	EPA 625/8270	METALS	EPA 8015M/TPHg	EPA 8020/BTEX	EPA 8015M/TPHd,o	ADHS BLS-181
		XX	XX					

Rush Turnaround

Rush Turnaround

LAB NUMBER Yr Wk Seq	DEPTH IN FEET	COL MTD CD	QA CODE	MISCELLANEOUS
				24 Hour Turnaround
				Fax Results to
				Jim Hardesty
				(310) 907-4826
				and Andrew Keller
				(714) 662-3297

CHAIN OF CUSTODY RECORD

RELINQUISHED BY: (Signature) John Coffman	RECEIVED BY: (Signature) Marcos Lemus	DATE/TIME 8-9-95 7:39
RELINQUISHED BY: (Signature) Marcos Lemus	RECEIVED BY: (Signature)	DATE/TIME 8-9-95 9:00
RELINQUISHED BY: (Signature)	RECEIVED BY: (Signature)	DATE/TIME
RELINQUISHED BY: (Signature)	RECEIVED BY: (Signature)	DATE/TIME
DISPATCHED BY: (Signature) DATE/TIME	RECEIVED FOR LAB BY: (Signature)	DATE/TIME 8/9 9:00

METHOD OF SHIPMENT

SAMPLE CONDITION WHEN RECEIVED BY THE LABORATORY: Iced — on ice

Laboratory Copy White — Office Copy Yellow — Field or Office Copy Pink

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Harding Lawson Associates
3 Hutton Centre, Suite 300
Santa Ana, CA 92707
Attention: Andrew Keller

Client Project ID: 32026.49
Omega/Whittier
Sample Descript: Wipe, East Bin-8240
Lab Number: EH04043

Sampled: Aug 24, 1995
Received: Aug 24, 1995
Extracted: Aug 26, 1995
Analyzed: Aug 26, 1995
Reported: Aug 28, 1995

VOLATILE ORGANICS by GC/MS (EPA 8240)

Analyte	Detection Limit µg/Wipe	Sample Result µg/Wipe
Acetone	5.0	N.D.
Benzene	1.0	N.D.
Bromodichloromethane	1.0	N.D.
Bromoform	1.0	N.D.
Bromomethane	2.5	N.D.
2-Butanone	5.0	N.D.
Carbon disulfide	2.5	N.D.
Carbon tetrachloride	2.5	N.D.
Chlorobenzene	1.0	N.D.
Chlorodibromomethane	1.0	N.D.
Chloroethane	2.5	N.D.
2-Chloroethyl vinyl ether	1.0	N.D.
Chloroform	1.0	N.D.
Chloromethane	2.5	N.D.
1,1-Dichloroethane	1.0	N.D.
1,2-Dichloroethane	1.0	N.D.
1,1-Dichloroethene	2.5	N.D.
cis-1,2-Dichloroethene	1.0	N.D.
trans-1,2-Dichloroethene	1.0	N.D.
1,2-Dichloropropane	1.0	N.D.
cis-1,3-Dichloropropene	1.0	N.D.
trans-1,3-Dichloropropene	1.0	N.D.
Ethylbenzene	1.0	N.D.
2-Hexanone	5.0	N.D.
Methylene chloride	5.0	N.D.
4-Methyl-2-pentanone	2.5	N.D.
Styrene	1.0	N.D.
1,1,2,2-Tetrachloroethane	1.0	N.D.
Tetrachloroethene	1.0	N.D.
Toluene	1.0	N.D.
1,1,1-Trichloroethane	1.0	N.D.
1,1,2-Trichloroethane	1.0	N.D.
Trichloroethene	1.0	N.D.
Trichlorofluoromethane	2.5	N.D.
Vinyl acetate	2.5	N.D.
Vinyl chloride	2.5	N.D.
Total Xylenes	1.0	N.D.

Analytes reported as N.D. were not present above the stated limit of detection.

DEL MAR ANALYTICAL, IRVINE (ELAP #1197)

Gary Steube
Laboratory Director

Surrogate Standard Recoveries (Accept. Limits):	
1,2-Dichloroethane-d4 (70-121)	102%
Toluene-d8 (81-117)	98%
4-Bromofluorobenzene (74-121)	95%

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Harding Lawson Associates
3 Hutton Centre, Suite 300
Santa Ana, CA 92707
Attention: Andrew Keller

Client Project ID: 32026.49
Omega/Whittier
Sample Descript: Wipe, West Bin-8240
Lab Number: EH04046

Sampled: Aug 24, 199
Received: Aug 24, 1995
Extracted: Aug 26, 1995
Analyzed: Aug 26, 1995
Reported: Aug 28, 1995

VOLATILE ORGANICS by GC/MS (EPA 8240)

Analyte	Detection Limit µg/Wipe	Sample Result µg/Wipe
Acetone	5.0	N.D.
Benzene	1.0	N.D.
Bromodichloromethane	1.0	N.D.
Bromoform	1.0	N.D.
Bromomethane	2.5	N.D.
2-Butanone	5.0	N.D.
Carbon disulfide	2.5	N.D.
Carbon tetrachloride	2.5	N.D.
Chlorobenzene	1.0	N.D.
Chlorodibromomethane	1.0	N.D.
Chloroethane	2.5	N.D.
2-Chloroethyl vinyl ether	1.0	N.D.
Chloroform	1.0	N.D.
Chloromethane	2.5	N.D.
1,1-Dichloroethane	1.0	N.D.
1,2-Dichloroethane	1.0	N.D.
1,1-Dichloroethene	2.5	N.D.
cis-1,2-Dichloroethene	1.0	N.D.
trans-1,2-Dichloroethene	1.0	N.D.
1,2-Dichloropropane	1.0	N.D.
cis-1,3-Dichloropropene	1.0	N.D.
trans-1,3-Dichloropropene	1.0	N.D.
Ethylbenzene	1.0	N.D.
2-Hexanone	5.0	N.D.
Methylene chloride	5.0	N.D.
4-Methyl-2-pentanone	2.5	N.D.
Styrene	1.0	N.D.
1,1,2,2-Tetrachloroethane	1.0	N.D.
Tetrachloroethene	1.0	N.D.
Toluene	1.0	N.D.
1,1,1-Trichloroethane	1.0	N.D.
1,1,2-Trichloroethane	1.0	N.D.
Trichloroethene	1.0	N.D.
Trichlorofluoromethane	2.5	N.D.
Vinyl acetate	2.5	N.D.
Vinyl chloride	2.5	N.D.
Total Xylenes	1.0	N.D.

Analytes reported as N.D. were not present above the stated limit of detection.

DEL MAR ANALYTICAL, IRVINE (ELAP #1197)

Gary Steube
Laboratory Director

Surrogate Standard Recoveries (Accept. Limits):	
1,2-Dichloroethane-d4 (70-121).....	102%
Toluene-d8 (81-117).....	98%
4-Bromofluorobenzene (74-121).....	94%

Results pertain only to samples tested in the laboratory. This report shall not be reproduced, except in full, without written permission from Del Mar Analytical.

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2465 W. 12th St., Suite 1, Tempe, AZ 85281 (602) 968-8272 FAX (602) 968-1338

Harding Lawson Associates	Client Project ID:	32026.49	Sampled: Aug 24, 1995
3 Hutton Centre, Suite 300		Omega/Whittier	Received: Aug 24, 1995
Santa Ana, CA 92707	Sample Descript:	Wipe, P13-8240	Extracted: Aug 26, 1995
Attention: Andrew Keller	Lab Number:	EH04050	Analyzed: Aug 26, 1995
			Reported: Aug 28, 1995

VOLATILE ORGANICS by GC/MS (EPA 8240)

Analyte	Detection Limit µg/Wipe	Sample Result µg/Wipe
Acetone	5.0	N.D.
Benzene	1.0	N.D.
Bromodichloromethane	1.0	N.D.
Bromoform	1.0	N.D.
Bromomethane	2.5	N.D.
2-Butanone	5.0	N.D.
Carbon disulfide	2.5	N.D.
Carbon tetrachloride	2.5	N.D.
Chlorobenzene	1.0	N.D.
Chlorodibromomethane	1.0	N.D.
Chloroethane	2.5	N.D.
2-Chloroethyl vinyl ether	1.0	N.D.
Chloroform	1.0	N.D.
Chloromethane	2.5	N.D.
1,1-Dichloroethane	1.0	N.D.
1,2-Dichloroethane	1.0	N.D.
1,1-Dichloroethene	2.5	N.D.
cis-1,2-Dichloroethene	1.0	N.D.
trans-1,2-Dichloroethene	1.0	N.D.
1,2-Dichloropropane	1.0	N.D.
cis-1,3-Dichloropropene	1.0	N.D.
trans-1,3-Dichloropropene	1.0	N.D.
Ethylbenzene	1.0	N.D.
2-Hexanone	5.0	N.D.
Methylene chloride	5.0	N.D.
4-Methyl-2-pentanone	2.5	N.D.
Styrene	1.0	N.D.
1,1,2,2-Tetrachloroethane	1.0	N.D.
Tetrachloroethene	1.0	N.D.
Toluene	1.0	N.D.
1,1,1-Trichloroethane	1.0	N.D.
1,1,2-Trichloroethane	1.0	N.D.
Trichloroethene	1.0	N.D.
Trichlorofluoromethane	2.5	N.D.
Vinyl acetate	2.5	N.D.
Vinyl chloride	2.5	N.D.
Total Xylenes	1.0	N.D.

Analytes reported as N.D. were not present above the stated limit of detection.

DEL MAR ANALYTICAL, IRVINE (ELAP #1197)

Gary Steube
Laboratory Director

Surrogate Standard Recoveries (Accept. Limits):	
1,2-Dichloroethane-d4 (70-121)	102%
Toluene-d8 (81-117)	98%
4-Bromofluorobenzene (74-121)	95%

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2465 W. 12th St., Suite 1, Tempe, AZ 85281 (602) 968-8272 FAX (602) 968-1338

Harding Lawson Associates
3 Hutton Centre, Suite 300
Santa Ana, CA 92707
Attention: Andrew Keller

Client Project ID: 32026.49
Omega/Whittier
Sample Descript: Wipe, P14-8240
Lab Number: EH04053

Sampled: Aug 24, 19[illegible]
Received: Aug 24, 1995
Extracted: Aug 26, 1995
Analyzed: Aug 26, 1995
Reported: Aug 28, 1995

VOLATILE ORGANICS by GC/MS (EPA 8240)

Analyte	Detection Limit µg/Wipe	Sample Result µg/Wipe
Acetone	5.0	N.D.
Benzene	1.0	N.D.
Bromodichloromethane	1.0	N.D.
Bromoform	1.0	N.D.
Bromomethane	2.5	N.D.
2-Butanone	5.0	N.D.
Carbon disulfide	2.5	N.D.
Carbon tetrachloride	2.5	N.D.
Chlorobenzene	1.0	N.D.
Chlorodibromomethane	1.0	N.D.
Chloroethane	2.5	N.D.
2-Chloroethyl vinyl ether	1.0	N.D.
Chloroform	1.0	N.D.
Chloromethane	2.5	N.D.
1,1-Dichloroethane	1.0	N.D.
1,2-Dichloroethane	1.0	N.D.
1,1-Dichloroethene	2.5	N.D.
cis-1,2-Dichloroethene	1.0	N.D.
trans-1,2-Dichloroethene	1.0	N.D.
1,2-Dichloropropane	1.0	N.D.
cis-1,3-Dichloropropene	1.0	N.D.
trans-1,3-Dichloropropene	1.0	N.D.
Ethylbenzene	1.0	N.D.
2-Hexanone	5.0	N.D.
Methylene chloride	5.0	N.D.
4-Methyl-2-pentanone	2.5	N.D.
Styrene	1.0	N.D.
1,1,2,2-Tetrachloroethane	1.0	N.D.
Tetrachloroethene	1.0	N.D.
Toluene	1.0	N.D.
1,1,1-Trichloroethane	1.0	N.D.
1,1,2-Trichloroethane	1.0	N.D.
Trichloroethene	1.0	N.D.
Trichlorofluoromethane	2.5	N.D.
Vinyl acetate	2.5	N.D.
Vinyl chloride	2.5	N.D.
Total Xylenes	1.0	N.D.

Analytes reported as N.D. were not present above the stated limit of detection.

DEL MAR ANALYTICAL, IRVINE (ELAP #1197)

Gary Steube
Laboratory Director

Surrogate Standard Recoveries (Accept. Limits):	
1,2-Dichloroethane-d4 (70-121)	103%
Toluene-d8 (81-117)	96%
4-Bromofluorobenzene (74-121)	97%

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2465 W. 12th St., Suite 1, Tempe, AZ 85281 (602) 968-8272 FAX (602) 968-1338

Harding Lawson Associates
3 Hutton Centre, Suite 300
Santa Ana, CA 92707
Attention: Andrew Keller

Client Project ID: 32026.49
Omega/Whittier
Sample Descript: Wipe, P15-8240
Lab Number: EH04057

Sampled: Aug 24, 1995
Received: Aug 24, 1995
Extracted: Aug 26, 1995
Analyzed: Aug 26, 1995
Reported: Aug 28, 1995

VOLATILE ORGANICS by GC/MS (EPA 8240)

Analyte	Detection Limit µg/Wipe	Sample Result µg/Wipe
Acetone	5.0	N.D.
Benzene	1.0	N.D.
Bromodichloromethane	1.0	N.D.
Bromoform	1.0	N.D.
Bromomethane	2.5	N.D.
2-Butanone	5.0	N.D.
Carbon disulfide	2.5	N.D.
Carbon tetrachloride	2.5	N.D.
Chlorobenzene	1.0	N.D.
Chlorodibromomethane	1.0	N.D.
Chloroethane	2.5	N.D.
2-Chloroethyl vinyl ether	1.0	N.D.
Chloroform	1.0	N.D.
Chloromethane	2.5	N.D.
1,1-Dichloroethane	1.0	N.D.
1,2-Dichloroethane	1.0	N.D.
1,1-Dichloroethene	2.5	N.D.
cis-1,2-Dichloroethene	1.0	N.D.
trans-1,2-Dichloroethene	1.0	N.D.
1,2-Dichloropropane	1.0	N.D.
cis-1,3-Dichloropropene	1.0	N.D.
trans-1,3-Dichloropropene	1.0	N.D.
Ethylbenzene	1.0	N.D.
2-Hexanone	5.0	N.D.
Methylene chloride	5.0	N.D.
4-Methyl-2-pentanone	2.5	N.D.
Styrene	1.0	N.D.
1,1,2,2-Tetrachloroethane	1.0	N.D.
Tetrachloroethene	1.0	N.D.
Toluene	1.0	N.D.
1,1,1-Trichloroethane	1.0	N.D.
1,1,2-Trichloroethane	1.0	N.D.
Trichloroethene	1.0	N.D.
Trichlorofluoromethane	2.5	N.D.
Vinyl acetate	2.5	N.D.
Vinyl chloride	2.5	N.D.
Total Xylenes	1.0	N.D.

Analytes reported as N.D. were not present above the stated limit of detection.

DEL MAR ANALYTICAL, IRVINE (ELAP #1197)

Gary Steube
Laboratory Director

Surrogate Standard Recoveries (Accept. Limits):	
1,2-Dichloroethane-d4 (70-121)	105%
Toluene-d8 (81-117)	97%
4-Bromofluorobenzene (74-121)	93%

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2465 W. 12th St., Suite 1, Tempe, AZ 85281 (602) 968-8272 FAX (602) 968-1338

Harding Lawson Associates
3 Hutton Centre, Suite 300
Santa Ana, CA 92707
Attention: Andrew Keller

Client Project ID: 32026.49
Omega/Whittier
Sample Descript: Wipe, P16-8240
Lab Number: EH04058

Sampled: Aug 24, 199
Received: Aug 24, 1995
Extracted: Aug 26, 1995
Analyzed: Aug 26, 1995
Reported: Aug 28, 1995

VOLATILE ORGANICS by GC/MS (EPA 8240)

Analyte	Detection Limit µg/Wipe	Sample Result µg/Wipe
Acetone	5.0	N.D.
Benzene	1.0	N.D.
Bromodichloromethane	1.0	N.D.
Bromoform	1.0	N.D.
Bromomethane	2.5	N.D.
2-Butanone	5.0	N.D.
Carbon disulfide	2.5	N.D.
Carbon tetrachloride	2.5	N.D.
Chlorobenzene	1.0	N.D.
Chlorodibromomethane	1.0	N.D.
Chloroethane	2.5	N.D.
2-Chloroethyl vinyl ether	1.0	N.D.
Chloroform	1.0	N.D.
Chloromethane	2.5	N.D.
1,1-Dichloroethane	1.0	N.D.
1,2-Dichloroethane	1.0	N.D.
1,1-Dichloroethene	2.5	N.D.
cis-1,2-Dichloroethene	1.0	N.D.
trans-1,2-Dichloroethene	1.0	N.D.
1,2-Dichloropropane	1.0	N.D.
cis-1,3-Dichloropropene	1.0	N.D.
trans-1,3-Dichloropropene	1.0	N.D.
Ethylbenzene	1.0	N.D.
2-Hexanone	5.0	N.D.
Methylene chloride	5.0	N.D.
4-Methyl-2-pentanone	2.5	N.D.
Styrene	1.0	N.D.
1,1,2,2-Tetrachloroethane	1.0	N.D.
Tetrachloroethene	1.0	N.D.
Toluene	1.0	N.D.
1,1,1-Trichloroethane	1.0	N.D.
1,1,2-Trichloroethane	1.0	N.D.
Trichloroethene	1.0	N.D.
Trichlorofluoromethane	2.5	N.D.
Vinyl acetate	2.5	N.D.
Vinyl chloride	2.5	N.D.
Total Xylenes	1.0	N.D.

Analytes reported as N.D. were not present above the stated limit of detection.

DEL MAR ANALYTICAL, IRVINE (ELAP #1197)

Gary Steube
Laboratory Director

Surrogate Standard Recoveries (Accept. Limits):	
1,2-Dichloroethane-d4 (70-121)	99%
Toluene-d8 (81-117)	96%
4-Bromofluorobenzene (74-121)	90%

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2465 W. 12th St., Suite 1, Tempe, AZ 85281 (602) 968-8272 FAX (602) 968-1338

Harding Lawson Associates
3 Hutton Centre, Suite 300
Santa Ana, CA 92707
Attention: Andrew Keller

Client Project ID: 32026.49
Omega/Whittier
Sample Descript: Wipe, P17-8240
Lab Number: EH04063

Sampled: Aug 24, 1995
Received: Aug 24, 1995
Extracted: Aug 26, 1995
Analyzed: Aug 26, 1995
Reported: Aug 28, 1995

VOLATILE ORGANICS by GC/MS (EPA 8240)

Analyte	Detection Limit µg/Wipe	Sample Result µg/Wipe
Acetone	5.0	N.D.
Benzene	1.0	N.D.
Bromodichloromethane	1.0	N.D.
Bromoform	1.0	N.D.
Bromomethane	2.5	N.D.
2-Butanone	5.0	N.D.
Carbon disulfide	2.5	N.D.
Carbon tetrachloride	2.5	N.D.
Chlorobenzene	1.0	N.D.
Chlorodibromomethane	1.0	N.D.
Chloroethane	2.5	N.D.
2-Chloroethyl vinyl ether	1.0	N.D.
Chloroform	1.0	N.D.
Chloromethane	2.5	N.D.
1,1-Dichloroethane	1.0	N.D.
1,2-Dichloroethane	1.0	N.D.
1,1-Dichloroethene	2.5	N.D.
cis-1,2-Dichloroethene	1.0	N.D.
trans-1,2-Dichloroethene	1.0	N.D.
1,2-Dichloropropane	1.0	N.D.
cis-1,3-Dichloropropene	1.0	N.D.
trans-1,3-Dichloropropene	1.0	N.D.
Ethylbenzene	1.0	N.D.
2-Hexanone	5.0	N.D.
Methylene chloride	5.0	N.D.
4-Methyl-2-pentanone	2.5	N.D.
Styrene	1.0	N.D.
1,1,2,2-Tetrachloroethane	1.0	N.D.
Tetrachloroethene	1.0	N.D.
Toluene	1.0	N.D.
1,1,1-Trichloroethane	1.0	N.D.
1,1,2-Trichloroethane	1.0	N.D.
Trichloroethene	1.0	N.D.
Trichlorofluoromethane	2.5	N.D.
Vinyl acetate	2.5	N.D.
Vinyl chloride	2.5	N.D.
Total Xylenes	1.0	N.D.

Analytes reported as N.D. were not present above the stated limit of detection.

DEL MAR ANALYTICAL, IRVINE (ELAP #1197)

Gary Steube
Laboratory Director

Surrogate Standard Recoveries (Accept. Limits):	
1,2-Dichloroethane-d4 (70-121)	106%
Toluene-d8 (81-117)	98%
4-Bromofluorobenzene (74-121)	91%

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2465 W. 12th St., Suite 1, Tempe, AZ 85281 (602) 968-8272 FAX (602) 968-1338

Harding Lawson Associates
3 Hutton Centre, Suite 300
Santa Ana, CA 92707
Attention: Andrew Keller

Client Project ID: 32026.49
Omega/Whittier
Sample Descript: Wipe, T19-8240
Lab Number: EH04066

Sampled: Aug 24, 199
Received: Aug 24, 1995
Extracted: Aug 26, 1995
Analyzed: Aug 26, 1995
Reported: Aug 28, 1995

VOLATILE ORGANICS by GC/MS (EPA 8240)

Analyte	Detection Limit µg/Wipe	Sample Result µg/Wipe
Acetone	5.0	N.D.
Benzene	1.0	N.D.
Bromodichloromethane	1.0	N.D.
Bromoform	1.0	N.D.
Bromomethane	2.5	N.D.
2-Butanone	5.0	N.D.
Carbon disulfide	2.5	N.D.
Carbon tetrachloride	2.5	N.D.
Chlorobenzene	1.0	N.D.
Chlorodibromomethane	1.0	N.D.
Chloroethane	2.5	N.D.
2-Chloroethyl vinyl ether	1.0	N.D.
Chloroform	1.0	N.D.
Chloromethane	2.5	N.D.
1,1-Dichloroethane	1.0	N.D.
1,2-Dichloroethane	1.0	N.D.
1,1-Dichloroethene	2.5	N.D.
cis-1,2-Dichloroethene	1.0	N.D.
trans-1,2-Dichloroethene	1.0	N.D.
1,2-Dichloropropane	1.0	N.D.
cis-1,3-Dichloropropene	1.0	N.D.
trans-1,3-Dichloropropene	1.0	N.D.
Ethylbenzene	1.0	N.D.
2-Hexanone	5.0	N.D.
Methylene chloride	5.0	N.D.
4-Methyl-2-pentanone	2.5	N.D.
Styrene	1.0	N.D.
1,1,2,2-Tetrachloroethane	1.0	N.D.
Tetrachloroethene	1.0	N.D.
Toluene	1.0	N.D.
1,1,1-Trichloroethane	1.0	N.D.
1,1,2-Trichloroethane	1.0	N.D.
Trichloroethene	1.0	N.D.
Trichlorofluoromethane	2.5	N.D.
Vinyl acetate	2.5	N.D.
Vinyl chloride	2.5	N.D.
Total Xylenes	1.0	N.D.

Analytes reported as N.D. were not present above the stated limit of detection.

DEL MAR ANALYTICAL, IRVINE (ELAP #1197)

Gary Steube
Laboratory Director

Surrogate Standard Recoveries (Accept. Limits):	
1,2-Dichloroethane-d4 (70-121)	103%
Toluene-d8 (81-117)	98%
4-Bromofluorobenzene (74-121)	94%

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Harding Lawson Associates
3 Hutton Centre, Suite 300
Santa Ana, CA 92707
Attention: Andrew Keller

Client Project ID: 32026.49
Omega/Whittier
Sample Descript: Wipe, T18-8240
Lab Number: EH04069

Sampled: Aug 24, 1995
Received: Aug 24, 1995
Extracted: Aug 26, 1995
Analyzed: Aug 26, 1995
Reported: Aug 28, 1995

VOLATILE ORGANICS by GC/MS (EPA 8240)

Analyte	Detection Limit µg/Wipe	Sample Result µg/Wipe
Acetone	5.0	N.D.
Benzene	1.0	N.D.
Bromodichloromethane	1.0	N.D.
Bromoform	1.0	N.D.
Bromomethane	2.5	N.D.
2-Butanone	5.0	N.D.
Carbon disulfide	2.5	N.D.
Carbon tetrachloride	2.5	N.D.
Chlorobenzene	1.0	N.D.
Chlorodibromomethane	1.0	N.D.
Chloroethane	2.5	N.D.
2-Chloroethyl vinyl ether	1.0	N.D.
Chloroform	1.0	N.D.
Chloromethane	2.5	N.D.
1,1-Dichloroethane	1.0	N.D.
1,2-Dichloroethane	1.0	N.D.
1,1-Dichloroethene	2.5	N.D.
cis-1,2-Dichloroethene	1.0	N.D.
trans-1,2-Dichloroethene	1.0	N.D.
1,2-Dichloropropane	1.0	N.D.
cis-1,3-Dichloropropene	1.0	N.D.
trans-1,3-Dichloropropene	1.0	N.D.
Ethylbenzene	1.0	N.D.
2-Hexanone	5.0	N.D.
Methylene chloride	5.0	N.D.
4-Methyl-2-pentanone	2.5	N.D.
Styrene	1.0	N.D.
1,1,2,2-Tetrachloroethane	1.0	N.D.
Tetrachloroethene	1.0	N.D.
Toluene	1.0	N.D.
1,1,1-Trichloroethane	1.0	N.D.
1,1,2-Trichloroethane	1.0	N.D.
Trichloroethene	1.0	N.D.
Trichlorofluoromethane	2.5	N.D.
Vinyl acetate	2.5	N.D.
Vinyl chloride	2.5	N.D.
Total Xylenes	1.0	N.D.

Analytes reported as N.D. were not present above the stated limit of detection.

DEL MAR ANALYTICAL, IRVINE (ELAP #1197)

Gary Steube
Laboratory Director

Surrogate Standard Recoveries (Accept. Limits):	
1,2-Dichloroethane-d4 (70-121)	105%
Toluene-d8 (81-117)	99%
4-Bromofluorobenzene (74-121)	95%

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2465 W. 12th St., Suite 1, Tempe, AZ 85281 (602) 968-8272 FAX (602) 968-1338

Harding Lawson Associates
3 Hutton Centre, Suite 300
Santa Ana, CA 92707
Attention: Andrew Keller

Client Project ID: 32026.49
Omega/Whittier
Sample Descript: Wipe, T22-8240
Lab Number: EH04070

Sampled: Aug 24, 1995
Received: Aug 24, 1995
Extracted: Aug 26, 1995
Analyzed: Aug 26, 1995
Reported: Aug 28, 1995

VOLATILE ORGANICS by GC/MS (EPA 8240)

Analyte	Detection Limit µg/Wipe	Sample Result µg/Wipe
Acetone	5.0	N.D.
Benzene	1.0	N.D.
Bromodichloromethane	1.0	N.D.
Bromoform	1.0	N.D.
Bromomethane	2.5	N.D.
2-Butanone	5.0	N.D.
Carbon disulfide	2.5	N.D.
Carbon tetrachloride	2.5	N.D.
Chlorobenzene	1.0	N.D.
Chlorodibromomethane	1.0	N.D.
Chloroethane	2.5	N.D.
2-Chloroethyl vinyl ether	1.0	N.D.
Chloroform	1.0	N.D.
Chloromethane	2.5	N.D.
1,1-Dichloroethane	1.0	N.D.
1,2-Dichloroethane	1.0	N.D.
1,1-Dichloroethene	2.5	N.D.
cis-1,2-Dichloroethene	1.0	N.D.
trans-1,2-Dichloroethene	1.0	N.D.
1,2-Dichloropropane	1.0	N.D.
cis-1,3-Dichloropropene	1.0	N.D.
trans-1,3-Dichloropropene	1.0	N.D.
Ethylbenzene	1.0	N.D.
2-Hexanone	5.0	N.D.
Methylene chloride	5.0	N.D.
4-Methyl-2-pentanone	2.5	N.D.
Styrene	1.0	N.D.
1,1,2,2-Tetrachloroethane	1.0	N.D.
Tetrachloroethene	1.0	N.D.
Toluene	1.0	N.D.
1,1,1-Trichloroethane	1.0	N.D.
1,1,2-Trichloroethane	1.0	N.D.
Trichloroethene	1.0	N.D.
Trichlorofluoromethane	2.5	N.D.
Vinyl acetate	2.5	N.D.
Vinyl chloride	2.5	N.D.
Total Xylenes	1.0	N.D.

Analytes reported as N.D. were not present above the stated limit of detection.

DEL MAR ANALYTICAL, IRVINE (ELAP #1197)

Gary Stetbe
Laboratory Director

Surrogate Standard Recoveries (Accept. Limits):	
1,2-Dichloroethane-d4 (70-121).....	102%
Toluene-d8 (81-117).....	98%
4-Bromofluorobenzene (74-121).....	94%

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2465 W. 12th St., Suite 1, Tempe, AZ 85281 (602) 968-8272 FAX (602) 968-1338

Harding Lawson Associates
3 Hutton Centre, Suite 300
Santa Ana, CA 92707
Attention: Andrew Keller

Client Project ID: 32026.49
Omega/Whittier
Sample Descript: Wipe, T21-8240
Lab Number: EH04071

Sampled: Aug 24, 1995
Received: Aug 24, 1995
Extracted: Aug 26, 1995
Analyzed: Aug 26, 1995
Reported: Aug 28, 1995

VOLATILE ORGANICS by GC/MS (EPA 8240)

Analyte	Detection Limit µg/Wipe	Sample Result µg/Wipe
Acetone	5.0	N.D.
Benzene	1.0	N.D.
Bromodichloromethane	1.0	N.D.
Bromoform	1.0	N.D.
Bromomethane	2.5	N.D.
2-Butanone	5.0	N.D.
Carbon disulfide	2.5	N.D.
Carbon tetrachloride	2.5	N.D.
Chlorobenzene	1.0	N.D.
Chlorodibromomethane	1.0	N.D.
Chloroethane	2.5	N.D.
2-Chloroethyl vinyl ether	1.0	N.D.
Chloroform	1.0	N.D.
Chloromethane	2.5	N.D.
1,1-Dichloroethane	1.0	N.D.
1,2-Dichloroethane	1.0	N.D.
1,1-Dichloroethene	2.5	N.D.
cis-1,2-Dichloroethene	1.0	N.D.
trans-1,2-Dichloroethene	1.0	N.D.
1,2-Dichloropropane	1.0	N.D.
cis-1,3-Dichloropropene	1.0	N.D.
trans-1,3-Dichloropropene	1.0	N.D.
Ethylbenzene	1.0	N.D.
2-Hexanone	5.0	N.D.
Methylene chloride	5.0	N.D.
4-Methyl-2-pentanone	2.5	N.D.
Styrene	1.0	N.D.
1,1,2,2-Tetrachloroethane	1.0	N.D.
Tetrachloroethene	1.0	N.D.
Toluene	1.0	N.D.
1,1,1-Trichloroethane	1.0	N.D.
1,1,2-Trichloroethane	1.0	N.D.
Trichloroethene	1.0	N.D.
Trichlorofluoromethane	2.5	N.D.
Vinyl acetate	2.5	N.D.
Vinyl chloride	2.5	N.D.
Total Xylenes	1.0	N.D.

Analytes reported as N.D. were not present above the stated limit of detection.

DEL MAR ANALYTICAL, IRVINE (ELAP #1197)

Gary Steube
Laboratory Director

Surrogate Standard Recoveries (Accept. Limits):	
1,2-Dichloroethane-d4 (70-121).....	103%
Toluene-d8 (81-117).....	95%
4-Bromofluorobenzene (74-121).....	95%

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Harding Lawson Associates
3 Hutton Centre, Suite 300
Santa Ana, CA 92707
Attention: Andrew Keller

Client Project ID: 32026.49
Omega/Whittier
Sample Descript: Wipe, T20-8240
Lab Number: EH04078

Sampled: Aug 24, 19
Received: Aug 24, 1995
Extracted: Aug 26, 1995
Analyzed: Aug 26, 1995
Reported: Aug 28, 1995

VOLATILE ORGANICS by GC/MS (EPA 8240)

Analyte	Detection Limit µg/Wipe	Sample Result µg/Wipe
Acetone	5.0	N.D.
Benzene	1.0	N.D.
Bromodichloromethane	1.0	N.D.
Bromoform	1.0	N.D.
Bromomethane	2.5	N.D.
2-Butanone	5.0	N.D.
Carbon disulfide	2.5	N.D.
Carbon tetrachloride	2.5	N.D.
Chlorobenzene	1.0	N.D.
Chlorodibromomethane	1.0	N.D.
Chloroethane	2.5	N.D.
2-Chloroethyl vinyl ether	1.0	N.D.
Chloroform	1.0	N.D.
Chloromethane	2.5	N.D.
1,1-Dichloroethane	1.0	N.D.
1,2-Dichloroethane	1.0	N.D.
1,1-Dichloroethene	2.5	N.D.
cis-1,2-Dichloroethene	1.0	N.D.
trans-1,2-Dichloroethene	1.0	N.D.
1,2-Dichloropropane	1.0	N.D.
cis-1,3-Dichloropropene	1.0	N.D.
trans-1,3-Dichloropropene	1.0	N.D.
Ethylbenzene	1.0	N.D.
2-Hexanone	5.0	N.D.
Methylene chloride	5.0	N.D.
4-Methyl-2-pentanone	2.5	N.D.
Styrene	1.0	N.D.
1,1,2,2-Tetrachloroethane	1.0	N.D.
Tetrachloroethene	1.0	N.D.
Toluene	1.0	N.D.
1,1,1-Trichloroethane	1.0	N.D.
1,1,2-Trichloroethane	1.0	N.D.
Trichloroethene	1.0	N.D.
Trichlorofluoromethane	2.5	N.D.
Vinyl acetate	2.5	N.D.
Vinyl chloride	2.5	N.D.
Total Xylenes	1.0	N.D.

Analytes reported as N.D. were not present above the stated limit of detection.

DEL MAR ANALYTICAL, IRVINE (ELAP #1197)

Gary Steube
Laboratory Director

Surrogate Standard Recoveries (Accept. Limits):	
1,2-Dichloroethane-d4 (70-121)	106%
Toluene-d8 (81-117)	97%
4-Bromofluorobenzene (74-121)	95%

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Harding Lawson Associates
3 Hutton Centre, Suite 300
Santa Ana, CA 92707
Attention: Andrew Keller

Client Project ID: 32026.49
Omega/Whittier
Sample Descript: Wipe, T23-8240
Lab Number: EH04081

Sampled: Aug 24, 1995
Received: Aug 24, 1995
Extracted: Aug 26, 1995
Analyzed: Aug 26, 1995
Reported: Aug 28, 1995

VOLATILE ORGANICS by GC/MS (EPA 8240)

Analyte	Detection Limit µg/Wipe	Sample Result µg/Wipe
Acetone	5.0	N.D.
Benzene	1.0	N.D.
Bromodichloromethane	1.0	N.D.
Bromoform	1.0	N.D.
Bromomethane	2.5	N.D.
2-Butanone	5.0	N.D.
Carbon disulfide	2.5	N.D.
Carbon tetrachloride	2.5	N.D.
Chlorobenzene	1.0	N.D.
Chlorodibromomethane	1.0	N.D.
Chloroethane	2.5	N.D.
2-Chloroethyl vinyl ether	1.0	N.D.
Chloroform	1.0	N.D.
Chloromethane	2.5	N.D.
1,1-Dichloroethane	1.0	N.D.
1,2-Dichloroethane	1.0	N.D.
1,1-Dichloroethene	2.5	N.D.
cis-1,2-Dichloroethene	1.0	N.D.
trans-1,2-Dichloroethene	1.0	N.D.
1,2-Dichloropropane	1.0	N.D.
cis-1,3-Dichloropropene	1.0	N.D.
trans-1,3-Dichloropropene	1.0	N.D.
Ethylbenzene	1.0	N.D.
2-Hexanone	5.0	N.D.
Methylene chloride	5.0	N.D.
4-Methyl-2-pentanone	2.5	N.D.
Styrene	1.0	N.D.
1,1,2,2-Tetrachloroethane	1.0	N.D.
Tetrachloroethene	1.0	N.D.
Toluene	1.0	N.D.
1,1,1-Trichloroethane	1.0	N.D.
1,1,2-Trichloroethane	1.0	N.D.
Trichloroethene	1.0	N.D.
Trichlorofluoromethane	2.5	N.D.
Vinyl acetate	2.5	N.D.
Vinyl chloride	2.5	N.D.
Total Xylenes	1.0	N.D.

Analytes reported as N.D. were not present above the stated limit of detection.

DEL MAR ANALYTICAL, IRVINE (ELAP #1197)

Gary Steube
Laboratory Director

Surrogate Standard Recoveries (Accept. Limits):	
1,2-Dichloroethane-d4 (70-121)	105%
Toluene-d8 (81-117)	96%
4-Bromofluorobenzene (74-121)	94%

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Harding Lawson Associates
3 Hutton Centre, Suite 300
Santa Ana, CA 92707
Attention: Andrew Keller

Client Project ID: 32026.49
Omega/Whittier
Sample Descript: Wipe, East Bin-8270
Lab Number: EH04044

Sampled: Aug 24, 199
Received: Aug 24, 1995
Extracted: Aug 25, 1995
Analyzed: Aug 25, 1995
Reported: Aug 28, 1995

SEMI-VOLATILE ORGANICS by GC/MS (EPA 3550/8270)

Analyte	Detection Limit µg/Wipe	Sample Result µg/Wipe	Analyte	Detection Limit µg/Wipe	Sample Result µg/Wipe
Acenaphthene	5.0	N.D.	Dimethyl phthalate	5.0	N.D.
Acenaphthylene	5.0	N.D.	4,6-Dinitro-2-methylphenol	13	N.D.
Aniline	7.5	N.D.	2,4-Dinitrophenol	13	N.D.
Anthracene	5.0	N.D.	2,4-Dinitrotoluene	5.0	N.D.
Azobenzene	7.5	N.D.	2,6-Dinitrotoluene	5.0	N.D.
Benzidine	50	N.D.	Di-N-octyl phthalate	25	N.D.
Benzoic Acid	25	N.D.	Fluoranthene	5.0	N.D.
Benz(a)anthracene	5.0	N.D.	Fluorene	5.0	N.D.
Benzo(b)fluoranthene	10	N.D.	Hexachlorobenzene	5.0	N.D.
Benzo(k)fluoranthene	10	N.D.	Hexachlorobutadiene	5.0	N.D.
Benzo(g,h,i)perylene	7.5	N.D.	Hexachlorocyclopentadiene	25	N.D.
Benzo(a)pyrene	10	N.D.	Hexachloroethane	10	N.D.
Benzyl alcohol	10	N.D.	Indeno(1,2,3-cd)pyrene	10	N.D.
Bis(2-chloroethoxy)methane	5.0	N.D.	Isophorone	5.0	N.D.
Bis(2-chloroethyl)ether	5.0	N.D.	2-Methylnaphthalene	5.0	N.D.
Bis(2-chloroisopropyl)ether	5.0	N.D.	2-Methylphenol	7.5	N.D.
Bis(2-ethylhexyl)phthalate	13	N.D.	4-Methylphenol	7.5	N.D.
4-Bromophenyl phenyl ether	7.5	N.D.	Naphthalene	7.5	N.D.
Butyl benzyl phthalate	25	N.D.	2-Nitroaniline	10	N.D.
4-Chloroaniline	5.0	N.D.	3-Nitroaniline	10	N.D.
2-Chloronaphthalene	5.0	N.D.	4-Nitroaniline	25	N.D.
4-Chloro-3-methylphenol	5.0	N.D.	Nitrobenzene	25	N.D.
2-Chlorophenol	13	N.D.	2-Nitrophenol	5.0	N.D.
4-Chlorophenyl phenyl ether	5.0	N.D.	4-Nitrophenol	25	N.D.
Chrysene	5.0	N.D.	N-Nitrosodiphenylamine	10	N.D.
Dibenz(a,h)anthracene	13	N.D.	N-Nitroso-di-N-propylamine	7.5	N.D.
Dibenzofuran	5.0	N.D.	Pentachlorophenol	25	N.D.
Di-N-butyl phthalate	13	N.D.	Phenanthrene	5.0	N.D.
1,3-Dichlorobenzene	5.0	N.D.	Phenol	7.5	N.D.
1,4-Dichlorobenzene	5.0	N.D.	Pyrene	7.5	N.D.
1,2-Dichlorobenzene	5.0	N.D.	1,2,4-Trichlorobenzene	5.0	N.D.
3,3-Dichlorobenzidine	25	N.D.	2,4,5-Trichlorophenol	7.5	N.D.
2,4-Dichlorophenol	5.0	N.D.	2,4,6-Trichlorophenol	7.5	N.D.
Diethyl phthalate	5.0	N.D.			
2,4-Dimethylphenol	13	N.D.			

Analytes reported as N.D. were not present above the stated limit of detection.

Surrogate Standard Recoveries (Accept. Limits):	
2-Fluorophenol (25-121)	72%
Phenol-d6 (24-113)	71%
2,4,6-Tribromophenol (19-122)	81%
Nitrobenzene-d5 (23-120)	75%
2-Fluorobiphenyl (30-115)	76%
Terphenyl-d14 (18-137)	78%

DEL MAR ANALYTICAL, IRVINE (ELAP #1197)

Gary Steube
Laboratory Director

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Harding Lawson Associates
3 Hutton Centre, Suite 300
Santa Ana, CA 92707
Attention: Andrew Keller

Client Project ID: 32026.49
Omega/Whittier
Sample Descript: Wipe, West Bin-8270
Lab Number: EH04047

Sampled: Aug 24, 1995
Received: Aug 24, 1995
Extracted: Aug 25, 1995
Analyzed: Aug 25, 1995
Reported: Aug 28, 1995

SEMI-VOLATILE ORGANICS by GC/MS (EPA 3550/8270)

Analyte	Detection Limit µg/Wipe	Sample Result µg/Wipe	Analyte	Detection Limit µg/Wipe	Sample Result µg/Wipe
Acenaphthene	5.0	N.D.	Dimethyl phthalate	5.0	N.D.
Acenaphthylene	5.0	N.D.	4,6-Dinitro-2-methylphenol	13	N.D.
Aniline	7.5	N.D.	2,4-Dinitrophenol	13	N.D.
Anthracene	5.0	N.D.	2,4-Dinitrotoluene	5.0	N.D.
Azobenzene	7.5	N.D.	2,6-Dinitrotoluene	5.0	N.D.
Benzidine	50	N.D.	Di-N-octyl phthalate	25	N.D.
Benzoic Acid	25	N.D.	Fluoranthene	5.0	N.D.
Benz(a)anthracene	5.0	N.D.	Fluorene	5.0	N.D.
Benzo(b)fluoranthene	10	N.D.	Hexachlorobenzene	5.0	N.D.
Benzo(k)fluoranthene	10	N.D.	Hexachlorobutadiene	5.0	N.D.
Benzo(g,h,i)perylene	7.5	N.D.	Hexachlorocyclopentadiene	25	N.D.
Benzo(a)pyrene	10	N.D.	Hexachloroethane	10	N.D.
Benzyl alcohol	10	N.D.	Indeno(1,2,3-cd)pyrene	10	N.D.
Bis(2-chloroethoxy)methane	5.0	N.D.	Isophorone	5.0	N.D.
Bis(2-chloroethyl)ether	5.0	N.D.	2-Methylnaphthalene	5.0	N.D.
Bis(2-chloroisopropyl)ether	5.0	N.D.	2-Methylphenol	7.5	N.D.
Bis(2-ethylhexyl)phthalate	13	N.D.	4-Methylphenol	7.5	N.D.
4-Bromophenyl phenyl ether	7.5	N.D.	Naphthalene	7.5	N.D.
Butyl benzyl phthalate	25	N.D.	2-Nitroaniline	10	N.D.
4-Chloroaniline	5.0	N.D.	3-Nitroaniline	10	N.D.
2-Chloronaphthalene	5.0	N.D.	4-Nitroaniline	25	N.D.
4-Chloro-3-methylphenol	5.0	N.D.	Nitrobenzene	25	N.D.
2-Chlorophenol	13	N.D.	2-Nitrophenol	5.0	N.D.
4-Chlorophenyl phenyl ether	5.0	N.D.	4-Nitrophenol	25	N.D.
Chrysene	5.0	N.D.	N-Nitrosodiphenylamine	10	N.D.
Dibenz(a,h)anthracene	13	N.D.	N-Nitroso-di-N-propylamine	7.5	N.D.
Dibenzofuran	5.0	N.D.	Pentachlorophenol	25	N.D.
Di-N-butyl phthalate	13	N.D.	Phenanthrene	5.0	N.D.
1,3-Dichlorobenzene	5.0	N.D.	Phenol	7.5	N.D.
1,4-Dichlorobenzene	5.0	N.D.	Pyrene	7.5	N.D.
1,2-Dichlorobenzene	5.0	N.D.	1,2,4-Trichlorobenzene	5.0	N.D.
3,3-Dichlorobenzidine	25	N.D.	2,4,5-Trichlorophenol	7.5	N.D.
2,4-Dichlorophenol	5.0	N.D.	2,4,6-Trichlorophenol	7.5	N.D.
Diethyl phthalate	5.0	N.D.			
2,4-Dimethylphenol	13	N.D.			

Analytes reported as N.D. were not present above the stated limit of detection.

Surrogate Standard Recoveries (Accept. Limits):	
2-Fluorophenol (25-121)	66%
Phenol-d6 (24-113)	67%
2,4,6-Tribromophenol (19-122)	75%
Nitrobenzene-d5 (23-120)	69%
2-Fluorobiphenyl (30-115)	71%
Terphenyl-d14 (18-137)	76%

DEL MAR ANALYTICAL, IRVINE (ELAP #1197)

Gary Steube
Laboratory Director

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2465 W. 12th St., Suite 1, Tempe, AZ 85281 (602) 968-8272 FAX (602) 968-1338

Harding Lawson Associates
3 Hutton Centre, Suite 300
Santa Ana, CA 92707
Attention: Andrew Keller

Client Project ID: 32026.49
Omega/Whittier
Sample Descript: Wipe, P13-8270
Lab Number: EH04051

Sampled: Aug 24, 199
Received: Aug 24, 1995
Extracted: Aug 25, 1995
Analyzed: Aug 25, 1995
Reported: Aug 28, 1995

SEMI-VOLATILE ORGANICS by GC/MS (EPA 3550/8270)

Analyte	Detection Limit µg/Wipe	Sample Result µg/Wipe	Analyte	Detection Limit µg/Wipe	Sample Result µg/Wipe
Acenaphthene	5.0	N.D.	Dimethyl phthalate	5.0	N.D.
Acenaphthylene	5.0	N.D.	4,6-Dinitro-2-methylphenol	13	N.D.
Aniline	7.5	N.D.	2,4-Dinitrophenol	13	N.D.
Anthracene	5.0	N.D.	2,4-Dinitrotoluene	5.0	N.D.
Azobenzene	7.5	N.D.	2,6-Dinitrotoluene	5.0	N.D.
Benzidine	50	N.D.	Di-N-octyl phthalate	25	N.D.
Benzoic Acid	25	N.D.	Fluoranthene	5.0	N.D.
Benz(a)anthracene	5.0	N.D.	Fluorene	5.0	N.D.
Benzo(b)fluoranthene	10	N.D.	Hexachlorobenzene	5.0	N.D.
Benzo(k)fluoranthene	10	N.D.	Hexachlorobutadiene	5.0	N.D.
Benzo(g,h,i)perylene	7.5	N.D.	Hexachlorocyclopentadiene	25	N.D.
Benzo(a)pyrene	10	N.D.	Hexachloroethane	10	N.D.
Benzyl alcohol	10	N.D.	Indeno(1,2,3-cd)pyrene	10	N.D.
Bis(2-chloroethoxy)methane	5.0	N.D.	Isophorone	5.0	N.D.
Bis(2-chloroethyl)ether	5.0	N.D.	2-Methylnaphthalene	5.0	N.D.
Bis(2-chloroisopropyl)ether	5.0	N.D.	2-Methylphenol	7.5	N.D.
Bis(2-ethylhexyl)phthalate	13	N.D.	4-Methylphenol	7.5	N.D.
4-Bromophenyl phenyl ether	7.5	N.D.	Naphthalene	7.5	N.D.
Butyl benzyl phthalate	25	N.D.	2-Nitroaniline	10	N.D.
4-Chloroaniline	5.0	N.D.	3-Nitroaniline	10	N.D.
2-Chloronaphthalene	5.0	N.D.	4-Nitroaniline	25	N.D.
4-Chloro-3-methylphenol	5.0	N.D.	Nitrobenzene	25	N.D.
2-Chlorophenol	13	N.D.	2-Nitrophenol	5.0	N.D.
4-Chlorophenyl phenyl ether	5.0	N.D.	4-Nitrophenol	25	N.D.
Chrysene	5.0	N.D.	N-Nitrosodiphenylamine	10	N.D.
Dibenz(a,h)anthracene	13	N.D.	N-Nitroso-di-N-propylamine	7.5	N.D.
Dibenzofuran	5.0	N.D.	Pentachlorophenol	25	N.D.
Di-N-butyl phthalate	13	N.D.	Phenanthrene	5.0	N.D.
1,3-Dichlorobenzene	5.0	N.D.	Phenol	7.5	N.D.
1,4-Dichlorobenzene	5.0	N.D.	Pyrene	7.5	N.D.
1,2-Dichlorobenzene	5.0	N.D.	1,2,4-Trichlorobenzene	5.0	N.D.
3,3-Dichlorobenzidine	25	N.D.	2,4,5-Trichlorophenol	7.5	N.D.
2,4-Dichlorophenol	5.0	N.D.	2,4,6-Trichlorophenol	7.5	N.D.
Diethyl phthalate	5.0	N.D.			
2,4-Dimethylphenol	13	N.D.			

Analytes reported as N.D. were not present above the stated limit of detection.

Surrogate Standard Recoveries (Accept. Limits):	
2-Fluorophenol (25-121)	65%
Phenol-d6 (24-113)	67%
2,4,6-Tribromophenol (19-122)	75%
Nitrobenzene-d5 (23-120)	68%
2-Fluorobiphenyl (30-115)	73%
Terphenyl-d14 (18-137)	76%

DEL MAR ANALYTICAL, IRVINE (ELAP #1197)

Gary Steube
Laboratory Director

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Harding Lawson Associates
3 Hutton Centre, Suite 300
Santa Ana, CA 92707
Attention: Andrew Keller

Client Project ID: 32026.49
Omega/Whittier
Sample Descript: Wipe, P14-8270
Lab Number: EH04052

Sampled: Aug 24, 1995
Received: Aug 24, 1995
Extracted: Aug 25, 1995
Analyzed: Aug 25, 1995
Reported: Aug 28, 1995

SEMI-VOLATILE ORGANICS by GC/MS (EPA 3550/8270)

Analyte	Detection Limit µg/Wipe	Sample Result µg/Wipe	Analyte	Detection Limit µg/Wipe	Sample Result µg/Wipe
Acenaphthene	5.0	N.D.	Dimethyl phthalate	5.0	N.D.
Acenaphthylene	5.0	N.D.	4,6-Dinitro-2-methylphenol	13	N.D.
Aniline	7.5	N.D.	2,4-Dinitrophenol	13	N.D.
Anthracene	5.0	N.D.	2,4-Dinitrotoluene	5.0	N.D.
Azobenzene	7.5	N.D.	2,6-Dinitrotoluene	5.0	N.D.
Benzidine	50	N.D.	Di-N-octyl phthalate	25	N.D.
Benzoic Acid	25	N.D.	Fluoranthene	5.0	N.D.
Benz(a)anthracene	5.0	N.D.	Fluorene	5.0	N.D.
Benzo(b)fluoranthene	10	N.D.	Hexachlorobenzene	5.0	N.D.
Benzo(k)fluoranthene	10	N.D.	Hexachlorobutadiene	5.0	N.D.
Benzo(g,h,i)perylene	7.5	N.D.	Hexachlorocyclopentadiene	25	N.D.
Benzo(a)pyrene	10	N.D.	Hexachloroethane	10	N.D.
Benzyl alcohol	10	N.D.	Indeno(1,2,3-cd)pyrene	10	N.D.
Bis(2-chloroethoxy)methane	5.0	N.D.	Isophorone	5.0	N.D.
Bis(2-chloroethyl)ether	5.0	N.D.	2-Methylnaphthalene	5.0	N.D.
Bis(2-chloroisopropyl)ether	5.0	N.D.	2-Methylphenol	7.5	N.D.
Bis(2-ethylhexyl)phthalate	13	N.D.	4-Methylphenol	7.5	N.D.
4-Bromophenyl phenyl ether	7.5	N.D.	Naphthalene	7.5	N.D.
Butyl benzyl phthalate	25	N.D.	2-Nitroaniline	10	N.D.
4-Chloroaniline	5.0	N.D.	3-Nitroaniline	10	N.D.
2-Chloronaphthalene	5.0	N.D.	4-Nitroaniline	25	N.D.
4-Chloro-3-methylphenol	5.0	N.D.	Nitrobenzene	25	N.D.
2-Chlorophenol	13	N.D.	2-Nitrophenol	5.0	N.D.
4-Chlorophenyl phenyl ether	5.0	N.D.	4-Nitrophenol	25	N.D.
Chrysene	5.0	N.D.	N-Nitrosodiphenylamine	10	N.D.
Dibenz(a,h)anthracene	13	N.D.	N-Nitroso-di-N-propylamine	7.5	N.D.
Dibenzofuran	5.0	N.D.	Pentachlorophenol	25	N.D.
Di-N-butyl phthalate	13	N.D.	Phenanthrene	5.0	N.D.
1,3-Dichlorobenzene	5.0	N.D.	Phenol	7.5	N.D.
1,4-Dichlorobenzene	5.0	N.D.	Pyrene	7.5	N.D.
1,2-Dichlorobenzene	5.0	N.D.	1,2,4-Trichlorobenzene	5.0	N.D.
3,3-Dichlorobenzidine	25	N.D.	2,4,5-Trichlorophenol	7.5	N.D.
2,4-Dichlorophenol	5.0	N.D.	2,4,6-Trichlorophenol	7.5	N.D.
Diethyl phthalate	**5.0**	**27**			
2,4-Dimethylphenol	13	N.D.			

Analytes reported as N.D. were not present above the stated limit of detection.

Surrogate Standard Recoveries (Accept. Limits):	
2-Fluorophenol (25-121)	72%
Phenol-d6 (24-113)	72%
2,4,6-Tribromophenol (19-122)	80%
Nitrobenzene-d5 (23-120)	70%
2-Fluorobiphenyl (30-115)	75%
Terphenyl-d14 (18-137)	81%

DEL MAR ANALYTICAL, IRVINE (ELAP #1197)

Gary Stetube
Laboratory Director

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Harding Lawson Associates
3 Hutton Centre, Suite 300
Santa Ana, CA 92707
Attention: Andrew Keller

Client Project ID: 32026.49
Omega/Whittier
Sample Descript: Wipe, P15-8270
Lab Number: EH04055

Sampled: Aug 24, 199
Received: Aug 24, 1995
Extracted: Aug 25, 1995
Analyzed: Aug 25, 1995
Reported: Aug 28, 1995

SEMI-VOLATILE ORGANICS by GC/MS (EPA 3550/8270)

Analyte	Detection Limit µg/Wipe	Sample Result µg/Wipe	Analyte	Detection Limit µg/Wipe	Sample Result µg/Wipe
Acenaphthene	5.0	N.D.	Dimethyl phthalate	5.0	N.D.
Acenaphthylene	5.0	N.D.	4,6-Dinitro-2-methylphenol	13	N.D.
Aniline	7.5	N.D.	2,4-Dinitrophenol	13	N.D.
Anthracene	5.0	N.D.	2,4-Dinitrotoluene	5.0	N.D.
Azobenzene	7.5	N.D.	2,6-Dinitrotoluene	5.0	N.D.
Benzidine	50	N.D.	Di-N-octyl phthalate	25	N.D.
Benzoic Acid	25	N.D.	Fluoranthene	5.0	N.D.
Benz(a)anthracene	5.0	N.D.	Fluorene	5.0	N.D.
Benzo(b)fluoranthene	10	N.D.	Hexachlorobenzene	5.0	N.D.
Benzo(k)fluoranthene	10	N.D.	Hexachlorobutadiene	5.0	N.D.
Benzo(g,h,i)perylene	7.5	N.D.	Hexachlorocyclopentadiene	25	N.D.
Benzo(a)pyrene	10	N.D.	Hexachloroethane	10	N.D.
Benzyl alcohol	10	N.D.	Indeno(1,2,3-cd)pyrene	10	N.D.
Bis(2-chloroethoxy)methane	5.0	N.D.	Isophorone	5.0	N.D.
Bis(2-chloroethyl)ether	5.0	N.D.	2-Methylnaphthalene	5.0	N.D.
Bis(2-chloroisopropyl)ether	5.0	N.D.	2-Methylphenol	7.5	N.D.
Bis(2-ethylhexyl)phthalate	13	N.D.	4-Methylphenol	7.5	N.D.
4-Bromophenyl phenyl ether	7.5	N.D.	Naphthalene	7.5	N.D.
Butyl benzyl phthalate	25	N.D.	2-Nitroaniline	10	N.D.
4-Chloroaniline	5.0	N.D.	3-Nitroaniline	10	N.D.
2-Chloronaphthalene	5.0	N.D.	4-Nitroaniline	25	N.D.
4-Chloro-3-methylphenol	5.0	N.D.	Nitrobenzene	25	N.D.
2-Chlorophenol	13	N.D.	2-Nitrophenol	5.0	N.D.
4-Chlorophenyl phenyl ether	5.0	N.D.	4-Nitrophenol	25	N.D.
Chrysene	5.0	N.D.	N-Nitrosodiphenylamine	10	N.D.
Dibenz(a,h)anthracene	13	N.D.	N-Nitroso-di-N-propylamine	7.5	N.D.
Dibenzofuran	5.0	N.D.	Pentachlorophenol	25	N.D.
Di-N-butyl phthalate	13	N.D.	Phenanthrene	5.0	N.D.
1,3-Dichlorobenzene	5.0	N.D.	Phenol	7.5	N.D.
1,4-Dichlorobenzene	5.0	N.D.	Pyrene	7.5	N.D.
1,2-Dichlorobenzene	5.0	N.D.	1,2,4-Trichlorobenzene	5.0	N.D.
3,3-Dichlorobenzidine	25	N.D.	2,4,5-Trichlorophenol	7.5	N.D.
2,4-Dichlorophenol	5.0	N.D.	2,4,6-Trichlorophenol	7.5	N.D.
Diethyl phthalate	5.0	N.D.			
2,4-Dimethylphenol	13	N.D.			

Analytes reported as N.D. were not present above the stated limit of detection.

Surrogate Standard Recoveries (Accept. Limits):	
2-Fluorophenol (25-121)	68%
Phenol-d6 (24-113)	69%
2,4,6-Tribromophenol (19-122)	80%
Nitrobenzene-d5 (23-120)	68%
2-Fluorobiphenyl (30-115)	72%
Terphenyl-d14 (18-137)	79%

DEL MAR ANALYTICAL, IRVINE (ELAP #1197)

Gary Steube
Laboratory Director

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Harding Lawson Associates
3 Hutton Centre, Suite 300
Santa Ana, CA 92707
Attention: Andrew Keller

Client Project ID: 32026.49
Omega/Whittier
Sample Descript: Wipe, P16-8270
Lab Number: EH04059

Sampled: Aug 24, 1995
Received: Aug 24, 1995
Extracted: Aug 25, 1995
Analyzed: Aug 25, 1995
Reported: Aug 28, 1995

SEMI-VOLATILE ORGANICS by GC/MS (EPA 3550/8270)

Analyte	Detection Limit µg/Wipe	Sample Result µg/Wipe	Analyte	Detection Limit µg/Wipe	Sample Result µg/Wipe
Acenaphthene	5.0	N.D.	Dimethyl phthalate	5.0	N.D.
Acenaphthylene	5.0	N.D.	4,6-Dinitro-2-methylphenol	13	N.D.
Aniline	7.5	N.D.	2,4-Dinitrophenol	13	N.D.
Anthracene	5.0	N.D.	2,4-Dinitrotoluene	5.0	N.D.
Azobenzene	7.5	N.D.	2,6-Dinitrotoluene	5.0	N.D.
Benzidine	50	N.D.	Di-N-octyl phthalate	25	N.D.
Benzoic Acid	25	N.D.	Fluoranthene	5.0	N.D.
Benz(a)anthracene	5.0	N.D.	Fluorene	5.0	N.D.
Benzo(b)fluoranthene	10	N.D.	Hexachlorobenzene	5.0	N.D.
Benzo(k)fluoranthene	10	N.D.	Hexachlorobutadiene	5.0	N.D.
Benzo(g,h,i)perylene	7.5	N.D.	Hexachlorocyclopentadiene	25	N.D.
Benzo(a)pyrene	10	N.D.	Hexachloroethane	10	N.D.
Benzyl alcohol	10	N.D.	Indeno(1,2,3-cd)pyrene	10	N.D.
Bis(2-chloroethoxy)methane	5.0	N.D.	Isophorone	5.0	N.D.
Bis(2-chloroethyl)ether	5.0	N.D.	2-Methylnaphthalene	5.0	N.D.
Bis(2-chloroisopropyl)ether	5.0	N.D.	2-Methylphenol	7.5	N.D.
Bis(2-ethylhexyl)phthalate	13	N.D.	4-Methylphenol	7.5	N.D.
4-Bromophenyl phenyl ether	7.5	N.D.	Naphthalene	7.5	N.D.
Butyl benzyl phthalate	25	N.D.	2-Nitroaniline	10	N.D.
4-Chloroaniline	5.0	N.D.	3-Nitroaniline	10	N.D.
2-Chloronaphthalene	5.0	N.D.	4-Nitroaniline	25	N.D.
4-Chloro-3-methylphenol	5.0	N.D.	Nitrobenzene	25	N.D.
2-Chlorophenol	13	N.D.	2-Nitrophenol	5.0	N.D.
4-Chlorophenyl phenyl ether	5.0	N.D.	4-Nitrophenol	25	N.D.
Chrysene	5.0	N.D.	N-Nitrosodiphenylamine	10	N.D.
Dibenz(a,h)anthracene	13	N.D.	N-Nitroso-di-N-propylamine	7.5	N.D.
Dibenzofuran	5.0	N.D.	Pentachlorophenol	25	N.D.
Di-N-butyl phthalate	13	N.D.	Phenanthrene	5.0	N.D.
1,3-Dichlorobenzene	5.0	N.D.	Phenol	7.5	N.D.
1,4-Dichlorobenzene	5.0	N.D.	Pyrene	7.5	N.D.
1,2-Dichlorobenzene	5.0	N.D.	1,2,4-Trichlorobenzene	5.0	N.D.
3,3-Dichlorobenzidine	25	N.D.	2,4,5-Trichlorophenol	7.5	N.D.
2,4-Dichlorophenol	5.0	N.D.	2,4,6-Trichlorophenol	7.5	N.D.
Diethyl phthalate	5.0	N.D.			
2,4-Dimethylphenol	13	N.D.			

Analytes reported as N.D. were not present above the stated limit of detection.

Surrogate Standard Recoveries (Accept. Limits):	
2-Fluorophenol (25-121)	68%
Phenol-d6 (24-113)	68%
2,4,6-Tribromophenol (19-122)	78%
Nitrobenzene-d5 (23-120)	70%
2-Fluorobiphenyl (30-115)	72%
Terphenyl-d14 (18-137)	77%

DEL MAR ANALYTICAL, IRVINE (ELAP #1197)

Gary Steube
Laboratory Director

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Harding Lawson Associates
3 Hutton Centre, Suite 300
Santa Ana, CA 92707
Attention: Andrew Keller

Client Project ID: 32026.49
Omega/Whittier
Sample Descript: Wipe, P17-8270
Lab Number: EH04061

Sampled: Aug 24, 19
Received: Aug 24, 1995
Extracted: Aug 25, 1995
Analyzed: Aug 25, 1995
Reported: Aug 28, 1995

SEMI-VOLATILE ORGANICS by GC/MS (EPA 3550/8270)

Analyte	Detection Limit µg/Wipe	Sample Result µg/Wipe	Analyte	Detection Limit µg/Wipe	Sample Result µg/Wipe
Acenaphthene	5.0	N.D.	Dimethyl phthalate	5.0	N.D.
Acenaphthylene	5.0	N.D.	4,6-Dinitro-2-methylphenol	13	N.D.
Aniline	7.5	N.D.	2,4-Dinitrophenol	13	N.D.
Anthracene	5.0	N.D.	2,4-Dinitrotoluene	5.0	N.D.
Azobenzene	7.5	N.D.	2,6-Dinitrotoluene	5.0	N.D.
Benzidine	50	N.D.	Di-N-octyl phthalate	25	N.D.
Benzoic Acid	25	N.D.	Fluoranthene	5.0	N.D.
Benz(a)anthracene	5.0	N.D.	Fluorene	5.0	N.D.
Benzo(b)fluoranthene	10	N.D.	Hexachlorobenzene	5.0	N.D.
Benzo(k)fluoranthene	10	N.D.	Hexachlorobutadiene	5.0	N.D.
Benzo(g,h,i)perylene	7.5	N.D.	Hexachlorocyclopentadiene	25	N.D.
Benzo(a)pyrene	10	N.D.	Hexachloroethane	10	N.D.
Benzyl alcohol	10	N.D.	Indeno(1,2,3-cd)pyrene	10	N.D.
Bis(2-chloroethoxy)methane	5.0	N.D.	Isophorone	5.0	N.D.
Bis(2-chloroethyl)ether	5.0	N.D.	2-Methylnaphthalene	5.0	N.D.
Bis(2-chloroisopropyl)ether	5.0	N.D.	2-Methylphenol	7.5	N.D.
Bis(2-ethylhexyl)phthalate	**13**	**69**	4-Methylphenol	7.5	N.D.
4-Bromophenyl phenyl ether	7.5	N.D.	Naphthalene	7.5	N.D.
Butyl benzyl phthalate	25	N.D.	2-Nitroaniline	10	N.D.
4-Chloroaniline	5.0	N.D.	3-Nitroaniline	10	N.D.
2-Chloronaphthalene	5.0	N.D.	4-Nitroaniline	25	N.D.
4-Chloro-3-methylphenol	5.0	N.D.	Nitrobenzene	25	N.D.
2-Chlorophenol	13	N.D.	2-Nitrophenol	5.0	N.D.
4-Chlorophenyl phenyl ether	5.0	N.D.	4-Nitrophenol	25	N.D.
Chrysene	5.0	N.D.	N-Nitrosodiphenylamine	10	N.D.
Dibenz(a,h)anthracene	13	N.D.	N-Nitroso-di-N-propylamine	7.5	N.D.
Dibenzofuran	5.0	N.D.	Pentachlorophenol	25	N.D.
Di-N-butyl phthalate	13	N.D.	Phenanthrene	5.0	N.D.
1,3-Dichlorobenzene	5.0	N.D.	Phenol	7.5	N.D.
1,4-Dichlorobenzene	5.0	N.D.	Pyrene	7.5	N.D.
1,2-Dichlorobenzene	5.0	N.D.	1,2,4-Trichlorobenzene	5.0	N.D.
3,3-Dichlorobenzidine	25	N.D.	2,4,5-Trichlorophenol	7.5	N.D.
2,4-Dichlorophenol	5.0	N.D.	2,4,6-Trichlorophenol	7.5	N.D.
Diethyl phthalate	5.0	N.D.			
2,4-Dimethylphenol	13	N.D.			

Analytes reported as N.D. were not present above the stated limit of detection.

Surrogate Standard Recoveries (Accept. Limits):	
2-Fluorophenol (25-121)	62%
Phenol-d6 (24-113)	63%
2,4,6-Tribromophenol (19-122)	74%
Nitrobenzene-d5 (23-120)	63%
2-Fluorobiphenyl (30-115)	69%
Terphenyl-d14 (18-137)	73%

DEL MAR ANALYTICAL, IRVINE (ELAP #1197)

Gary Steube
Laboratory Director

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2465 W. 12th St., Suite 1, Tempe, AZ 85281 (602) 968-8272 FAX (602) 968-1338

Harding Lawson Associates
3 Hutton Centre, Suite 300
Santa Ana, CA 92707
Attention: Andrew Keller

Client Project ID: 32026.49
Omega/Whittier
Sample Descript: Wipe, T19-8270
Lab Number: EH04065

Sampled: Aug 24, 1995
Received: Aug 24, 1995
Extracted: Aug 25, 1995
Analyzed: Aug 25, 1995
Reported: Aug 28, 1995

SEMI-VOLATILE ORGANICS by GC/MS (EPA 3550/8270)

Analyte	Detection Limit µg/Wipe	Sample Result µg/Wipe	Analyte	Detection Limit µg/Wipe	Sample Result µg/Wipe
Acenaphthene	5.0	N.D.	Dimethyl phthalate	5.0	N.D.
Acenaphthylene	5.0	N.D.	4,6-Dinitro-2-methylphenol	13	N.D.
Aniline	7.5	N.D.	2,4-Dinitrophenol	13	N.D.
Anthracene	5.0	N.D.	2,4-Dinitrotoluene	5.0	N.D.
Azobenzene	7.5	N.D.	2,6-Dinitrotoluene	5.0	N.D.
Benzidine	50	N.D.	Di-N-octyl phthalate	25	N.D.
Benzoic Acid	25	N.D.	Fluoranthene	5.0	N.D.
Benz(a)anthracene	5.0	N.D.	Fluorene	5.0	N.D.
Benzo(b)fluoranthene	10	N.D.	Hexachlorobenzene	5.0	N.D.
Benzo(k)fluoranthene	10	N.D.	Hexachlorobutadiene	5.0	N.D.
Benzo(g,h,i)perylene	7.5	N.D.	Hexachlorocyclopentadiene	25	N.D.
Benzo(a)pyrene	10	N.D.	Hexachloroethane	10	N.D.
Benzyl alcohol	10	N.D.	Indeno(1,2,3-cd)pyrene	10	N.D.
Bis(2-chloroethoxy)methane	5.0	N.D.	Isophorone	5.0	N.D.
Bis(2-chloroethyl)ether	5.0	N.D.	2-Methylnaphthalene	5.0	N.D.
Bis(2-chloroisopropyl)ether	5.0	N.D.	2-Methylphenol	7.5	N.D.
Bis(2-ethylhexyl)phthalate	13	N.D.	4-Methylphenol	7.5	N.D.
4-Bromophenyl phenyl ether	7.5	N.D.	Naphthalene	7.5	N.D.
Butyl benzyl phthalate	25	N.D.	2-Nitroaniline	10	N.D.
4-Chloroaniline	5.0	N.D.	3-Nitroaniline	10	N.D.
2-Chloronaphthalene	5.0	N.D.	4-Nitroaniline	25	N.D.
4-Chloro-3-methylphenol	5.0	N.D.	Nitrobenzene	25	N.D.
2-Chlorophenol	13	N.D.	2-Nitrophenol	5.0	N.D.
4-Chlorophenyl phenyl ether	5.0	N.D.	4-Nitrophenol	25	N.D.
Chrysene	5.0	N.D.	N-Nitrosodiphenylamine	10	N.D.
Dibenz(a,h)anthracene	13	N.D.	N-Nitroso-di-N-propylamine	7.5	N.D.
Dibenzofuran	5.0	N.D.	Pentachlorophenol	25	N.D.
Di-N-butyl phthalate	13	N.D.	Phenanthrene	5.0	N.D.
1,3-Dichlorobenzene	5.0	N.D.	Phenol	7.5	N.D.
1,4-Dichlorobenzene	5.0	N.D.	Pyrene	7.5	N.D.
1,2-Dichlorobenzene	5.0	N.D.	1,2,4-Trichlorobenzene	5.0	N.D.
3,3-Dichlorobenzidine	25	N.D.	2,4,5-Trichlorophenol	7.5	N.D.
2,4-Dichlorophenol	5.0	N.D.	2,4,6-Trichlorophenol	7.5	N.D.
Diethyl phthalate	5.0	N.D.			
2,4-Dimethylphenol	13	N.D.			

Analytes reported as N.D. were not present above the stated limit of detection.

Surrogate Standard Recoveries (Accept. Limits):	
2-Fluorophenol (25-121)	57%
Phenol-d6 (24-113)	57%
2,4,6-Tribromophenol (19-122)	68%
Nitrobenzene-d5 (23-120)	58%
2-Fluorobiphenyl (30-115)	61%
Terphenyl-d14 (18-137)	71%

DEL MAR ANALYTICAL, IRVINE (ELAP #1197)

Gary Steube
Laboratory Director

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Harding Lawson Associates
3 Hutton Centre, Suite 300
Santa Ana, CA 92707
Attention: Andrew Keller

Client Project ID: 32026.49
Omega/Whittier
Sample Descript: Wipe, T18-8270
Lab Number: EH04068

Sampled: Aug 24, 199
Received: Aug 24, 1995
Extracted: Aug 25, 1995
Analyzed: Aug 25, 1995
Reported: Aug 28, 1995

SEMI-VOLATILE ORGANICS by GC/MS (EPA 3550/8270)

Analyte	Detection Limit µg/Wipe	Sample Result µg/Wipe	Analyte	Detection Limit µg/Wipe	Sample Result µg/Wipe
Acenaphthene	5.0	N.D.	Dimethyl phthalate	5.0	N.D.
Acenaphthylene	5.0	N.D.	4,6-Dinitro-2-methylphenol	13	N.D.
Aniline	7.5	N.D.	2,4-Dinitrophenol	13	N.D.
Anthracene	5.0	N.D.	2,4-Dinitrotoluene	5.0	N.D.
Azobenzene	7.5	N.D.	2,6-Dinitrotoluene	5.0	N.D.
Benzidine	50	N.D.	Di-N-octyl phthalate	25	N.D.
Benzoic Acid	25	N.D.	Fluoranthene	5.0	N.D.
Benz(a)anthracene	5.0	N.D.	Fluorene	5.0	N.D.
Benzo(b)fluoranthene	10	N.D.	Hexachlorobenzene	5.0	N.D.
Benzo(k)fluoranthene	10	N.D.	Hexachlorobutadiene	5.0	N.D.
Benzo(g,h,i)perylene	7.5	N.D.	Hexachlorocyclopentadiene	25	N.D.
Benzo(a)pyrene	10	N.D.	Hexachloroethane	10	N.D.
Benzyl alcohol	10	N.D.	Indeno(1,2,3-cd)pyrene	10	N.D.
Bis(2-chloroethoxy)methane	5.0	N.D.	Isophorone	5.0	N.D.
Bis(2-chloroethyl)ether	5.0	N.D.	2-Methylnaphthalene	5.0	N.D.
Bis(2-chloroisopropyl)ether	5.0	N.D.	2-Methylphenol	7.5	N.D.
Bis(2-ethylhexyl)phthalate	13	N.D.	4-Methylphenol	7.5	N.D.
4-Bromophenyl phenyl ether	7.5	N.D.	Naphthalene	7.5	N.D.
Butyl benzyl phthalate	25	N.D.	2-Nitroaniline	10	N.D.
4-Chloroaniline	5.0	N.D.	3-Nitroaniline	10	N.D.
2-Chloronaphthalene	5.0	N.D.	4-Nitroaniline	25	N.D.
4-Chloro-3-methylphenol	5.0	N.D.	Nitrobenzene	25	N.D.
2-Chlorophenol	13	N.D.	2-Nitrophenol	5.0	N.D.
4-Chlorophenyl phenyl ether	5.0	N.D.	4-Nitrophenol	25	N.D.
Chrysene	5.0	N.D.	N-Nitrosodiphenylamine	10	N.D.
Dibenz(a,h)anthracene	13	N.D.	N-Nitroso-di-N-propylamine	7.5	N.D.
Dibenzofuran	5.0	N.D.	Pentachlorophenol	25	N.D.
Di-N-butyl phthalate	13	N.D.	Phenanthrene	5.0	N.D.
1,3-Dichlorobenzene	5.0	N.D.	Phenol	7.5	N.D.
1,4-Dichlorobenzene	5.0	N.D.	Pyrene	7.5	N.D.
1,2-Dichlorobenzene	5.0	N.D.	1,2,4-Trichlorobenzene	5.0	N.D.
3,3-Dichlorobenzidine	25	N.D.	2,4,5-Trichlorophenol	7.5	N.D.
2,4-Dichlorophenol	5.0	N.D.	2,4,6-Trichlorophenol	7.5	N.D.
Diethyl phthalate	5.0	N.D.			
2,4-Dimethylphenol	13	N.D.			

Analytes reported as N.D. were not present above the stated limit of detection.

Surrogate Standard Recoveries (Accept. Limits):	
2-Fluorophenol (25-121)	72%
Phenol-d6 (24-113)	72%
2,4,6-Tribromophenol (19-122)	84%
Nitrobenzene-d5 (23-120)	72%
2-Fluorobiphenyl (30-115)	77%
Terphenyl-d14 (18-137)	84%

DEL MAR ANALYTICAL, IRVINE (ELAP #1197)

Gary Steube
Laboratory Director

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Harding Lawson Associates
3 Hutton Centre, Suite 300
Santa Ana, CA 92707
Attention: Andrew Keller

Client Project ID: 32026.49
Omega/Whittier
Sample Descript: Wipe, T21-8270
Lab Number: EH04072

Sampled: Aug 24, 1995
Received: Aug 24, 1995
Extracted: Aug 25, 1995
Analyzed: Aug 25, 1995
Reported: Aug 28, 1995

SEMI-VOLATILE ORGANICS by GC/MS (EPA 3550/8270)

Analyte	Detection Limit µg/Wipe	Sample Result µg/Wipe	Analyte	Detection Limit µg/Wipe	Sample Result µg/Wipe
Acenaphthene	5.0	N.D.	Dimethyl phthalate	5.0	N.D.
Acenaphthylene	5.0	N.D.	4,6-Dinitro-2-methylphenol	13	N.D.
Aniline	7.5	N.D.	2,4-Dinitrophenol	13	N.D.
Anthracene	5.0	N.D.	2,4-Dinitrotoluene	5.0	N.D.
Azobenzene	7.5	N.D.	2,6-Dinitrotoluene	5.0	N.D.
Benzidine	50	N.D.	Di-N-octyl phthalate	25	N.D.
Benzoic Acid	25	N.D.	Fluoranthene	5.0	N.D.
Benz(a)anthracene	5.0	N.D.	Fluorene	5.0	N.D.
Benzo(b)fluoranthene	10	N.D.	Hexachlorobenzene	5.0	N.D.
Benzo(k)fluoranthene	10	N.D.	Hexachlorobutadiene	5.0	N.D.
Benzo(g,h,i)perylene	7.5	N.D.	Hexachlorocyclopentadiene	25	N.D.
Benzo(a)pyrene	10	N.D.	Hexachloroethane	10	N.D.
Benzyl alcohol	10	N.D.	Indeno(1,2,3-cd)pyrene	10	N.D.
Bis(2-chloroethoxy)methane	5.0	N.D.	Isophorone	5.0	N.D.
Bis(2-chloroethyl)ether	5.0	N.D.	2-Methylnaphthalene	5.0	N.D.
Bis(2-chloroisopropyl)ether	5.0	N.D.	2-Methylphenol	7.5	N.D.
Bis(2-ethylhexyl)phthalate	13	N.D.	4-Methylphenol	7.5	N.D.
4-Bromophenyl phenyl ether	7.5	N.D.	Naphthalene	7.5	N.D.
Butyl benzyl phthalate	25	N.D.	2-Nitroaniline	10	N.D.
4-Chloroaniline	5.0	N.D.	3-Nitroaniline	10	N.D.
2-Chloronaphthalene	5.0	N.D.	4-Nitroaniline	25	N.D.
4-Chloro-3-methylphenol	5.0	N.D.	Nitrobenzene	25	N.D.
2-Chlorophenol	13	N.D.	2-Nitrophenol	5.0	N.D.
4-Chlorophenyl phenyl ether	5.0	N.D.	4-Nitrophenol	25	N.D.
Chrysene	5.0	N.D.	N-Nitrosodiphenylamine	10	N.D.
Dibenz(a,h)anthracene	13	N.D.	N-Nitroso-di-N-propylamine	7.5	N.D.
Dibenzofuran	5.0	N.D.	Pentachlorophenol	25	N.D.
Di-N-butyl phthalate	13	N.D.	Phenanthrene	5.0	N.D.
1,3-Dichlorobenzene	5.0	N.D.	Phenol	7.5	N.D.
1,4-Dichlorobenzene	5.0	N.D.	Pyrene	7.5	N.D.
1,2-Dichlorobenzene	5.0	N.D.	1,2,4-Trichlorobenzene	5.0	N.D.
3,3-Dichlorobenzidine	25	N.D.	2,4,5-Trichlorophenol	7.5	N.D.
2,4-Dichlorophenol	5.0	N.D.	2,4,6-Trichlorophenol	7.5	N.D.
Diethyl phthalate	5.0	N.D.			
2,4-Dimethylphenol	13	N.D.			

Analytes reported as N.D. were not present above the stated limit of detection.

Surrogate Standard Recoveries (Accept. Limits):	
2-Fluorophenol (25-121)	70%
Phenol-d6 (24-113)	72%
2,4,6-Tribromophenol (19-122)	82%
Nitrobenzene-d5 (23-120)	73%
2-Fluorobiphenyl (30-115)	74%
Terphenyl-d14 (18-137)	80%

DEL MAR ANALYTICAL, IRVINE (ELAP #1197)

Gary Steube
Laboratory Director

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Harding Lawson Associates
3 Hutton Centre, Suite 300
Santa Ana, CA 92707
Attention: Andrew Keller

Client Project ID: 32026.49
Omega/Whittier
Sample Descript: Wipe, T22-8270
Lab Number: EH04073

Sampled: Aug 24, 199
Received: Aug 24, 1995
Extracted: Aug 25, 1995
Analyzed: Aug 25, 1995
Reported: Aug 28, 1995

SEMI-VOLATILE ORGANICS by GC/MS (EPA 3550/8270)

Analyte	Detection Limit µg/Wipe	Sample Result µg/Wipe	Analyte	Detection Limit µg/Wipe	Sample Result µg/Wipe
Acenaphthene	5.0	N.D.	Dimethyl phthalate	5.0	N.D.
Acenaphthylene	5.0	N.D.	4,6-Dinitro-2-methylphenol	13	N.D.
Aniline	7.5	N.D.	2,4-Dinitrophenol	13	N.D.
Anthracene	5.0	N.D.	2,4-Dinitrotoluene	5.0	N.D.
Azobenzene	7.5	N.D.	2,6-Dinitrotoluene	5.0	N.D.
Benzidine	50	N.D.	Di-N-octyl phthalate	25	N.D.
Benzoic Acid	25	N.D.	Fluoranthene	5.0	N.D.
Benz(a)anthracene	5.0	N.D.	Fluorene	5.0	N.D.
Benzo(b)fluoranthene	10	N.D.	Hexachlorobenzene	5.0	N.D.
Benzo(k)fluoranthene	10	N.D.	Hexachlorobutadiene	5.0	N.D.
Benzo(g,h,i)perylene	7.5	N.D.	Hexachlorocyclopentadiene	25	N.D.
Benzo(a)pyrene	10	N.D.	Hexachloroethane	10	N.D.
Benzyl alcohol	10	N.D.	Indeno(1,2,3-cd)pyrene	10	N.D.
Bis(2-chloroethoxy)methane	5.0	N.D.	Isophorone	5.0	N.D.
Bis(2-chloroethyl)ether	5.0	N.D.	2-Methylnaphthalene	5.0	N.D.
Bis(2-chloroisopropyl)ether	5.0	N.D.	2-Methylphenol	7.5	N.D.
Bis(2-ethylhexyl)phthalate	13	N.D.	4-Methylphenol	7.5	N.D.
4-Bromophenyl phenyl ether	7.5	N.D.	Naphthalene	7.5	N.D.
Butyl benzyl phthalate	25	N.D.	2-Nitroaniline	10	N.D.
4-Chloroaniline	5.0	N.D.	3-Nitroaniline	10	N.D.
2-Chloronaphthalene	5.0	N.D.	4-Nitroaniline	25	N.D.
4-Chloro-3-methylphenol	5.0	N.D.	Nitrobenzene	25	N.D.
2-Chlorophenol	13	N.D.	2-Nitrophenol	5.0	N.D.
4-Chlorophenyl phenyl ether	5.0	N.D.	4-Nitrophenol	25	N.D.
Chrysene	5.0	N.D.	N-Nitrosodiphenylamine	10	N.D.
Dibenz(a,h)anthracene	13	N.D.	N-Nitroso-di-N-propylamine	7.5	N.D.
Dibenzofuran	5.0	N.D.	Pentachlorophenol	25	N.D.
Di-N-butyl phthalate	13	N.D.	Phenanthrene	5.0	N.D.
1,3-Dichlorobenzene	5.0	N.D.	Phenol	7.5	N.D.
1,4-Dichlorobenzene	5.0	N.D.	Pyrene	7.5	N.D.
1,2-Dichlorobenzene	5.0	N.D.	1,2,4-Trichlorobenzene	5.0	N.D.
3,3-Dichlorobenzidine	25	N.D.	2,4,5-Trichlorophenol	7.5	N.D.
2,4-Dichlorophenol	5.0	N.D.	2,4,6-Trichlorophenol	7.5	N.D.
Diethyl phthalate	5.0	N.D.			
2,4-Dimethylphenol	13	N.D.			

Analytes reported as N.D. were not present above the stated limit of detection.

Surrogate Standard Recoveries (Accept. Limits):	
2-Fluorophenol (25-121)	63%
Phenol-d6 (24-113)	63%
2,4,6-Tribromophenol (19-122)	74%
Nitrobenzene-d5 (23-120)	61%
2-Fluorobiphenyl (30-115)	67%
Terphenyl-d14 (18-137)	71%

DEL MAR ANALYTICAL, IRVINE (ELAP #1197)

Gary Steube
Laboratory Director

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Harding Lawson Associates
3 Hutton Centre, Suite 300
Santa Ana, CA 92707
Attention: Andrew Keller

Client Project ID: 32026.49
Omega/Whittier
Sample Descript: Wipe, T20-8270
Lab Number: EH04075

Sampled: Aug 24, 1995
Received: Aug 24, 1995
Extracted: Aug 25, 1995
Analyzed: Aug 27, 1995
Reported: Aug 28, 1995

SEMI-VOLATILE ORGANICS by GC/MS (EPA 3550/8270)

Analyte	Detection Limit µg/Wipe	Sample Result µg/Wipe	Analyte	Detection Limit µg/Wipe	Sample Result µg/Wipe
Acenaphthene	5.0	N.D.	Dimethyl phthalate	5.0	N.D.
Acenaphthylene	5.0	N.D.	4,6-Dinitro-2-methylphenol	13	N.D.
Aniline	7.5	N.D.	2,4-Dinitrophenol	13	N.D.
Anthracene	5.0	N.D.	2,4-Dinitrotoluene	5.0	N.D.
Azobenzene	7.5	N.D.	2,6-Dinitrotoluene	5.0	N.D.
Benzidine	50	N.D.	Di-N-octyl phthalate	25	N.D.
Benzoic Acid	25	N.D.	Fluoranthene	5.0	N.D.
Benz(a)anthracene	5.0	N.D.	Fluorene	5.0	N.D.
Benzo(b)fluoranthene	10	N.D.	Hexachlorobenzene	5.0	N.D.
Benzo(k)fluoranthene	10	N.D.	Hexachlorobutadiene	5.0	N.D.
Benzo(g,h,i)perylene	7.5	N.D.	Hexachlorocyclopentadiene	25	N.D.
Benzo(a)pyrene	10	N.D.	Hexachloroethane	10	N.D.
Benzyl alcohol	10	N.D.	Indeno(1,2,3-cd)pyrene	10	N.D.
Bis(2-chloroethoxy)methane	5.0	N.D.	Isophorone	5.0	N.D.
Bis(2-chloroethyl)ether	5.0	N.D.	2-Methylnaphthalene	5.0	N.D.
Bis(2-chloroisopropyl)ether	5.0	N.D.	2-Methylphenol	7.5	N.D.
Bis(2-ethylhexyl)phthalate	13	N.D.	4-Methylphenol	7.5	N.D.
4-Bromophenyl phenyl ether	7.5	N.D.	Naphthalene	7.5	N.D.
Butyl benzyl phthalate	25	N.D.	2-Nitroaniline	10	N.D.
4-Chloroaniline	5.0	N.D.	3-Nitroaniline	10	N.D.
2-Chloronaphthalene	5.0	N.D.	4-Nitroaniline	25	N.D.
4-Chloro-3-methylphenol	5.0	N.D.	Nitrobenzene	25	N.D.
2-Chlorophenol	13	N.D.	2-Nitrophenol	5.0	N.D.
4-Chlorophenyl phenyl ether	5.0	N.D.	4-Nitrophenol	25	N.D.
Chrysene	5.0	N.D.	N-Nitrosodiphenylamine	10	N.D.
Dibenz(a,h)anthracene	13	N.D.	N-Nitroso-di-N-propylamine	7.5	N.D.
Dibenzofuran	5.0	N.D.	Pentachlorophenol	25	N.D.
Di-N-butyl phthalate	13	N.D.	Phenanthrene	5.0	N.D.
1,3-Dichlorobenzene	5.0	N.D.	Phenol	7.5	N.D.
1,4-Dichlorobenzene	5.0	N.D.	Pyrene	7.5	N.D.
1,2-Dichlorobenzene	5.0	N.D.	1,2,4-Trichlorobenzene	5.0	N.D.
3,3-Dichlorobenzidine	25	N.D.	2,4,5-Trichlorophenol	7.5	N.D.
2,4-Dichlorophenol	5.0	N.D.	2,4,6-Trichlorophenol	7.5	N.D.
Diethyl phthalate	5.0	N.D.			
2,4-Dimethylphenol	13	N.D.			

Analytes reported as N.D. were not present above the stated limit of detection.

Surrogate Standard Recoveries (Accept. Limits):	
2-Fluorophenol (25-121)	70%
Phenol-d6 (24-113)	72%
2,4,6-Tribromophenol (19-122)	88%
Nitrobenzene-d5 (23-120)	77%
2-Fluorobiphenyl (30-115)	74%
Terphenyl-d14 (18-137)	81%

DEL MAR ANALYTICAL, IRVINE (ELAP #1197)

Gary Steube
Laboratory Director

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Harding Lawson Associates
3 Hutton Centre, Suite 300
Santa Ana, CA 92707
Attention: Andrew Keller

Client Project ID: 32026.49
Omega/Whittier
Sample Descript: Wipe, T23-8270
Lab Number: EH04080

Sampled: Aug 24, 199
Received: Aug 24, 1995
Extracted: Aug 25, 1995
Analyzed: Aug 27, 1995
Reported: Aug 28, 1995

SEMI-VOLATILE ORGANICS by GC/MS (EPA 3550/8270)

Analyte	Detection Limit µg/Wipe	Sample Result µg/Wipe	Analyte	Detection Limit µg/Wipe	Sample Result µg/Wipe
Acenaphthene	5.0	N.D.	Dimethyl phthalate	5.0	N.D.
Acenaphthylene	5.0	N.D.	4,6-Dinitro-2-methylphenol	13	N.D.
Aniline	7.5	N.D.	2,4-Dinitrophenol	13	N.D.
Anthracene	5.0	N.D.	2,4-Dinitrotoluene	5.0	N.D.
Azobenzene	7.5	N.D.	2,6-Dinitrotoluene	5.0	N.D.
Benzidine	50	N.D.	Di-N-octyl phthalate	25	N.D.
Benzoic Acid	25	N.D.	Fluoranthene	5.0	N.D.
Benz(a)anthracene	5.0	N.D.	Fluorene	5.0	N.D.
Benzo(b)fluoranthene	10	N.D.	Hexachlorobenzene	5.0	N.D.
Benzo(k)fluoranthene	10	N.D.	Hexachlorobutadiene	5.0	N.D.
Benzo(g,h,i)perylene	7.5	N.D.	Hexachlorocyclopentadiene	25	N.D.
Benzo(a)pyrene	10	N.D.	Hexachloroethane	10	N.D.
Benzyl alcohol	10	N.D.	Indeno(1,2,3-cd)pyrene	10	N.D.
Bis(2-chloroethoxy)methane	5.0	N.D.	Isophorone	5.0	N.D.
Bis(2-chloroethyl)ether	5.0	N.D.	2-Methylnaphthalene	5.0	N.D.
Bis(2-chloroisopropyl)ether	5.0	N.D.	2-Methylphenol	7.5	N.D.
Bis(2-ethylhexyl)phthalate	13	N.D.	4-Methylphenol	7.5	N.D.
4-Bromophenyl phenyl ether	7.5	N.D.	Naphthalene	7.5	N.D.
Butyl benzyl phthalate	25	N.D.	2-Nitroaniline	10	N.D.
4-Chloroaniline	5.0	N.D.	3-Nitroaniline	10	N.D.
2-Chloronaphthalene	5.0	N.D.	4-Nitroaniline	25	N.D.
4-Chloro-3-methylphenol	5.0	N.D.	Nitrobenzene	25	N.D.
2-Chlorophenol	13	N.D.	2-Nitrophenol	5.0	N.D.
4-Chlorophenyl phenyl ether	5.0	N.D.	4-Nitrophenol	25	N.D.
Chrysene	5.0	N.D.	N-Nitrosodiphenylamine	10	N.D.
Dibenz(a,h)anthracene	13	N.D.	N-Nitroso-di-N-propylamine	7.5	N.D.
Dibenzofuran	5.0	N.D.	Pentachlorophenol	25	N.D.
Di-N-butyl phthalate	13	N.D.	Phenanthrene	5.0	N.D.
1,3-Dichlorobenzene	5.0	N.D.	Phenol	7.5	N.D.
1,4-Dichlorobenzene	5.0	N.D.	Pyrene	7.5	N.D.
1,2-Dichlorobenzene	5.0	N.D.	1,2,4-Trichlorobenzene	5.0	N.D.
3,3-Dichlorobenzidine	25	N.D.	2,4,5-Trichlorophenol	7.5	N.D.
2,4-Dichlorophenol	5.0	N.D.	2,4,6-Trichlorophenol	7.5	N.D.
Diethyl phthalate	5.0	N.D.			
2,4-Dimethylphenol	13	N.D.			

Analytes reported as N.D. were not present above the stated limit of detection.

Surrogate Standard Recoveries (Accept. Limits):	
2-Fluorophenol (25-121)	69%
Phenol-d6 (24-113)	70%
2,4,6-Tribromophenol (19-122)	84%
Nitrobenzene-d5 (23-120)	75%
2-Fluorobiphenyl (30-115)	74%
Terphenyl-d14 (18-137)	81%

DEL MAR ANALYTICAL, IRVINE (ELAP #1197)

Gary Steube
Laboratory Director

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Harding Lawson Associates
3 Hutton Centre, Suite 300
Santa Ana, CA 92707
Attention: Andrew Keller

Client Project ID: 32026.49
Omega/Whittier
Sample Descript: Wipe, East Bin-CAM
Lab Number: EH04045

Sampled: Aug 24, 1995
Received: Aug 24, 1995
Extracted: Aug 25-26, 1995
Analyzed: Aug 25-28, 1995
Reported: Aug 28, 1995

CALIFORNIA CODE OF REGULATIONS, TITLE 22 METALS

Analyte	EPA Method	STLC Max. Limit mg/L (ppm)	TTLC Max. Limit mg/Kg (ppm)	Detection Limit µg/Wipe		TTLC Sample Result µg/Wipe
Antimony	6010	15	500	20		N.D.
Arsenic	6010	5.0	500	4.0		N.D.
Barium	6010	100	10000	2.0		N.D.
Beryllium	6010	0.75	75	0.40		N.D.
Cadmium	6010	1.0	100	0.40		N.D.
Chromium, VI	7196	5.0	500	1.0		N.D.
Chromium, total	6010	560	2500	2.0		43
Cobalt	6010	80	8000	2.0		N.D.
Copper	6010	25	2500	2.0		N.D.
Lead	6010	5.0	1000	4.0		180
Mercury	7471	0.20	20	0.080		N.D.
Molybdenum	6010	350	3500	2.0		N.D.
Nickel	6010	20	2000	2.0		9.6
Selenium	6010	1.0	100	4.0		N.D.
Silver	6010	5.0	500	2.0		N.D.
Thallium	6010	7.0	700	20		N.D.
Vanadium	6010	24	2400	2.0		N.D.
Zinc	6010	250	5000	2.0		6.6

Analytes reported as N.D. were not present above the stated limit of detection.

DEL MAR ANALYTICAL, IRVINE (ELAP #1197)

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Laboratory Director

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Harding Lawson Associates
3 Hutton Centre, Suite 300
Santa Ana, CA 92707
Attention: Andrew Keller

Client Project ID: 32026.49
Omega/Whittier
Sample Descript: Wipe, West Bin-CAM
Lab Number: EH04048

Sampled: Aug 24, 1995
Received: Aug 24, 1995
Extracted: Aug 25-26, 1995
Analyzed: Aug 25-28, 1995
Reported: Aug 28, 1995

CALIFORNIA CODE OF REGULATIONS, TITLE 22 METALS

Analyte	EPA Method	STLC Max. Limit mg/L (ppm)	TTLC Max. Limit mg/Kg (ppm)	Detection Limit µg/Wipe		TTLC Sample Result µg/Wipe
Antimony	6010	15	500	20	.....	N.D.
Arsenic	6010	5.0	500	4.0	.....	N.D.
Barium	6010	100	10000	2.0	.....	N.D.
Beryllium	6010	0.75	75	0.40	.....	N.D.
Cadmium	6010	1.0	100	0.40	.....	N.D.
Chromium, VI	7196	5.0	500	1.0	.....	N.D.
Chromium, total	6010	560	2500	2.0	.....	61
Cobalt	6010	80	8000	2.0	.....	N.D.
Copper	6010	25	2500	2.0	.....	N.D.
Lead	6010	5.0	1000	4.0	.....	150
Mercury	7471	0.20	20	0.080	.....	N.D.
Molybdenum	6010	350	3500	2.0	.....	N.D.
Nickel	6010	20	2000	2.0	.....	N.D.
Selenium	6010	1.0	100	4.0	.....	N.D.
Silver	6010	5.0	500	2.0	.....	N.D.
Thallium	6010	7.0	700	20	.....	N.D.
Vanadium	6010	24	2400	2.0	.....	N.D.
Zinc	6010	250	5000	2.0	.....	26

Analytes reported as N.D. were not present above the stated limit of detection.

DEL MAR ANALYTICAL, IRVINE (ELAP #1197)

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Harding Lawson Associates
3 Hutton Centre, Suite 300
Santa Ana, CA 92707
Attention: Andrew Keller

Client Project ID: 32026.49
Omega/Whittier
Sample Descript: Wipe, P13-CAM
Lab Number: EH04049

Sampled: Aug 24, 1995
Received: Aug 24, 1995
Extracted: Aug 25-26, 1995
Analyzed: Aug 25-28, 1995
Reported: Aug 28, 1995

CALIFORNIA CODE OF REGULATIONS, TITLE 22 METALS

Analyte	EPA Method	STLC Max. Limit mg/L (ppm)	TTLC Max. Limit mg/Kg (ppm)	Detection Limit µg/Wipe		TTLC Sample Result µg/Wipe
Antimony	6010	15	500	20		N.D.
Arsenic	6010	5.0	500	4.0		N.D.
Barium	6010	100	10000	2.0		N.D.
Beryllium	6010	0.75	75	0.40		N.D.
Cadmium	6010	1.0	100	0.40		N.D.
Chromium, VI	7196	5.0	500	1.0		N.D.
Chromium, total	6010	560	2500	2.0		99
Cobalt	6010	80	8000	2.0		N.D.
Copper	6010	25	2500	2.0		N.D.
Lead	6010	5.0	1000	4.0		10
Mercury	7471	0.20	20	0.080		N.D.
Molybdenum	6010	350	3500	2.0		8.8
Nickel	6010	20	2000	2.0		56
Selenium	6010	1.0	100	4.0		N.D.
Silver	6010	5.0	500	2.0		N.D.
Thallium	6010	7.0	700	20		N.D.
Vanadium	6010	24	2400	2.0		N.D.
Zinc	6010	250	5000	2.0		14

Analytes reported as N.D. were not present above the stated limit of detection.

DEL MAR ANALYTICAL, IRVINE (ELAP #1197)

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Laboratory Director

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3 Hutton Centre, Suite 300
Santa Ana, CA 92707
Attention: Andrew Keller

Client Project ID: 32026.49
Omega/Whittier
Sample Descript: Wipe, P14-CAM
Lab Number: EH04054

Sampled: Aug 24, 19[illegible]
Received: Aug 24, 1995
Extracted: Aug 25-26, 1995
Analyzed: Aug 25-28, 1995
Reported: Aug 28, 1995

CALIFORNIA CODE OF REGULATIONS, TITLE 22 METALS

Analyte	EPA Method	STLC Max. Limit mg/L (ppm)	TTLC Max. Limit mg/Kg (ppm)	Detection Limit µg/Wipe		TTLC Sample Result µg/Wipe
Antimony	6010	15	500	20	.....	N.D.
Arsenic	6010	5.0	500	4.0	.....	N.D.
Barium	6010	100	10000	2.0	.....	N.D.
Beryllium	6010	0.75	75	0.40	.....	N.D.
Cadmium	6010	1.0	100	0.40	.....	N.D.
Chromium, VI	7196	5.0	500	1.0	.....	N.D.
Chromium, total	6010	560	2500	2.0	.....	30
Cobalt	6010	80	8000	2.0	.....	N.D.
Copper	6010	25	2500	2.0	.....	N.D.
Lead	6010	5.0	1000	4.0	.....	N.D.
Mercury	7471	0.20	20	0.080	.....	N.D.
Molybdenum	6010	350	3500	2.0	.....	N.D.
Nickel	6010	20	2000	2.0	.....	4.9
Selenium	6010	1.0	100	4.0	.....	N.D.
Silver	6010	5.0	500	2.0	.....	N.D.
Thallium	6010	7.0	700	20	.....	N.D.
Vanadium	6010	24	2400	2.0	.....	N.D.
Zinc	6010	250	5000	2.0	.....	7.4

Analytes reported as N.D. were not present above the stated limit of detection.

DEL MAR ANALYTICAL, IRVINE (ELAP #1197)

Gary Steube
Laboratory Director

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Harding Lawson Associates
3 Hutton Centre, Suite 300
Santa Ana, CA 92707
Attention: Andrew Keller

Client Project ID: 32026.49
Omega/Whittier
Sample Descript: Wipe, P15-CAM
Lab Number: EH04056

Sampled: Aug 24, 1995
Received: Aug 24, 1995
Extracted: Aug 25-26, 1995
Analyzed: Aug 25-28, 1995
Reported: Aug 28, 1995

CALIFORNIA CODE OF REGULATIONS, TITLE 22 METALS

Analyte	EPA Method	STLC Max. Limit mg/L (ppm)	TTLC Max. Limit mg/Kg (ppm)	Detection Limit µg/Wipe		TTLC Sample Result µg/Wipe
Antimony	6010	15	500	20		N.D.
Arsenic	6010	5.0	500	4.0		N.D.
Barium	6010	100	10000	2.0		N.D.
Beryllium	6010	0.75	75	0.40		N.D.
Cadmium	6010	1.0	100	0.40		N.D.
Chromium, VI	7196	5.0	500	1.0		N.D.
Chromium, total	6010	560	2500	2.0		34
Cobalt	6010	80	8000	2.0		N.D.
Copper	6010	25	2500	2.0		N.D.
Lead	6010	5.0	1000	4.0		6.5
Mercury	7471	0.20	20	0.080		N.D.
Molybdenum	6010	350	3500	2.0		N.D.
Nickel	6010	20	2000	2.0		N.D.
Selenium	6010	1.0	100	4.0		N.D.
Silver	6010	5.0	500	2.0		N.D.
Thallium	6010	7.0	700	20		N.D.
Vanadium	6010	24	2400	2.0		N.D.
Zinc	6010	250	5000	2.0		21

Analytes reported as N.D. were not present above the stated limit of detection.

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Laboratory Director

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Harding Lawson Associates
3 Hutton Centre, Suite 300
Santa Ana, CA 92707
Attention: Andrew Keller

Client Project ID: 32026.49
Omega/Whittier
Sample Descript: Wipe, P16-CAM
Lab Number: EH04060

Sampled: Aug 24, 19
Received: Aug 24, 1995
Extracted: Aug 25-26, 1995
Analyzed: Aug 25-28, 1995
Reported: Aug 28, 1995

CALIFORNIA CODE OF REGULATIONS, TITLE 22 METALS

Analyte	EPA Method	STLC Max. Limit mg/L (ppm)	TTLC Max. Limit mg/Kg (ppm)	Detection Limit µg/Wipe		TTLC Sample Result µg/Wipe
Antimony	6010	15	500	20	.....	N.D.
Arsenic	6010	5.0	500	4.0	.....	N.D.
Barium	6010	100	10000	2.0	.....	N.D.
Beryllium	6010	0.75	75	0.40	.....	N.D.
Cadmium	6010	1.0	100	0.40	.....	N.D.
Chromium, VI	7196	5.0	500	1.0	.....	N.D.
Chromium, total	6010	560	2500	2.0	.....	11
Cobalt	6010	80	8000	2.0	.....	N.D.
Copper	6010	25	2500	2.0	.....	N.D.
Lead	6010	5.0	1000	4.0	.....	N.D.
Mercury	7471	0.20	20	0.080	.....	N.D.
Molybdenum	6010	350	3500	2.0	.....	N.D.
Nickel	6010	20	2000	2.0	.....	N.D.
Selenium	6010	1.0	100	4.0	.....	N.D.
Silver	6010	5.0	500	2.0	.....	N.D.
Thallium	6010	7.0	700	20	.....	N.D.
Vanadium	6010	24	2400	2.0	.....	N.D.
Zinc	6010	250	5000	2.0	.....	4.7

Analytes reported as N.D. were not present above the stated limit of detection.

DEL MAR ANALYTICAL, IRVINE (ELAP #1197)

Gary Steube
Laboratory Director

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Harding Lawson Associates
3 Hutton Centre, Suite 300
Santa Ana, CA 92707
Attention: Andrew Keller

Client Project ID: 32026.49
Omega/Whittier
Sample Descript: Wipe, P17-CAM
Lab Number: EH04062

Sampled: Aug 24, 1995
Received: Aug 24, 1995
Extracted: Aug 25-26, 1995
Analyzed: Aug 25-28, 1995
Reported: Aug 28, 1995

CALIFORNIA CODE OF REGULATIONS, TITLE 22 METALS

Analyte	EPA Method	STLC Max. Limit mg/L (ppm)	TTLC Max. Limit mg/Kg (ppm)	Detection Limit µg/Wipe		TTLC Sample Result µg/Wipe
Antimony	6010	15	500	20		N.D.
Arsenic	6010	5.0	500	4.0		N.D.
Barium	6010	100	10000	2.0		N.D.
Beryllium	6010	0.75	75	0.40		N.D.
Cadmium	6010	1.0	100	0.40		N.D.
Chromium, VI	7196	5.0	500	1.0		N.D.
Chromium, total	6010	560	2500	2.0		10
Cobalt	6010	80	8000	2.0		N.D.
Copper	6010	25	2500	2.0		N.D.
Lead	6010	5.0	1000	4.0		N.D.
Mercury	7471	0.20	20	0.080		N.D.
Molybdenum	6010	350	3500	2.0		N.D.
Nickel	6010	20	2000	2.0		N.D.
Selenium	6010	1.0	100	4.0		N.D.
Silver	6010	5.0	500	2.0		N.D.
Thallium	6010	7.0	700	20		N.D.
Vanadium	6010	24	2400	2.0		N.D.
Zinc	6010	250	5000	2.0		4.1

Analytes reported as N.D. were not present above the stated limit of detection.

DEL MAR ANALYTICAL, IRVINE (ELAP #1197)

Gary Stebbe
Laboratory Director

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Harding Lawson Associates
3 Hutton Centre, Suite 300
Santa Ana, CA 92707
Attention: Andrew Keller

Client Project ID: 32026.49
Omega/Whittier
Sample Descript: Wipe, T19-CAM
Lab Number: EH04064

Sampled: Aug 24, 199
Received: Aug 24, 1995
Extracted: Aug 25-26, 1995
Analyzed: Aug 25-28, 1995
Reported: Aug 28, 1995

CALIFORNIA CODE OF REGULATIONS, TITLE 22 METALS

Analyte	EPA Method	STLC Max. Limit mg/L (ppm)	TTLC Max. Limit mg/Kg (ppm)	Detection Limit µg/Wipe		TTLC Sample Result µg/Wipe
Antimony	6010	15	500	20	.....	N.D.
Arsenic	6010	5.0	500	4.0	.....	N.D.
Barium	6010	100	10000	2.0	.....	11
Beryllium	6010	0.75	75	0.40	.....	N.D.
Cadmium	6010	1.0	100	0.40	.....	N.D.
Chromium, VI	7196	5.0	500	1.0	.....	N.D.
Chromium, total	6010	560	2500	2.0	.....	51
Cobalt	6010	80	8000	2.0	.....	N.D.
Copper	6010	25	2500	2.0	.....	N.D.
Lead	6010	5.0	1000	4.0	.....	N.D.
Mercury	7471	0.20	20	0.080	.....	0.14
Molybdenum	6010	350	3500	2.0	.....	N.D.
Nickel	6010	20	2000	2.0	.....	11
Selenium	6010	1.0	100	4.0	.....	8.0
Silver	6010	5.0	500	2.0	.....	N.D.
Thallium	6010	7.0	700	20	.....	N.D.
Vanadium	6010	24	2400	2.0	.....	N.D.
Zinc	6010	250	5000	2.0	.....	23

Analytes reported as N.D. were not present above the stated limit of detection.

DEL MAR ANALYTICAL, IRVINE (ELAP #1197)

Gary Steube
Laboratory Director

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Harding Lawson Associates
3 Hutton Centre, Suite 300
Santa Ana, CA 92707
Attention: Andrew Keller

Client Project ID: 32026.49
Omega/Whittier
Sample Descript: Wipe, T18-CAM
Lab Number: EH04067

Sampled: Aug 24, 1995
Received: Aug 24, 1995
Extracted: Aug 25-26, 1995
Analyzed: Aug 25-28, 1995
Reported: Aug 28, 1995

CALIFORNIA CODE OF REGULATIONS, TITLE 22 METALS

Analyte	EPA Method	STLC Max. Limit mg/L (ppm)	TTLC Max. Limit mg/Kg (ppm)	Detection Limit µg/Wipe		TTLC Sample Result µg/Wipe
Antimony	6010	15	500	20		N.D.
Arsenic	6010	5.0	500	4.0		N.D.
Barium	6010	100	10000	2.0		N.D.
Beryllium	6010	0.75	75	0.40		N.D.
Cadmium	6010	1.0	100	0.40		N.D.
Chromium, VI	7196	5.0	500	1.0		N.D.
Chromium, total	6010	560	2500	2.0		74
Cobalt	6010	80	8000	2.0		N.D.
Copper	6010	25	2500	2.0		9.9
Lead	6010	5.0	1000	4.0		N.D.
Mercury	7471	0.20	20	0.080		N.D.
Molybdenum	6010	350	3500	2.0		N.D.
Nickel	6010	20	2000	2.0		31
Selenium	6010	1.0	100	4.0		7.8
Silver	6010	5.0	500	2.0		N.D.
Thallium	6010	7.0	700	20		N.D.
Vanadium	6010	24	2400	2.0		N.D.
Zinc	6010	250	5000	2.0		10

Analytes reported as N.D. were not present above the stated limit of detection.

DEL MAR ANALYTICAL, IRVINE (ELAP #1197)

Gary Steube
Laboratory Director

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Harding Lawson Associates
3 Hutton Centre, Suite 300
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Attention: Andrew Keller

Client Project ID: 32026.49
Omega/Whittier
Sample Descript: Wipe, T22-CAM
Lab Number: EH04074

Sampled: Aug 24, 199
Received: Aug 24, 1995
Extracted: Aug 25-26, 1995
Analyzed: Aug 25-28, 1995
Reported: Aug 28, 1995

CALIFORNIA CODE OF REGULATIONS, TITLE 22 METALS

Analyte	EPA Method	STLC Max. Limit mg/L (ppm)	TTLC Max. Limit mg/Kg (ppm)	Detection Limit µg/Wipe		TTLC Sample Result µg/Wipe
Antimony	6010	15	500	20	.....	N.D.
Arsenic	6010	5.0	500	4.0	.....	N.D.
Barium	6010	100	10000	2.0	.....	7.8
Beryllium	6010	0.75	75	0.40	.....	N.D.
Cadmium	6010	1.0	100	0.40	.....	N.D.
Chromium, VI	7196	5.0	500	1.0	.....	N.D.
Chromium, total	6010	560	2500	2.0	.....	240
Cobalt	6010	80	8000	2.0	.....	N.D.
Copper	6010	25	2500	2.0	.....	12
Lead	6010	5.0	1000	4.0	.....	28
Mercury	7471	0.20	20	0.080	.....	N.D.
Molybdenum	6010	350	3500	2.0	.....	N.D.
Nickel	6010	20	2000	2.0	.....	23
Selenium	6010	1.0	100	4.0	.....	N.D.
Silver	6010	5.0	500	2.0	.....	N.D.
Thallium	6010	7.0	700	20	.....	N.D.
Vanadium	6010	24	2400	2.0	.....	N.D.
Zinc	6010	250	5000	2.0	.....	39

Analytes reported as N.D. were not present above the stated limit of detection.

DEL MAR ANALYTICAL, IRVINE (ELAP #1197)

Gary Stetube
Laboratory Director

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Harding Lawson Associates
3 Hutton Centre, Suite 300
Santa Ana, CA 92707
Attention: Andrew Keller

Client Project ID: 32026.49
Omega/Whittier
Sample Descript: Wipe, T21-CAM
Lab Number: EH04076

Sampled: Aug 24, 1995
Received: Aug 24, 1995
Extracted: Aug 25-26, 1995
Analyzed: Aug 25-28, 1995
Reported: Aug 28, 1995

CALIFORNIA CODE OF REGULATIONS, TITLE 22 METALS

Analyte	EPA Method	STLC Max. Limit mg/L (ppm)	TTLC Max. Limit mg/Kg (ppm)	Detection Limit µg/Wipe		TTLC Sample Result µg/Wipe
Antimony	6010	15	500	20		N.D.
Arsenic	6010	5.0	500	4.0		N.D.
Barium	6010	100	10000	2.0		N.D.
Beryllium	6010	0.75	75	0.40		N.D.
Cadmium	6010	1.0	100	0.40		N.D.
Chromium, VI	7196	5.0	500	1.0		N.D.
Chromium, total	6010	560	2500	2.0		21
Cobalt	6010	80	8000	2.0		N.D.
Copper	6010	25	2500	2.0		3.9
Lead	6010	5.0	1000	4.0		6.6
Mercury	7471	0.20	20	0.080		N.D.
Molybdenum	6010	350	3500	2.0		N.D.
Nickel	6010	20	2000	2.0		3.9
Selenium	6010	1.0	100	4.0		N.D.
Silver	6010	5.0	500	2.0		N.D.
Thallium	6010	7.0	700	20		N.D.
Vanadium	6010	24	2400	2.0		N.D.
Zinc	6010	250	5000	2.0		13

Analytes reported as N.D. were not present above the stated limit of detection.

DEL MAR ANALYTICAL, IRVINE (ELAP #1197)

Gary Steube
Laboratory Director

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Harding Lawson Associates
3 Hutton Centre, Suite 300
Santa Ana, CA 92707
Attention: Andrew Keller

Client Project ID: 32026.49
Omega/Whittier
Sample Descript: Wipe, T20-CAM
Lab Number: EH04077

Sampled: Aug 24, 199
Received: Aug 24, 1995
Extracted: Aug 25-26, 1995
Analyzed: Aug 25-28, 1995
Reported: Aug 28, 1995

CALIFORNIA CODE OF REGULATIONS, TITLE 22 METALS

Analyte	EPA Method	STLC Max. Limit mg/L (ppm)	TTLC Max. Limit mg/Kg (ppm)	Detection Limit µg/Wipe		TTLC Sample Result µg/Wipe
Antimony	6010	15	500	20	.....	N.D.
Arsenic	6010	5.0	500	4.0	.....	N.D.
Barium	6010	100	10000	2.0	.....	N.D.
Beryllium	6010	0.75	75	0.40	.....	N.D.
Cadmium	6010	1.0	100	0.40	.....	N.D.
Chromium, VI	7196	5.0	500	1.0	.....	N.D.
Chromium, total	6010	560	2500	2.0	.....	19
Cobalt	6010	80	8000	2.0	.....	N.D.
Copper	6010	25	2500	2.0	.....	N.D.
Lead	6010	5.0	1000	4.0	.....	N.D.
Mercury	7471	0.20	20	0.080	.....	N.D.
Molybdenum	6010	350	3500	2.0	.....	N.D.
Nickel	6010	20	2000	2.0	.....	N.D.
Selenium	6010	1.0	100	4.0	.....	N.D.
Silver	6010	5.0	500	2.0	.....	N.D.
Thallium	6010	7.0	700	20	.....	N.D.
Vanadium	6010	24	2400	2.0	.....	N.D.
Zinc	6010	250	5000	2.0	.....	8.0

Analytes reported as N.D. were not present above the stated limit of detection.

DEL MAR ANALYTICAL, IRVINE (ELAP #1197)

Gary Steube
Laboratory Director

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Harding Lawson Associates
3 Hutton Centre, Suite 300
Santa Ana, CA 92707
Attention: Andrew Keller

Client Project ID: 32026.49
Omega/Whittier
Sample Descript: Wipe, T23-CAM
Lab Number: EH04079

Sampled: Aug 24, 1995
Received: Aug 24, 1995
Extracted: Aug 25-26, 1995
Analyzed: Aug 25-28, 1995
Reported: Aug 28, 1995

CALIFORNIA CODE OF REGULATIONS, TITLE 22 METALS

Analyte	EPA Method	STLC Max. Limit mg/L (ppm)	TTLC Max. Limit mg/Kg (ppm)	Detection Limit µg/Wipe		TTLC Sample Result µg/Wipe
Antimony	6010	15	500	20		N.D.
Arsenic	6010	5.0	500	4.0		N.D.
Barium	6010	100	10000	2.0		N.D.
Beryllium	6010	0.75	75	0.40		N.D.
Cadmium	6010	1.0	100	0.40		N.D.
Chromium, VI	7196	5.0	500	1.0		N.D.
Chromium, total	6010	560	2500	2.0		27
Cobalt	6010	80	8000	2.0		N.D.
Copper	6010	25	2500	2.0		5.7
Lead	6010	5.0	1000	4.0		12
Mercury	7471	0.20	20	0.080		N.D.
Molybdenum	6010	350	3500	2.0		N.D.
Nickel	6010	20	2000	2.0		N.D.
Selenium	6010	1.0	100	4.0		N.D.
Silver	6010	5.0	500	2.0		N.D.
Thallium	6010	7.0	700	20		N.D.
Vanadium	6010	24	2400	2.0		N.D.
Zinc	6010	250	5000	2.0		11

Analytes reported as N.D. were not present above the stated limit of detection.

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Harding Lawson Associates
3 Hutton Centre, Suite 300
Santa Ana, CA 92707
Attention: Andrew Keller

Method Blank

Extracted: Aug 26, 199
Analyzed: Aug 26, 1995
Reported: Aug 28, 1995
Matrix: Wipe

VOLATILE ORGANICS by GC/MS (EPA 8240)

Analyte	Detection Limit µg/Wipe	Sample Result µg/Wipe
Acetone	5.0	N.D.
Benzene	1.0	N.D.
Bromodichloromethane	1.0	N.D.
Bromoform	1.0	N.D.
Bromomethane	2.5	N.D.
2-Butanone	5.0	N.D.
Carbon disulfide	2.5	N.D.
Carbon tetrachloride	2.5	N.D.
Chlorobenzene	1.0	N.D.
Chlorodibromomethane	1.0	N.D.
Chloroethane	2.5	N.D.
2-Chloroethyl vinyl ether	1.0	N.D.
Chloroform	1.0	N.D.
Chloromethane	2.5	N.D.
1,1-Dichloroethane	1.0	N.D.
1,2-Dichloroethane	1.0	N.D.
1,1-Dichloroethene	2.5	N.D.
cis-1,2-Dichloroethene	1.0	N.D.
trans-1,2-Dichloroethene	1.0	N.D.
1,2-Dichloropropane	1.0	N.D.
cis-1,3-Dichloropropene	1.0	N.D.
trans-1,3-Dichloropropene	1.0	N.D.
Ethylbenzene	1.0	N.D.
2-Hexanone	5.0	N.D.
Methylene chloride	5.0	N.D.
4-Methyl-2-pentanone	2.5	N.D.
Styrene	1.0	N.D.
1,1,2,2-Tetrachloroethane	1.0	N.D.
Tetrachloroethene	1.0	N.D.
Toluene	1.0	N.D.
1,1,1-Trichloroethane	1.0	N.D.
1,1,2-Trichloroethane	1.0	N.D.
Trichloroethene	1.0	N.D.
Trichlorofluoromethane	2.5	N.D.
Vinyl acetate	2.5	N.D.
Vinyl chloride	2.5	N.D.
Total Xylenes	1.0	N.D.

Analytes reported as N.D. were not present above the stated limit of detection.

DEL MAR ANALYTICAL, IRVINE (ELAP #1197)

Gary Steube
Laboratory Director

Surrogate Standard Recoveries (Accept. Limits):	
1,2-Dichloroethane-d4 (70-121)	104%
Toluene-d8 (81-117)	100%
4-Bromofluorobenzene (74-121)	90%

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Harding Lawson Associates
3 Hutton Centre, Suite 300
Santa Ana, CA 92707
Attention: Andrew Keller

Method Blank

Extracted: Aug 25, 1995
Analyzed: Aug 25, 1995
Reported: Aug 28, 1995
Matrix Wipe

SEMI-VOLATILE ORGANICS by GC/MS (EPA 3550/8270)

Analyte	Detection Limit µg/Wipe	Sample Result µg/Wipe	Analyte	Detection Limit µg/Wipe	Sample Result µg/Wipe
Acenaphthene	5.0	N.D.	Dimethyl phthalate	5.0	N.D.
Acenaphthylene	5.0	N.D.	4,6-Dinitro-2-methylphenol	13	N.D.
Aniline	7.5	N.D.	2,4-Dinitrophenol	13	N.D.
Anthracene	5.0	N.D.	2,4-Dinitrotoluene	5.0	N.D.
Azobenzene	7.5	N.D.	2,6-Dinitrotoluene	5.0	N.D.
Benzidine	50	N.D.	Di-N-octyl phthalate	25	N.D.
Benzoic Acid	25	N.D.	Fluoranthene	5.0	N.D.
Benz(a)anthracene	5.0	N.D.	Fluorene	5.0	N.D.
Benzo(b)fluoranthene	10	N.D.	Hexachlorobenzene	5.0	N.D.
Benzo(k)fluoranthene	10	N.D.	Hexachlorobutadiene	5.0	N.D.
Benzo(g,h,i)perylene	7.5	N.D.	Hexachlorocyclopentadiene	25	N.D.
Benzo(a)pyrene	10	N.D.	Hexachloroethane	10	N.D.
Benzyl alcohol	10	N.D.	Indeno(1,2,3-cd)pyrene	10	N.D.
Bis(2-chloroethoxy)methane	5.0	N.D.	Isophorone	5.0	N.D.
Bis(2-chloroethyl)ether	5.0	N.D.	2-Methylnaphthalene	5.0	N.D.
Bis(2-chloroisopropyl)ether	5.0	N.D.	2-Methylphenol	7.5	N.D.
Bis(2-ethylhexyl)phthalate	13	N.D.	4-Methylphenol	7.5	N.D.
4-Bromophenyl phenyl ether	7.5	N.D.	Naphthalene	7.5	N.D.
Butyl benzyl phthalate	25	N.D.	2-Nitroaniline	10	N.D.
4-Chloroaniline	5.0	N.D.	3-Nitroaniline	10	N.D.
2-Chloronaphthalene	5.0	N.D.	4-Nitroaniline	25	N.D.
4-Chloro-3-methylphenol	5.0	N.D.	Nitrobenzene	25	N.D.
2-Chlorophenol	13	N.D.	2-Nitrophenol	5.0	N.D.
4-Chlorophenyl phenyl ether	5.0	N.D.	4-Nitrophenol	25	N.D.
Chrysene	5.0	N.D.	N-Nitrosodiphenylamine	10	N.D.
Dibenz(a,h)anthracene	13	N.D.	N-Nitroso-di-N-propylamine	7.5	N.D.
Dibenzofuran	5.0	N.D.	Pentachlorophenol	25	N.D.
Di-N-butyl phthalate	13	N.D.	Phenanthrene	5.0	N.D.
1,3-Dichlorobenzene	5.0	N.D.	Phenol	7.5	N.D.
1,4-Dichlorobenzene	5.0	N.D.	Pyrene	7.5	N.D.
1,2-Dichlorobenzene	5.0	N.D.	1,2,4-Trichlorobenzene	5.0	N.D.
3,3-Dichlorobenzidine	25	N.D.	2,4,5-Trichlorophenol	7.5	N.D.
2,4-Dichlorophenol	5.0	N.D.	2,4,6-Trichlorophenol	7.5	N.D.
Diethyl phthalate	5.0	N.D.			
2,4-Dimethylphenol	13	N.D.			

Analytes reported as N.D. were not present above the stated limit of detection.

Surrogate Standard Recoveries (Accept. Limits):	
2-Fluorophenol (25-121)	62%
Phenol-d6 (24-113)	62%
2,4,6-Tribromophenol (19-122)	70%
Nitrobenzene-d5 (23-120)	65%
2-Fluorobiphenyl (30-115)	67%
Terphenyl-d14 (18-137)	78%

DEL MAR ANALYTICAL, IRVINE (ELAP #1197)

Gary Steube
Laboratory Director

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Harding Lawson Associates
3 Hutton Centre, Suite 300
Santa Ana, CA 92707
Attention: Andrew Keller

Method Blank

Extracted: Aug 25, 199
Analyzed: Aug 27, 1995
Reported: Aug 28, 1995
Matrix Wipe

SEMI-VOLATILE ORGANICS by GC/MS (EPA 3550/8270)

Analyte	Detection Limit µg/Wipe	Sample Result µg/Wipe	Analyte	Detection Limit µg/Wipe	Sample Result µg/Wipe
Acenaphthene	5.0	N.D.	Dimethyl phthalate	5.0	N.D.
Acenaphthylene	5.0	N.D.	4,6-Dinitro-2-methylphenol	13	N.D.
Aniline	7.5	N.D.	2,4-Dinitrophenol	13	N.D.
Anthracene	5.0	N.D.	2,4-Dinitrotoluene	5.0	N.D.
Azobenzene	7.5	N.D.	2,6-Dinitrotoluene	5.0	N.D.
Benzidine	50	N.D.	Di-N-octyl phthalate	25	N.D.
Benzoic Acid	25	N.D.	Fluoranthene	5.0	N.D.
Benz(a)anthracene	5.0	N.D.	Fluorene	5.0	N.D.
Benzo(b)fluoranthene	10	N.D.	Hexachlorobenzene	5.0	N.D.
Benzo(k)fluoranthene	10	N.D.	Hexachlorobutadiene	5.0	N.D.
Benzo(g,h,i)perylene	7.5	N.D.	Hexachlorocyclopentadiene	25	N.D.
Benzo(a)pyrene	10	N.D.	Hexachloroethane	10	N.D.
Benzyl alcohol	10	N.D.	Indeno(1,2,3-cd)pyrene	10	N.D.
Bis(2-chloroethoxy)methane	5.0	N.D.	Isophorone	5.0	N.D.
Bis(2-chloroethyl)ether	5.0	N.D.	2-Methylnaphthalene	5.0	N.D.
Bis(2-chloroisopropyl)ether	5.0	N.D.	2-Methylphenol	7.5	N.D.
Bis(2-ethylhexyl)phthalate	13	N.D.	4-Methylphenol	7.5	N.D.
4-Bromophenyl phenyl ether	7.5	N.D.	Naphthalene	7.5	N.D.
Butyl benzyl phthalate	25	N.D.	2-Nitroaniline	10	N.D.
4-Chloroaniline	5.0	N.D.	3-Nitroaniline	10	N.D.
2-Chloronaphthalene	5.0	N.D.	4-Nitroaniline	25	N.D.
4-Chloro-3-methylphenol	5.0	N.D.	Nitrobenzene	25	N.D.
2-Chlorophenol	13	N.D.	2-Nitrophenol	5.0	N.D.
4-Chlorophenyl phenyl ether	5.0	N.D.	4-Nitrophenol	25	N.D.
Chrysene	5.0	N.D.	N-Nitrosodiphenylamine	10	N.D.
Dibenz(a,h)anthracene	13	N.D.	N-Nitroso-di-N-propylamine	7.5	N.D.
Dibenzofuran	5.0	N.D.	Pentachlorophenol	25	N.D.
Di-N-butyl phthalate	13	N.D.	Phenanthrene	5.0	N.D.
1,3-Dichlorobenzene	5.0	N.D.	Phenol	7.5	N.D.
1,4-Dichlorobenzene	5.0	N.D.	Pyrene	7.5	N.D.
1,2-Dichlorobenzene	5.0	N.D.	1,2,4-Trichlorobenzene	5.0	N.D.
3,3-Dichlorobenzidine	25	N.D.	2,4,5-Trichlorophenol	7.5	N.D.
2,4-Dichlorophenol	5.0	N.D.	2,4,6-Trichlorophenol	7.5	N.D.
Diethyl phthalate	5.0	N.D.			
2,4-Dimethylphenol	13	N.D.			

Analytes reported as N.D. were not present above the stated limit of detection.

Surrogate Standard Recoveries (Accept. Limits):	
2-Fluorophenol (25-121)	62%
Phenol-d6 (24-113)	64%
2,4,6-Tribromophenol (19-122)	73%
Nitrobenzene-d5 (23-120)	68%
2-Fluorobiphenyl (30-115)	67%
Terphenyl-d14 (18-137)	77%

DEL MAR ANALYTICAL, IRVINE (ELAP #1197)

Gary Steube
Laboratory Director

Results pertain only to samples tested in the laboratory. This report shall not be reproduced, except in full, without written permission from Del Mar Analytical.

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2465 W. 12th St., Suite 1, Tempe, AZ 85281 (602) 968-8272 FAX (602) 968-1338

Harding Lawson Associates
3 Hutton Centre, Suite 300
Santa Ana, CA 92707
Attention: Andrew Keller

Method Blank

Extracted: Aug 25-26, 1995
Analyzed: Aug 25-28, 1995
Reported: Aug 28, 1995
Matrix Wipe

CALIFORNIA CODE OF REGULATIONS, TITLE 22 METALS

Analyte	EPA Method	STLC Max. Limit mg/L (ppm)	TTLC Max. Limit mg/Kg (ppm)	Detection Limit µg/Wipe		TTLC Sample Result µg/Wipe
Antimony	6010	15	500	20	.....	N.D.
Arsenic	6010	5.0	500	4.0	.....	N.D.
Barium	6010	100	10000	2.0	.....	N.D.
Beryllium	6010	0.75	75	0.40	.....	N.D.
Cadmium	6010	1.0	100	0.40	.....	N.D.
Chromium, VI	7196	5.0	500	1.0	.....	N.D.
Chromium, total	6010	560	2500	2.0	.....	N.D.
Cobalt	6010	80	8000	2.0	.....	N.D.
Copper	6010	25	2500	2.0	.....	N.D.
Lead	6010	5.0	1000	4.0	.....	N.D.
Mercury	7471	0.20	20	0.080	.....	N.D.
Molybdenum	6010	350	3500	2.0	.....	N.D.
Nickel	6010	20	2000	2.0	.....	N.D.
Selenium	6010	1.0	100	4.0	.....	N.D.
Silver	6010	5.0	500	2.0	.....	N.D.
Thallium	6010	7.0	700	20	.....	N.D.
Vanadium	6010	24	2400	2.0	.....	N.D.
Zinc	6010	250	5000	2.0	.....	N.D.

Analytes reported as N.D. were not present above the stated limit of detection.

DEL MAR ANALYTICAL, IRVINE (ELAP #1197)

Gary Steube
Laboratory Director

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2465 W. 12th St., Suite 1, Tempe, AZ 85281 (602) 968-8272 FAX (602) 968-1338

MS/MSD DATA REPORT

EPA METHOD: **8270**
Matrix: Soil

DATE: 8/28/95

SAMPLE #: Blank

Analyte	R1	Sp	MS	MSD	PR1	PR2	RPD	MEAN PR
	ppb	ppb	ppb	ppb	%	%	%	%
1,4-Dichlorobenzene	0	50	32	33	64%	66%	3.1%	65%
n-nitroso-di-n-propylamine	0	50	33	33	66%	66%	0.0%	66%
1,2,4-Trichlorobenzene	0	50	34	35	68%	70%	2.9%	69%
Acenaphthene	0	50	35	36	70%	72%	2.8%	71%
2,4-Dinitrotoluene	0	50	34	34	68%	68%	0.0%	68%
Pyrene	0	50	38	40	76%	80%	5.1%	78%
4-Chloro-3-methylphenol	0	100	66	68	66%	68%	3.0%	67%
2-Chlorophenol	0	100	62	64	62%	64%	3.2%	63%
4-Nitrophenol	0	100	66	72	66%	72%	8.7%	69%
Pentachlorophenol	0	100	65	67	65%	67%	3.0%	66%
Phenol	0	100	65	68	65%	68%	4.5%	67%

Definition of Terms:

R1..... **Result of Sample Analysis**

Sp..... **Spike Concentration Added to Sample**

MS..... **Matrix Spike Result**

MSD..... **Matrix Spike Duplicate Result**

PR1..... **Percent Recovery of MS; ((MS-R1) / SP) X 100**

PR2..... **Percent Recovery of MSD; ((MSD-R1) / SP) X 100**

RPD..... **Relative Percent Difference; ((MS-MSD)/(MS+MSD)/2)) X 100**

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MS/MSD DATA REPORT

EPA METHOD: 624
Matrix: Water

DATE: 8/26/95

SAMPLE #: Blank

Analyte	R1	Sp	MS	MSD	PR1	PR2	RPD	MEAN PR
	ppb	ppb	ppb	ppb	%	%	%	%
Benzene	0	50	66	65	132%	130%	1.5%	131%
Chlorobenzene	0	50	45	48	90%	96%	6.5%	93%
1,1-Dichloroethane	0	50	46	49	92%	98%	6.3%	95%
1,2-Dichlororethane	0	50	45	48	90%	96%	6.5%	93%
1,1-Dichloroethene	0	50	46	49	92%	98%	6.3%	95%
Chloroform	0	50	49	53	98%	106%	7.8%	102%
Tetrachloroethene	0	50	44	47	88%	94%	6.6%	91%
Toluene	0	50	46	49	92%	98%	6.3%	95%
Trichloroethene	0	50	47	48	94%	96%	2.1%	95%
Vinyl Chloride	0	50	49	52	98%	104%	5.9%	101%

Definition of Terms:

R1..... Result of Sample Analysis

Sp..... Spike Concentration Added to Sample

MS..... Matrix Spike Result

MSD..... Matrix Spike Duplicate Result

PR1..... Percent Recovery of MS; ((MS-R1) / SP) X 100

PR2..... Percent Recovery of MSD; ((MSD-R1) / SP) X 100

RPD..... Relative Percent Difference; ((MS-MSD)/(MS+MSD)/2)) X 100

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MS/MSD DATA REPORT

METHOD: **Metals**
Instrument: ICP
Matrix: SOIL

Date: 8/25/95

Sample #: EH04077

Analyte	R1	SP	MS	MSD	PR1	PR2	RPD	MEAN PR
	ppb	ppb	ppb	ppb	%	%	%	%
Antimony	0	1000	1023	967	102%	97%	5.6%	100%
Arsenic	0	1000	1007	1019	101%	102%	1.2%	101%
Barium	0	1000	1019	1004	102%	100%	1.5%	101%
Beryllium	0	1000	1032	1018	103%	102%	1.4%	103%
Cadmium	0	1000	994	985	99%	99%	0.9%	99%
Chromium	144	1000	1101	1130	96%	99%	2.6%	97%
Cobalt	0	1000	997	1013	100%	101%	1.6%	101%
Copper	0	1000	1027	1042	103%	104%	1.4%	103%
Lead	0	1000	1025	1052	103%	105%	2.6%	104%
Molybdenum	0	1000	989	995	99%	100%	0.6%	99%
Nickel	0	1000	981	962	98%	96%	2.0%	97%
Selenium	0	1000	1091	995	109%	100%	9.2%	104%
Silver	0	1000	913	941	91%	94%	3.0%	93%
Thallium	0	1000	998	909	100%	91%	9.3%	95%
Vanadium	0	1000	1002	978	100%	98%	2.4%	99%
Zinc	0	1000	987	1034	99%	103%	4.7%	101%

R1..... ..... Result of Sample Analysis
Sp..... ..... Spike Concentration Added to Sample
MS..... ..... Matrix Spike Result
MSD..... ..... Matrix Spike Duplicate Result
PR1..... ..... Percent Recovery of MS; ((MS-R1) / SP) X 100
PR2..... ..... Percent Recovery of MSD; ((MSD-R1) / SP) X 100
RPD..... ..... Relative Percent Difference; ((MS-MSD)/(MS+MSD)/2)) X 100

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MS/MSD DATA REPORT

EPA METHOD: **3060/7196**
Matrix: Soil

DATE: 8/25/95

SAMPLE #: Blank

Analyte	R1	Sp	MS	MSD	PR1	PR2	RPD	MEAN PR
	ppb	ppb	ppb	ppb	%	%	%	%
Chromium (VI)	0	200	210	209	105%	105%	0.5%	105%

Definition of Terms:

R1..... Result of Sample Analysis

Sp..... Spike Concentration Added to Sample

MS..... Matrix Spike Result

MSD..... Matrix Spike Duplicate Result

PR1..... Percent Recovery of MS; ((MS-R1) / SP) X 100

PR2..... Percent Recovery of MSD; ((MSD-R1) / SP) X 100

RPD..... Relative Percent Difference; ((MS-MSD)/(MS+MSD)/2)) X 100

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MS/MSD DATA REPORT

EPA METHOD: **7471**
Matrix: Soil

DATE: 8/29/95

SAMPLE #: EH02880

Analyte	R1	Sp	MS	MSD	PR1	PR2	RPD	MEAN PR
	ppb	ppb	ppb	ppb	%	%	%	%
Mercury	0	8.0	7.7	7.4	96%	93%	4.0%	94%

Definition of Terms:

R1..... Result of Sample Analysis

Sp..... Spike Concentration Added to Sample

MS..... Matrix Spike Result

MSD..... Matrix Spike Duplicate Result

PR1..... Percent Recovery of MS; ((MS-R1) / SP) X 100

PR2..... Percent Recovery of MSD; ((MSD-R1) / SP) X 100

RPD..... Relative Percent Difference; ((MS-MSD)/(MS+MSD)/2)) X 100

Del Mar Analytical

Harding Lawson Associates
351 Rolling Oaks Drive, Suite 100
Thousand Oaks, CA 91361
(805) 494-7725 • (805) 494-8386 FAX

CHAIN OF CUSTODY FORM

Lab: Del Mar

Samplers: JFK

Job Number: 32026.49

Name/Location: Omega / Whittier

Project Manager: Andrew Keller

Recorder: (Signature Required)

SOURCE CODE	MATRIX: Wipe	Water	Sediment	Soil	Oil	# CONTAINERS & PRESERV.: Unpres.	H_2SO_4	HNO_3	HCL	Ice	SAMPLE NUMBER OR LAB NUMBER: Yr	Wk	Seq	DATE: Yr	Mo	Day	Time	STATION DESCRIPTION/ NOTES
00	X					1					T22-8270			95	08	24	1302	100 cm² Wipe Sample
											T22-CAM						1304	" "
											T20-8270						1306	" "
											T21-CAM						1308	" "
											T20-CAM						1310	" "
											T20-8240						1312	" "
								JFK			~~Tank 10~~							" "
											T23-CAM						1314	" "
											T23-8270						1316	" "
											T23-8240						1318	" "

ANALYSIS REQUESTED

EPA 601/8010	EPA 602/8020	EPA 624/8240	EPA 625/8270	METALS	EPA 8015M/TPHg	EPA 8020/BTEX	EPA 8015M/TPHd,o	ADHS BLS-181	CAM Metals
			X						
									X
			X						
									X
									X
		X							
									X
			X						
		X							

LAB NUMBER: Yr	Wk	Seq	DEPTH IN FEET	COL MTD CD	QA CODE	MISCELLANEOUS
						24 Rush Turnaround
						Fax results To
						Jim Haudesty @
						(310) 907-9826 and
						Andrew Keller @
						(714) 662-3297
						IMMEDIETELY

CHAIN OF CUSTODY RECORD

RELINQUISHED BY: (Signature)	RECEIVED BY: (Signature) Marcia Lemus	DATE/TIME 8-24-95 4:11
RELINQUISHED BY: (Signature) 8-24-95 Marcia Lemus 5:08	RECEIVED BY: (Signature)	DATE/TIME
RELINQUISHED BY: (Signature)	RECEIVED BY: (Signature)	DATE/TIME
RELINQUISHED BY: (Signature)	RECEIVED BY: (Signature)	DATE/TIME
DISPATCHED BY: (Signature) DATE/TIME	RECEIVED FOR LAB BY: (Signature) Langman	DATE/TIME 8/24 508

METHOD OF SHIPMENT

SAMPLE CONDITION WHEN RECEIVED BY THE LABORATORY: hand del, intact, on ice

Laboratory Copy White — Project Office Copy Yellow — Field or Office Copy Pink

Harding Lawson Associates
351 Rolling Oaks Drive, Suite 100
Thousand Oaks, CA 91361
(805) 494-7725 • (805) 494-8386 FAX

CHAIN OF CUSTODY FORM

Lab: Del Mar

Samplers: JFC

Job Number: 32026.49

Name/Location: Omega / Whittier

Project Manager: Andrew Keller

Recorder: _____ (Signature Required)

SOURCE CODE	MATRIX: Wipe	Water	Sediment	Soil	Oil	# CONTAINERS & PRESERV.: Unpres.	H_2SO_4	HNO_3	HCL	Ice	SAMPLE NUMBER OR LAB NUMBER: Yr	Wk	Seq	DATE: Yr	Mo	Day	Time	STATION DESCRIPTION/ NOTES
OO	X					1					P17-8240			95	08	24	1242	2 in² wipe Sample
											T19-CAM						1244	100 cm² Wipe Sample
											T19-8270						1246	" "
											T19-8240						1248	" "
											T18-CAM						1250	" Omega "
											T18-8270						1252	" JFC 8/24/95 "
											T18-8240						1254	" "
											T22-8240						1256	" "
											T21-8240						1258	" "
											T21-8270						1300	" "

ANALYSIS REQUESTED

EPA 601/8010	EPA 602/8020	EPA 624/8240	EPA 625/8270	METALS	EPA 8015M/TPHg	EPA 8020/BTEX	EPA 8015M/TPHd,o	ADHS BLS-181	CAM Metals
		X							
									X
			X						
		X							
									X
			X						
		X							
		X							
		X							
			X						

LAB NUMBER: Yr	Wk	Seq	DEPTH IN FEET	COL MTD CD	QA CODE	MISCELLANEOUS
						24 Rush Turnaround
						Fax results to
						Andrew Keller @
						(714) 662-3297
						and Jim Haldesty
						(310) 907-9826
						IMMEDIETELY

CHAIN OF CUSTODY RECORD

RELINQUISHED BY: (Signature)	RECEIVED BY: (Signature) Marco Lemus 8-24-95	DATE/TIME 11:11
RELINQUISHED BY: (Signature) 8-24-95 Marco Lemus 5:06	RECEIVED BY: (Signature)	DATE/TIME
RELINQUISHED BY: (Signature)	RECEIVED BY: (Signature)	DATE/TIME
RELINQUISHED BY: (Signature) X	RECEIVED BY: (Signature)	DATE/TIME
DISPATCHED BY: (Signature) DATE/TIME	RECEIVED FOR LAB BY: (Signature) Bingman	DATE/TIME 8/24 508

METHOD OF SHIPMENT

SAMPLE CONDITION WHEN RECEIVED BY THE LABORATORY: Hand, del; intact, on ice

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(805) 494-7725 • (805) 494-8386 FAX

CHAIN OF C[illegible]TODY FORM

Lab: Del Mar

Samplers: JFC

Job Number: 32026.49

Name/Location: Omega / Whittier

Project Manager: Andrew Keller

Recorder: [signature] (Signature Required)

SOURCE CODE	MATRIX: Wipe	Water	Sediment	Soil	Oil	# CONTAINERS & PRESERV.: Unpres.	H_2SO_4	HNO_3	HCL	Ice	SAMPLE NUMBER OR LAB NUMBER	DATE: Yr	Mo	Day	Time	STATION DESCRIPTION/ NOTES
00	X					1					P14-8240	95	08	24	1220	100 cm² Wipe Sample
											P14-CAM				1224	" "
											P15-8270				1226	" "
											P15-CAM				1228	" "
											P15-8240				1230	" "
											P16-8240				1232	2 in² Wipe Sample
											P16-8270				1234	" "
											P16-CAM				1236	" "
											P17-8270				1238	" "
											P17-CAM				1240	" "

ANALYSIS REQUESTED

EPA 601/8010	EPA 602/8020	EPA 624/8240	EPA 625/8270	METALS	EPA 8015M/TPHg	EPA 8020/BTEX	EPA 8015M/TPHd,o	ADHS BLS-181	Cam Metals
		X							
									X
			X						
									X
		X							
		X							
			X						
									X
			X						
									X

LAB NUMBER: Yr	Wk	Seq	DEPTH IN FEET	COL MTD CD	QA CODE	MISCELLANEOUS
						24 Rush Turnaround
						Fax results to
						Andrew Keller @
						(714) 662-3297 and
						Jim Hardesty @
						(310) 907-9826
						IMMEDIETELY

CHAIN OF CUSTODY RECORD

RELINQUISHED BY: (Signature)	RECEIVED BY: (Signature)	DATE/TIME
[signature]	Monica Lemus	6-24-95 4:11
RELINQUISHED BY: (Signature) 6-24-95 5:08	RECEIVED BY: (Signature)	DATE/TIME
[signature] Monica Lemus		
RELINQUISHED BY: (Signature)	RECEIVED BY: (Signature)	DATE/TIME
RELINQUISHED BY: (Signature)	RECEIVED BY: (Signature)	DATE/TIME
DISPATCHED BY: (Signature) DATE/TIME	RECEIVED FOR LAB BY: (Signature)	DATE/TIME
	[signature]	6/24 508

METHOD OF SHIPMENT

SAMPLE CONDITION WHEN RECEIVED BY THE LABORATORY: Hand del, intact, on ice

Laboratory Copy White | Project Office Copy Yellow | Field or Office Copy Pink

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CHAIN OF CUSTODY FORM

Lab: Del Mar

Samplers: JFC

Job Number: 32026.49

Name/Location: Omega / Whittier

Project Manager: Andrew Keller

Recorder: [signature] (Signature Required)

SOURCE CODE	MATRIX: Water	Sediment	Soil	Oil	Wipe	# CONTAINERS & PRESERV.: Unpres.	H_2SO_4	HNO_3	HCL	Ice	SAMPLE NUMBER OR LAB NUMBER (Yr Wk Seq)	DATE (Yr Mo Day)	Time	STATION DESCRIPTION/ NOTES	EPA 601/8010	EPA 602/8020	EPA 624/8240	EPA 625/8270	METALS	EPA 8015M/TPHg	EPA 8020/BTEX	EPA 8015M/TPHd,o	ADHS BLS-181	CAM Metals	EPA 8240
00					X	1					Eastbin-8240	95 08 24	1200	100cm² Wipe Sample			X								
					X						Eastbin-8270		1202	" "				X							
					X						Eastbin-CAM		1204	" "										X	
					X						Westbin-8240		1206	" "			X	X			JFC				X
					X						Westbin-8270		1208	" "				X							
					X						Westbin-CAM		1210	" "										X	
					X						P13-CAM		1212	" "										X	
					X						P13-8240		1214	" "			X								
					X						P13-8270		1216	" "				X							
					X						P14-8270		1218	" "				X							

ANALYSIS REQUESTED

LAB NUMBER (Yr Wk Seq)	DEPTH IN FEET	COL MTD CD	QA CODE	MISCELLANEOUS
				24 Hr RUSH
				Fax results to
				Andrew Keller
				(714) 662-3297
				and Jim Hardesty
				(310) 907-9826
				IMMEDIETELY
				East/west BINS
				are highest priority

CHAIN OF CUSTODY RECORD

RELINQUISHED BY: (Signature)	RECEIVED BY: (Signature)	DATE/TIME
[signature]	Marca Lemus	8-24-95 4:11
Marca Lemus 8-24-95 5:08		
DISPATCHED BY: (Signature) DATE/TIME	RECEIVED FOR LAB BY: (Signature) [signature]	8/24 5:08

METHOD OF SHIPMENT

SAMPLE CONDITION WHEN RECEIVED BY THE LABORATORY: hand del, intact, on ice

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Harding Lawson Associates
3 Hutton Centre, Suite 300
Santa Ana, CA 92707
Attention: Andrew Keller

Client Project ID: 32026.48
Omega Chemical/Whittier
Sample Descript: Solid, Cooling 1-8270
Lab Number: EH01996

Sampled: Aug 14, 1995
Received: Aug 14, 1995
Extracted: Aug 14, 1995
Analyzed: Aug 15, 1995
Reported: Aug 17, 1995

SEMI-VOLATILE ORGANICS by GC/MS (EPA 3550/8270)

Analyte	Detection Limit µg/Kg (ppb)	Sample Result µg/Kg (ppb)	Analyte	Detection Limit µg/Kg (ppb)	Sample Result µg/Kg (ppb)
Acenaphthene	29,000	N.D.	Dimethyl phthalate	29,000	N.D.
Acenaphthylene	29,000	N.D.	4,6-Dinitro-2-methylphenol	73,000	N.D.
Aniline	44,000	N.D.	2,4-Dinitrophenol	73,000	N.D.
Anthracene	29,000	N.D.	2,4-Dinitrotoluene	29,000	N.D.
Azobenzene	44,000	N.D.	2,6-Dinitrotoluene	29,000	N.D.
Benzidine	290,000	N.D.	Di-N-octyl phthalate	150,000	N.D.
Benzoic Acid	**150,000**	**190,000**	Fluoranthene	29,000	N.D.
Benz(a)anthracene	29,000	N.D.	Fluorene	29,000	N.D.
Benzo(b)fluoranthene	58,000	N.D.	Hexachlorobenzene	29,000	N.D.
Benzo(k)fluoranthene	58,000	N.D.	Hexachlorobutadiene	29,000	N.D.
Benzo(g,h,i)perylene	44,000	N.D.	Hexachlorocyclopentadiene	150,000	N.D.
Benzo(a)pyrene	58,000	N.D.	Hexachloroethane	58,000	N.D.
Benzyl alcohol	58,000	N.D.	Indeno(1,2,3-cd)pyrene	58,000	N.D.
Bis(2-chloroethoxy)methane	29,000	N.D.	Isophorone	29,000	N.D.
Bis(2-chloroethyl)ether	29,000	N.D.	2-Methylnaphthalene	29,000	N.D.
Bis(2-chloroisopropyl)ether	29,000	N.D.	2-Methylphenol	44,000	N.D.
Bis(2-ethylhexyl)phthalate	73,000	N.D.	4-Methylphenol	44,000	N.D.
4-Bromophenyl phenyl ether	44,000	N.D.	Naphthalene	44,000	N.D.
Butyl benzyl phthalate	150,000	N.D.	2-Nitroaniline	58,000	N.D.
4-Chloroaniline	29,000	N.D.	3-Nitroaniline	58,000	N.D.
2-Chloronaphthalene	29,000	N.D.	4-Nitroaniline	150,000	N.D.
4-Chloro-3-methylphenol	29,000	N.D.	Nitrobenzene	150,000	N.D.
2-Chlorophenol	73,000	N.D.	2-Nitrophenol	29,000	N.D.
4-Chlorophenyl phenyl ether	29,000	N.D.	4-Nitrophenol	150,000	N.D.
Chrysene	29,000	N.D.	N-Nitrosodiphenylamine	58,000	N.D.
Dibenz(a,h)anthracene	73,000	N.D.	N-Nitroso-di-N-propylamine	44,000	N.D.
Dibenzofuran	29,000	N.D.	Pentachlorophenol	150,000	N.D.
Di-N-butyl phthalate	73,000	N.D.	Phenanthrene	29,000	N.D.
1,3-Dichlorobenzene	29,000	N.D.	Phenol	44,000	N.D.
1,4-Dichlorobenzene	29,000	N.D.	Pyrene	44,000	N.D.
1,2-Dichlorobenzene	29,000	N.D.	1,2,4-Trichlorobenzene	29,000	N.D.
3,3-Dichlorobenzidine	150,000	N.D.	2,4,5-Trichlorophenol	44,000	N.D.
2,4-Dichlorophenol	29,000	N.D.	2,4,6-Trichlorophenol	44,000	N.D.
Diethyl phthalate	29,000	N.D.			
2,4-Dimethylphenol	73,000	N.D.			

Analytes reported as N.D. were not present above the stated limit of detection. Due to matrix effects and/or other factors, the sample required dilution.
Detection limits for this sample have been raised by a factor of 290.

DEL MAR ANALYTICAL, IRVINE (ELAP #1197)

Surrogate Standard Recoveries (Accept. Limits):	
2-Fluorophenol (25-121)	72%
Phenol-d6 (24-113)	81%
2,4,6-Tribromophenol (19-122)	87%
Nitrobenzene-d5 (23-120)	54%
2-Fluorobiphenyl (30-115)	88%
Terphenyl-d14 (18-137)	74%

Gary Steube
Laboratory Director

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Harding Lawson Associates
3 Hutton Centre, Suite 300
Santa Ana, CA 92707
Attention: Andrew Keller

Client Project ID: 32026.48
Omega Chemical/Whittier
Sample Descript: Solid, Cooling 2-8270
Lab Number: EH01999

Sampled: Aug 14, 19[illegible]
Received: Aug 14, 1995
Extracted: Aug 14, 1995
Analyzed: Aug 15, 1995
Reported: Aug 17, 1995

SEMI-VOLATILE ORGANICS by GC/MS (EPA 3550/8270)

Analyte	Detection Limit µg/Kg (ppb)	Sample Result µg/Kg (ppb)	Analyte	Detection Limit µg/Kg (ppb)	Sample Result µg/Kg (ppb)
Acenaphthene	28,000	N.D.	Dimethyl phthalate	28,000	N.D.
Acenaphthylene	28,000	N.D.	4,6-Dinitro-2-methylphenol	70,000	N.D.
Aniline	42,000	N.D.	2,4-Dinitrophenol	70,000	N.D.
Anthracene	28,000	N.D.	2,4-Dinitrotoluene	28,000	N.D.
Azobenzene	42,000	N.D.	2,6-Dinitrotoluene	28,000	N.D.
Benzidine	280,000	N.D.	Di-N-octyl phthalate	140,000	N.D.
Benzoic Acid	**140,000**	**160,000**	Fluoranthene	28,000	N.D.
Benz(a)anthracene	28,000	N.D.	Fluorene	28,000	N.D.
Benzo(b)fluoranthene	56,000	N.D.	Hexachlorobenzene	28,000	N.D.
Benzo(k)fluoranthene	56,000	N.D.	Hexachlorobutadiene	28,000	N.D.
Benzo(g,h,i)perylene	42,000	N.D.	Hexachlorocyclopentadiene	140,000	N.D.
Benzo(a)pyrene	56,000	N.D.	Hexachloroethane	56,000	N.D.
Benzyl alcohol	56,000	N.D.	Indeno(1,2,3-cd)pyrene	56,000	N.D.
Bis(2-chloroethoxy)methane	28,000	N.D.	Isophorone	28,000	N.D.
Bis(2-chloroethyl)ether	28,000	N.D.	2-Methylnaphthalene	28,000	N.D.
Bis(2-chloroisopropyl)ether	28,000	N.D.	2-Methylphenol	42,000	N.D.
Bis(2-ethylhexyl)phthalate	70,000	N.D.	4-Methylphenol	42,000	N.D.
4-Bromophenyl phenyl ether	42,000	N.D.	Naphthalene	42,000	N.D.
Butyl benzyl phthalate	140,000	N.D.	2-Nitroaniline	56,000	N.D.
4-Chloroaniline	28,000	N.D.	3-Nitroaniline	56,000	N.D.
2-Chloronaphthalene	28,000	N.D.	4-Nitroaniline	140,000	N.D.
4-Chloro-3-methylphenol	28,000	N.D.	Nitrobenzene	140,000	N.D.
2-Chlorophenol	70,000	N.D.	2-Nitrophenol	28,000	N.D.
4-Chlorophenyl phenyl ether	28,000	N.D.	4-Nitrophenol	140,000	N.D.
Chrysene	28,000	N.D.	N-Nitrosodiphenylamine	56,000	N.D.
Dibenz(a,h)anthracene	70,000	N.D.	N-Nitroso-di-N-propylamine	42,000	N.D.
Dibenzofuran	28,000	N.D.	Pentachlorophenol	140,000	N.D.
Di-N-butyl phthalate	70,000	N.D.	Phenanthrene	28,000	N.D.
1,3-Dichlorobenzene	28,000	N.D.	Phenol	42,000	N.D.
1,4-Dichlorobenzene	28,000	N.D.	Pyrene	42,000	N.D.
1,2-Dichlorobenzene	28,000	N.D.	1,2,4-Trichlorobenzene	28,000	N.D.
3,3-Dichlorobenzidine	140,000	N.D.	2,4,5-Trichlorophenol	42,000	N.D.
2,4-Dichlorophenol	28,000	N.D.	2,4,6-Trichlorophenol	42,000	N.D.
Diethyl phthalate	28,000	N.D.			
2,4-Dimethylphenol	70,000	N.D.			

Analytes reported as N.D. were not present above the stated limit of detection. Due to matrix effects and/or other factors, the sample required dilution.
Detection limits for this sample have been raised by a factor of 280.

DEL MAR ANALYTICAL, IRVINE (ELAP #1197)

Surrogate Standard Recoveries (Accept. Limits):	
2-Fluorophenol (25-121)	49%
Phenol-d6 (24-113)	79%
2,4,6-Tribromophenol (19-122)	83%
Nitrobenzene-d5 (23-120)	56%
2-Fluorobiphenyl (30-115)	79%
Terphenyl-d14 (18-137)	77%

Gary Steube
Laboratory Director

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Harding Lawson Associates
3 Hutton Centre, Suite 300
Santa Ana, CA 92707
Attention: Andrew Keller

Client Project ID: 32026.48
Omega Chemical/Whittier
Sample Descript: Wipe, Tank 5-8270
Lab Number: EH02012

Sampled: Aug 14, 1995
Received: Aug 14, 1995
Extracted: Aug 14, 1995
Analyzed: Aug 15, 1995
Reported: Aug 17, 1995

SEMI-VOLATILE ORGANICS by GC/MS (EPA 3550/8270)

Analyte	Detection Limit µg/Wipe	Sample Result µg/Wipe	Analyte	Detection Limit µg/Wipe	Sample Result µg/Wipe
Acenaphthene	5.0	N.D.	Dimethyl phthalate	5.0	N.D.
Acenaphthylene	5.0	N.D.	4,6-Dinitro-2-methylphenol	13	N.D.
Aniline	7.5	N.D.	2,4-Dinitrophenol	13	N.D.
Anthracene	5.0	N.D.	2,4-Dinitrotoluene	5.0	N.D.
Azobenzene	7.5	N.D.	2,6-Dinitrotoluene	5.0	N.D.
Benzidine	50	N.D.	Di-N-octyl phthalate	25	N.D.
Benzoic Acid	25	N.D.	Fluoranthene	5.0	N.D.
Benz(a)anthracene	5.0	N.D.	Fluorene	5.0	N.D.
Benzo(b)fluoranthene	10	N.D.	Hexachlorobenzene	5.0	N.D.
Benzo(k)fluoranthene	10	N.D.	Hexachlorobutadiene	5.0	N.D.
Benzo(g,h,i)perylene	7.5	N.D.	Hexachlorocyclopentadiene	25	N.D.
Benzo(a)pyrene	10	N.D.	Hexachloroethane	10	N.D.
Benzyl alcohol	10	N.D.	Indeno(1,2,3-cd)pyrene	10	N.D.
Bis(2-chloroethoxy)methane	5.0	N.D.	Isophorone	5.0	N.D.
Bis(2-chloroethyl)ether	5.0	N.D.	2-Methylnaphthalene	5.0	N.D.
Bis(2-chloroisopropyl)ether	5.0	N.D.	2-Methylphenol	7.5	N.D.
Bis(2-ethylhexyl)phthalate	**13**	**18**	4-Methylphenol	7.5	N.D.
4-Bromophenyl phenyl ether	7.5	N.D.	Naphthalene	7.5	N.D.
Butyl benzyl phthalate	25	N.D.	2-Nitroaniline	10	N.D.
4-Chloroaniline	5.0	N.D.	3-Nitroaniline	10	N.D.
2-Chloronaphthalene	5.0	N.D.	4-Nitroaniline	25	N.D.
4-Chloro-3-methylphenol	5.0	N.D.	Nitrobenzene	25	N.D.
2-Chlorophenol	13	N.D.	2-Nitrophenol	5.0	N.D.
4-Chlorophenyl phenyl ether	5.0	N.D.	4-Nitrophenol	25	N.D.
Chrysene	5.0	N.D.	N-Nitrosodiphenylamine	10	N.D.
Dibenz(a,h)anthracene	13	N.D.	N-Nitroso-di-N-propylamine	7.5	N.D.
Dibenzofuran	5.0	N.D.	Pentachlorophenol	25	N.D.
Di-N-butyl phthalate	13	N.D.	Phenanthrene	5.0	N.D.
1,3-Dichlorobenzene	5.0	N.D.	Phenol	7.5	N.D.
1,4-Dichlorobenzene	5.0	N.D.	Pyrene	7.5	N.D.
1,2-Dichlorobenzene	5.0	N.D.	1,2,4-Trichlorobenzene	5.0	N.D.
3,3-Dichlorobenzidine	25	N.D.	2,4,5-Trichlorophenol	7.5	N.D.
2,4-Dichlorophenol	5.0	N.D.	2,4,6-Trichlorophenol	7.5	N.D.
Diethyl phthalate	5.0	N.D.			
2,4-Dimethylphenol	13	N.D.			

Analytes reported as N.D. were not present above the stated limit of detection.

Surrogate Standard Recoveries (Accept. Limits):	
2-Fluorophenol (25-121)	76%
Phenol-d6 (24-113)	83%
2,4,6-Tribromophenol (19-122)	91%
Nitrobenzene-d5 (23-120)	83%
2-Fluorobiphenyl (30-115)	85%
Terphenyl-d14 (18-137)	70%

DEL MAR ANALYTICAL, IRVINE (ELAP #1197)

Gary Steube
Laboratory Director

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Harding Lawson Associates
3 Hutton Centre, Suite 300
Santa Ana, CA 92707
Attention: Andrew Keller

Client Project ID: 32026.48
Omega Chemical/Whittier
Sample Descript: Solid, Cooling 1-8240
Lab Number: EH01997

Sampled: Aug 14, 19
Received: Aug 14, 1995
Extracted: Aug 14, 1995
Analyzed: Aug 14, 1995
Reported: Aug 17, 1995

VOLATILE ORGANICS by GC/MS (EPA 8240)

Analyte	Detection Limit µg/Kg (ppb)	Sample Result µg/Kg (ppb)
Acetone	100	N.D.
Benzene	20	N.D.
Bromodichloromethane	20	N.D.
Bromoform	20	N.D.
Bromomethane	50	N.D.
2-Butanone	100	N.D.
Carbon disulfide	50	N.D.
Carbon tetrachloride	50	N.D.
Chlorobenzene	20	N.D.
Chlorodibromomethane	20	N.D.
Chloroethane	50	N.D.
2-Chloroethyl vinyl ether	20	N.D.
Chloroform	20	N.D.
Chloromethane	50	N.D.
1,1-Dichloroethane	20	N.D.
1,2-Dichloroethane	20	N.D.
1,1-Dichloroethene	50	N.D.
cis-1,2-Dichloroethene	20	N.D.
trans-1,2-Dichloroethene	20	N.D.
1,2-Dichloropropane	20	N.D.
cis-1,3-Dichloropropene	20	N.D.
trans-1,3-Dichloropropene	20	N.D.
Ethylbenzene	20	N.D.
2-Hexanone	100	N.D.
Methylene chloride	100	N.D.
4-Methyl-2-pentanone	50	N.D.
Styrene	20	N.D.
1,1,2,2-Tetrachloroethane	20	N.D.
Tetrachloroethene	20	N.D.
Toluene	20	N.D.
1,1,1-Trichloroethane	20	N.D.
1,1,2-Trichloroethane	20	N.D.
Trichloroethene	20	N.D.
Trichlorofluoromethane	50	N.D.
Vinyl acetate	50	N.D.
Vinyl chloride	50	N.D.
Total Xylenes	20	N.D.

Analytes reported as N.D. were not present above the stated limit of detection. Due to matrix effects and/or other factors, the sample required dilution. Detection limits for this sample have been raised by a factor of 10.

DEL MAR ANALYTICAL, IRVINE (ELAP #1197)

Gary Steube
Laboratory Director

Surrogate Standard Recoveries (Accept. Limits):	
1,2-Dichloroethane-d4 (70-121).....	102%
Toluene-d8 (81-117).....	101%
4-Bromofluorobenzene (74-121).....	99%

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Harding Lawson Associates	Client Project ID:	32026.48	Sampled: Aug 14, 1995
3 Hutton Centre, Suite 300		Omega Chemical/Whittier	Received: Aug 14, 1995
Santa Ana, CA 92707	Sample Descript:	Solid, Cooling 2-8240	Extracted: Aug 14, 1995
Attention: Andrew Keller	Lab Number:	EH02001	Analyzed: Aug 14, 1995
			Reported: Aug 17, 1995

VOLATILE ORGANICS by GC/MS (EPA 8240)

Analyte	Detection Limit µg/Kg (ppb)	Sample Result µg/Kg (ppb)
Acetone	100	N.D.
Benzene	20	N.D.
Bromodichloromethane	20	N.D.
Bromoform	20	N.D.
Bromomethane	50	N.D.
2-Butanone	100	N.D.
Carbon disulfide	50	N.D.
Carbon tetrachloride	50	N.D.
Chlorobenzene	20	N.D.
Chlorodibromomethane	20	N.D.
Chloroethane	50	N.D.
2-Chloroethyl vinyl ether	20	N.D.
Chloroform	20	N.D.
Chloromethane	50	N.D.
1,1-Dichloroethane	20	N.D.
,2-Dichloroethane	20	N.D.
1,1-Dichloroethene	50	N.D.
cis-1,2-Dichloroethene	20	N.D.
trans-1,2-Dichloroethene	20	N.D.
1,2-Dichloropropane	20	N.D.
cis-1,3-Dichloropropene	20	N.D.
trans-1,3-Dichloropropene	20	N.D.
Ethylbenzene	20	N.D.
2-Hexanone	100	N.D.
Methylene chloride	100	N.D.
4-Methyl-2-pentanone	50	N.D.
Styrene	20	N.D.
1,1,2,2-Tetrachloroethane	20	N.D.
Tetrachloroethene	20	N.D.
Toluene	20	N.D.
1,1,1-Trichloroethane	20	N.D.
1,1,2-Trichloroethane	20	N.D.
Trichloroethene	20	N.D.
Trichlorofluoromethane	50	N.D.
Vinyl acetate	50	N.D.
Vinyl chloride	50	N.D.
Total Xylenes	20	N.D.

Analytes reported as N.D. were not present above the stated limit of detection. Due to matrix effects and/or other factors, the sample required dilution. Detection limits for this sample have been raised by a factor of 10.

DEL MAR ANALYTICAL, IRVINE (ELAP #1197)

Gary Steube
Laboratory Director

Surrogate Standard Recoveries (Accept. Limits):	
1,2-Dichloroethane-d4 (70-121)	103%
Toluene-d8 (81-117)	104%
4-Bromofluorobenzene (74-121)	99%

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2465 W. 12th St., Suite 1, Tempe, AZ 85281 (602) 968-8272 FAX (602) 968-1338

Harding Lawson Associates
3 Hutton Centre, Suite 300
Santa Ana, CA 92707
Attention: Andrew Keller

Client Project ID: 32026.48
Omega Chemical/Whittier
Sample Descript: Wipe, Tank 8-8240
Lab Number: EH02002

Sampled: Aug 14, 199
Received: Aug 14, 1995
Extracted: Aug 14, 1995
Analyzed: Aug 14, 1995
Reported: Aug 17, 1995

VOLATILE ORGANICS by GC/MS (EPA 8240)

Analyte	Detection Limit µg/Wipe	Sample Result µg/Wipe
Acetone	5.0	N.D.
Benzene	1.0	N.D.
Bromodichloromethane	1.0	N.D.
Bromoform	1.0	N.D.
Bromomethane	2.5	N.D.
2-Butanone	5.0	N.D.
Carbon disulfide	2.5	N.D.
Carbon tetrachloride	2.5	N.D.
Chlorobenzene	1.0	N.D.
Chlorodibromomethane	1.0	N.D.
Chloroethane	2.5	N.D.
2-Chloroethyl vinyl ether	1.0	N.D.
Chloroform	1.0	N.D.
Chloromethane	2.5	N.D.
1,1-Dichloroethane	1.0	N.D.
1,2-Dichloroethane	1.0	N.D.
1,1-Dichloroethene	2.5	N.D.
cis-1,2-Dichloroethene	1.0	N.D.
trans-1,2-Dichloroethene	1.0	N.D.
1,2-Dichloropropane	1.0	N.D.
cis-1,3-Dichloropropene	1.0	N.D.
trans-1,3-Dichloropropene	1.0	N.D.
Ethylbenzene	1.0	N.D.
2-Hexanone	5.0	N.D.
Methylene chloride	5.0	N.D.
4-Methyl-2-pentanone	2.5	N.D.
Styrene	1.0	N.D.
1,1,2,2-Tetrachloroethane	1.0	N.D.
Tetrachloroethene	1.0	N.D.
Toluene	1.0	N.D.
1,1,1-Trichloroethane	1.0	N.D.
1,1,2-Trichloroethane	1.0	N.D.
Trichloroethene	1.0	N.D.
Trichlorofluoromethane	2.5	N.D.
Vinyl acetate	2.5	N.D.
Vinyl chloride	2.5	N.D.
Total Xylenes	1.0	N.D.

Analytes reported as N.D. were not present above the stated limit of detection.

DEL MAR ANALYTICAL, IRVINE (ELAP #1197)

Gary Steube
Laboratory Director

Surrogate Standard Recoveries (Accept. Limits):	
1,2-Dichloroethane-d4 (70-121)	106%
Toluene-d8 (81-117)	98%
4-Bromofluorobenzene (74-121)	105%

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2465 W. 12th St., Suite 1, Tempe, AZ 85281 (602) 968-8272 FAX (602) 968-1338

Harding Lawson Associates
3 Hutton Centre, Suite 300
Santa Ana, CA 92707
Attention: Andrew Keller

Client Project ID: 32026.48
Omega Chemical/Whittier
Sample Descript: Wipe, Sheila-8240
Lab Number: EH02003

Sampled: Aug 14, 1995
Received: Aug 14, 1995
Extracted: Aug 14, 1995
Analyzed: Aug 14, 1995
Reported: Aug 17, 1995

VOLATILE ORGANICS by GC/MS (EPA 8240)

Analyte	Detection Limit µg/Wipe	Sample Result µg/Wipe
Acetone	5.0	N.D.
Benzene	1.0	N.D.
Bromodichloromethane	1.0	N.D.
Bromoform	1.0	N.D.
Bromomethane	2.5	N.D.
2-Butanone	5.0	N.D.
Carbon disulfide	2.5	N.D.
Carbon tetrachloride	2.5	N.D.
Chlorobenzene	1.0	N.D.
Chlorodibromomethane	1.0	N.D.
Chloroethane	2.5	N.D.
2-Chloroethyl vinyl ether	1.0	N.D.
Chloroform	1.0	N.D.
Chloromethane	2.5	N.D.
1,1-Dichloroethane	1.0	N.D.
1,2-Dichloroethane	1.0	N.D.
1,1-Dichloroethene	2.5	N.D.
cis-1,2-Dichloroethene	1.0	N.D.
trans-1,2-Dichloroethene	1.0	N.D.
1,2-Dichloropropane	1.0	N.D.
cis-1,3-Dichloropropene	1.0	N.D.
trans-1,3-Dichloropropene	1.0	N.D.
Ethylbenzene	1.0	N.D.
2-Hexanone	5.0	N.D.
Methylene chloride	5.0	N.D.
4-Methyl-2-pentanone	2.5	N.D.
Styrene	1.0	N.D.
1,1,2,2-Tetrachloroethane	1.0	N.D.
Tetrachloroethene	1.0	N.D.
Toluene	1.0	N.D.
1,1,1-Trichloroethane	1.0	N.D.
1,1,2-Trichloroethane	1.0	N.D.
Trichloroethene	1.0	N.D.
Trichlorofluoromethane	2.5	N.D.
Vinyl acetate	2.5	N.D.
Vinyl chloride	2.5	N.D.
Total Xylenes	1.0	N.D.

Analytes reported as N.D. were not present above the stated limit of detection.

DEL MAR ANALYTICAL, IRVINE (ELAP #1197)

Gary Steube
Laboratory Director

Surrogate Standard Recoveries (Accept. Limits):	
1,2-Dichloroethane-d4 (70-121).....	112%
Toluene-d8 (81-117).....	99%
4-Bromofluorobenzene (74-121).....	107%

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2465 W. 12th St., Suite 1, Tempe, AZ 85281 (602) 968-8272 FAX (602) 968-1338

Harding Lawson Associates	Client Project ID:	32026.48	Sampled: Aug 14, 199
3 Hutton Centre, Suite 300		Omega Chemical/Whittier	Received: Aug 14, 1995
Santa Ana, CA 92707	Sample Descript:	Wipe, Tank 9-8240	Extracted: Aug 14, 1995
Attention: Andrew Keller	Lab Number:	EH02004	Analyzed: Aug 14, 1995
			Reported: Aug 17, 1995

VOLATILE ORGANICS by GC/MS (EPA 8240)

Analyte	Detection Limit µg/Wipe	Sample Result µg/Wipe
Acetone	5.0	N.D.
Benzene	1.0	N.D.
Bromodichloromethane	1.0	N.D.
Bromoform	1.0	N.D.
Bromomethane	2.5	N.D.
2-Butanone	5.0	N.D.
Carbon disulfide	2.5	N.D.
Carbon tetrachloride	2.5	N.D.
Chlorobenzene	1.0	N.D.
Chlorodibromomethane	1.0	N.D.
Chloroethane	2.5	N.D.
2-Chloroethyl vinyl ether	1.0	N.D.
Chloroform	1.0	N.D.
Chloromethane	2.5	N.D.
1,1-Dichloroethane	1.0	N.D.
1,2-Dichloroethane	1.0	N.D.
1,1-Dichloroethene	2.5	N.D.
cis-1,2-Dichloroethene	1.0	N.D.
trans-1,2-Dichloroethene	1.0	N.D.
1,2-Dichloropropane	1.0	N.D.
cis-1,3-Dichloropropene	1.0	N.D.
trans-1,3-Dichloropropene	1.0	N.D.
Ethylbenzene	1.0	N.D.
2-Hexanone	5.0	N.D.
Methylene chloride	5.0	N.D.
4-Methyl-2-pentanone	2.5	N.D.
Styrene	1.0	N.D.
1,1,2,2-Tetrachloroethane	1.0	N.D.
Tetrachloroethene	1.0	N.D.
Toluene	1.0	N.D.
1,1,1-Trichloroethane	1.0	N.D.
1,1,2-Trichloroethane	1.0	N.D.
Trichloroethene	1.0	N.D.
Trichlorofluoromethane	2.5	N.D.
Vinyl acetate	2.5	N.D.
Vinyl chloride	2.5	N.D.
Total Xylenes	1.0	N.D.

Analytes reported as N.D. were not present above the stated limit of detection.

DEL MAR ANALYTICAL, IRVINE (ELAP #1197)

Gary Steube
Laboratory Director

Surrogate Standard Recoveries (Accept. Limits):	
1,2-Dichloroethane-d4 (70-121)	112%
Toluene-d8 (81-117)	99%
4-Bromofluorobenzene (74-121)	102%

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2465 W. 12th St., Suite 1, Tempe, AZ 85281 (602) 968-8272 FAX (602) 968-1338

Harding Lawson Associates
3 Hutton Centre, Suite 300
Santa Ana, CA 92707
Attention: Andrew Keller

Client Project ID: 32026.48
Omega Chemical/Whittier
Sample Descript: Wipe, 2K-4-8240
Lab Number: EH02005

Sampled: Aug 14, 1995
Received: Aug 14, 1995
Extracted: Aug 14, 1995
Analyzed: Aug 14, 1995
Reported: Aug 17, 1995

VOLATILE ORGANICS by GC/MS (EPA 8240)

Analyte	Detection Limit µg/Wipe	Sample Result µg/Wipe
Acetone	5.0	N.D.
Benzene	1.0	N.D.
Bromodichloromethane	1.0	N.D.
Bromoform	1.0	N.D.
Bromomethane	2.5	N.D.
2-Butanone	5.0	N.D.
Carbon disulfide	2.5	N.D.
Carbon tetrachloride	2.5	N.D.
Chlorobenzene	1.0	N.D.
Chlorodibromomethane	1.0	N.D.
Chloroethane	2.5	N.D.
2-Chloroethyl vinyl ether	1.0	N.D.
Chloroform	1.0	N.D.
Chloromethane	2.5	N.D.
1,1-Dichloroethane	1.0	N.D.
1,2-Dichloroethane	1.0	N.D.
1,1-Dichloroethene	2.5	N.D.
cis-1,2-Dichloroethene	1.0	N.D.
trans-1,2-Dichloroethene	1.0	N.D.
1,2-Dichloropropane	1.0	N.D.
cis-1,3-Dichloropropene	1.0	N.D.
trans-1,3-Dichloropropene	1.0	N.D.
Ethylbenzene	1.0	N.D.
2-Hexanone	5.0	N.D.
Methylene chloride	5.0	N.D.
4-Methyl-2-pentanone	2.5	N.D.
Styrene	1.0	N.D.
1,1,2,2-Tetrachloroethane	1.0	N.D.
Tetrachloroethene	1.0	N.D.
Toluene	1.0	N.D.
1,1,1-Trichloroethane	1.0	N.D.
1,1,2-Trichloroethane	1.0	N.D.
Trichloroethene	1.0	N.D.
Trichlorofluoromethane	2.5	N.D.
Vinyl acetate	2.5	N.D.
Vinyl chloride	2.5	N.D.
Total Xylenes	1.0	N.D.

Analytes reported as N.D. were not present above the stated limit of detection.

DEL MAR ANALYTICAL, IRVINE (ELAP #1197)

Gary Steube
Laboratory Director

Surrogate Standard Recoveries (Accept. Limits):	
1,2-Dichloroethane-d4 (70-121)	113%
Toluene-d8 (81-117)	100%
4-Bromofluorobenzene (74-121)	103%

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Harding Lawson Associates
3 Hutton Centre, Suite 300
Santa Ana, CA 92707
Attention: Andrew Keller

Client Project ID: 32026.48
Omega Chemical/Whittier
Sample Descript: Wipe, 2K-3-8240
Lab Number: EH02006

Sampled: Aug 14, 199
Received: Aug 14, 1995
Extracted: Aug 14, 1995
Analyzed: Aug 14, 1995
Reported: Aug 17, 1995

VOLATILE ORGANICS by GC/MS (EPA 8240)

Analyte	Detection Limit µg/Wipe	Sample Result µg/Wipe
Acetone	5.0	N.D.
Benzene	1.0	N.D.
Bromodichloromethane	1.0	N.D.
Bromoform	1.0	N.D.
Bromomethane	2.5	N.D.
2-Butanone	5.0	N.D.
Carbon disulfide	2.5	N.D.
Carbon tetrachloride	2.5	N.D.
Chlorobenzene	1.0	N.D.
Chlorodibromomethane	1.0	N.D.
Chloroethane	2.5	N.D.
2-Chloroethyl vinyl ether	1.0	N.D.
Chloroform	1.0	N.D.
Chloromethane	2.5	N.D.
1,1-Dichloroethane	1.0	N.D.
1,2-Dichloroethane	1.0	N.D.
1,1-Dichloroethene	2.5	N.D.
cis-1,2-Dichloroethene	1.0	N.D.
trans-1,2-Dichloroethene	1.0	N.D.
1,2-Dichloropropane	1.0	N.D.
cis-1,3-Dichloropropene	1.0	N.D.
trans-1,3-Dichloropropene	1.0	N.D.
Ethylbenzene	1.0	N.D.
2-Hexanone	5.0	N.D.
Methylene chloride	5.0	N.D.
4-Methyl-2-pentanone	2.5	N.D.
Styrene	1.0	N.D.
1,1,2,2-Tetrachloroethane	1.0	N.D.
Tetrachloroethene	1.0	N.D.
Toluene	1.0	N.D.
1,1,1-Trichloroethane	1.0	N.D.
1,1,2-Trichloroethane	1.0	N.D.
Trichloroethene	1.0	N.D.
Trichlorofluoromethane	2.5	N.D.
Vinyl acetate	2.5	N.D.
Vinyl chloride	2.5	N.D.
Total Xylenes	1.0	N.D.

Analytes reported as N.D. were not present above the stated limit of detection.

DEL MAR ANALYTICAL, IRVINE (ELAP #1197)

Gary Steube
Laboratory Director

Surrogate Standard Recoveries (Accept. Limits):	
1,2-Dichloroethane-d4 (70-121)	113%
Toluene-d8 (81-117)	100%
4-Bromofluorobenzene (74-121)	102%

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2465 W. 12th St., Suite 1, Tempe, AZ 85281 (602) 968-8272 FAX (602) 968-1338

Harding Lawson Associates	Client Project ID:	32026.48	Sampled: Aug 14, 1995
3 Hutton Centre, Suite 300		Omega Chemical/Whittier	Received: Aug 14, 1995
Santa Ana, CA 92707	Sample Descript:	Wipe, 2K-2-8240	Extracted: Aug 14, 1995
Attention: Andrew Keller	Lab Number:	EH02007	Analyzed: Aug 14, 1995
			Reported: Aug 17, 1995

VOLATILE ORGANICS by GC/MS (EPA 8240)

Analyte	Detection Limit µg/Wipe	Sample Result µg/Wipe
Acetone	5.0	N.D.
Benzene	1.0	N.D.
Bromodichloromethane	1.0	N.D.
Bromoform	1.0	N.D.
Bromomethane	2.5	N.D.
2-Butanone	5.0	N.D.
Carbon disulfide	2.5	N.D.
Carbon tetrachloride	2.5	N.D.
Chlorobenzene	1.0	N.D.
Chlorodibromomethane	1.0	N.D.
Chloroethane	2.5	N.D.
2-Chloroethyl vinyl ether	1.0	N.D.
Chloroform	1.0	N.D.
Chloromethane	2.5	N.D.
1,1-Dichloroethane	1.0	N.D.
1,2-Dichloroethane	1.0	N.D.
1,1-Dichloroethene	2.5	N.D.
cis-1,2-Dichloroethene	1.0	N.D.
trans-1,2-Dichloroethene	1.0	N.D.
1,2-Dichloropropane	1.0	N.D.
cis-1,3-Dichloropropene	1.0	N.D.
trans-1,3-Dichloropropene	1.0	N.D.
Ethylbenzene	1.0	N.D.
2-Hexanone	5.0	N.D.
Methylene chloride	5.0	N.D.
4-Methyl-2-pentanone	2.5	N.D.
Styrene	1.0	N.D.
1,1,2,2-Tetrachloroethane	1.0	N.D.
Tetrachloroethene	1.0	N.D.
Toluene	1.0	N.D.
1,1,1-Trichloroethane	1.0	N.D.
1,1,2-Trichloroethane	1.0	N.D.
Trichloroethene	1.0	N.D.
Trichlorofluoromethane	2.5	N.D.
Vinyl acetate	2.5	N.D.
Vinyl chloride	2.5	N.D.
Total Xylenes	1.0	N.D.

Analytes reported as N.D. were not present above the stated limit of detection.

DEL MAR ANALYTICAL, IRVINE (ELAP #1197)

Gary Steube
Laboratory Director

Surrogate Standard Recoveries (Accept. Limits):	
1,2-Dichloroethane-d4 (70-121)	111%
Toluene-d8 (81-117)	99%
4-Bromofluorobenzene (74-121)	99%

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Harding Lawson Associates	Client Project ID: 32026.48	Sampled: Aug 14, 1995
3 Hutton Centre, Suite 300	Omega Chemical/Whittier	Received: Aug 14, 1995
Santa Ana, CA 92707	Sample Descript: Wipe, Westmix-8240	Extracted: Aug 14, 1995
Attention: Andrew Keller	Lab Number: EH02008	Analyzed: Aug 14, 1995
		Reported: Aug 17, 1995

VOLATILE ORGANICS by GC/MS (EPA 8240)

Analyte	Detection Limit µg/Wipe	Sample Result µg/Wipe
Acetone	5.0	N.D.
Benzene	1.0	N.D.
Bromodichloromethane	1.0	N.D.
Bromoform	1.0	N.D.
Bromomethane	2.5	N.D.
2-Butanone	5.0	N.D.
Carbon disulfide	2.5	N.D.
Carbon tetrachloride	2.5	N.D.
Chlorobenzene	1.0	N.D.
Chlorodibromomethane	1.0	N.D.
Chloroethane	2.5	N.D.
2-Chloroethyl vinyl ether	1.0	N.D.
Chloroform	1.0	N.D.
Chloromethane	2.5	N.D.
1,1-Dichloroethane	1.0	N.D.
1,2-Dichloroethane	1.0	N.D.
1,1-Dichloroethene	2.5	N.D.
cis-1,2-Dichloroethene	1.0	N.D.
trans-1,2-Dichloroethene	1.0	N.D.
1,2-Dichloropropane	1.0	N.D.
cis-1,3-Dichloropropene	1.0	N.D.
trans-1,3-Dichloropropene	1.0	N.D.
Ethylbenzene	1.0	N.D.
2-Hexanone	5.0	N.D.
Methylene chloride	5.0	N.D.
4-Methyl-2-pentanone	2.5	N.D.
Styrene	1.0	N.D.
1,1,2,2-Tetrachloroethane	1.0	N.D.
Tetrachloroethene	1.0	N.D.
Toluene	1.0	N.D.
1,1,1-Trichloroethane	1.0	N.D.
1,1,2-Trichloroethane	1.0	N.D.
Trichloroethene	1.0	N.D.
Trichlorofluoromethane	2.5	N.D.
Vinyl acetate	2.5	N.D.
Vinyl chloride	2.5	N.D.
Total Xylenes	1.0	N.D.

Analytes reported as N.D. were not present above the stated limit of detection.

DEL MAR ANALYTICAL, IRVINE (ELAP #1197)

Gary Steube
Laboratory Director

Surrogate Standard Recoveries (Accept. Limits):	
1,2-Dichloroethane-d4 (70-121).....	111%
Toluene-d8 (81-117).....	99%
4-Bromofluorobenzene (74-121).....	98%

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Harding Lawson Associates
3 Hutton Centre, Suite 300
Santa Ana, CA 92707
Attention: Andrew Keller

Client Project ID: 32026.48
Omega Chemical/Whittier
Sample Descript: Wipe, Eastmix-8240
Lab Number: EH02009

Sampled: Aug 14, 1995
Received: Aug 14, 1995
Extracted: Aug 15, 1995
Analyzed: Aug 15, 1995
Reported: Aug 17, 1995

VOLATILE ORGANICS by GC/MS (EPA 8240)

Analyte	Detection Limit µg/Wipe	Sample Result µg/Wipe
Acetone	5.0	N.D.
Benzene	1.0	N.D.
Bromodichloromethane	1.0	N.D.
Bromoform	1.0	N.D.
Bromomethane	2.5	N.D.
2-Butanone	5.0	N.D.
Carbon disulfide	2.5	N.D.
Carbon tetrachloride	2.5	N.D.
Chlorobenzene	1.0	N.D.
Chlorodibromomethane	1.0	N.D.
Chloroethane	2.5	N.D.
2-Chloroethyl vinyl ether	1.0	N.D.
Chloroform	1.0	N.D.
Chloromethane	2.5	N.D.
1,1-Dichloroethane	1.0	N.D.
1,2-Dichloroethane	1.0	N.D.
1,1-Dichloroethene	2.5	N.D.
cis-1,2-Dichloroethene	1.0	N.D.
trans-1,2-Dichloroethene	1.0	N.D.
1,2-Dichloropropane	1.0	N.D.
cis-1,3-Dichloropropene	1.0	N.D.
trans-1,3-Dichloropropene	1.0	N.D.
Ethylbenzene	1.0	N.D.
2-Hexanone	5.0	N.D.
Methylene chloride	5.0	N.D.
4-Methyl-2-pentanone	2.5	N.D.
Styrene	1.0	N.D.
1,1,2,2-Tetrachloroethane	1.0	N.D.
Tetrachloroethene	1.0	N.D.
Toluene	1.0	N.D.
1,1,1-Trichloroethane	1.0	N.D.
1,1,2-Trichloroethane	1.0	N.D.
Trichloroethene	1.0	N.D.
Trichlorofluoromethane	2.5	N.D.
Vinyl acetate	2.5	N.D.
Vinyl chloride	2.5	N.D.
Total Xylenes	1.0	N.D.

Analytes reported as N.D. were not present above the stated limit of detection.

DEL MAR ANALYTICAL, IRVINE (ELAP #1197)

Gary Steube
Laboratory Director

Surrogate Standard Recoveries (Accept. Limits):	
1,2-Dichloroethane-d4 (70-121)	100%
Toluene-d8 (81-117)	107%
4-Bromofluorobenzene (74-121)	109%

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2465 W. 12th St., Suite 1, Tempe, AZ 85281 (602) 968-8272 FAX (602) 968-1338

Harding Lawson Associates	Client Project ID:	32026.48	Sampled: Aug 14, 199
3 Hutton Centre, Suite 300		Omega Chemical/Whittier	Received: Aug 14, 1995
Santa Ana, CA 92707	Sample Descript:	Wipe, Tank 7-8240	Extracted: Aug 15, 1995
Attention: Andrew Keller	Lab Number:	EH02010	Analyzed: Aug 15, 1995
			Reported: Aug 17, 1995

VOLATILE ORGANICS by GC/MS (EPA 8240)

Analyte	Detection Limit µg/Wipe	Sample Result µg/Wipe
Acetone	5.0	N.D.
Benzene	1.0	N.D.
Bromodichloromethane	1.0	N.D.
Bromoform	1.0	N.D.
Bromomethane	2.5	N.D.
2-Butanone	5.0	N.D.
Carbon disulfide	2.5	N.D.
Carbon tetrachloride	2.5	N.D.
Chlorobenzene	1.0	N.D.
Chlorodibromomethane	1.0	N.D.
Chloroethane	2.5	N.D.
2-Chloroethyl vinyl ether	1.0	N.D.
Chloroform	1.0	N.D.
Chloromethane	2.5	N.D.
1,1-Dichloroethane	1.0	N.D.
1,2-Dichloroethane	1.0	N.D.
1,1-Dichloroethene	2.5	N.D.
cis-1,2-Dichloroethene	1.0	N.D.
trans-1,2-Dichloroethene	1.0	N.D.
1,2-Dichloropropane	1.0	N.D.
cis-1,3-Dichloropropene	1.0	N.D.
trans-1,3-Dichloropropene	1.0	N.D.
Ethylbenzene	1.0	N.D.
2-Hexanone	5.0	N.D.
Methylene chloride	5.0	N.D.
4-Methyl-2-pentanone	2.5	N.D.
Styrene	1.0	N.D.
1,1,2,2-Tetrachloroethane	1.0	N.D.
Tetrachloroethene	1.0	N.D.
Toluene	1.0	N.D.
1,1,1-Trichloroethane	1.0	N.D.
1,1,2-Trichloroethane	1.0	N.D.
Trichloroethene	1.0	N.D.
Trichlorofluoromethane	2.5	N.D.
Vinyl acetate	2.5	N.D.
Vinyl chloride	2.5	N.D.
Total Xylenes	1.0	N.D.

Analytes reported as N.D. were not present above the stated limit of detection.

DEL MAR ANALYTICAL, IRVINE (ELAP #1197)

Gary Steube
Laboratory Director

Surrogate Standard Recoveries (Accept. Limits):	
1,2-Dichloroethane-d4 (70-121)	109%
Toluene-d8 (81-117)	107%
4-Bromofluorobenzene (74-121)	112%

Results pertain only to samples tested in the laboratory. This report shall not be reproduced, except in full, without written permission from Del Mar Analytical.

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Harding Lawson Associates
3 Hutton Centre, Suite 300
Santa Ana, CA 92707
Attention: Andrew Keller

Client Project ID: 32026.48
Omega Chemical/Whittier
Sample Descript: Wipe, Tank 5-8240
Lab Number: EH02011

Sampled: Aug 14, 1995
Received: Aug 14, 1995
Extracted: Aug 15, 1995
Analyzed: Aug 15, 1995
Reported: Aug 17, 1995

VOLATILE ORGANICS by GC/MS (EPA 8240)

Analyte	Detection Limit µg/Wipe	Sample Result µg/Wipe
Acetone	5.0	N.D.
Benzene	1.0	N.D.
Bromodichloromethane	1.0	N.D.
Bromoform	1.0	N.D.
Bromomethane	2.5	N.D.
2-Butanone	5.0	N.D.
Carbon disulfide	2.5	N.D.
Carbon tetrachloride	2.5	N.D.
Chlorobenzene	1.0	N.D.
Chlorodibromomethane	1.0	N.D.
Chloroethane	2.5	N.D.
2-Chloroethyl vinyl ether	1.0	N.D.
Chloroform	1.0	N.D.
Chloromethane	2.5	N.D.
1,1-Dichloroethane	1.0	N.D.
1,2-Dichloroethane	1.0	N.D.
1,1-Dichloroethene	2.5	N.D.
cis-1,2-Dichloroethene	1.0	N.D.
trans-1,2-Dichloroethene	1.0	N.D.
1,2-Dichloropropane	1.0	N.D.
cis-1,3-Dichloropropene	1.0	N.D.
trans-1,3-Dichloropropene	1.0	N.D.
Ethylbenzene	1.0	N.D.
2-Hexanone	5.0	N.D.
Methylene chloride	5.0	N.D.
4-Methyl-2-pentanone	2.5	N.D.
Styrene	1.0	N.D.
1,1,2,2-Tetrachloroethane	1.0	N.D.
Tetrachloroethene	1.0	N.D.
Toluene	1.0	N.D.
1,1,1-Trichloroethane	1.0	N.D.
1,1,2-Trichloroethane	1.0	N.D.
Trichloroethene	1.0	N.D.
Trichlorofluoromethane	2.5	N.D.
Vinyl acetate	2.5	N.D.
Vinyl chloride	2.5	N.D.
Total Xylenes	1.0	N.D.

Analytes reported as N.D. were not present above the stated limit of detection.

DEL MAR ANALYTICAL, IRVINE (ELAP #1197)

Gary Steube
Laboratory Director

Surrogate Standard Recoveries (Accept. Limits):	
1,2-Dichloroethane-d4 (70-121)	109%
Toluene-d8 (81-117)	108%
4-Bromofluorobenzene (74-121)	112%

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2465 W. 12th St., Suite 1, Tempe, AZ 85281 (602) 968-8272 FAX (602) 968-1338

Harding Lawson Associates	Client Project ID: 32026.48	Sampled: Aug 14, 199
3 Hutton Centre, Suite 300	Omega Chemical/Whittier	Received: Aug 14, 1995
Santa Ana, CA 92707	Sample Descript: Solid, Cooling 1-CAM	Extracted: Aug 14-15, 1995
Attention: Andrew Keller	Lab Number: EH01998	Analyzed: Aug 14-15, 1995
		Reported: Aug 17, 1995

CALIFORNIA CODE OF REGULATIONS, TITLE 22 METALS

Analyte	EPA Method	STLC Max. Limit mg/L (ppm)	TTLC Max. Limit mg/Kg (ppm)	Detection Limit mg/Kg (ppm)		TTLC Sample Result mg/Kg (ppm)
Antimony	6010	15	500	5.0		N.D.
Arsenic	6010	5.0	500	1.0		N.D.
Barium	6010	100	10000	0.50		5.3
Beryllium	6010	0.75	75	0.10		N.D.
Cadmium	6010	1.0	100	0.10		0.32
Chromium, VI	7196	5.0	500	0.25		N.D.
Chromium, total	6010	560	2500	0.50		1.4
Cobalt	6010	80	8000	0.50		N.D.
Copper	6010	25	2500	0.50		86
Lead	6010	5.0	1000	1.0		7.0
Mercury	7471	0.20	20	0.020		0.021
Molybdenum	6010	350	3500	0.50		N.D.
Nickel	6010	20	2000	0.50		0.81
Selenium	6010	1.0	100	1.0		N.D.
Silver	6010	5.0	500	0.50		N.D.
Thallium	6010	7.0	700	5.0		N.D.
Vanadium	6010	24	2400	0.50		N.D.
Zinc	6010	250	5000	0.50		94

Analytes reported as N.D. were not present above the stated limit of detection.

DEL MAR ANALYTICAL, IRVINE (ELAP #1197)

Gary Steube
Laboratory Director

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Harding Lawson Associates
3 Hutton Centre, Suite 300
Santa Ana, CA 92707
Attention: Andrew Keller

Client Project ID: 32026.48
Omega Chemical/Whittier
Sample Descript: Solid, Cooling 2-CAM
Lab Number: EH02000

Sampled: Aug 14, 1995
Received: Aug 14, 1995
Extracted: Aug 14-15, 1995
Analyzed: Aug 14-15, 1995
Reported: Aug 17, 1995

CALIFORNIA CODE OF REGULATIONS, TITLE 22 METALS

Analyte	EPA Method	STLC Max. Limit mg/L (ppm)	TTLC Max. Limit mg/Kg (ppm)	Detection Limit mg/Kg (ppm)		TTLC Sample Result mg/Kg (ppm)
Antimony	6010	15	500	5.0		N.D.
Arsenic	6010	5.0	500	1.0		N.D.
Barium	6010	100	10000	0.50		6.0
Beryllium	6010	0.75	75	0.10		N.D.
Cadmium	6010	1.0	100	0.10		N.D.
Chromium, VI	7196	5.0	500	0.25		N.D.
Chromium, total	6010	560	2500	0.50		2.2
Cobalt	6010	80	8000	0.50		N.D.
Copper	6010	25	2500	0.50		2.4
Lead	6010	5.0	1000	1.0		6.8
Mercury	7471	0.20	20	0.020		N.D.
Molybdenum	6010	350	3500	0.50		N.D.
Nickel	6010	20	2000	0.50		N.D.
Selenium	6010	1.0	100	1.0		N.D.
Silver	6010	5.0	500	0.50		N.D.
Thallium	6010	7.0	700	5.0		N.D.
Vanadium	6010	24	2400	0.50		N.D.
Zinc	6010	250	5000	0.50		24

Analytes reported as N.D. were not present above the stated limit of detection.

DEL MAR ANALYTICAL, IRVINE (ELAP #1197)

Gary Steube
Laboratory Director

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Harding Lawson Associates	Client Project ID: 32026.48	Sampled: Aug 14, 199
3 Hutton Centre, Suite 300	Omega Chemical/Whittier	Received: Aug 14, 1995
Santa Ana, CA 92707	Sample Descript: Wipe, Tank 5-CAM	Extracted: Aug 14-15, 1995
Attention: Andrew Keller	Lab Number: EH02013	Analyzed: Aug 14-15, 1995
		Reported: Aug 17, 1995

CALIFORNIA CODE OF REGULATIONS, TITLE 22 METALS

Analyte	EPA Method	STLC Max. Limit mg/L (ppm)	TTLC Max. Limit mg/Kg (ppm)	Detection Limit µg/Wipe		TTLC Sample Result µg/Wipe
Antimony	6010	15	500	20	.....	N.D.
Arsenic	6010	5.0	500	5.0	.....	N.D.
Barium	6010	100	10000	2.0	.....	N.D.
Beryllium	6010	0.75	75	0.50	.....	N.D.
Cadmium	6010	1.0	100	0.50	.....	N.D.
Chromium, VI	7196	5.0	500	1.0	.....	N.D.
Chromium, total	6010	560	2500	2.0	.....	9.5
Cobalt	6010	80	8000	2.0	.....	N.D.
Copper	6010	25	2500	2.0	.....	8.5
Lead	6010	5.0	1000	5.0	.....	N.D.
Mercury	7471	0.20	20	0.10	.....	0.20
Molybdenum	6010	350	3500	2.0	.....	N.D.
Nickel	6010	20	2000	2.0	.....	N.D.
Selenium	6010	1.0	100	5.0	.....	N.D.
Silver	6010	5.0	500	2.0	.....	N.D.
Thallium	6010	7.0	700	20	.....	N.D.
Vanadium	6010	24	2400	2.0	.....	N.D.
Zinc	6010	250	5000	2.0	.....	16

Analytes reported as N.D. were not present above the stated limit of detection.

DEL MAR ANALYTICAL, IRVINE (ELAP #1197)

Gary Steube
Laboratory Director

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Harding Lawson Associates
3 Hutton Centre, Suite 300
Santa Ana, CA 92707
Attention: Andrew Keller

Method Blank

Extracted: Aug 14, 1995
Analyzed: Aug 15, 1995
Reported: Aug 17, 1995
Matrix Solid

SEMI-VOLATILE ORGANICS by GC/MS (EPA 3550/8270)

Analyte	Detection Limit µg/Kg (ppb)	Sample Result µg/Kg (ppb)	Analyte	Detection Limit µg/Kg (ppb)	Sample Result µg/Kg (ppb)
Acenaphthene	100	N.D.	Dimethyl phthalate	100	N.D.
Acenaphthylene	100	N.D.	4,6-Dinitro-2-methylphenol	250	N.D.
Aniline	150	N.D.	2,4-Dinitrophenol	250	N.D.
Anthracene	100	N.D.	2,4-Dinitrotoluene	100	N.D.
Azobenzene	150	N.D.	2,6-Dinitrotoluene	100	N.D.
Benzidine	1,000	N.D.	Di-N-octyl phthalate	500	N.D.
Benzoic Acid	500	N.D.	Fluoranthene	100	N.D.
Benz(a)anthracene	100	N.D.	Fluorene	100	N.D.
Benzo(b)fluoranthene	200	N.D.	Hexachlorobenzene	100	N.D.
Benzo(k)fluoranthene	200	N.D.	Hexachlorobutadiene	100	N.D.
Benzo(g,h,i)perylene	150	N.D.	Hexachlorocyclopentadiene	500	N.D.
Benzo(a)pyrene	200	N.D.	Hexachloroethane	200	N.D.
Benzyl alcohol	200	N.D.	Indeno(1,2,3-cd)pyrene	200	N.D.
Bis(2-chloroethoxy)methane	100	N.D.	Isophorone	100	N.D.
Bis(2-chloroethyl)ether	100	N.D.	2-Methylnaphthalene	100	N.D.
Bis(2-chloroisopropyl)ether	100	N.D.	2-Methylphenol	150	N.D.
Bis(2-ethylhexyl)phthalate	250	N.D.	4-Methylphenol	150	N.D.
4-Bromophenyl phenyl ether	150	N.D.	Naphthalene	150	N.D.
Butyl benzyl phthalate	500	N.D.	2-Nitroaniline	200	N.D.
4-Chloroaniline	100	N.D.	3-Nitroaniline	200	N.D.
2-Chloronaphthalene	100	N.D.	4-Nitroaniline	500	N.D.
4-Chloro-3-methylphenol	100	N.D.	Nitrobenzene	500	N.D.
2-Chlorophenol	250	N.D.	2-Nitrophenol	100	N.D.
4-Chlorophenyl phenyl ether	100	N.D.	4-Nitrophenol	500	N.D.
Chrysene	100	N.D.	N-Nitrosodiphenylamine	200	N.D.
Dibenz(a,h)anthracene	250	N.D.	N-Nitroso-di-N-propylamine	150	N.D.
Dibenzofuran	100	N.D.	Pentachlorophenol	500	N.D.
Di-N-butyl phthalate	250	N.D.	Phenanthrene	100	N.D.
1,3-Dichlorobenzene	100	N.D.	Phenol	150	N.D.
1,4-Dichlorobenzene	100	N.D.	Pyrene	150	N.D.
1,2-Dichlorobenzene	100	N.D.	1,2,4-Trichlorobenzene	100	N.D.
3,3-Dichlorobenzidine	500	N.D.	2,4,5-Trichlorophenol	150	N.D.
2,4-Dichlorophenol	100	N.D.	2,4,6-Trichlorophenol	150	N.D.
Diethyl phthalate	100	N.D.			
2,4-Dimethylphenol	250	N.D.			

Analytes reported as N.D. were not present above the stated limit of detection.

Surrogate Standard Recoveries (Accept. Limits):	
2-Fluorophenol (25-121)	77%
Phenol-d6 (24-113)	84%
2,4,6-Tribromophenol (19-122)	88%
Nitrobenzene-d5 (23-120)	85%
2-Fluorobiphenyl (30-115)	86%
Terphenyl-d14 (18-137)	67%

DEL MAR ANALYTICAL, IRVINE (ELAP #1197)

Gary Steube
Laboratory Director

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Harding Lawson Associates
3 Hutton Centre, Suite 300
Santa Ana, CA 92707
Attention: Andrew Keller

Method Blank

Extracted: Aug 14, 199
Analyzed: Aug 14, 1995
Reported: Aug 17, 1995
Matrix: Solid

VOLATILE ORGANICS by GC/MS (EPA 8240)

Analyte	Detection Limit µg/Kg (ppb)	Sample Result µg/Kg (ppb)
Acetone	10	N.D.
Benzene	2.0	N.D.
Bromodichloromethane	2.0	N.D.
Bromoform	2.0	N.D.
Bromomethane	5.0	N.D.
2-Butanone	10	N.D.
Carbon disulfide	5.0	N.D.
Carbon tetrachloride	5.0	N.D.
Chlorobenzene	2.0	N.D.
Chlorodibromomethane	2.0	N.D.
Chloroethane	5.0	N.D.
2-Chloroethyl vinyl ether	2.0	N.D.
Chloroform	2.0	N.D.
Chloromethane	5.0	N.D.
1,1-Dichloroethane	2.0	N.D.
1,2-Dichloroethane	2.0	N.D.
1,1-Dichloroethene	5.0	N.D.
cis-1,2-Dichloroethene	2.0	N.D.
trans-1,2-Dichloroethene	2.0	N.D.
1,2-Dichloropropane	2.0	N.D.
cis-1,3-Dichloropropene	2.0	N.D.
trans-1,3-Dichloropropene	2.0	N.D.
Ethylbenzene	2.0	N.D.
2-Hexanone	10	N.D.
Methylene chloride	10	N.D.
4-Methyl-2-pentanone	5.0	N.D.
Styrene	2.0	N.D.
1,1,2,2-Tetrachloroethane	2.0	N.D.
Tetrachloroethene	2.0	N.D.
Toluene	2.0	N.D.
1,1,1-Trichloroethane	2.0	N.D.
1,1,2-Trichloroethane	2.0	N.D.
Trichloroethene	2.0	N.D.
Trichlorofluoromethane	5.0	N.D.
Vinyl acetate	5.0	N.D.
Vinyl chloride	5.0	N.D.
Total Xylenes	2.0	N.D.

Analytes reported as N.D. were not present above the stated limit of detection.

DEL MAR ANALYTICAL, IRVINE (ELAP #1197)

Gary Steube
Laboratory Director

Surrogate Standard Recoveries (Accept. Limits):	
1,2-Dichloroethane-d4 (70-121)	103%
Toluene-d8 (81-117)	99%
4-Bromofluorobenzene (74-121)	91%

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Harding Lawson Associates
3 Hutton Centre, Suite 300
Santa Ana, CA 92707
Attention: Andrew Keller

Method Blank

Extracted: Aug 14, 1995
Analyzed: Aug 14, 1995
Reported: Aug 17, 1995
Matrix: Wipe

VOLATILE ORGANICS by GC/MS (EPA 8240)

Analyte	Detection Limit µg/Wipe	Sample Result µg/Wipe
Acetone	5.0	N.D.
Benzene	1.0	N.D.
Bromodichloromethane	1.0	N.D.
Bromoform	1.0	N.D.
Bromomethane	2.5	N.D.
2-Butanone	5.0	N.D.
Carbon disulfide	2.5	N.D.
Carbon tetrachloride	2.5	N.D.
Chlorobenzene	1.0	N.D.
Chlorodibromomethane	1.0	N.D.
Chloroethane	2.5	N.D.
2-Chloroethyl vinyl ether	1.0	N.D.
Chloroform	1.0	N.D.
Chloromethane	2.5	N.D.
1,1-Dichloroethane	1.0	N.D.
1,2-Dichloroethane	1.0	N.D.
1,1-Dichloroethene	2.5	N.D.
cis-1,2-Dichloroethene	1.0	N.D.
trans-1,2-Dichloroethene	1.0	N.D.
1,2-Dichloropropane	1.0	N.D.
cis-1,3-Dichloropropene	1.0	N.D.
trans-1,3-Dichloropropene	1.0	N.D.
Ethylbenzene	1.0	N.D.
2-Hexanone	5.0	N.D.
Methylene chloride	5.0	N.D.
4-Methyl-2-pentanone	2.5	N.D.
Styrene	1.0	N.D.
1,1,2,2-Tetrachloroethane	1.0	N.D.
Tetrachloroethene	1.0	N.D.
Toluene	1.0	N.D.
1,1,1-Trichloroethane	1.0	N.D.
1,1,2-Trichloroethane	1.0	N.D.
Trichloroethene	1.0	N.D.
Trichlorofluoromethane	2.5	N.D.
Vinyl acetate	2.5	N.D.
Vinyl chloride	2.5	N.D.
Total Xylenes	1.0	N.D.

Analytes reported as N.D. were not present above the stated limit of detection.

DEL MAR ANALYTICAL, IRVINE (ELAP #1197)

Gary Steube
Laboratory Director

Surrogate Standard Recoveries (Accept. Limits):	
1,2-Dichloroethane-d4 (70-121)	103%
Toluene-d8 (81-117)	99%
4-Bromofluorobenzene (74-121)	91%

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Harding Lawson Associates
3 Hutton Centre, Suite 300
Santa Ana, CA 92707
Attention: Andrew Keller

Method Blank

Extracted: Aug 15, 199
Analyzed: Aug 15, 1995
Reported: Aug 17, 1995
Matrix: Wipe

VOLATILE ORGANICS by GC/MS (EPA 8240)

Analyte	Detection Limit µg/Wipe	Sample Result µg/Wipe
Acetone	5.0	N.D.
Benzene	1.0	N.D.
Bromodichloromethane	1.0	N.D.
Bromoform	1.0	N.D.
Bromomethane	2.5	N.D.
2-Butanone	5.0	N.D.
Carbon disulfide	2.5	N.D.
Carbon tetrachloride	2.5	N.D.
Chlorobenzene	1.0	N.D.
Chlorodibromomethane	1.0	N.D.
Chloroethane	2.5	N.D.
2-Chloroethyl vinyl ether	1.0	N.D.
Chloroform	1.0	N.D.
Chloromethane	2.5	N.D.
1,1-Dichloroethane	1.0	N.D.
1,2-Dichloroethane	1.0	N.D.
1,1-Dichloroethene	2.5	N.D.
cis-1,2-Dichloroethene	1.0	N.D.
trans-1,2-Dichloroethene	1.0	N.D.
1,2-Dichloropropane	1.0	N.D.
cis-1,3-Dichloropropene	1.0	N.D.
trans-1,3-Dichloropropene	1.0	N.D.
Ethylbenzene	1.0	N.D.
2-Hexanone	5.0	N.D.
Methylene chloride	5.0	N.D.
4-Methyl-2-pentanone	2.5	N.D.
Styrene	1.0	N.D.
1,1,2,2-Tetrachloroethane	1.0	N.D.
Tetrachloroethene	1.0	N.D.
Toluene	1.0	N.D.
1,1,1-Trichloroethane	1.0	N.D.
1,1,2-Trichloroethane	1.0	N.D.
Trichloroethene	1.0	N.D.
Trichlorofluoromethane	2.5	N.D.
Vinyl acetate	2.5	N.D.
Vinyl chloride	2.5	N.D.
Total Xylenes	1.0	N.D.

Analytes reported as N.D. were not present above the stated limit of detection.

DEL MAR ANALYTICAL, IRVINE (ELAP #1197)

Gary Steube
Laboratory Director

Surrogate Standard Recoveries (Accept. Limits):	
1,2-Dichloroethane-d4 (70-121)	92%
Toluene-d8 (81-117)	92%
4-Bromofluorobenzene (74-121)	100%

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2465 W. 12th St., Suite 1, Tempe, AZ 85281 (602) 968-8272 FAX (602) 968-1338

Harding Lawson Associates
3 Hutton Centre, Suite 300
Santa Ana, CA 92707
Attention: Andrew Keller

Method Blank

Extracted: Aug 14-15, 1995
Analyzed: Aug 14-15, 1995
Reported: Aug 17, 1995
Matrix Solid

CALIFORNIA CODE OF REGULATIONS, TITLE 22 METALS

Analyte	EPA Method	STLC Max. Limit mg/L (ppm)	TTLC Max. Limit mg/Kg (ppm)	Detection Limit mg/Kg (ppm)		TTLC Sample Result mg/Kg (ppm)
Antimony	6010	15	500	5.0		N.D.
Arsenic	6010	5.0	500	1.0		N.D.
Barium	6010	100	10000	0.50		N.D.
Beryllium	6010	0.75	75	0.10		N.D.
Cadmium	6010	1.0	100	0.10		N.D.
Chromium, VI	7196	5.0	500	0.25		N.D.
Chromium, total	6010	560	2500	0.50		N.D.
Cobalt	6010	80	8000	0.50		N.D.
Copper	6010	25	2500	0.50		N.D.
Lead	6010	5.0	1000	1.0		N.D.
Mercury	7471	0.20	20	0.020		N.D.
Molybdenum	6010	350	3500	0.50		N.D.
Nickel	6010	20	2000	0.50		N.D.
Selenium	6010	1.0	100	1.0		N.D.
Silver	6010	5.0	500	0.50		N.D.
Thallium	6010	7.0	700	5.0		N.D.
Vanadium	6010	24	2400	0.50		N.D.
Zinc	6010	250	5000	0.50		N.D.

Analytes reported as N.D. were not present above the stated limit of detection.

DEL MAR ANALYTICAL, IRVINE (ELAP #1197)

Gary Steube
Laboratory Director

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Harding Lawson Associates
3 Hutton Centre, Suite 300
Santa Ana, CA 92707
Attention: Andrew Keller

Method Blank

Extracted: Aug 14-15, 19
Analyzed: Aug 14-15, 1995
Reported: Aug 17, 1995
Matrix Wipe

CALIFORNIA CODE OF REGULATIONS, TITLE 22 METALS

Analyte	EPA Method	STLC Max. Limit mg/L (ppm)	TTLC Max. Limit mg/Kg (ppm)	Detection Limit µg/Wipe		TTLC Sample Result µg/Wipe
Antimony	6010	15	500	20		N.D.
Arsenic	6010	5.0	500	5.0		N.D.
Barium	6010	100	10000	2.0		N.D.
Beryllium	6010	0.75	75	0.50		N.D.
Cadmium	6010	1.0	100	0.50		N.D.
Chromium, VI	7196	5.0	500	1.0		N.D.
Chromium, total	6010	560	2500	2.0		N.D.
Cobalt	6010	80	8000	2.0		N.D.
Copper	6010	25	2500	2.0		N.D.
Lead	6010	5.0	1000	5.0		N.D.
Mercury	7471	0.20	20	0.10		N.D.
Molybdenum	6010	350	3500	2.0		N.D.
Nickel	6010	20	2000	2.0		N.D.
Selenium	6010	1.0	100	5.0		N.D.
Silver	6010	5.0	500	2.0		N.D.
Thallium	6010	7.0	700	20		N.D.
Vanadium	6010	24	2400	2.0		N.D.
Zinc	6010	250	5000	2.0		N.D.

Analytes reported as N.D. were not present above the stated limit of detection.

DEL MAR ANALYTICAL, IRVINE (ELAP #1197)

Gary Steube
Laboratory Director

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MS/MSD DATA REPORT

METHOD: **Metals**
Instrument: ICP
Matrix: SOIL

Date: 8/15/95

Sample #: EH02013

Analyte	R1	SP	MS	MSD	PR1	PR2	RPD	MEAN PR
	ppb	ppb	ppb	ppb	%	%	%	%
Antimony	0	1000	946	962	95%	96%	1.7%	95%
Arsenic	0	1000	943	975	94%	98%	3.3%	96%
Barium	0	1000	994	998	99%	100%	0.4%	100%
Beryllium	0	1000	988	977	99%	98%	1.1%	98%
Cadmium	0	1000	950	839	95%	84%	12.4%	89%
Chromium	0	1000	1005	910	101%	91%	9.9%	96%
Cobalt	0	1000	961	940	96%	94%	2.2%	95%
Copper	0	1000	991	994	99%	99%	0.3%	99%
Lead	0	1000	984	1043	98%	104%	5.8%	101%
Manganese	0	1000	970	953	97%	95%	1.8%	96%
Molybdenum	0	1000	893	956	89%	96%	6.8%	92%
Nickel	0	1000	1009	989	101%	99%	2.0%	100%
Selenium	0	1000	911	1020	91%	102%	11.3%	97%
Silver	0	1000	889	850	89%	85%	4.5%	87%
Thallium	0	1000	937	1008	94%	101%	7.3%	97%
Vanadium	0	1000	951	971	95%	97%	2.1%	96%
Zinc	0	1000	995	991	100%	99%	0.4%	99%

R1..... ..... Result of Sample Analysis
Sp..... ..... Spike Concentration Added to Sample
MS..... ..... Matrix Spike Result
MSD..... ..... Matrix Spike Duplicate Result
PR1..... ..... Percent Recovery of MS; ((MS-R1) / SP) X 100
PR2..... ..... Percent Recovery of MSD; ((MSD-R1) / SP) X 100
RPD..... ..... Relative Percent Difference; ((MS-MSD)/(MS+MSD)/2)) X 100

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MS/MSD DATA REPORT

EPA METHOD: **3060/7196**
Matrix: Soil

DATE: 8/14/95

SAMPLE #: Blank

Analyte	R1	Sp	MS	MSD	PR1	PR2	RPD	MEAN PR
	ppb	ppb	ppb	ppb	%	%	%	%
Chromium (VI)	0	200	205	205	103%	103%	0.0%	103%

Definition of Terms:

R1..... Result of Sample Analysis

Sp..... Spike Concentration Added to Sample

MS..... Matrix Spike Result

MSD..... Matrix Spike Duplicate Result

PR1..... Percent Recovery of MS; ((MS-R1) / SP) X 100

PR2..... Percent Recovery of MSD; ((MSD-R1) / SP) X 100

RPD..... Relative Percent Difference; ((MS-MSD)/(MS+MSD)/2)) X 100

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MS/MSD DATA REPORT

EPA METHOD: **7471**
Matrix: Soil

DATE: 8/15/95

SAMPLE #: Blank

Analyte	R1	Sp	MS	MSD	PR1	PR2	RPD	MEAN PR
	ppb	ppb	ppb	ppb	%	%	%	%
Mercury	0	8.0	8.6	8.2	108%	103%	4.8%	105%

Definition of Terms:

R1..... Result of Sample Analysis

Sp..... Spike Concentration Added to Sample

MS..... Matrix Spike Result

MSD..... Matrix Spike Duplicate Result

PR1..... Percent Recovery of MS; ((MS-R1) / SP) X 100

PR2..... Percent Recovery of MSD; ((MSD-R1) / SP) X 100

RPD..... Relative Percent Difference; ((MS-MSD)/(MS+MSD)/2)) X 100

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CORRECTIVE ACTION REPORT

Department:	Volatiles	Method:	EPA 8240
Date:	8/14/95	Matrix:	Soil

Identification and Definition of Problem:

The Vinyl Chloride recovery for the Matrix Spike(MS)/Matrix Spike Duplicate(MSD) was out of laboratory acceptance limits.

Determination of the Cause of the Problem:

The cause of the low recovery is indeterminable. All of the other spiking compounds were within limits, and the spiking solution was freshly prepared.

Corrective Action:

The recovery of Vinyl Chloride was within EPA acceptance limits for the continuing calibration check standard and the Laboratory Control Sample(LCS), therefore no further corrective action was taken. Furthermore, no Vinyl Chloride was present in any of the samples in the batch.

QA/QC Officer Signature: Debra Ranck Date: 8/17/95

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MS/MSD DATA REPORT

EPA METHOD: 8240
Matrix: Soil

DATE: 8/14/95

SAMPLE #: EH01875

Analyte	R1	Sp	MS	MSD	PR1	PR2	RPD	MEAN PR
	ppb	ppb	ppb	ppb	%	%	%	%
Benzene	0	50	40	42	80%	84%	4.9%	82%
Chlorobenzene	0	50	44	46	88%	92%	4.4%	90%
1,1-Dichloroethane	0	50	41	41	82%	82%	0.0%	82%
1,2-Dichlororethane	0	50	47	51	94%	102%	8.2%	98%
1,1-Dichloroethene	0	50	37	36	74%	72%	2.7%	73%
Chloroform	0	50	42	42	84%	84%	0.0%	84%
Tetrachloroethene	0	50	42	43	84%	86%	2.4%	85%
Toluene	0	50	42	43	84%	86%	2.4%	85%
Trichloroethene	0	50	38	39	76%	78%	2.6%	77%
Vinyl Chloride	0	50	27	27	54%	54%	0.0%	54%

Definition of Terms:

R1..... Result of Sample Analysis

Sp..... Spike Concentration Added to Sample

MS..... Matrix Spike Result

MSD..... Matrix Spike Duplicate Result

PR1..... Percent Recovery of MS; ((MS-R1) / SP) X 100

PR2..... Percent Recovery of MSD; ((MSD-R1) / SP) X 100

RPD..... Relative Percent Difference; ((MS-MSD)/(MS+MSD)/2)) X 100

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2465 W. 12th St., Suite 1, Tempe, AZ 85281 (602) 968-8272 FAX (602) 968-1338

MS/MSD DATA REPORT

EPA METHOD: **8270**
Matrix: Soil

DATE: 8/15/95

SAMPLE #: Blank

Analyte	R1	Sp	MS	MSD	PR1	PR2	RPD	MEAN PR
	ppb	ppb	ppb	ppb	%	%	%	%
1,4-Dichlorobenzene	0	50	28	38	56%	76%	30.3%	66%
n-nitroso-di-n-propylamine	0	50	29	40	58%	80%	31.9%	69%
1,2,4-Trichlorobenzene	0	50	30	41	60%	82%	31.0%	71%
Acenaphthene	0	50	30	42	60%	84%	33.3%	72%
2,4-Dinitrotoluene	0	50	27	38	54%	76%	33.8%	65%
Pyrene	0	50	29	38	58%	76%	26.9%	67%
4-Chloro-3-methylphenol	0	100	61	81	61%	81%	28.2%	71%
2-Chlorophenol	0	100	56	76	56%	76%	30.3%	66%
4-Nitrophenol	0	100	55	83	55%	83%	40.6%	69%
Pentachlorophenol	0	100	53	73	53%	73%	31.7%	63%
Phenol	0	100	60	79	60%	79%	27.3%	70%

Definition of Terms:

R1..... **Result of Sample Analysis**

Sp..... **Spike Concentration Added to Sample**

MS..... **Matrix Spike Result**

MSD..... **Matrix Spike Duplicate Result**

PR1..... **Percent Recovery of MS; ((MS-R1) / SP) X 100**

PR2..... **Percent Recovery of MSD; ((MSD-R1) / SP) X 100**

RPD..... **Relative Percent Difference; ((MS-MSD)/(MS+MSD)/2)) X 100**

Del Mar Analytical

Harding Lawson Associates
351 Rolling Oaks Drive, Suite 100
Thousand Oaks, CA 91361
(805) 494-7725 • (805) 494-8386 FAX

CHAIN OF CUSTODY FORM

Lab: Del Mar

Samplers: John Coffman

Job Number: 32026.48

Name/Location: Omega Chemical / Whittier

Project Manager: Andrew Keller

Recorder: John Coffman (Signature Required)

SOURCE CODE	MATRIX: Wipe	Water	Sediment	Soil	Oil	# CONTAINERS & PRESERV.: Unpres.	H_2SO_4	HNO_3	HCL	Ice		SAMPLE NUMBER OR LAB NUMBER	DATE: Yr	Wk	Seq	Mo	Day	Time	STATION DESCRIPTION/ NOTES	EPA 601/8010	EPA 602/8020	EPA 624/8240	EPA 625/8270	METALS	EPA 8015M/TPHg	EPA 8020/BTEX	EPA 8015M/TPHd,o	ADHS BLS-181	CAM Metals
00	X										1	Cooling-1-8270	95	08	14			0859	Poly Cooling Towers				X					
												Cooling-1-8240						0855	" "			X							
												Cooling-1-CAM						0857	" "									X	
												Cooling-2-8270						0849	" "				X						
												Cooling-2-CAM						0853	" "									X	
												Cooling-2-8240						0851	" "			X							

LAB NUMBER: Yr	Wk	Seq	DEPTH IN FEET	COL MTD CD	QA CODE	MISCELLANEOUS
						24 Hr Rush for all Tests/Samples
						Fax results to
						Jim (310) 907-9826
						Andrew Keller @
						(714) 662-3297

CHAIN OF CUSTODY RECORD

RELINQUISHED BY: (Signature)	RECEIVED BY: (Signature)	DATE/TIME 8/14/95 11:25
RELINQUISHED BY: (Signature)	RECEIVED BY: (Signature)	DATE/TIME 8/14/95 1:25
RELINQUISHED BY: (Signature)	RECEIVED BY: (Signature)	DATE/TIME
RELINQUISHED BY: (Signature)	RECEIVED BY: (Signature)	DATE/TIME
DISPATCHED BY: (Signature) DATE/TIME	RECEIVED FOR LAB BY: (Signature)	DATE/TIME 8/14 1:25

METHOD OF SHIPMENT

SAMPLE CONDITION WHEN RECEIVED BY THE LABORATORY: Rand del, intact, room

Laboratory Copy White — Office Copy Yellow — Field or Office Copy Pink

Harding Lawson Associates
351 [redacted] Oaks Drive, Suite 100
Thousand Oaks, CA 91361
(805) 494-7725 • (805) 494-8386 FAX

CHAIN OF CUSTODY FORM

Lab: Del Mar

Samplers: John Coffman

Job Number: 32026.48

Name/Location: Omega / Whittier

Project Manager: Andrew Keller

Recorder: John Coffman (Signature Required)

SOURCE CODE	MATRIX: Wipe	Water	Sediment	Soil	Oil	# CONTAINERS & PRESERV.: Unpres.	H_2SO_4	HNO_3	HCL	Ice		SAMPLE NUMBER OR LAB NUMBER: Yr Wk Seq	DATE: Yr Mo Day Time	STATION DESCRIPTION/ NOTES	ANALYSIS REQUESTED: EPA 624/8240
00	X										1	Tank 8-8240	950814 1007	4 in² Wipe Sample	X
												Sheila-8240	1019	" "	
												Tank 9-8240	1010	" "	
												2K-4-8240	1015	" "	
												2K-3-8240	1020	" "	
												2K-2-8240	1016	" "	
												Westmix-8240	1030	" "	
												Eastmix-8240	1026	" "	
												Tank 7-8240	1015	" "	
												Tank 5-8240	1039	" "	

ANALYSIS REQUESTED: EPA 601/8010; EPA 602/8020; EPA 624/8240; EPA 625/8270; METALS; EPA 8015M/TPHg; EPA 8020/BTEX; EPA 8015M/TPHd,o; ADHS BLS-181; CAM Metals

LAB NUMBER Yr Wk Seq	DEPTH IN FEET	COL MTD CD	QA CODE	MISCELLANEOUS
				24 Hr Rush Turnaround
				For all Tests/Samples
				Fax results to
				Jim (310) 907-9826
				Andrew Keller @
				(714) 662-3297

CHAIN OF CUSTODY RECORD

RELINQUISHED BY: (Signature) John Coffman	RECEIVED BY: (Signature)	DATE/TIME 8/14/95 11:25
RELINQUISHED BY: (Signature)	RECEIVED BY: (Signature)	DATE/TIME 8/14/95 1:25
RELINQUISHED BY: (Signature)	RECEIVED BY: (Signature)	DATE/TIME
RELINQUISHED BY: (Signature)	RECEIVED BY: (Signature)	DATE/TIME
DISPATCHED BY: (Signature) DATE/TIME	RECEIVED FOR LAB BY: (Signature)	DATE/TIME 8/14 1:25

METHOD OF SHIPMENT

SAMPLE CONDITION WHEN RECEIVED BY THE LABORATORY: hand del, intact, room

Laboratory Copy White — Project Office Copy Yellow — Field or Office Copy Pink

Harding Lawson Associates
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Thousand Oaks, CA 91361
(805) 494-7725 • (805) 494-8386 FAX

CHAIN OF CUSTODY FORM

Lab: Del Mar

Samplers: John Coffman

Job Number: 32026.48

Name/Location: Omega Chemical / Whittier

Project Manager: Andrew Keller

Recorder: John Coffman (Signature Required)

SOURCE CODE	MATRIX: Wipe	Water	Sediment	Soil	Oil	# CONTAINERS & PRESERV.: Unpres.	H_2SO_4	HNO_3	HCL	Ice		SAMPLE NUMBER OR LAB NUMBER: Yr Wk Seq	DATE: Yr Mo Day Time	STATION DESCRIPTION/ NOTES	ANALYSIS REQUESTED: EPA 601/8010	EPA 602/8020	EPA 624/8240	EPA 625/8270	METALS	EPA 8015M/TPHg	EPA 8020/BTEX	EPA 8015M/TPHd,o	ADHS BLS-181	CAM Metals
00	X										1	Tank 5-8270	95 08 14 1037	4 in² Wipe Sample				X					
00	X										↓	Tank 5-CAM	↓ ↓ ↓ 1040	" "									X

LAB NUMBER: Yr Wk Seq	DEPTH IN FEET	COL MTD CD	QA CODE	MISCELLANEOUS
				24 Hr Rush Turnaround
				Fax results to
				Jim (310) 907-9826
				Andrew Keller
				(714) 662-3297

CHAIN OF CUSTODY RECORD

RELINQUISHED BY: (Signature) John Coffman	RECEIVED BY: (Signature) A. Mc Laney	DATE/TIME 8/14/95 11:25
RELINQUISHED BY: (Signature) A. Mc Laney	RECEIVED BY: (Signature)	DATE/TIME 8/14/95 1:25
RELINQUISHED BY: (Signature)	RECEIVED BY: (Signature)	DATE/TIME
RELINQUISHED BY: (Signature)	RECEIVED BY: (Signature)	DATE/TIME
DISPATCHED BY: (Signature) DATE/TIME	RECEIVED FOR LAB BY: (Signature) Coffman	DATE/TIME 8/14 1:25

METHOD OF SHIPMENT

SAMPLE CONDITION WHEN RECEIVED BY THE LABORATORY: Handed, intact, room

Laboratory Copy White — Project Office Copy Yellow — Field or Office Copy Pink

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Harding Lawson Associates
3 Hutton Centre, Suite 300
Santa Ana, CA 92707
Attention: Andrew Keller

Client Project ID: 32026.48
Omega
Sample Descript: Wipe, Amy-8270
Lab Number: EH04798

Sampled: Aug 30, 1995
Received: Aug 30, 1995
Extracted: Aug 30, 1995
Analyzed: Aug 31, 1995
Reported: Sep 1, 1995

SEMI-VOLATILE ORGANICS by GC/MS (EPA 3550/8270)

Analyte	Detection Limit µg/Wipe	Sample Result µg/Wipe	Analyte	Detection Limit µg/Wipe	Sample Result µg/Wipe
Acenaphthene	5.0	N.D.	Dimethyl phthalate	5.0	N.D.
Acenaphthylene	5.0	N.D.	4,6-Dinitro-2-methylphenol	13	N.D.
Aniline	7.5	N.D.	2,4-Dinitrophenol	13	N.D.
Anthracene	5.0	N.D.	2,4-Dinitrotoluene	5.0	N.D.
Azobenzene	7.5	N.D.	2,6-Dinitrotoluene	5.0	N.D.
Benzidine	50	N.D.	Di-N-octyl phthalate	25	N.D.
Benzoic Acid	25	N.D.	Fluoranthene	5.0	N.D.
Benz(a)anthracene	5.0	N.D.	Fluorene	5.0	N.D.
Benzo(b)fluoranthene	10	N.D.	Hexachlorobenzene	5.0	N.D.
Benzo(k)fluoranthene	10	N.D.	Hexachlorobutadiene	5.0	N.D.
Benzo(g,h,i)perylene	7.5	N.D.	Hexachlorocyclopentadiene	25	N.D.
Benzo(a)pyrene	10	N.D.	Hexachloroethane	10	N.D.
Benzyl alcohol	10	N.D.	Indeno(1,2,3-cd)pyrene	10	N.D.
Bis(2-chloroethoxy)methane	5.0	N.D.	Isophorone	5.0	N.D.
Bis(2-chloroethyl)ether	5.0	N.D.	2-Methylnaphthalene	5.0	N.D.
Bis(2-chloroisopropyl)ether	5.0	N.D.	2-Methylphenol	7.5	N.D.
Bis(2-ethylhexyl)phthalate	13	N.D.	4-Methylphenol	7.5	N.D.
4-Bromophenyl phenyl ether	7.5	N.D.	Naphthalene	7.5	N.D.
Butyl benzyl phthalate	25	N.D.	2-Nitroaniline	10	N.D.
4-Chloroaniline	5.0	N.D.	3-Nitroaniline	10	N.D.
2-Chloronaphthalene	5.0	N.D.	4-Nitroaniline	25	N.D.
4-Chloro-3-methylphenol	5.0	N.D.	Nitrobenzene	25	N.D.
2-Chlorophenol	13	N.D.	2-Nitrophenol	5.0	N.D.
4-Chlorophenyl phenyl ether	5.0	N.D.	4-Nitrophenol	25	N.D.
Chrysene	5.0	N.D.	N-Nitrosodiphenylamine	10	N.D.
Dibenz(a,h)anthracene	13	N.D.	N-Nitroso-di-N-propylamine	7.5	N.D.
Dibenzofuran	5.0	N.D.	Pentachlorophenol	25	N.D.
Di-N-butyl phthalate	13	N.D.	Phenanthrene	5.0	N.D.
1,3-Dichlorobenzene	5.0	N.D.	Phenol	7.5	N.D.
1,4-Dichlorobenzene	5.0	N.D.	Pyrene	7.5	N.D.
1,2-Dichlorobenzene	5.0	N.D.	1,2,4-Trichlorobenzene	5.0	N.D.
3,3-Dichlorobenzidine	25	N.D.	2,4,5-Trichlorophenol	7.5	N.D.
2,4-Dichlorophenol	5.0	N.D.	2,4,6-Trichlorophenol	7.5	N.D.
Diethyl phthalate	5.0	N.D.			
2,4-Dimethylphenol	13	N.D.			

Analytes reported as N.D. were not present above the stated limit of detection.

Surrogate Standard Recoveries (Accept. Limits):	
2-Fluorophenol (25-121)	71%
Phenol-d6 (24-113)	74%
2,4,6-Tribromophenol (19-122)	82%
Nitrobenzene-d5 (23-120)	74%
2-Fluorobiphenyl (30-115)	75%
Terphenyl-d14 (18-137)	82%

DEL MAR ANALYTICAL, IRVINE (ELAP #1197)

Gary Steube
Laboratory Director

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Harding Lawson Associates
3 Hutton Centre, Suite 300
Santa Ana, CA 92707
Attention: Andrew Keller

Client Project ID: 32026.48
Omega
Sample Descript: Wipe, Linda-8270
Lab Number: EH04801

Sampled: Aug 30, 199
Received: Aug 30, 1995
Extracted: Aug 30, 1995
Analyzed: Aug 31, 1995
Reported: Sep 1, 1995

SEMI-VOLATILE ORGANICS by GC/MS (EPA 3550/8270)

Analyte	Detection Limit µg/Wipe	Sample Result µg/Wipe	Analyte	Detection Limit µg/Wipe	Sample Result µg/Wipe
Acenaphthene	5.0	N.D.	Dimethyl phthalate	5.0	N.D.
Acenaphthylene	5.0	N.D.	4,6-Dinitro-2-methylphenol	13	N.D.
Aniline	7.5	N.D.	2,4-Dinitrophenol	13	N.D.
Anthracene	5.0	N.D.	2,4-Dinitrotoluene	5.0	N.D.
Azobenzene	7.5	N.D.	2,6-Dinitrotoluene	5.0	N.D.
Benzidine	50	N.D.	Di-N-octyl phthalate	25	N.D.
Benzoic Acid	25	N.D.	Fluoranthene	5.0	N.D.
Benz(a)anthracene	5.0	N.D.	Fluorene	5.0	N.D.
Benzo(b)fluoranthene	10	N.D.	Hexachlorobenzene	5.0	N.D.
Benzo(k)fluoranthene	10	N.D.	Hexachlorobutadiene	5.0	N.D.
Benzo(g,h,i)perylene	7.5	N.D.	Hexachlorocyclopentadiene	25	N.D.
Benzo(a)pyrene	10	N.D.	Hexachloroethane	10	N.D.
Benzyl alcohol	10	N.D.	Indeno(1,2,3-cd)pyrene	10	N.D.
Bis(2-chloroethoxy)methane	5.0	N.D.	Isophorone	5.0	N.D.
Bis(2-chloroethyl)ether	5.0	N.D.	2-Methylnaphthalene	5.0	N.D.
Bis(2-chloroisopropyl)ether	5.0	N.D.	2-Methylphenol	7.5	N.D.
Bis(2-ethylhexyl)phthalate	13	N.D.	4-Methylphenol	7.5	N.D.
4-Bromophenyl phenyl ether	7.5	N.D.	Naphthalene	7.5	N.D.
Butyl benzyl phthalate	25	N.D.	2-Nitroaniline	10	N.D.
4-Chloroaniline	5.0	N.D.	3-Nitroaniline	10	N.D.
2-Chloronaphthalene	5.0	N.D.	4-Nitroaniline	25	N.D.
4-Chloro-3-methylphenol	5.0	N.D.	Nitrobenzene	25	N.D.
2-Chlorophenol	13	N.D.	2-Nitrophenol	5.0	N.D.
4-Chlorophenyl phenyl ether	5.0	N.D.	4-Nitrophenol	25	N.D.
Chrysene	5.0	N.D.	N-Nitrosodiphenylamine	10	N.D.
Dibenz(a,h)anthracene	13	N.D.	N-Nitroso-di-N-propylamine	7.5	N.D.
Dibenzofuran	5.0	N.D.	Pentachlorophenol	25	N.D.
Di-N-butyl phthalate	13	N.D.	Phenanthrene	5.0	N.D.
1,3-Dichlorobenzene	5.0	N.D.	Phenol	7.5	N.D.
1,4-Dichlorobenzene	5.0	N.D.	Pyrene	7.5	N.D.
1,2-Dichlorobenzene	5.0	N.D.	1,2,4-Trichlorobenzene	5.0	N.D.
3,3-Dichlorobenzidine	25	N.D.	2,4,5-Trichlorophenol	7.5	N.D.
2,4-Dichlorophenol	5.0	N.D.	2,4,6-Trichlorophenol	7.5	N.D.
Diethyl phthalate	5.0	N.D.			
2,4-Dimethylphenol	13	N.D.			

Analytes reported as N.D. were not present above the stated limit of detection.

Surrogate Standard Recoveries (Accept. Limits):	
2-Fluorophenol (25-121)	66%
Phenol-d6 (24-113)	70%
2,4,6-Tribromophenol (19-122)	81%
Nitrobenzene-d5 (23-120)	68%
2-Fluorobiphenyl (30-115)	70%
Terphenyl-d14 (18-137)	80%

DEL MAR ANALYTICAL, IRVINE (ELAP #1197)

Gary Steube
Laboratory Director

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2465 W. 12th St., Suite 1, Tempe, AZ 85281 (602) 968-8272 FAX (602) 968-1338

Harding Lawson Associates	Client Project ID:	32026.48	Sampled: Aug 30, 1995
3 Hutton Centre, Suite 300		Omega	Received: Aug 30, 1995
Santa Ana, CA 92707	Sample Descript:	Wipe, Amy-8240	Extracted: Sep 1, 1995
Attention: Andrew Keller	Lab Number:	EH04800	Analyzed: Sep 1, 1995
			Reported: Sep 1, 1995

VOLATILE ORGANICS by GC/MS (EPA 8240)

Analyte	Detection Limit µg/Wipe	Sample Result µg/Wipe
Acetone	5.0	N.D.
Benzene	1.0	N.D.
Bromodichloromethane	1.0	N.D.
Bromoform	1.0	N.D.
Bromomethane	2.5	N.D.
2-Butanone	5.0	N.D.
Carbon disulfide	2.5	N.D.
Carbon tetrachloride	2.5	N.D.
Chlorobenzene	1.0	N.D.
Chlorodibromomethane	1.0	N.D.
Chloroethane	2.5	N.D.
2-Chloroethyl vinyl ether	1.0	N.D.
Chloroform	1.0	N.D.
Chloromethane	2.5	N.D.
1,1-Dichloroethane	1.0	N.D.
1,2-Dichloroethane	1.0	N.D.
1,1-Dichloroethene	2.5	N.D.
cis-1,2-Dichloroethene	1.0	N.D.
trans-1,2-Dichloroethene	1.0	N.D.
1,2-Dichloropropane	1.0	N.D.
cis-1,3-Dichloropropene	1.0	N.D.
trans-1,3-Dichloropropene	1.0	N.D.
Ethylbenzene	1.0	N.D.
2-Hexanone	5.0	N.D.
Methylene chloride	5.0	N.D.
4-Methyl-2-pentanone	2.5	N.D.
Styrene	1.0	N.D.
1,1,2,2-Tetrachloroethane	1.0	N.D.
Tetrachloroethene	1.0	N.D.
Toluene	1.0	N.D.
1,1,1-Trichloroethane	1.0	N.D.
1,1,2-Trichloroethane	1.0	N.D.
Trichloroethene	1.0	N.D.
Trichlorofluoromethane	2.5	N.D.
Vinyl acetate	2.5	N.D.
Vinyl chloride	2.5	N.D.
Total Xylenes	1.0	N.D.

Analytes reported as N.D. were not present above the stated limit of detection.

DEL MAR ANALYTICAL, IRVINE (ELAP #1197)

Gary Steube
Laboratory Director

Surrogate Standard Recoveries (Accept. Limits):	
1,2-Dichloroethane-d4 (70-121).....	103%
Toluene-d8 (81-117).....	97%
4-Bromofluorobenzene (74-121).....	94%

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2465 W. 12th St., Suite 1, Tempe, AZ 85281 (602) 968-8272 FAX (602) 968-1338

Harding Lawson Associates
3 Hutton Centre, Suite 300
Santa Ana, CA 92707
Attention: Andrew Keller

Client Project ID: 32026.48
Omega
Sample Descript: Wipe, Linda-8240
Lab Number: EH04802

Sampled: Aug 30, 199
Received: Aug 30, 1995
Extracted: Sep 1, 1995
Analyzed: Sep 1, 1995
Reported: Sep 1, 1995

VOLATILE ORGANICS by GC/MS (EPA 8240)

Analyte	Detection Limit µg/Wipe	Sample Result µg/Wipe
Acetone	5.0	N.D.
Benzene	1.0	N.D.
Bromodichloromethane	1.0	N.D.
Bromoform	1.0	N.D.
Bromomethane	2.5	N.D.
2-Butanone	5.0	N.D.
Carbon disulfide	2.5	N.D.
Carbon tetrachloride	2.5	N.D.
Chlorobenzene	1.0	N.D.
Chlorodibromomethane	1.0	N.D.
Chloroethane	2.5	N.D.
2-Chloroethyl vinyl ether	1.0	N.D.
Chloroform	1.0	N.D.
Chloromethane	2.5	N.D.
1,1-Dichloroethane	1.0	N.D.
1,2-Dichloroethane	1.0	N.D.
1,1-Dichloroethene	2.5	N.D.
cis-1,2-Dichloroethene	1.0	N.D.
trans-1,2-Dichloroethene	1.0	N.D.
1,2-Dichloropropane	1.0	N.D.
cis-1,3-Dichloropropene	1.0	N.D.
trans-1,3-Dichloropropene	1.0	N.D.
Ethylbenzene	1.0	N.D.
2-Hexanone	5.0	N.D.
Methylene chloride	5.0	N.D.
4-Methyl-2-pentanone	2.5	N.D.
Styrene	1.0	N.D.
1,1,2,2-Tetrachloroethane	1.0	N.D.
Tetrachloroethene	1.0	N.D.
Toluene	1.0	N.D.
1,1,1-Trichloroethane	1.0	N.D.
1,1,2-Trichloroethane	1.0	N.D.
Trichloroethene	1.0	N.D.
Trichlorofluoromethane	2.5	N.D.
Vinyl acetate	2.5	N.D.
Vinyl chloride	2.5	N.D.
Total Xylenes	1.0	N.D.

Analytes reported as N.D. were not present above the stated limit of detection.

DEL MAR ANALYTICAL, IRVINE (ELAP #1197)

Gary Steube
Laboratory Director

Surrogate Standard Recoveries (Accept. Limits):	
1,2-Dichloroethane-d4 (70-121)	99%
Toluene-d8 (81-117)	96%
4-Bromofluorobenzene (74-121)	92%

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Harding Lawson Associates
3 Hutton Centre, Suite 300
Santa Ana, CA 92707
Attention: Andrew Keller

Client Project ID: 32026.48
Omega
Sample Descript: Wipe, Amy-Cam
Lab Number: EH04799

Sampled: Aug 30, 1995
Received: Aug 30, 1995
Extracted: Aug 30-31, 1995
Analyzed: Aug 30-31, 1995
Reported: Sep 1, 1995

CALIFORNIA CODE OF REGULATIONS, TITLE 22 METALS

Analyte	EPA Method	STLC Max. Limit mg/L (ppm)	TTLC Max. Limit mg/Kg (ppm)	Detection Limit µg/Wipe		TTLC Sample Result µg/Wipe
Antimony	6010	15	500	15	.....	N.D.
Arsenic	6010	5.0	500	3.0	.....	N.D.
Barium	6010	100	10000	1.5	.....	N.D.
Beryllium	6010	0.75	75	0.30	.....	N.D.
Cadmium	6010	1.0	100	0.30	.....	N.D.
Chromium, VI	7196	5.0	500	0.75	.....	N.D.
Chromium, total	6010	560	2500	0.75	.....	9.9
Cobalt	6010	80	8000	0.75	.....	N.D.
Copper	6010	25	2500	0.75	.....	N.D.
Lead	6010	5.0	1000	3.0	.....	N.D.
Mercury	7471	0.20	20	0.060	.....	N.D.
Molybdenum	6010	350	3500	1.5	.....	N.D.
Nickel	6010	20	2000	1.5	.....	4.8
Selenium	6010	1.0	100	3.0	.....	N.D.
Silver	6010	5.0	500	1.5	.....	N.D.
Thallium	6010	7.0	700	15	.....	N.D.
Vanadium	6010	24	2400	1.5	.....	N.D.
Zinc	6010	250	5000	1.5	.....	9.0

Analytes reported as N.D. were not present above the stated limit of detection.

DEL MAR ANALYTICAL, IRVINE (ELAP #1197)

Gary Stetbe
Laboratory Director

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Harding Lawson Associates
3 Hutton Centre, Suite 300
Santa Ana, CA 92707
Attention: Andrew Keller

Client Project ID: 32026.48
Omega
Sample Descript: Wipe, Linda-Cam
Lab Number: EH04803

Sampled: Aug 30, 199
Received: Aug 30, 1995
Extracted: Aug 30-31, 1994
Analyzed: Aug 30-31, 1994
Reported: Sep 1, 1995

CALIFORNIA CODE OF REGULATIONS, TITLE 22 METALS

Analyte	EPA Method	STLC Max. Limit mg/L (ppm)	TTLC Max. Limit mg/Kg (ppm)	Detection Limit µg/Wipe		TTLC Sample Result µg/Wipe
Antimony	6010	15	500	15	.....	N.D.
Arsenic	6010	5.0	500	3.0	.....	N.D.
Barium	6010	100	10000	1.5	.....	N.D.
Beryllium	6010	0.75	75	0.30	.....	N.D.
Cadmium	6010	1.0	100	0.30	.....	N.D.
Chromium, VI	7196	5.0	500	0.75	.....	N.D.
Chromium, total	6010	560	2500	0.75	.....	21
Cobalt	6010	80	8000	0.75	.....	N.D.
Copper	6010	25	2500	0.75	.....	N.D.
Lead	6010	5.0	1000	3.0	.....	N.D.
Mercury	7471	0.20	20	0.060	.....	N.D.
Molybdenum	6010	350	3500	1.5	.....	N.D.
Nickel	6010	20	2000	1.5	.....	6.6
Selenium	6010	1.0	100	3.0	.....	5.3
Silver	6010	5.0	500	1.5	.....	N.D.
Thallium	6010	7.0	700	15	.....	N.D.
Vanadium	6010	24	2400	1.5	.....	N.D.
Zinc	6010	250	5000	1.5	.....	12

Analytes reported as N.D. were not present above the stated limit of detection.

DEL MAR ANALYTICAL, IRVINE (ELAP #1197)

Gary Steube
Laboratory Director

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Harding Lawson Associates
3 Hutton Centre, Suite 300
Santa Ana, CA 92707
Attention: Andrew Keller

Method Blank

Extracted: Aug 30, 1995
Analyzed: Aug 31, 1995
Reported: Sep 1, 1995
Matrix Wipe

SEMI-VOLATILE ORGANICS by GC/MS (EPA 3550/8270)

Analyte	Detection Limit µg/Wipe	Sample Result µg/Wipe	Analyte	Detection Limit µg/Wipe	Sample Result µg/Wipe
Acenaphthene	5.0	N.D.	Dimethyl phthalate	5.0	N.D.
Acenaphthylene	5.0	N.D.	4,6-Dinitro-2-methylphenol	13	N.D.
Aniline	7.5	N.D.	2,4-Dinitrophenol	13	N.D.
Anthracene	5.0	N.D.	2,4-Dinitrotoluene	5.0	N.D.
Azobenzene	7.5	N.D.	2,6-Dinitrotoluene	5.0	N.D.
Benzidine	50	N.D.	Di-N-octyl phthalate	25	N.D.
Benzoic Acid	25	N.D.	Fluoranthene	5.0	N.D.
Benz(a)anthracene	5.0	N.D.	Fluorene	5.0	N.D.
Benzo(b)fluoranthene	10	N.D.	Hexachlorobenzene	5.0	N.D.
Benzo(k)fluoranthene	10	N.D.	Hexachlorobutadiene	5.0	N.D.
Benzo(g,h,i)perylene	7.5	N.D.	Hexachlorocyclopentadiene	25	N.D.
Benzo(a)pyrene	10	N.D.	Hexachloroethane	10	N.D.
Benzyl alcohol	10	N.D.	Indeno(1,2,3-cd)pyrene	10	N.D.
Bis(2-chloroethoxy)methane	5.0	N.D.	Isophorone	5.0	N.D.
Bis(2-chloroethyl)ether	5.0	N.D.	2-Methylnaphthalene	5.0	N.D.
Bis(2-chloroisopropyl)ether	5.0	N.D.	2-Methylphenol	7.5	N.D.
Bis(2-ethylhexyl)phthalate	13	N.D.	4-Methylphenol	7.5	N.D.
4-Bromophenyl phenyl ether	7.5	N.D.	Naphthalene	7.5	N.D.
Butyl benzyl phthalate	25	N.D.	2-Nitroaniline	10	N.D.
4-Chloroaniline	5.0	N.D.	3-Nitroaniline	10	N.D.
2-Chloronaphthalene	5.0	N.D.	4-Nitroaniline	25	N.D.
4-Chloro-3-methylphenol	5.0	N.D.	Nitrobenzene	25	N.D.
2-Chlorophenol	13	N.D.	2-Nitrophenol	5.0	N.D.
4-Chlorophenyl phenyl ether	5.0	N.D.	4-Nitrophenol	25	N.D.
Chrysene	5.0	N.D.	N-Nitrosodiphenylamine	10	N.D.
Dibenz(a,h)anthracene	13	N.D.	N-Nitroso-di-N-propylamine	7.5	N.D.
Dibenzofuran	5.0	N.D.	Pentachlorophenol	25	N.D.
Di-N-butyl phthalate	13	N.D.	Phenanthrene	5.0	N.D.
1,3-Dichlorobenzene	5.0	N.D.	Phenol	7.5	N.D.
1,4-Dichlorobenzene	5.0	N.D.	Pyrene	7.5	N.D.
1,2-Dichlorobenzene	5.0	N.D.	1,2,4-Trichlorobenzene	5.0	N.D.
3,3-Dichlorobenzidine	25	N.D.	2,4,5-Trichlorophenol	7.5	N.D.
2,4-Dichlorophenol	5.0	N.D.	2,4,6-Trichlorophenol	7.5	N.D.
Diethyl phthalate	5.0	N.D.			
2,4-Dimethylphenol	13	N.D.			

Analytes reported as N.D. were not present above the stated limit of detection.

Surrogate Standard Recoveries (Accept. Limits):	
2-Fluorophenol (25-121)	45%
Phenol-d6 (24-113)	47%
2,4,6-Tribromophenol (19-122)	50%
Nitrobenzene-d5 (23-120)	42%
2-Fluorobiphenyl (30-115)	47%
Terphenyl-d14 (18-137)	56%

DEL MAR ANALYTICAL, IRVINE (ELAP #1197)

Gary Steube
Laboratory Director

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Harding Lawson Associates
3 Hutton Centre, Suite 300
Santa Ana, CA 92707
Attention: Andrew Keller

Method Blank

Extracted: Sep 1, 19
Analyzed: Sep 1, 1995
Reported: Sep 1, 1995
Matrix: Wipe

VOLATILE ORGANICS by GC/MS (EPA 8240)

Analyte	Detection Limit µg/Wipe	Sample Result µg/Wipe
Acetone	5.0	N.D.
Benzene	1.0	N.D.
Bromodichloromethane	1.0	N.D.
Bromoform	1.0	N.D.
Bromomethane	2.5	N.D.
2-Butanone	5.0	N.D.
Carbon disulfide	2.5	N.D.
Carbon tetrachloride	2.5	N.D.
Chlorobenzene	1.0	N.D.
Chlorodibromomethane	1.0	N.D.
Chloroethane	2.5	N.D.
2-Chloroethyl vinyl ether	1.0	N.D.
Chloroform	1.0	N.D.
Chloromethane	2.5	N.D.
1,1-Dichloroethane	1.0	N.D.
1,2-Dichloroethane	1.0	N.D.
1,1-Dichloroethene	2.5	N.D.
cis-1,2-Dichloroethene	1.0	N.D.
trans-1,2-Dichloroethene	1.0	N.D.
1,2-Dichloropropane	1.0	N.D.
cis-1,3-Dichloropropene	1.0	N.D.
trans-1,3-Dichloropropene	1.0	N.D.
Ethylbenzene	1.0	N.D.
2-Hexanone	5.0	N.D.
Methylene chloride	5.0	N.D.
4-Methyl-2-pentanone	2.5	N.D.
Styrene	1.0	N.D.
1,1,2,2-Tetrachloroethane	1.0	N.D.
Tetrachloroethene	1.0	N.D.
Toluene	1.0	N.D.
1,1,1-Trichloroethane	1.0	N.D.
1,1,2-Trichloroethane	1.0	N.D.
Trichloroethene	1.0	N.D.
Trichlorofluoromethane	2.5	N.D.
Vinyl acetate	2.5	N.D.
Vinyl chloride	2.5	N.D.
Total Xylenes	1.0	N.D.

Analytes reported as N.D. were not present above the stated limit of detection.

DEL MAR ANALYTICAL, IRVINE (ELAP #1197)

Gary Steube
Laboratory Director

Surrogate Standard Recoveries (Accept. Limits):	
1,2-Dichloroethane-d4 (70-121)	105%
Toluene-d8 (81-117)	99%
4-Bromofluorobenzene (74-121)	87%

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Harding Lawson Associates
3 Hutton Centre, Suite 300
Santa Ana, CA 92707
Attention: Andrew Keller

Method Blank

Extracted: Aug 30-31, 1995
Analyzed: Aug 30-31, 1995
Reported: Sep 1, 1995
Matrix Wipe

CALIFORNIA CODE OF REGULATIONS, TITLE 22 METALS

Analyte	EPA Method	STLC Max. Limit mg/L (ppm)	TTLC Max. Limit mg/Kg (ppm)	Detection Limit µg/Wipe		TTLC Sample Result µg/Wipe
Antimony	6010	15	500	15	.....	N.D.
Arsenic	6010	5.0	500	3.0	.....	N.D.
Barium	6010	100	10000	1.5	.....	N.D.
Beryllium	6010	0.75	75	0.30	.....	N.D.
Cadmium	6010	1.0	100	0.30	.....	N.D.
Chromium, VI	7196	5.0	500	0.75	.....	N.D.
Chromium, total	6010	560	2500	0.75	.....	N.D.
Cobalt	6010	80	8000	0.75	.....	N.D.
Copper	6010	25	2500	0.75	.....	N.D.
Lead	6010	5.0	1000	3.0	.....	N.D.
Mercury	7471	0.20	20	0.060	.....	N.D.
Molybdenum	6010	350	3500	1.5	.....	N.D.
Nickel	6010	20	2000	1.5	.....	N.D.
Selenium	6010	1.0	100	3.0	.....	N.D.
Silver	6010	5.0	500	1.5	.....	N.D.
Thallium	6010	7.0	700	15	.....	N.D.
Vanadium	6010	24	2400	1.5	.....	N.D.
Zinc	6010	250	5000	1.5	.....	N.D.

Analytes reported as N.D. were not present above the stated limit of detection.

DEL MAR ANALYTICAL, IRVINE (ELAP #1197)

Gary Steube
Laboratory Director

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MS/MSD DATA REPORT

EPA METHOD: **8270**
Matrix: Soil

DATE: 8/31/95

SAMPLE #: Blank

Analyte	R1	Sp	MS	MSD	PR1	PR2	RPD	MEAN PR
	ppb	ppb	ppb	ppb	%	%	%	%
1,4-Dichlorobenzene	0	50	36	32	72%	64%	11.8%	68%
n-nitroso-di-n-propylamine	0	50	38	33	76%	66%	14.1%	71%
1,2,4-Trichlorobenzene	0	50	39	35	78%	70%	10.8%	74%
Acenaphthene	0	50	39	35	78%	70%	10.8%	74%
2,4-Dinitrotoluene	0.1	50	35	32	70%	64%	9.0%	67%
Pyrene	0	50	42	37	84%	74%	12.7%	79%
4-Chloro-3-methylphenol	0	100	76	68	76%	68%	11.1%	72%
2-Chlorophenol	0	100	68	61	68%	61%	10.9%	65%
4-Nitrophenol	0.3	100	66	59	66%	59%	11.2%	62%
Pentachlorophenol	0	100	73	61	73%	61%	17.9%	67%
Phenol	0	100	72	66	72%	66%	8.7%	69%

Definition of Terms:

R1..... Result of Sample Analysis

Sp..... Spike Concentration Added to Sample

MS..... Matrix Spike Result

MSD..... Matrix Spike Duplicate Result

PR1..... Percent Recovery of MS; ((MS-R1) / SP) X 100

PR2..... Percent Recovery of MSD; ((MSD-R1) / SP) X 100

RPD..... Relative Percent Difference; ((MS-MSD)/(MS+MSD)/2)) X 100

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MS/MSD DATA REPORT

METHOD: **Metals**
Instrument: ICP
Matrix: SOIL

Date: 8/30/95

Sample #: EH04226

Analyte	R1	SP	MS	MSD	PR1	PR2	RPD	MEAN PR
	ppb	ppb	ppb	ppb	%	%	%	%
Antimony	0	1000	909	871	91%	87%	4.3%	89%
Arsenic	0	1000	885	898	89%	90%	1.5%	89%
Barium	68	1000	1097	1082	103%	101%	1.4%	102%
Beryllium	0	1000	969	981	97%	98%	1.2%	98%
Cadmium	0	1000	982	957	98%	96%	2.6%	97%
Chromium	0	1000	1014	1028	101%	103%	1.4%	102%
Cobalt	0	1000	998	964	100%	96%	3.5%	98%
Copper	0	1000	997	1005	100%	101%	0.8%	100%
Lead	0	1000	1050	1040	105%	104%	1.0%	105%
Molybdenum	0	1000	953	940	95%	94%	1.4%	95%
Nickel	0	1000	1017	979	102%	98%	3.8%	100%
Selenium	0	1000	961	1031	96%	103%	7.0%	100%
Silver	0	1000	866	897	87%	90%	3.5%	88%
Thallium	0	1000	959	887	96%	89%	7.8%	92%
Vanadium	0	1000	996	1066	100%	107%	6.8%	103%
Zinc	81	1000	1046	1037	97%	96%	0.9%	96%

R1..... ..... Result of Sample Analysis
Sp..... ..... Spike Concentration Added to Sample
MS..... ..... Matrix Spike Result
MSD..... ..... Matrix Spike Duplicate Result
PR1..... ..... Percent Recovery of MS; ((MS-R1) / SP) X 100
PR2..... ..... Percent Recovery of MSD; ((MSD-R1) / SP) X 100
RPD..... ..... Relative Percent Difference; ((MS-MSD)/(MS+MSD)/2)) X 100

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MS/MSD DATA REPORT

EPA METHOD: 8240
Matrix: Soil

DATE: 9/1/95

SAMPLE #: EH04103

Analyte	R1	Sp	MS	MSD	PR1	PR2	RPD	MEAN PR
	ppb	ppb	ppb	ppb	%	%	%	%
Benzene	0	50	49	49	98%	98%	0.0%	98%
Chlorobenzene	0	50	52	51	104%	102%	1.9%	103%
1,1-Dichloroethane	0	50	48	46	96%	92%	4.3%	94%
1,2-Dichlororethane	0	50	58	57	116%	114%	1.7%	115%
1,1-Dichloroethene	0	50	47	46	94%	92%	2.2%	93%
Chloroform	0	50	48	47	96%	94%	2.1%	95%
Tetrachloroethene	0	50	49	48	98%	96%	2.1%	97%
Toluene	0	50	48	49	96%	98%	2.1%	97%
Trichloroethene	0	50	46	48	92%	96%	4.3%	94%
Vinyl Chloride	0	50	58	56	116%	112%	3.5%	114%

Definition of Terms:

R1..... Result of Sample Analysis

Sp..... Spike Concentration Added to Sample

MS..... Matrix Spike Result

MSD..... Matrix Spike Duplicate Result

PR1..... Percent Recovery of MS; ((MS-R1) / SP) X 100

PR2..... Percent Recovery of MSD; ((MSD-R1) / SP) X 100

RPD..... Relative Percent Difference; ((MS-MSD)/(MS+MSD)/2)) X 100

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MS/MSD DATA REPORT

EPA METHOD: **3060/7196**
Matrix: Soil

DATE: 8/30/95

SAMPLE #: Blank

Analyte	R1	Sp	MS	MSD	PR1	PR2	RPD	MEAN PR
	ppm	ppm	ppm	ppm	%	%	%	%
Chromium (VI)	0	0.20	0.21	0.21	105%	105%	0.0%	105%

Definition of Terms:

R1..... Result of Sample Analysis

Sp..... Spike Concentration Added to Sample

MS..... Matrix Spike Result

MSD..... Matrix Spike Duplicate Result

PR1..... Percent Recovery of MS; ((MS-R1) / SP) X 100

PR2..... Percent Recovery of MSD; ((MSD-R1) / SP) X 100

RPD..... Relative Percent Difference; ((MS-MSD)/(MS+MSD)/2)) X 100

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MS/MSD DATA REPORT

EPA METHOD: **7471**
Matrix: Soil

DATE: 8/31/95

SAMPLE #: Blank

Analyte	R1	Sp	MS	MSD	PR1	PR2	RPD	MEAN PR
	ppb	ppb	ppb	ppb	%	%	%	%
Mercury	0	8.0	8.1	8.1	101%	101%	0.0%	101%

Definition of Terms:

R1..... Result of Sample Analysis

Sp..... Spike Concentration Added to Sample

MS..... Matrix Spike Result

MSD..... Matrix Spike Duplicate Result

PR1..... Percent Recovery of MS; ((MS-R1) / SP) X 100

PR2..... Percent Recovery of MSD; ((MSD-R1) / SP) X 100

RPD..... Relative Percent Difference; ((MS-MSD)/(MS+MSD)/2)) X 100

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57087

HLA

CHAIN OF CUSTODY FORM

Client Name/Address: ~~HLA~~ Omega JFC

Project/PO Number: 32026.48

Project Manager/Phone Number: Andrew Keller

Sampler: JFC

Sample Description	Sample Matrix	Container Type	#of Cont	Sampling Date/Time	Preservatives	EPA 8240	EPA 8270	Title 22 Metals							Special Instructions
						Analysis Required									
Amy-8270	wipe	glass	1	8/30/95 0918			X								24 Rush
Amy-CAM	↓	↓		8/30/95 0921				X							Turnaround
Amy-8240				8/30/95 0915		X									Fax Results
Linda-8270				8/30/95 0925			X								to Jim
Linda-8240				8/30/95 0901		X									(310) 907-9826
Linda-CAM	↓	↓		8/30/95 0928				X							

Relinquished By: John Coffman Date /Time: 8/30/95 1015

Relinquished By: Date /Time:

Relinquished By: Date /Time:

Received by: Date /Time:

Received by: Date /Time:

Received in Lab by: Date/Time: 8/30/95 1015

Turnaround Time: (check)
same day ____ 72 hours ____
24 hours X 5 days ____
48 hours ____ normal ____

Sample Integrity: (Check)
intact ✓ on ice Room Temp

Note: Sample(s) will be disposed of after 30 days.

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Harding Lawson Associates
3 Hutton Centre, Suite 300
Santa Ana, CA 92707
Attention: Andrew Keller

Client Project ID: 32026.48
Omega, Whittier
Sample Descript: Wipe, 2K-1-8270
Lab Number: EH04430

Sampled: Aug 28, 1995
Received: Aug 28, 1995
Extracted: Aug 29, 1995
Analyzed: Aug 29, 1995
Reported: Aug 31, 1995

SEMI-VOLATILE ORGANICS by GC/MS (EPA 3550/8270)

Analyte	Detection Limit µg/Wipe	Sample Result µg/Wipe	Analyte	Detection Limit µg/Wipe	Sample Result µg/Wipe
Acenaphthene	5.0	N.D.	Dimethyl phthalate	5.0	N.D.
Acenaphthylene	5.0	N.D.	4,6-Dinitro-2-methylphenol	13	N.D.
Aniline	7.5	N.D.	2,4-Dinitrophenol	13	N.D.
Anthracene	5.0	N.D.	2,4-Dinitrotoluene	5.0	N.D.
Azobenzene	7.5	N.D.	2,6-Dinitrotoluene	5.0	N.D.
Benzidine	50	N.D.	Di-N-octyl phthalate	25	N.D.
Benzoic Acid	25	N.D.	Fluoranthene	5.0	N.D.
Benz(a)anthracene	5.0	N.D.	Fluorene	5.0	N.D.
Benzo(b)fluoranthene	10	N.D.	Hexachlorobenzene	5.0	N.D.
Benzo(k)fluoranthene	10	N.D.	Hexachlorobutadiene	5.0	N.D.
Benzo(g,h,i)perylene	7.5	N.D.	Hexachlorocyclopentadiene	25	N.D.
Benzo(a)pyrene	10	N.D.	Hexachloroethane	10	N.D.
Benzyl alcohol	10	N.D.	Indeno(1,2,3-cd)pyrene	10	N.D.
Bis(2-chloroethoxy)methane	5.0	N.D.	Isophorone	5.0	N.D.
Bis(2-chloroethyl)ether	5.0	N.D.	2-Methylnaphthalene	5.0	N.D.
Bis(2-chloroisopropyl)ether	5.0	N.D.	2-Methylphenol	7.5	N.D.
Bis(2-ethylhexyl)phthalate	13	N.D.	4-Methylphenol	7.5	N.D.
4-Bromophenyl phenyl ether	7.5	N.D.	Naphthalene	7.5	N.D.
Butyl benzyl phthalate	25	N.D.	2-Nitroaniline	10	N.D.
4-Chloroaniline	5.0	N.D.	3-Nitroaniline	10	N.D.
2-Chloronaphthalene	5.0	N.D.	4-Nitroaniline	25	N.D.
4-Chloro-3-methylphenol	5.0	N.D.	Nitrobenzene	25	N.D.
2-Chlorophenol	13	N.D.	2-Nitrophenol	5.0	N.D.
4-Chlorophenyl phenyl ether	5.0	N.D.	4-Nitrophenol	25	N.D.
Chrysene	5.0	N.D.	N-Nitrosodiphenylamine	10	N.D.
Dibenz(a,h)anthracene	13	N.D.	N-Nitroso-di-N-propylamine	7.5	N.D.
Dibenzofuran	5.0	N.D.	Pentachlorophenol	25	N.D.
Di-N-butyl phthalate	13	N.D.	Phenanthrene	5.0	N.D.
1,3-Dichlorobenzene	5.0	N.D.	Phenol	7.5	N.D.
1,4-Dichlorobenzene	5.0	N.D.	Pyrene	7.5	N.D.
1,2-Dichlorobenzene	5.0	N.D.	1,2,4-Trichlorobenzene	5.0	N.D.
3,3-Dichlorobenzidine	25	N.D.	2,4,5-Trichlorophenol	7.5	N.D.
2,4-Dichlorophenol	5.0	N.D.	2,4,6-Trichlorophenol	7.5	N.D.
Diethyl phthalate	5.0	N.D.			
2,4-Dimethylphenol	13	N.D.			

Analytes reported as N.D. were not present above the stated limit of detection.

Surrogate Standard Recoveries (Accept. Limits):	
2-Fluorophenol (25-121)	77%
Phenol-d6 (24-113)	80%
2,4,6-Tribromophenol (19-122)	94%
Nitrobenzene-d5 (23-120)	79%
2-Fluorobiphenyl (30-115)	87%
Terphenyl-d14 (18-137)	82%

DEL MAR ANALYTICAL, IRVINE (ELAP #1197)

Gary Steube
Laboratory Director

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Harding Lawson Associates
3 Hutton Centre, Suite 300
Santa Ana, CA 92707
Attention: Andrew Keller

Client Project ID: 32026.48
Omega, Whittier
Sample Descript: Wipe, 2K-1-8240
Lab Number: EH04431

Sampled: Aug 28, 19
Received: Aug 28, 1995
Extracted: Sep 1, 1995
Analyzed: Sep 1, 1995
Reported: Sep 1, 1995

VOLATILE ORGANICS by GC/MS (EPA 8240)

Analyte	Detection Limit µg/Wipe	Sample Result µg/Wipe
Acetone	5.0	N.D.
Benzene	1.0	N.D.
Bromodichloromethane	1.0	N.D.
Bromoform	1.0	N.D.
Bromomethane	2.5	N.D.
2-Butanone	5.0	N.D.
Carbon disulfide	2.5	N.D.
Carbon tetrachloride	2.5	N.D.
Chlorobenzene	1.0	N.D.
Chlorodibromomethane	1.0	N.D.
Chloroethane	2.5	N.D.
2-Chloroethyl vinyl ether	1.0	N.D.
Chloroform	1.0	N.D.
Chloromethane	2.5	N.D.
1,1-Dichloroethane	1.0	N.D.
1,2-Dichloroethane	1.0	N.D.
1,1-Dichloroethene	2.5	N.D.
cis-1,2-Dichloroethene	1.0	N.D.
trans-1,2-Dichloroethene	1.0	N.D.
1,2-Dichloropropane	1.0	N.D.
cis-1,3-Dichloropropene	1.0	N.D.
trans-1,3-Dichloropropene	1.0	N.D.
Ethylbenzene	1.0	N.D.
2-Hexanone	5.0	N.D.
Methylene chloride	5.0	N.D.
4-Methyl-2-pentanone	2.5	N.D.
Styrene	1.0	N.D.
1,1,2,2-Tetrachloroethane	1.0	N.D.
Tetrachloroethene	1.0	N.D.
Toluene	1.0	N.D.
1,1,1-Trichloroethane	1.0	N.D.
1,1,2-Trichloroethane	1.0	N.D.
Trichloroethene	1.0	N.D.
Trichlorofluoromethane	2.5	N.D.
Vinyl acetate	2.5	N.D.
Vinyl chloride	2.5	N.D.
Total Xylenes	1.0	N.D.

Analytes reported as N.D. were not present above the stated limit of detection.

DEL MAR ANALYTICAL, IRVINE (ELAP #1197)

Gary Steube
Laboratory Director

Surrogate Standard Recoveries (Accept. Limits):	
1,2-Dichloroethane-d4 (70-121).....	102%
Toluene-d8 (81-117).....	99%
4-Bromofluorobenzene (74-121).....	90%

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2465 W. 12th St., Suite 1, Tempe, AZ 85281 (602) 968-8272 FAX (602) 968-1338

Harding Lawson Associates
3 Hutton Centre, Suite 300
Santa Ana, CA 92707
Attention: Andrew Keller

Client Project ID: 32026.48
Omega, Whittier
Sample Descript: Wipe, 2K-1-CAM
Lab Number: EH04432

Sampled: Aug 28, 1995
Received: Aug 28, 1995
Extracted: Aug 29-30, 1995
Analyzed: Aug 29-30, 1995
Reported: Aug 31, 1995

CALIFORNIA CODE OF REGULATIONS, TITLE 22 METALS

Analyte	EPA Method	STLC Max. Limit mg/L (ppm)	TTLC Max. Limit mg/Kg (ppm)	Detection Limit µg/Wipe		TTLC Sample Result µg/Wipe
Antimony	6010	15	500	20		N.D.
Arsenic	6010	5.0	500	4.0		N.D.
Barium	6010	100	10000	2.0		N.D.
Beryllium	6010	0.75	75	0.40		N.D.
Cadmium	6010	1.0	100	0.40		N.D.
Chromium, VI	7196	5.0	500	1.0		N.D.
Chromium, total	6010	560	2500	2.0		12
Cobalt	6010	80	8000	2.0		N.D.
Copper	6010	25	2500	2.0		N.D.
Lead	6010	5.0	1000	4.0		7.0
Mercury	7471	0.20	20	0.080		N.D.
Molybdenum	6010	350	3500	2.0		N.D.
Nickel	6010	20	2000	2.0		N.D.
Selenium	6010	1.0	100	4.0		N.D.
Silver	6010	5.0	500	2.0		N.D.
Thallium	6010	7.0	700	20		N.D.
Vanadium	6010	24	2400	2.0		N.D.
Zinc	6010	250	5000	2.0		22

Analytes reported as N.D. were not present above the stated limit of detection.

DEL MAR ANALYTICAL, IRVINE (ELAP #1197)

Gary Steube
Laboratory Director

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Harding Lawson Associates
3 Hutton Centre, Suite 300
Santa Ana, CA 92707
Attention: Andrew Keller

Method Blank

Extracted: Aug 29, 199
Analyzed: Aug 29, 1995
Reported: Aug 31, 1995
Matrix Wipe

SEMI-VOLATILE ORGANICS by GC/MS (EPA 3550/8270)

Analyte	Detection Limit µg/Wipe	Sample Result µg/Wipe	Analyte	Detection Limit µg/Wipe	Sample Result µg/Wipe
Acenaphthene	5.0	N.D.	Dimethyl phthalate	5.0	N.D.
Acenaphthylene	5.0	N.D.	4,6-Dinitro-2-methylphenol	13	N.D.
Aniline	7.5	N.D.	2,4-Dinitrophenol	13	N.D.
Anthracene	5.0	N.D.	2,4-Dinitrotoluene	5.0	N.D.
Azobenzene	7.5	N.D.	2,6-Dinitrotoluene	5.0	N.D.
Benzidine	50	N.D.	Di-N-octyl phthalate	25	N.D.
Benzoic Acid	25	N.D.	Fluoranthene	5.0	N.D.
Benz(a)anthracene	5.0	N.D.	Fluorene	5.0	N.D.
Benzo(b)fluoranthene	10	N.D.	Hexachlorobenzene	5.0	N.D.
Benzo(k)fluoranthene	10	N.D.	Hexachlorobutadiene	5.0	N.D.
Benzo(g,h,i)perylene	7.5	N.D.	Hexachlorocyclopentadiene	25	N.D.
Benzo(a)pyrene	10	N.D.	Hexachloroethane	10	N.D.
Benzyl alcohol	10	N.D.	Indeno(1,2,3-cd)pyrene	10	N.D.
Bis(2-chloroethoxy)methane	5.0	N.D.	Isophorone	5.0	N.D.
Bis(2-chloroethyl)ether	5.0	N.D.	2-Methylnaphthalene	5.0	N.D.
Bis(2-chloroisopropyl)ether	5.0	N.D.	2-Methylphenol	7.5	N.D.
Bis(2-ethylhexyl)phthalate	13	N.D.	4-Methylphenol	7.5	N.D.
4-Bromophenyl phenyl ether	7.5	N.D.	Naphthalene	7.5	N.D.
Butyl benzyl phthalate	25	N.D.	2-Nitroaniline	10	N.D.
4-Chloroaniline	5.0	N.D.	3-Nitroaniline	10	N.D.
2-Chloronaphthalene	5.0	N.D.	4-Nitroaniline	25	N.D.
4-Chloro-3-methylphenol	5.0	N.D.	Nitrobenzene	25	N.D.
2-Chlorophenol	13	N.D.	2-Nitrophenol	5.0	N.D.
4-Chlorophenyl phenyl ether	5.0	N.D.	4-Nitrophenol	25	N.D.
Chrysene	5.0	N.D.	N-Nitrosodiphenylamine	10	N.D.
Dibenz(a,h)anthracene	13	N.D.	N-Nitroso-di-N-propylamine	7.5	N.D.
Dibenzofuran	5.0	N.D.	Pentachlorophenol	25	N.D.
Di-N-butyl phthalate	13	N.D.	Phenanthrene	5.0	N.D.
1,3-Dichlorobenzene	5.0	N.D.	Phenol	7.5	N.D.
1,4-Dichlorobenzene	5.0	N.D.	Pyrene	7.5	N.D.
1,2-Dichlorobenzene	5.0	N.D.	1,2,4-Trichlorobenzene	5.0	N.D.
3,3-Dichlorobenzidine	25	N.D.	2,4,5-Trichlorophenol	7.5	N.D.
2,4-Dichlorophenol	5.0	N.D.	2,4,6-Trichlorophenol	7.5	N.D.
Diethyl phthalate	5.0	N.D.			
2,4-Dimethylphenol	13	N.D.			

Analytes reported as N.D. were not present above the stated limit of detection.

Surrogate Standard Recoveries (Accept. Limits):	
2-Fluorophenol (25-121)	56%
Phenol-d6 (24-113)	62%
2,4,6-Tribromophenol (19-122)	74%
Nitrobenzene-d5 (23-120)	59%
2-Fluorobiphenyl (30-115)	66%
Terphenyl-d14 (18-137)	75%

DEL MAR ANALYTICAL, IRVINE (ELAP #1197)

Gary Steube
Laboratory Director

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Harding Lawson Associates
3 Hutton Centre, Suite 300
Santa Ana, CA 92707
Attention: Andrew Keller

Method Blank

Extracted: Sep 1, 1995
Analyzed: Sep 1, 1995
Reported: Sep 1, 1995
Matrix: Wipe

VOLATILE ORGANICS by GC/MS (EPA 8240)

Analyte	Detection Limit µg/Wipe	Sample Result µg/Wipe
Acetone	5.0	N.D.
Benzene	1.0	N.D.
Bromodichloromethane	1.0	N.D.
Bromoform	1.0	N.D.
Bromomethane	2.5	N.D.
2-Butanone	5.0	N.D.
Carbon disulfide	2.5	N.D.
Carbon tetrachloride	2.5	N.D.
Chlorobenzene	1.0	N.D.
Chlorodibromomethane	1.0	N.D.
Chloroethane	2.5	N.D.
2-Chloroethyl vinyl ether	1.0	N.D.
Chloroform	1.0	N.D.
Chloromethane	2.5	N.D.
1,1-Dichloroethane	1.0	N.D.
1,2-Dichloroethane	1.0	N.D.
1,1-Dichloroethene	2.5	N.D.
cis-1,2-Dichloroethene	1.0	N.D.
trans-1,2-Dichloroethene	1.0	N.D.
1,2-Dichloropropane	1.0	N.D.
cis-1,3-Dichloropropene	1.0	N.D.
trans-1,3-Dichloropropene	1.0	N.D.
Ethylbenzene	1.0	N.D.
2-Hexanone	5.0	N.D.
Methylene chloride	5.0	N.D.
4-Methyl-2-pentanone	2.5	N.D.
Styrene	1.0	N.D.
1,1,2,2-Tetrachloroethane	1.0	N.D.
Tetrachloroethene	1.0	N.D.
Toluene	1.0	N.D.
1,1,1-Trichloroethane	1.0	N.D.
1,1,2-Trichloroethane	1.0	N.D.
Trichloroethene	1.0	N.D.
Trichlorofluoromethane	2.5	N.D.
Vinyl acetate	2.5	N.D.
Vinyl chloride	2.5	N.D.
Total Xylenes	1.0	N.D.

Analytes reported as N.D. were not present above the stated limit of detection.

DEL MAR ANALYTICAL, IRVINE (ELAP #1197)

Gary Steube
Laboratory Director

Surrogate Standard Recoveries (Accept. Limits):	
1,2-Dichloroethane-d4 (70-121)	105%
Toluene-d8 (81-117)	99%
4-Bromofluorobenzene (74-121)	87%

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Harding Lawson Associates
3 Hutton Centre, Suite 300
Santa Ana, CA 92707
Attention: Andrew Keller

Method Blank

Extracted: Aug 29-30, 199
Analyzed: Aug 29-30, 1995
Reported: Aug 31, 1995
Matrix Wipe

CALIFORNIA CODE OF REGULATIONS, TITLE 22 METALS

Analyte	EPA Method	STLC Max. Limit mg/L (ppm)	TTLC Max. Limit mg/Kg (ppm)	Detection Limit µg/Wipe		TTLC Sample Result µg/Wipe
Antimony	6010	15	500	20	.....	N.D.
Arsenic	6010	5.0	500	4.0	.....	N.D.
Barium	6010	100	10000	2.0	.....	N.D.
Beryllium	6010	0.75	75	0.40	.....	N.D.
Cadmium	6010	1.0	100	0.40	.....	N.D.
Chromium, VI	7196	5.0	500	1.0	.....	N.D.
Chromium, total	6010	560	2500	2.0	.....	N.D.
Cobalt	6010	80	8000	2.0	.....	N.D.
Copper	6010	25	2500	2.0	.....	N.D.
Lead	6010	5.0	1000	4.0	.....	N.D.
Mercury	7471	0.20	20	0.080	.....	N.D.
Molybdenum	6010	350	3500	2.0	.....	N.D.
Nickel	6010	20	2000	2.0	.....	N.D.
Selenium	6010	1.0	100	4.0	.....	N.D.
Silver	6010	5.0	500	2.0	.....	N.D.
Thallium	6010	7.0	700	20	.....	N.D.
Vanadium	6010	24	2400	2.0	.....	N.D.
Zinc	6010	250	5000	2.0	.....	N.D.

Analytes reported as N.D. were not present above the stated limit of detection.

DEL MAR ANALYTICAL, IRVINE (ELAP #1197)

Gary Steube
Laboratory Director

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MS/MSD DATA REPORT

METHOD: **Metals**
Instrument: ICP
Matrix: SOIL

Date: 8/29/95

Sample #: EH04432

Analyte	R1	SP	MS	MSD	PR1	PR2	RPD	MEAN PR
	ppb	ppb	ppb	ppb	%	%	%	%
Antimony	0	1000	985	1010	99%	101%	2.5%	100%
Arsenic	0	1000	904	950	90%	95%	5.0%	93%
Barium	0	1000	999	1005	100%	101%	0.6%	100%
Beryllium	0	1000	989	1008	99%	101%	1.9%	100%
Boron	0	1000	909	963	91%	96%	5.8%	94%
Cadmium	0	1000	987	991	99%	99%	0.4%	99%
Chromium	0	1000	1009	1013	101%	101%	0.4%	101%
Cobalt	0	1000	1052	1045	105%	105%	0.7%	105%
Copper	0	1000	1011	1073	101%	107%	6.0%	104%
Lead	0	1000	1003	1002	100%	100%	0.1%	100%
Magnesium	0	1000	1022	1082	102%	108%	5.7%	105%
Molybdenum	0	1000	1046	1091	105%	109%	4.2%	107%
Nickel	0	1000	1041	1060	104%	106%	1.8%	105%
Selenium	0	1000	1029	1014	103%	101%	1.5%	102%
Silver	0	1000	908	899	91%	90%	1.0%	90%
Thallium	0	1000	961	1078	96%	108%	11.5%	102%
Vanadium	0	1000	955	1010	96%	101%	5.6%	98%
Zinc	0	1000	1031	994	103%	99%	3.7%	101%

R1..... ..... Result of Sample Analysis
Sp..... ..... Spike Concentration Added to Sample
MS..... ..... Matrix Spike Result
MSD..... ..... Matrix Spike Duplicate Result
PR1..... ..... Percent Recovery of MS; ((MS-R1) / SP) X 100
PR2..... ..... Percent Recovery of MSD; ((MSD-R1) / SP) X 100
RPD..... ..... Relative Percent Difference; ((MS-MSD)/(MS+MSD)/2)) X 100

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MS/MSD DATA REPORT

EPA METHOD: 8240
Matrix: Soil

DATE: 9/1/95

SAMPLE #: EH04103

Analyte	R1	Sp	MS	MSD	PR1	PR2	RPD	MEAN PR
	ppb	ppb	ppb	ppb	%	%	%	%
Benzene	0	50	49	49	98%	98%	0.0%	98%
Chlorobenzene	0	50	52	51	104%	102%	1.9%	103%
1,1-Dichloroethane	0	50	48	46	96%	92%	4.3%	94%
1,2-Dichlororethane	0	50	58	57	116%	114%	1.7%	115%
1,1-Dichloroethene	0	50	47	46	94%	92%	2.2%	93%
Chloroform	0	50	48	47	96%	94%	2.1%	95%
Tetrachloroethene	0	50	49	48	98%	96%	2.1%	97%
Toluene	0	50	48	49	96%	98%	2.1%	97%
Trichloroethene	0	50	46	48	92%	96%	4.3%	94%
Vinyl Chloride	0	50	58	56	116%	112%	3.5%	114%

Definition of Terms:

R1..... Result of Sample Analysis

Sp..... Spike Concentration Added to Sample

MS..... Matrix Spike Result

MSD..... Matrix Spike Duplicate Result

PR1..... Percent Recovery of MS; ((MS-R1) / SP) X 100

PR2..... Percent Recovery of MSD; ((MSD-R1) / SP) X 100

RPD..... Relative Percent Difference; ((MS-MSD)/(MS+MSD)/2)) X 100

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MS/MSD DATA REPORT

EPA METHOD: **8270**
Matrix: Soil

DATE: 8/29/95

SAMPLE #: Blank

Analyte	R1	Sp	MS	MSD	PR1	PR2	RPD	MEAN PR
	ppb	ppb	ppb	ppb	%	%	%	%
1,4-Dichlorobenzene	0	50	37	33	74%	66%	11.4%	70%
n-nitroso-di-n-propylamine	0	50	39	36	78%	72%	8.0%	75%
1,2,4-Trichlorobenzene	0	50	40	36	80%	72%	10.5%	76%
Acenaphthene	0	50	41	37	82%	74%	10.3%	78%
2,4-Dinitrotoluene	0.1	50	37	35	74%	70%	5.6%	72%
Pyrene	0.1	50	42	39	84%	78%	7.4%	81%
4-Chloro-3-methylphenol	0	100	78	72	78%	72%	8.0%	75%
2-Chlorophenol	0	100	72	66	72%	66%	8.7%	69%
4-Nitrophenol	0.1	100	65	57	65%	57%	13.1%	61%
Pentachlorophenol	0	100	67	67	67%	67%	0.0%	67%
Phenol	0.1	100	75	71	75%	71%	5.5%	73%

Definition of Terms:

R1..... Result of Sample Analysis

Sp..... Spike Concentration Added to Sample

MS..... Matrix Spike Result

MSD..... Matrix Spike Duplicate Result

PR1..... Percent Recovery of MS; ((MS-R1) / SP) X 100

PR2..... Percent Recovery of MSD; ((MSD-R1) / SP) X 100

RPD..... Relative Percent Difference; ((MS-MSD)/(MS+MSD)/2)) X 100

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MS/MSD DATA REPORT

EPA METHOD: **7471**
Matrix: Soil

DATE: 8/29/95

SAMPLE #: EH02880

Analyte	R1	Sp	MS	MSD	PR1	PR2	RPD	MEAN PR
	ppb	ppb	ppb	ppb	%	%	%	%
Mercury	0	8.0	7.7	7.4	96%	93%	4.0%	94%

Definition of Terms:

R1..... Result of Sample Analysis

Sp..... Spike Concentration Added to Sample

MS..... Matrix Spike Result

MSD..... Matrix Spike Duplicate Result

PR1..... Percent Recovery of MS; ((MS-R1) / SP) X 100

PR2..... Percent Recovery of MSD; ((MSD-R1) / SP) X 100

RPD..... Relative Percent Difference; ((MS-MSD)/(MS+MSD)/2)) X 100

Del Mar Analytical

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MS/MSD DATA REPORT

EPA METHOD: **3060/7196**
Matrix: Soil

DATE: 8/30/95

SAMPLE #: Blank

Analyte	R1	Sp	MS	MSD	PR1	PR2	RPD	MEAN PR
	ppm	ppm	ppm	ppm	%	%	%	%
Chromium (VI)	0	0.20	0.21	0.21	105%	105%	0.0%	105%

Definition of Terms:

R1..... Result of Sample Analysis

Sp..... Spike Concentration Added to Sample

MS..... Matrix Spike Result

MSD..... Matrix Spike Duplicate Result

PR1..... Percent Recovery of MS; ((MS-R1) / SP) X 100

PR2..... Percent Recovery of MSD; ((MSD-R1) / SP) X 100

RPD..... Relative Percent Difference; ((MS-MSD)/(MS+MSD)/2)) X 100

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57077

CHAIN OF CUSTODY FORM

Client Name/Address:
Omega
12504 Whittier Blvd.
Whittier, Ca

Project/PO Number:
32026.48

Project Manager/Phone Number:
Andrew Keller
(714) 556-7992

Sampler:
JFK

Analysis Required

Sample Description	Sample Matrix	Container Type	#of Cont	Sampling Date/Time	Preservatives	EPA 8240	EPA 8270	Title 22 Metals							Special Instructions
2K-1-8270	wipe	glass	1	8/28/95 1140	JFK ~~other~~ None		X								Fax all
2K-1-8240	wipe	" "			" "	X									results to
2K-1-CAM	wipe	" "			" "			X							Jim @
															(310) 907-9826
															+ Andrew
															Keller @
															(714) 662-3297

Relinquished By: [signature] Date /Time: 8/28/95 1300
Received by: [signature] Date /Time: 8/28/95 1301

Relinquished By: [signature] Date /Time: 8/28/95 1400
Received by: Date /Time:

Relinquished By: Date /Time:
Received in Lab by: [signature] Date /Time: 8/28 1400

Turnaround Time: (check)
same day ____ 72 hours ____
24 hours ✓ 5 days ____
48 hours ____ normal ____

Sample Integrity: (Check)
intact ✓ on ice ✓

Note: Sample(s) will be disposed of after 30 days.

Del Mar Analytical

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2465 W. 12th St., Suite 1, Tempe, AZ 85281 (602) 968-8272 FAX (602) 968-1338

Harding Lawson Associates
3 Hutton Centre, Suite 300
Santa Ana, CA 92707
Attention: Andrew Keller

Client Project ID: 32026.48
Omega Chemical/Whittier
Sample Descript: Solid, Eastmix-8270
Lab Number: EH01693

Sampled: Aug 11, 1995
Received: Aug 11, 1995
Extracted: Aug 11, 1995
Analyzed: Aug 12, 1995
Reported: Aug 15, 1995

SEMI-VOLATILE ORGANICS by GC/MS (EPA 3550/8270)

Analyte	Detection Limit µg/wipe	Sample Result µg/wipe	Analyte	Detection Limit µg/wipe	Sample Result µg/wipe
Acenaphthene	5.0	N.D.	Dimethyl phthalate	5.0	N.D.
Acenaphthylene	5.0	N.D.	4,6-Dinitro-2-methylphenol	13	N.D.
Aniline	7.5	N.D.	2,4-Dinitrophenol	13	N.D.
Anthracene	5.0	N.D.	2,4-Dinitrotoluene	5.0	N.D.
Azobenzene	7.5	N.D.	2,6-Dinitrotoluene	5.0	N.D.
Benzidine	50	N.D.	Di-N-octyl phthalate	25	N.D.
Benzoic Acid	25	N.D.	Fluoranthene	5.0	N.D.
Benz(a)anthracene	5.0	N.D.	Fluorene	5.0	N.D.
Benzo(b)fluoranthene	10	N.D.	Hexachlorobenzene	5.0	N.D.
Benzo(k)fluoranthene	10	N.D.	Hexachlorobutadiene	5.0	N.D.
Benzo(g,h,i)perylene	7.5	N.D.	Hexachlorocyclopentadiene	25	N.D.
Benzo(a)pyrene	10	N.D.	Hexachloroethane	10	N.D.
Benzyl alcohol	10	N.D.	Indeno(1,2,3-cd)pyrene	10	N.D.
Bis(2-chloroethoxy)methane	5.0	N.D.	Isophorone	5.0	N.D.
Bis(2-chloroethyl)ether	5.0	N.D.	2-Methylnaphthalene	5.0	N.D.
Bis(2-chloroisopropyl)ether	5.0	N.D.	2-Methylphenol	7.5	N.D.
Bis(2-ethylhexyl)phthalate	**13**	**17**	4-Methylphenol	7.5	N.D.
4-Bromophenyl phenyl ether	7.5	N.D.	Naphthalene	7.5	N.D.
Butyl benzyl phthalate	25	N.D.	2-Nitroaniline	10	N.D.
4-Chloroaniline	5.0	N.D.	3-Nitroaniline	10	N.D.
2-Chloronaphthalene	5.0	N.D.	4-Nitroaniline	25	N.D.
4-Chloro-3-methylphenol	5.0	N.D.	Nitrobenzene	25	N.D.
2-Chlorophenol	13	N.D.	2-Nitrophenol	5.0	N.D.
4-Chlorophenyl phenyl ether	5.0	N.D.	4-Nitrophenol	25	N.D.
Chrysene	5.0	N.D.	N-Nitrosodiphenylamine	10	N.D.
Dibenz(a,h)anthracene	13	N.D.	N-Nitroso-di-N-propylamine	7.5	N.D.
Dibenzofuran	5.0	N.D.	Pentachlorophenol	25	N.D.
Di-N-butyl phthalate	13	N.D.	Phenanthrene	5.0	N.D.
1,3-Dichlorobenzene	5.0	N.D.	Phenol	7.5	N.D.
1,4-Dichlorobenzene	5.0	N.D.	Pyrene	7.5	N.D.
1,2-Dichlorobenzene	5.0	N.D.	1,2,4-Trichlorobenzene	5.0	N.D.
3,3-Dichlorobenzidine	25	N.D.	2,4,5-Trichlorophenol	7.5	N.D.
2,4-Dichlorophenol	5.0	N.D.	2,4,6-Trichlorophenol	7.5	N.D.
Diethyl phthalate	5.0	N.D.			
2,4-Dimethylphenol	13	N.D.			

Analytes reported as N.D. were not present above the stated limit of detection.

Surrogate Standard Recoveries (Accept. Limits):	
2-Fluorophenol (25-121)	64%
Phenol-d6 (24-113)	62%
2,4,6-Tribromophenol (19-122)	81%
Nitrobenzene-d5 (23-120)	73%
2-Fluorobiphenyl (30-115)	74%
Terphenyl-d14 (18-137)	83%

DEL MAR ANALYTICAL, IRVINE (ELAP #1197)

Gary Steube
Laboratory Director

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Harding Lawson Associates
3 Hutton Centre, Suite 300
Santa Ana, CA 92707
Attention: Andrew Keller

Client Project ID: 32026.48
Omega Chemical/Whittier
Sample Descript: Solid, Westmix-8270
Lab Number: EH01695

Sampled: Aug 11, 19
Received: Aug 11, 1995
Extracted: Aug 11, 1995
Analyzed: Aug 12, 1995
Reported: Aug 15, 1995

SEMI-VOLATILE ORGANICS by GC/MS (EPA 3550/8270)

Analyte	Detection Limit µg/wipe	Sample Result µg/wipe	Analyte	Detection Limit µg/wipe	Sample Result µg/wipe
Acenaphthene	5.0	N.D.	Dimethyl phthalate	5.0	N.D.
Acenaphthylene	5.0	N.D.	4,6-Dinitro-2-methylphenol	13	N.D.
Aniline	7.5	N.D.	2,4-Dinitrophenol	13	N.D.
Anthracene	5.0	N.D.	2,4-Dinitrotoluene	5.0	N.D.
Azobenzene	7.5	N.D.	2,6-Dinitrotoluene	5.0	N.D.
Benzidine	50	N.D.	Di-N-octyl phthalate	25	N.D.
Benzoic Acid	25	N.D.	Fluoranthene	5.0	N.D.
Benz(a)anthracene	5.0	N.D.	Fluorene	5.0	N.D.
Benzo(b)fluoranthene	10	N.D.	Hexachlorobenzene	5.0	N.D.
Benzo(k)fluoranthene	10	N.D.	Hexachlorobutadiene	5.0	N.D.
Benzo(g,h,i)perylene	7.5	N.D.	Hexachlorocyclopentadiene	25	N.D.
Benzo(a)pyrene	10	N.D.	Hexachloroethane	10	N.D.
Benzyl alcohol	10	N.D.	Indeno(1,2,3-cd)pyrene	10	N.D.
Bis(2-chloroethoxy)methane	5.0	N.D.	Isophorone	5.0	N.D.
Bis(2-chloroethyl)ether	5.0	N.D.	2-Methylnaphthalene	5.0	N.D.
Bis(2-chloroisopropyl)ether	5.0	N.D.	2-Methylphenol	7.5	N.D.
Bis(2-ethylhexyl)phthalate	13	N.D.	4-Methylphenol	7.5	N.D.
4-Bromophenyl phenyl ether	7.5	N.D.	Naphthalene	7.5	N.D.
Butyl benzyl phthalate	25	N.D.	2-Nitroaniline	10	N.D.
4-Chloroaniline	5.0	N.D.	3-Nitroaniline	10	N.D.
2-Chloronaphthalene	5.0	N.D.	4-Nitroaniline	25	N.D.
4-Chloro-3-methylphenol	5.0	N.D.	Nitrobenzene	25	N.D.
2-Chlorophenol	13	N.D.	2-Nitrophenol	5.0	N.D.
4-Chlorophenyl phenyl ether	5.0	N.D.	4-Nitrophenol	25	N.D.
Chrysene	5.0	N.D.	N-Nitrosodiphenylamine	10	N.D.
Dibenz(a,h)anthracene	13	N.D.	N-Nitroso-di-N-propylamine	7.5	N.D.
Dibenzofuran	5.0	N.D.	Pentachlorophenol	25	N.D.
Di-N-butyl phthalate	13	N.D.	Phenanthrene	5.0	N.D.
1,3-Dichlorobenzene	5.0	N.D.	Phenol	7.5	N.D.
1,4-Dichlorobenzene	5.0	N.D.	Pyrene	7.5	N.D.
1,2-Dichlorobenzene	5.0	N.D.	1,2,4-Trichlorobenzene	5.0	N.D.
3,3-Dichlorobenzidine	25	N.D.	2,4,5-Trichlorophenol	7.5	N.D.
2,4-Dichlorophenol	5.0	N.D.	2,4,6-Trichlorophenol	7.5	N.D.
Diethyl phthalate	5.0	N.D.			
2,4-Dimethylphenol	13	N.D.			

Analytes reported as N.D. were not present above the stated limit of detection.

Surrogate Standard Recoveries (Accept. Limits):	
2-Fluorophenol (25-121)	62%
Phenol-d6 (24-113)	59%
2,4,6-Tribromophenol (19-122)	80%
Nitrobenzene-d5 (23-120)	68%
2-Fluorobiphenyl (30-115)	74%
Terphenyl-d14 (18-137)	87%

DEL MAR ANALYTICAL, IRVINE (ELAP #1197)

Gary Steube
Laboratory Director

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Harding Lawson Associates
3 Hutton Centre, Suite 300
Santa Ana, CA 92707
Attention: Andrew Keller

Client Project ID: 32026.48
Omega Chemical/Whittier
Sample Descript: Solid, Tank 7-8270
Lab Number: EH01697

Sampled: Aug 11, 1995
Received: Aug 11, 1995
Extracted: Aug 11, 1995
Analyzed: Aug 12, 1995
Reported: Aug 15, 1995

SEMI-VOLATILE ORGANICS by GC/MS (EPA 3550/8270)

Analyte	Detection Limit µg/wipe	Sample Result µg/wipe	Analyte	Detection Limit µg/wipe	Sample Result µg/wipe
Acenaphthene	5.0	N.D.	Dimethyl phthalate	5.0	N.D.
Acenaphthylene	5.0	N.D.	4,6-Dinitro-2-methylphenol	13	N.D.
Aniline	7.5	N.D.	2,4-Dinitrophenol	13	N.D.
Anthracene	5.0	N.D.	2,4-Dinitrotoluene	5.0	N.D.
Azobenzene	7.5	N.D.	2,6-Dinitrotoluene	5.0	N.D.
Benzidine	50	N.D.	Di-N-octyl phthalate	25	N.D.
Benzoic Acid	25	N.D.	Fluoranthene	5.0	N.D.
Benz(a)anthracene	5.0	N.D.	Fluorene	5.0	N.D.
Benzo(b)fluoranthene	10	N.D.	Hexachlorobenzene	5.0	N.D.
Benzo(k)fluoranthene	10	N.D.	Hexachlorobutadiene	5.0	N.D.
Benzo(g,h,i)perylene	7.5	N.D.	Hexachlorocyclopentadiene	25	N.D.
Benzo(a)pyrene	10	N.D.	Hexachloroethane	10	N.D.
Benzyl alcohol	10	N.D.	Indeno(1,2,3-cd)pyrene	10	N.D.
Bis(2-chloroethoxy)methane	5.0	N.D.	Isophorone	5.0	N.D.
Bis(2-chloroethyl)ether	5.0	N.D.	2-Methylnaphthalene	5.0	N.D.
Bis(2-chloroisopropyl)ether	5.0	N.D.	2-Methylphenol	7.5	N.D.
Bis(2-ethylhexyl)phthalate	13	N.D.	4-Methylphenol	7.5	N.D.
4-Bromophenyl phenyl ether	7.5	N.D.	Naphthalene	7.5	N.D.
Butyl benzyl phthalate	25	N.D.	2-Nitroaniline	10	N.D.
4-Chloroaniline	5.0	N.D.	3-Nitroaniline	10	N.D.
2-Chloronaphthalene	5.0	N.D.	4-Nitroaniline	25	N.D.
4-Chloro-3-methylphenol	5.0	N.D.	Nitrobenzene	25	N.D.
2-Chlorophenol	13	N.D.	2-Nitrophenol	5.0	N.D.
4-Chlorophenyl phenyl ether	5.0	N.D.	4-Nitrophenol	25	N.D.
Chrysene	5.0	N.D.	N-Nitrosodiphenylamine	10	N.D.
Dibenz(a,h)anthracene	13	N.D.	N-Nitroso-di-N-propylamine	7.5	N.D.
Dibenzofuran	5.0	N.D.	Pentachlorophenol	25	N.D.
Di-N-butyl phthalate	13	N.D.	Phenanthrene	5.0	N.D.
1,3-Dichlorobenzene	5.0	N.D.	Phenol	7.5	N.D.
1,4-Dichlorobenzene	5.0	N.D.	Pyrene	7.5	N.D.
1,2-Dichlorobenzene	5.0	N.D.	1,2,4-Trichlorobenzene	5.0	N.D.
3,3-Dichlorobenzidine	25	N.D.	2,4,5-Trichlorophenol	7.5	N.D.
2,4-Dichlorophenol	5.0	N.D.	2,4,6-Trichlorophenol	7.5	N.D.
Diethyl phthalate	5.0	N.D.			
2,4-Dimethylphenol	13	N.D.			

Analytes reported as N.D. were not present above the stated limit of detection.

Surrogate Standard Recoveries (Accept. Limits):	
2-Fluorophenol (25-121)	55%
Phenol-d6 (24-113)	54%
2,4,6-Tribromophenol (19-122)	73%
Nitrobenzene-d5 (23-120)	57%
2-Fluorobiphenyl (30-115)	62%
Terphenyl-d14 (18-137)	80%

DEL MAR ANALYTICAL, IRVINE (ELAP #1197)

Gary Steube
Laboratory Director

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Harding Lawson Associates
3 Hutton Centre, Suite 300
Santa Ana, CA 92707
Attention: Andrew Keller

Client Project ID: 32026.48
Omega Chemical/Whittier
Sample Descript: Solid, Tank 8-8270
Lab Number: EH01699

Sampled: Aug 11, 19
Received: Aug 11, 1995
Extracted: Aug 11, 1995
Analyzed: Aug 12, 1995
Reported: Aug 15, 1995

SEMI-VOLATILE ORGANICS by GC/MS (EPA 3550/8270)

Analyte	Detection Limit µg/wipe	Sample Result µg/wipe	Analyte	Detection Limit µg/wipe	Sample Result µg/wipe
Acenaphthene	5.0	N.D.	Dimethyl phthalate	5.0	N.D.
Acenaphthylene	5.0	N.D.	4,6-Dinitro-2-methylphenol	13	N.D.
Aniline	7.5	N.D.	2,4-Dinitrophenol	13	N.D.
Anthracene	5.0	N.D.	2,4-Dinitrotoluene	5.0	N.D.
Azobenzene	7.5	N.D.	2,6-Dinitrotoluene	5.0	N.D.
Benzidine	50	N.D.	Di-N-octyl phthalate	25	N.D.
Benzoic Acid	25	N.D.	Fluoranthene	5.0	N.D.
Benz(a)anthracene	5.0	N.D.	Fluorene	5.0	N.D.
Benzo(b)fluoranthene	10	N.D.	Hexachlorobenzene	5.0	N.D.
Benzo(k)fluoranthene	10	N.D.	Hexachlorobutadiene	5.0	N.D.
Benzo(g,h,i)perylene	7.5	N.D.	Hexachlorocyclopentadiene	25	N.D.
Benzo(a)pyrene	10	N.D.	Hexachloroethane	10	N.D.
Benzyl alcohol	10	N.D.	Indeno(1,2,3-cd)pyrene	10	N.D.
Bis(2-chloroethoxy)methane	5.0	N.D.	Isophorone	5.0	N.D.
Bis(2-chloroethyl)ether	5.0	N.D.	2-Methylnaphthalene	5.0	N.D.
Bis(2-chloroisopropyl)ether	5.0	N.D.	2-Methylphenol	7.5	N.D.
Bis(2-ethylhexyl)phthalate	13	N.D.	4-Methylphenol	7.5	N.D.
4-Bromophenyl phenyl ether	7.5	N.D.	Naphthalene	7.5	N.D.
Butyl benzyl phthalate	25	N.D.	2-Nitroaniline	10	N.D.
4-Chloroaniline	5.0	N.D.	3-Nitroaniline	10	N.D.
2-Chloronaphthalene	5.0	N.D.	4-Nitroaniline	25	N.D.
4-Chloro-3-methylphenol	5.0	N.D.	Nitrobenzene	25	N.D.
2-Chlorophenol	13	N.D.	2-Nitrophenol	5.0	N.D.
4-Chlorophenyl phenyl ether	5.0	N.D.	4-Nitrophenol	25	N.D.
Chrysene	5.0	N.D.	N-Nitrosodiphenylamine	10	N.D.
Dibenz(a,h)anthracene	13	N.D.	N-Nitroso-di-N-propylamine	7.5	N.D.
Dibenzofuran	5.0	N.D.	Pentachlorophenol	25	N.D.
Di-N-butyl phthalate	13	N.D.	Phenanthrene	5.0	N.D.
1,3-Dichlorobenzene	5.0	N.D.	Phenol	7.5	N.D.
1,4-Dichlorobenzene	5.0	N.D.	Pyrene	7.5	N.D.
1,2-Dichlorobenzene	5.0	N.D.	1,2,4-Trichlorobenzene	5.0	N.D.
3,3-Dichlorobenzidine	25	N.D.	2,4,5-Trichlorophenol	7.5	N.D.
2,4-Dichlorophenol	5.0	N.D.	2,4,6-Trichlorophenol	7.5	N.D.
Diethyl phthalate	5.0	N.D.			
2,4-Dimethylphenol	13	N.D.			

Analytes reported as N.D. were not present above the stated limit of detection.

Surrogate Standard Recoveries (Accept. Limits):	
2-Fluorophenol (25-121)	52%
Phenol-d6 (24-113)	48%
2,4,6-Tribromophenol (19-122)	66%
Nitrobenzene-d5 (23-120)	60%
2-Fluorobiphenyl (30-115)	60%
Terphenyl-d14 (18-137)	75%

DEL MAR ANALYTICAL, IRVINE (ELAP #1197)

Gary Steube
Laboratory Director

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Harding Lawson Associates
3 Hutton Centre, Suite 300
Santa Ana, CA 92707
Attention: Andrew Keller

Client Project ID: 32026.48
Omega Chemical/Whittier
Sample Descript: Solid, Tank 9-8270
Lab Number: EH01701

Sampled: Aug 11, 1995
Received: Aug 11, 1995
Extracted: Aug 11, 1995
Analyzed: Aug 13, 1995
Reported: Aug 14, 1995

SEMI-VOLATILE ORGANICS by GC/MS (EPA 3550/8270)

Analyte	Detection Limit µg/wipe	Sample Result µg/wipe	Analyte	Detection Limit µg/wipe	Sample Result µg/wipe
Acenaphthene	5.0	N.D.	Dimethyl phthalate	5.0	N.D.
Acenaphthylene	5.0	N.D.	4,6-Dinitro-2-methylphenol	13	N.D.
Aniline	7.5	N.D.	2,4-Dinitrophenol	13	N.D.
Anthracene	5.0	N.D.	2,4-Dinitrotoluene	5.0	N.D.
Azobenzene	7.5	N.D.	2,6-Dinitrotoluene	5.0	N.D.
Benzidine	50	N.D.	Di-N-octyl phthalate	25	N.D.
Benzoic Acid	25	N.D.	Fluoranthene	5.0	N.D.
Benz(a)anthracene	5.0	N.D.	Fluorene	5.0	N.D.
Benzo(b)fluoranthene	10	N.D.	Hexachlorobenzene	5.0	N.D.
Benzo(k)fluoranthene	10	N.D.	Hexachlorobutadiene	5.0	N.D.
Benzo(g,h,i)perylene	7.5	N.D.	Hexachlorocyclopentadiene	25	N.D.
Benzo(a)pyrene	10	N.D.	Hexachloroethane	10	N.D.
Benzyl alcohol	10	N.D.	Indeno(1,2,3-cd)pyrene	10	N.D.
Bis(2-chloroethoxy)methane	5.0	N.D.	Isophorone	5.0	N.D.
Bis(2-chloroethyl)ether	5.0	N.D.	2-Methylnaphthalene	5.0	N.D.
Bis(2-chloroisopropyl)ether	5.0	N.D.	2-Methylphenol	7.5	N.D.
Bis(2-ethylhexyl)phthalate	13	N.D.	4-Methylphenol	7.5	N.D.
4-Bromophenyl phenyl ether	7.5	N.D.	Naphthalene	7.5	N.D.
Butyl benzyl phthalate	25	N.D.	2-Nitroaniline	10	N.D.
4-Chloroaniline	5.0	N.D.	3-Nitroaniline	10	N.D.
2-Chloronaphthalene	5.0	N.D.	4-Nitroaniline	25	N.D.
4-Chloro-3-methylphenol	5.0	N.D.	Nitrobenzene	25	N.D.
2-Chlorophenol	13	N.D.	2-Nitrophenol	5.0	N.D.
4-Chlorophenyl phenyl ether	5.0	N.D.	4-Nitrophenol	25	N.D.
Chrysene	5.0	N.D.	N-Nitrosodiphenylamine	10	N.D.
Dibenz(a,h)anthracene	13	N.D.	N-Nitroso-di-N-propylamine	7.5	N.D.
Dibenzofuran	5.0	N.D.	Pentachlorophenol	25	N.D.
Di-N-butyl phthalate	13	N.D.	Phenanthrene	5.0	N.D.
1,3-Dichlorobenzene	5.0	N.D.	Phenol	7.5	N.D.
1,4-Dichlorobenzene	5.0	N.D.	Pyrene	7.5	N.D.
1,2-Dichlorobenzene	5.0	N.D.	1,2,4-Trichlorobenzene	5.0	N.D.
3,3-Dichlorobenzidine	25	N.D.	2,4,5-Trichlorophenol	7.5	N.D.
2,4-Dichlorophenol	5.0	N.D.	2,4,6-Trichlorophenol	7.5	N.D.
Diethyl phthalate	5.0	N.D.			
2,4-Dimethylphenol	13	N.D.			

Analytes reported as N.D. were not present above the stated limit of detection.

Surrogate Standard Recoveries (Accept. Limits):	
2-Fluorophenol (25-121)	70%
Phenol-d6 (24-113)	68%
2,4,6-Tribromophenol (19-122)	85%
Nitrobenzene-d5 (23-120)	70%
2-Fluorobiphenyl (30-115)	75%
Terphenyl-d14 (18-137)	82%

DEL MAR ANALYTICAL, IRVINE (ELAP #1197)

Gary Steube
Laboratory Director

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Del Mar Analytical

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2465 W. 12th St., Suite 1, Tempe, AZ 85281 (602) 968-8272 FAX (602) 968-1338

Harding Lawson Associates
3 Hutton Centre, Suite 300
Santa Ana, CA 92707
Attention: Andrew Keller

Client Project ID: 32026.48
Omega Chemical/Whittier
Sample Descript: Solid, 2K-2-8270
Lab Number: EH01703

Sampled: Aug 11, 199
Received: Aug 11, 1995
Extracted: Aug 11, 1995
Analyzed: Aug 13, 1995
Reported: Aug 15, 1995

SEMI-VOLATILE ORGANICS by GC/MS (EPA 3550/8270)

Analyte	Detection Limit µg/wipe	Sample Result µg/wipe	Analyte	Detection Limit µg/wipe	Sample Result µg/wipe
Acenaphthene	5.0	N.D.	Dimethyl phthalate	5.0	N.D.
Acenaphthylene	5.0	N.D.	4,6-Dinitro-2-methylphenol	13	N.D.
Aniline	7.5	N.D.	2,4-Dinitrophenol	13	N.D.
Anthracene	5.0	N.D.	2,4-Dinitrotoluene	5.0	N.D.
Azobenzene	7.5	N.D.	2,6-Dinitrotoluene	5.0	N.D.
Benzidine	50	N.D.	Di-N-octyl phthalate	25	N.D.
Benzoic Acid	25	N.D.	Fluoranthene	5.0	N.D.
Benz(a)anthracene	5.0	N.D.	Fluorene	5.0	N.D.
Benzo(b)fluoranthene	10	N.D.	Hexachlorobenzene	5.0	N.D.
Benzo(k)fluoranthene	10	N.D.	Hexachlorobutadiene	5.0	N.D.
Benzo(g,h,i)perylene	7.5	N.D.	Hexachlorocyclopentadiene	25	N.D.
Benzo(a)pyrene	10	N.D.	Hexachloroethane	10	N.D.
Benzyl alcohol	10	N.D.	Indeno(1,2,3-cd)pyrene	10	N.D.
Bis(2-chloroethoxy)methane	5.0	N.D.	Isophorone	5.0	N.D.
Bis(2-chloroethyl)ether	5.0	N.D.	2-Methylnaphthalene	5.0	N.D.
Bis(2-chloroisopropyl)ether	5.0	N.D.	2-Methylphenol	7.5	N.D.
Bis(2-ethylhexyl)phthalate	**13**	**19**	4-Methylphenol	7.5	N.D.
4-Bromophenyl phenyl ether	7.5	N.D.	Naphthalene	7.5	N.D.
Butyl benzyl phthalate	25	N.D.	2-Nitroaniline	10	N.D.
4-Chloroaniline	5.0	N.D.	3-Nitroaniline	10	N.D.
2-Chloronaphthalene	5.0	N.D.	4-Nitroaniline	25	N.D.
4-Chloro-3-methylphenol	5.0	N.D.	Nitrobenzene	25	N.D.
2-Chlorophenol	13	N.D.	2-Nitrophenol	5.0	N.D.
4-Chlorophenyl phenyl ether	5.0	N.D.	4-Nitrophenol	25	N.D.
Chrysene	5.0	N.D.	N-Nitrosodiphenylamine	10	N.D.
Dibenz(a,h)anthracene	13	N.D.	N-Nitroso-di-N-propylamine	7.5	N.D.
Dibenzofuran	5.0	N.D.	Pentachlorophenol	25	N.D.
Di-N-butyl phthalate	13	N.D.	Phenanthrene	5.0	N.D.
1,3-Dichlorobenzene	5.0	N.D.	Phenol	7.5	N.D.
1,4-Dichlorobenzene	5.0	N.D.	Pyrene	7.5	N.D.
1,2-Dichlorobenzene	5.0	N.D.	1,2,4-Trichlorobenzene	5.0	N.D.
3,3-Dichlorobenzidine	25	N.D.	2,4,5-Trichlorophenol	7.5	N.D.
2,4-Dichlorophenol	5.0	N.D.	2,4,6-Trichlorophenol	7.5	N.D.
Diethyl phthalate	5.0	N.D.			
2,4-Dimethylphenol	13	N.D.			

Analytes reported as N.D. were not present above the stated limit of detection.

Surrogate Standard Recoveries (Accept. Limits):	
2-Fluorophenol (25-121)	66%
Phenol-d6 (24-113)	67%
2,4,6-Tribromophenol (19-122)	85%
Nitrobenzene-d5 (23-120)	66%
2-Fluorobiphenyl (30-115)	71%
Terphenyl-d14 (18-137)	80%

DEL MAR ANALYTICAL, IRVINE (ELAP #1197)

Gary Stelbe
Laboratory Director

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Harding Lawson Associates
3 Hutton Centre, Suite 300
Santa Ana, CA 92707
Attention: Andrew Keller

Client Project ID: 32026.48
Omega Chemical/Whittier
Sample Descript: Solid, 2K-3-8270
Lab Number: EH01705

Sampled: Aug 11, 1995
Received: Aug 11, 1995
Extracted: Aug 11, 1995
Analyzed: Aug 13, 1995
Reported: Aug 15, 1995

SEMI-VOLATILE ORGANICS by GC/MS (EPA 3550/8270)

Analyte	Detection Limit µg/wipe	Sample Result µg/wipe	Analyte	Detection Limit µg/wipe	Sample Result µg/wipe
Acenaphthene	5.0	N.D.	Dimethyl phthalate	5.0	N.D.
Acenaphthylene	5.0	N.D.	4,6-Dinitro-2-methylphenol	13	N.D.
Aniline	7.5	N.D.	2,4-Dinitrophenol	13	N.D.
Anthracene	5.0	N.D.	2,4-Dinitrotoluene	5.0	N.D.
Azobenzene	7.5	N.D.	2,6-Dinitrotoluene	5.0	N.D.
Benzidine	50	N.D.	Di-N-octyl phthalate	25	N.D.
Benzoic Acid	25	N.D.	Fluoranthene	5.0	N.D.
Benz(a)anthracene	5.0	N.D.	Fluorene	5.0	N.D.
Benzo(b)fluoranthene	10	N.D.	Hexachlorobenzene	5.0	N.D.
Benzo(k)fluoranthene	10	N.D.	Hexachlorobutadiene	5.0	N.D.
Benzo(g,h,i)perylene	7.5	N.D.	Hexachlorocyclopentadiene	25	N.D.
Benzo(a)pyrene	10	N.D.	Hexachloroethane	10	N.D.
Benzyl alcohol	10	N.D.	Indeno(1,2,3-cd)pyrene	10	N.D.
Bis(2-chloroethoxy)methane	5.0	N.D.	Isophorone	5.0	N.D.
Bis(2-chloroethyl)ether	5.0	N.D.	2-Methylnaphthalene	5.0	N.D.
Bis(2-chloroisopropyl)ether	5.0	N.D.	2-Methylphenol	7.5	N.D.
Bis(2-ethylhexyl)phthalate	13	N.D.	4-Methylphenol	7.5	N.D.
4-Bromophenyl phenyl ether	7.5	N.D.	Naphthalene	7.5	N.D.
Butyl benzyl phthalate	25	N.D.	2-Nitroaniline	10	N.D.
4-Chloroaniline	5.0	N.D.	3-Nitroaniline	10	N.D.
2-Chloronaphthalene	5.0	N.D.	4-Nitroaniline	25	N.D.
4-Chloro-3-methylphenol	5.0	N.D.	Nitrobenzene	25	N.D.
2-Chlorophenol	13	N.D.	2-Nitrophenol	5.0	N.D.
4-Chlorophenyl phenyl ether	5.0	N.D.	4-Nitrophenol	25	N.D.
Chrysene	5.0	N.D.	N-Nitrosodiphenylamine	10	N.D.
Dibenz(a,h)anthracene	13	N.D.	N-Nitroso-di-N-propylamine	7.5	N.D.
Dibenzofuran	5.0	N.D.	Pentachlorophenol	25	N.D.
Di-N-butyl phthalate	13	N.D.	Phenanthrene	5.0	N.D.
1,3-Dichlorobenzene	5.0	N.D.	Phenol	7.5	N.D.
1,4-Dichlorobenzene	5.0	N.D.	Pyrene	7.5	N.D.
1,2-Dichlorobenzene	5.0	N.D.	1,2,4-Trichlorobenzene	5.0	N.D.
3,3-Dichlorobenzidine	25	N.D.	2,4,5-Trichlorophenol	7.5	N.D.
2,4-Dichlorophenol	5.0	N.D.	2,4,6-Trichlorophenol	7.5	N.D.
Diethyl phthalate	5.0	N.D.			
2,4-Dimethylphenol	13	N.D.			

Analytes reported as N.D. were not present above the stated limit of detection.

Surrogate Standard Recoveries (Accept. Limits):	
2-Fluorophenol (25-121)	59%
Phenol-d6 (24-113)	61%
2,4,6-Tribromophenol (19-122)	75%
Nitrobenzene-d5 (23-120)	57%
2-Fluorobiphenyl (30-115)	63%
Terphenyl-d14 (18-137)	70%

DEL MAR ANALYTICAL, IRVINE (ELAP #1197)

Gary Steube
Laboratory Director

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2465 W. 12th St., Suite 1, Tempe, AZ 85281 (602) 968-8272 FAX (602) 968-1338

Harding Lawson Associates
3 Hutton Centre, Suite 300
Santa Ana, CA 92707
Attention: Andrew Keller

Client Project ID: 32026.48
Omega Chemical/Whittier
Sample Descript: Solid, 2K-4-8270
Lab Number: EH01707

Sampled: Aug 11, 199
Received: Aug 11, 1995
Extracted: Aug 11, 1995
Analyzed: Aug 13, 1995
Reported: Aug 15, 1995

SEMI-VOLATILE ORGANICS by GC/MS (EPA 3550/8270)

Analyte	Detection Limit µg/wipe	Sample Result µg/wipe	Analyte	Detection Limit µg/wipe	Sample Result µg/wipe
Acenaphthene	5.0	N.D.	Dimethyl phthalate	5.0	N.D.
Acenaphthylene	5.0	N.D.	4,6-Dinitro-2-methylphenol	13	N.D.
Aniline	7.5	N.D.	2,4-Dinitrophenol	13	N.D.
Anthracene	5.0	N.D.	2,4-Dinitrotoluene	5.0	N.D.
Azobenzene	7.5	N.D.	2,6-Dinitrotoluene	5.0	N.D.
Benzidine	50	N.D.	Di-N-octyl phthalate	25	N.D.
Benzoic Acid	25	N.D.	Fluoranthene	5.0	N.D.
Benz(a)anthracene	5.0	N.D.	Fluorene	5.0	N.D.
Benzo(b)fluoranthene	10	N.D.	Hexachlorobenzene	5.0	N.D.
Benzo(k)fluoranthene	10	N.D.	Hexachlorobutadiene	5.0	N.D.
Benzo(g,h,i)perylene	7.5	N.D.	Hexachlorocyclopentadiene	25	N.D.
Benzo(a)pyrene	10	N.D.	Hexachloroethane	10	N.D.
Benzyl alcohol	10	N.D.	Indeno(1,2,3-cd)pyrene	10	N.D.
Bis(2-chloroethoxy)methane	5.0	N.D.	Isophorone	5.0	N.D.
Bis(2-chloroethyl)ether	5.0	N.D.	2-Methylnaphthalene	5.0	N.D.
Bis(2-chloroisopropyl)ether	5.0	N.D.	2-Methylphenol	7.5	N.D.
Bis(2-ethylhexyl)phthalate	13	N.D.	4-Methylphenol	7.5	N.D.
4-Bromophenyl phenyl ether	7.5	N.D.	Naphthalene	7.5	N.D.
Butyl benzyl phthalate	25	N.D.	2-Nitroaniline	10	N.D.
4-Chloroaniline	5.0	N.D.	3-Nitroaniline	10	N.D.
2-Chloronaphthalene	5.0	N.D.	4-Nitroaniline	25	N.D.
4-Chloro-3-methylphenol	5.0	N.D.	Nitrobenzene	25	N.D.
2-Chlorophenol	13	N.D.	2-Nitrophenol	5.0	N.D.
4-Chlorophenyl phenyl ether	5.0	N.D.	4-Nitrophenol	25	N.D.
Chrysene	5.0	N.D.	N-Nitrosodiphenylamine	10	N.D.
Dibenz(a,h)anthracene	13	N.D.	N-Nitroso-di-N-propylamine	7.5	N.D.
Dibenzofuran	5.0	N.D.	Pentachlorophenol	25	N.D.
Di-N-butyl phthalate	13	N.D.	Phenanthrene	5.0	N.D.
1,3-Dichlorobenzene	5.0	N.D.	Phenol	7.5	N.D.
1,4-Dichlorobenzene	5.0	N.D.	Pyrene	7.5	N.D.
1,2-Dichlorobenzene	5.0	N.D.	1,2,4-Trichlorobenzene	5.0	N.D.
3,3-Dichlorobenzidine	25	N.D.	2,4,5-Trichlorophenol	7.5	N.D.
2,4-Dichlorophenol	5.0	N.D.	2,4,6-Trichlorophenol	7.5	N.D.
Diethyl phthalate	5.0	N.D.			
2,4-Dimethylphenol	13	N.D.			

Analytes reported as N.D. were not present above the stated limit of detection.

Surrogate Standard Recoveries (Accept. Limits):	
2-Fluorophenol (25-121)	66%
Phenol-d6 (24-113)	67%
2,4,6-Tribromophenol (19-122)	82%
Nitrobenzene-d5 (23-120)	67%
2-Fluorobiphenyl (30-115)	72%
Terphenyl-d14 (18-137)	77%

DEL MAR ANALYTICAL, IRVINE (ELAP #1197)

Gary Steube
Laboratory Director

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Harding Lawson Associates
3 Hutton Centre, Suite 300
Santa Ana, CA 92707
Attention: Andrew Keller

Client Project ID: 32026.48
Omega Chemical/Whittier
Sample Descript: Solid, Sheila-8270
Lab Number: EH01709

Sampled: Aug 11, 1995
Received: Aug 11, 1995
Extracted: Aug 11, 1995
Analyzed: Aug 13, 1995
Reported: Aug 15, 1995

SEMI-VOLATILE ORGANICS by GC/MS (EPA 3550/8270)

Analyte	Detection Limit µg/wipe	Sample Result µg/wipe	Analyte	Detection Limit µg/wipe	Sample Result µg/wipe
Acenaphthene	5.0	N.D.	Dimethyl phthalate	5.0	N.D.
Acenaphthylene	5.0	N.D.	4,6-Dinitro-2-methylphenol	13	N.D.
Aniline	7.5	N.D.	2,4-Dinitrophenol	13	N.D.
Anthracene	5.0	N.D.	2,4-Dinitrotoluene	5.0	N.D.
Azobenzene	7.5	N.D.	2,6-Dinitrotoluene	5.0	N.D.
Benzidine	50	N.D.	Di-N-octyl phthalate	25	N.D.
Benzoic Acid	25	N.D.	Fluoranthene	5.0	N.D.
Benz(a)anthracene	5.0	N.D.	Fluorene	5.0	N.D.
Benzo(b)fluoranthene	10	N.D.	Hexachlorobenzene	5.0	N.D.
Benzo(k)fluoranthene	10	N.D.	Hexachlorobutadiene	5.0	N.D.
Benzo(g,h,i)perylene	7.5	N.D.	Hexachlorocyclopentadiene	25	N.D.
Benzo(a)pyrene	10	N.D.	Hexachloroethane	10	N.D.
Benzyl alcohol	10	N.D.	Indeno(1,2,3-cd)pyrene	10	N.D.
Bis(2-chloroethoxy)methane	5.0	N.D.	Isophorone	5.0	N.D.
Bis(2-chloroethyl)ether	5.0	N.D.	2-Methylnaphthalene	5.0	N.D.
Bis(2-chloroisopropyl)ether	5.0	N.D.	2-Methylphenol	7.5	N.D.
Bis(2-ethylhexyl)phthalate	13	N.D.	4-Methylphenol	7.5	N.D.
4-Bromophenyl phenyl ether	7.5	N.D.	Naphthalene	7.5	N.D.
Butyl benzyl phthalate	25	N.D.	2-Nitroaniline	10	N.D.
4-Chloroaniline	5.0	N.D.	3-Nitroaniline	10	N.D.
2-Chloronaphthalene	5.0	N.D.	4-Nitroaniline	25	N.D.
4-Chloro-3-methylphenol	5.0	N.D.	Nitrobenzene	25	N.D.
2-Chlorophenol	13	N.D.	2-Nitrophenol	5.0	N.D.
4-Chlorophenyl phenyl ether	5.0	N.D.	4-Nitrophenol	25	N.D.
Chrysene	5.0	N.D.	N-Nitrosodiphenylamine	10	N.D.
Dibenz(a,h)anthracene	13	N.D.	N-Nitroso-di-N-propylamine	7.5	N.D.
Dibenzofuran	5.0	N.D.	Pentachlorophenol	25	N.D.
Di-N-butyl phthalate	13	N.D.	Phenanthrene	5.0	N.D.
1,3-Dichlorobenzene	5.0	N.D.	Phenol	7.5	N.D.
1,4-Dichlorobenzene	5.0	N.D.	Pyrene	7.5	N.D.
1,2-Dichlorobenzene	5.0	N.D.	1,2,4-Trichlorobenzene	5.0	N.D.
3,3-Dichlorobenzidine	25	N.D.	2,4,5-Trichlorophenol	7.5	N.D.
2,4-Dichlorophenol	5.0	N.D.	2,4,6-Trichlorophenol	7.5	N.D.
Diethyl phthalate	5.0	N.D.			
2,4-Dimethylphenol	13	N.D.			

Analytes reported as N.D. were not present above the stated limit of detection.

Surrogate Standard Recoveries (Accept. Limits):	
2-Fluorophenol (25-121)	60%
Phenol-d6 (24-113)	60%
2,4,6-Tribromophenol (19-122)	76%
Nitrobenzene-d5 (23-120)	57%
2-Fluorobiphenyl (30-115)	68%
Terphenyl-d14 (18-137)	71%

DEL MAR ANALYTICAL, IRVINE (ELAP #1197)

Gary Steube
Laboratory Director

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Harding Lawson Associates
3 Hutton Centre, Suite 300
Santa Ana, CA 92707
Attention: Andrew Keller

Client Project ID: 32026.48
Omega Chemical/Whittier
Sample Descript: Solid, Eastmix-CAM
Lab Number: EH01694

Sampled: Aug 11, 19
Received: Aug 11, 1995
Extracted: Aug 14, 1995
Analyzed: Aug 14, 1995
Reported: Aug 15, 1995

CALIFORNIA CODE OF REGULATIONS, TITLE 22 METALS

Analyte	EPA Method	STLC Max. Limit mg/L (ppm)	TTLC Max. Limit mg/Kg (ppm)	Detection Limit µg/wipe		TTLC Sample Result µg/wipe
Antimony	6010	15	500	20	.....	N.D.
Arsenic	6010	5.0	500	5.0	.....	N.D.
Barium	6010	100	10000	2.0	.....	11
Beryllium	6010	0.75	75	0.50	.....	N.D.
Cadmium	6010	1.0	100	0.50	.....	N.D.
Chromium, VI	7196	5.0	500	1.0	.....	N.D.
Chromium, total	6010	560	2500	2.0	.....	190
Cobalt	6010	80	8000	2.0	.....	N.D.
Copper	6010	25	2500	2.0	.....	13
Lead	6010	5.0	1000	5.0	.....	27
Mercury	7471	0.20	20	0.10	.....	0.88
Molybdenum	6010	350	3500	2.0	.....	N.D.
Nickel	6010	20	2000	2.0	.....	32
Selenium	6010	1.0	100	5.0	.....	N.D.
Silver	6010	5.0	500	2.0	.....	N.D.
Thallium	6010	7.0	700	20	.....	N.D.
Vanadium	6010	24	2400	2.0	.....	N.D.
Zinc	6010	250	5000	2.0	.....	62

Analytes reported as N.D. were not present above the stated limit of detection.

DEL MAR ANALYTICAL, IRVINE (ELAP #1197)

Gary Steube
Laboratory Director

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Harding Lawson Associates
3 Hutton Centre, Suite 300
Santa Ana, CA 92707
Attention: Andrew Keller

Client Project ID: 32026.48
Omega Chemical/Whittier
Sample Descript: Solid, Westmix-CAM
Lab Number: EH01696

Sampled: Aug 11, 1995
Received: Aug 11, 1995
Extracted: Aug 14, 1995
Analyzed: Aug 14, 1995
Reported: Aug 15, 1995

CALIFORNIA CODE OF REGULATIONS, TITLE 22 METALS

Analyte	EPA Method	STLC Max. Limit mg/L (ppm)	TTLC Max. Limit mg/Kg (ppm)	Detection Limit µg/wipe		TTLC Sample Result µg/wipe
Antimony	6010	15	500	20	.....	N.D.
Arsenic	6010	5.0	500	5.0	.....	N.D.
Barium	6010	100	10000	2.0	.....	74
Beryllium	6010	0.75	75	0.50	.....	N.D.
Cadmium	6010	1.0	100	0.50	.....	N.D.
Chromium, VI	7196	5.0	500	1.0	.....	N.D.
Chromium, total	6010	560	2500	2.0	.....	290
Cobalt	6010	80	8000	2.0	.....	N.D.
Copper	6010	25	2500	2.0	.....	6.0
Lead	6010	5.0	1000	5.0	.....	23
Mercury	7471	0.20	20	0.10	.....	0.49
Molybdenum	6010	350	3500	2.0	.....	41
Nickel	6010	20	2000	2.0	.....	29
Selenium	6010	1.0	100	5.0	.....	N.D.
Silver	6010	5.0	500	2.0	.....	N.D.
Thallium	6010	7.0	700	20	.....	N.D.
Vanadium	6010	24	2400	2.0	.....	N.D.
Zinc	6010	250	5000	2.0	.....	17

Analytes reported as N.D. were not present above the stated limit of detection.

DEL MAR ANALYTICAL, IRVINE (ELAP #1197)

Gary Steube
Laboratory Director

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Harding Lawson Associates
3 Hutton Centre, Suite 300
Santa Ana, CA 92707
Attention: Andrew Keller

Client Project ID: 32026.48
Omega Chemical/Whittier
Sample Descript: Solid, Tank 7-CAM
Lab Number: EH01698

Sampled: Aug 11, 1995
Received: Aug 11, 1995
Extracted: Aug 14, 1995
Analyzed: Aug 14, 1995
Reported: Aug 15, 1995

CALIFORNIA CODE OF REGULATIONS, TITLE 22 METALS

Analyte	EPA Method	STLC Max. Limit mg/L (ppm)	TTLC Max. Limit mg/Kg (ppm)	Detection Limit µg/wipe		TTLC Sample Result µg/wipe
Antimony	6010	15	500	20		N.D.
Arsenic	6010	5.0	500	5.0		N.D.
Barium	6010	100	10000	2.0		N.D.
Beryllium	6010	0.75	75	0.50		N.D.
Cadmium	6010	1.0	100	0.50		N.D.
Chromium, VI	7196	5.0	500	1.0		N.D.
Chromium, total	6010	560	2500	2.0		130
Cobalt	6010	80	8000	2.0		N.D.
Copper	6010	25	2500	2.0		8.9
Lead	6010	5.0	1000	5.0		N.D.
Mercury	7471	0.20	20	0.10		N.D.
Molybdenum	6010	350	3500	2.0		N.D.
Nickel	6010	20	2000	2.0		50
Selenium	6010	1.0	100	5.0		N.D.
Silver	6010	5.0	500	2.0		N.D.
Thallium	6010	7.0	700	20		N.D.
Vanadium	6010	24	2400	2.0		N.D.
Zinc	6010	250	5000	2.0		9.4

Analytes reported as N.D. were not present above the stated limit of detection.

DEL MAR ANALYTICAL, IRVINE (ELAP #1197)

Gary Steube
Laboratory Director

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Harding Lawson Associates
3 Hutton Centre, Suite 300
Santa Ana, CA 92707
Attention: Andrew Keller

Client Project ID: 32026.48
Omega Chemical/Whittier
Sample Descript: Solid, Tank 8-CAM
Lab Number: EH01700

Sampled: Aug 11, 1995
Received: Aug 11, 1995
Extracted: Aug 14, 1995
Analyzed: Aug 14, 1995
Reported: Aug 15, 1995

CALIFORNIA CODE OF REGULATIONS, TITLE 22 METALS

Analyte	EPA Method	STLC Max. Limit mg/L (ppm)	TTLC Max. Limit mg/Kg (ppm)	Detection Limit µg/wipe		TTLC Sample Result µg/wipe
Antimony	6010	15	500	20	.....	N.D.
Arsenic	6010	5.0	500	5.0	.....	N.D.
Barium	6010	100	10000	2.0	.....	N.D.
Beryllium	6010	0.75	75	0.50	.....	N.D.
Cadmium	6010	1.0	100	0.50	.....	N.D.
Chromium, VI	7196	5.0	500	1.0	.....	N.D.
Chromium, total	6010	560	2500	2.0	.....	220
Cobalt	6010	80	8000	2.0	.....	N.D.
Copper	6010	25	2500	2.0	.....	N.D.
Lead	6010	5.0	1000	5.0	.....	N.D.
Mercury	7471	0.20	20	0.10	.....	0.14
Molybdenum	6010	350	3500	2.0	.....	N.D.
Nickel	6010	20	2000	2.0	.....	20
Selenium	6010	1.0	100	5.0	.....	N.D.
Silver	6010	5.0	500	2.0	.....	N.D.
Thallium	6010	7.0	700	20	.....	N.D.
Vanadium	6010	24	2400	2.0	.....	N.D.
Zinc	6010	250	5000	2.0	.....	13

Analytes reported as N.D. were not present above the stated limit of detection.

DEL MAR ANALYTICAL, IRVINE (ELAP #1197)

Gary Steube
Laboratory Director

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Harding Lawson Associates
3 Hutton Centre, Suite 300
Santa Ana, CA 92707
Attention: Andrew Keller

Client Project ID: 32026.48
Omega Chemical/Whittier
Sample Descript: Solid, Tank 9-CAM
Lab Number: EH01702

Sampled: Aug 11, 1995
Received: Aug 11, 1995
Extracted: Aug 14, 1995
Analyzed: Aug 14, 1995
Reported: Aug 15, 1995

CALIFORNIA CODE OF REGULATIONS, TITLE 22 METALS

Analyte	EPA Method	STLC Max. Limit mg/L (ppm)	TTLC Max. Limit mg/Kg (ppm)	Detection Limit µg/wipe		TTLC Sample Result µg/wipe
Antimony	6010	15	500	20		N.D.
Arsenic	6010	5.0	500	5.0		N.D.
Barium	6010	100	10000	2.0		13
Beryllium	6010	0.75	75	0.50		N.D.
Cadmium	6010	1.0	100	0.50		N.D.
Chromium, VI	7196	5.0	500	1.0		N.D.
Chromium, total	6010	560	2500	2.0		9,000
Cobalt	6010	80	8000	2.0		N.D.
Copper	6010	25	2500	2.0		2,400
Lead	6010	5.0	1000	5.0		110
Mercury	7471	0.20	20	0.10		0.17
Molybdenum	6010	350	3500	2.0		50
Nickel	6010	20	2000	2.0		1,300
Selenium	6010	1.0	100	5.0		N.D.
Silver	6010	5.0	500	2.0		N.D.
Thallium	6010	7.0	700	20		N.D.
Vanadium	6010	24	2400	2.0		23
Zinc	6010	250	5000	2.0		600

Analytes reported as N.D. were not present above the stated limit of detection.

DEL MAR ANALYTICAL, IRVINE (ELAP #1197)

Gary Steube
Laboratory Director

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Harding Lawson Associates
3 Hutton Centre, Suite 300
Santa Ana, CA 92707
Attention: Andrew Keller

Client Project ID: 32026.48
Omega Chemical/Whittier
Sample Descript: Solid, 2K-2-CAM
Lab Number: EH01704

Sampled: Aug 11, 1995
Received: Aug 11, 1995
Extracted: Aug 14, 1995
Analyzed: Aug 14, 1995
Reported: Aug 15, 1995

CALIFORNIA CODE OF REGULATIONS, TITLE 22 METALS

Analyte	EPA Method	STLC Max. Limit mg/L (ppm)	TTLC Max. Limit mg/Kg (ppm)	Detection Limit µg/wipe		TTLC Sample Result µg/wipe
Antimony	6010	15	500	20	.....	N.D.
Arsenic	6010	5.0	500	5.0	.....	N.D.
Barium	6010	100	10000	2.0	.....	110
Beryllium	6010	0.75	75	0.50	.....	N.D.
Cadmium	6010	1.0	100	0.50	.....	N.D.
Chromium, VI	7196	5.0	500	1.0	.....	N.D.
Chromium, total	6010	560	2500	2.0	.....	1,000
Cobalt	6010	80	8000	2.0	.....	14
Copper	6010	25	2500	2.0	.....	1,200
Lead	6010	5.0	1000	5.0	.....	52
Mercury	7471	0.20	20	0.10	.....	N.D.
Molybdenum	6010	350	3500	2.0	.....	N.D.
Nickel	6010	20	2000	2.0	.....	410
Selenium	6010	1.0	100	5.0	.....	7.4
Silver	6010	5.0	500	2.0	.....	N.D.
Thallium	6010	7.0	700	20	.....	N.D.
Vanadium	6010	24	2400	2.0	.....	N.D.
Zinc	6010	250	5000	2.0	.....	150

Analytes reported as N.D. were not present above the stated limit of detection.

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Gary Steube
Laboratory Director

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Harding Lawson Associates
3 Hutton Centre, Suite 300
Santa Ana, CA 92707
Attention: Andrew Keller

Client Project ID: 32026.48
Omega Chemical/Whittier
Sample Descript: Solid, 2K-3-CAM
Lab Number: EH01706

Sampled: Aug 11, 1995
Received: Aug 11, 1995
Extracted: Aug 14, 1995
Analyzed: Aug 14, 1995
Reported: Aug 15, 1995

CALIFORNIA CODE OF REGULATIONS, TITLE 22 METALS

Analyte	EPA Method	STLC Max. Limit mg/L (ppm)	TTLC Max. Limit mg/Kg (ppm)	Detection Limit µg/wipe		TTLC Sample Result µg/wipe
Antimony	6010	15	500	20	.....	49
Arsenic	6010	5.0	500	5.0	.....	N.D.
Barium	6010	100	10000	2.0	.....	7.1
Beryllium	6010	0.75	75	0.50	.....	N.D.
Cadmium	6010	1.0	100	0.50	.....	N.D.
Chromium, VI	7196	5.0	500	1.0	.....	N.D.
Chromium, total	6010	560	2500	2.0	.....	600
Cobalt	6010	80	8000	2.0	.....	6.4
Copper	6010	25	2500	2.0	.....	94
Lead	6010	5.0	1000	5.0	.....	37
Mercury	7471	0.20	20	0.10	.....	N.D.
Molybdenum	6010	350	3500	2.0	.....	12
Nickel	6010	20	2000	2.0	.....	210
Selenium	6010	1.0	100	5.0	.....	N.D.
Silver	6010	5.0	500	2.0	.....	N.D.
Thallium	6010	7.0	700	20	.....	N.D.
Vanadium	6010	24	2400	2.0	.....	N.D.
Zinc	6010	250	5000	2.0	.....	60

Analytes reported as N.D. were not present above the stated limit of detection.

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Harding Lawson Associates
3 Hutton Centre, Suite 300
Santa Ana, CA 92707
Attention: Andrew Keller

Client Project ID: 32026.48
Omega Chemical/Whittier
Sample Descript: Solid, 2K-4-CAM
Lab Number: EH01708

Sampled: Aug 11, 1995
Received: Aug 11, 1995
Extracted: Aug 14, 1995
Analyzed: Aug 14, 1995
Reported: Aug 15, 1995

CALIFORNIA CODE OF REGULATIONS, TITLE 22 METALS

Analyte	EPA Method	STLC Max. Limit mg/L (ppm)	TTLC Max. Limit mg/Kg (ppm)	Detection Limit µg/wipe		TTLC Sample Result µg/wipe
Antimony	6010	15	500	20		N.D.
Arsenic	6010	5.0	500	5.0		N.D.
Barium	6010	100	10000	2.0		41
Beryllium	6010	0.75	75	0.50		N.D.
Cadmium	6010	1.0	100	0.50		N.D.
Chromium, VI	7196	5.0	500	1.0		N.D.
Chromium, total	6010	560	2500	2.0		60
Cobalt	6010	80	8000	2.0		N.D.
Copper	6010	25	2500	2.0		51
Lead	6010	5.0	1000	5.0		7.9
Mercury	7471	0.20	20	0.10		N.D.
Molybdenum	6010	350	3500	2.0		N.D.
Nickel	6010	20	2000	2.0		34
Selenium	6010	1.0	100	5.0		N.D.
Silver	6010	5.0	500	2.0		N.D.
Thallium	6010	7.0	700	20		N.D.
Vanadium	6010	24	2400	2.0		N.D.
Zinc	6010	250	5000	2.0		37

Analytes reported as N.D. were not present above the stated limit of detection.

DEL MAR ANALYTICAL, IRVINE (ELAP #1197)

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Harding Lawson Associates
3 Hutton Centre, Suite 300
Santa Ana, CA 92707
Attention: Andrew Keller

Client Project ID: 32026.48
Omega Chemical/Whittier
Sample Descript: Solid, Sheila-CAM
Lab Number: EH01710

Sampled: Aug 11, 1995
Received: Aug 11, 1995
Extracted: Aug 14, 1995
Analyzed: Aug 14, 1995
Reported: Aug 15, 1995

CALIFORNIA CODE OF REGULATIONS, TITLE 22 METALS

Analyte	EPA Method	STLC Max. Limit mg/L (ppm)	TTLC Max. Limit mg/Kg (ppm)	Detection Limit µg/wipe		TTLC Sample Result µg/wipe
Antimony	6010	15	500	20		N.D.
Arsenic	6010	5.0	500	5.0		N.D.
Barium	6010	100	10000	2.0		58
Beryllium	6010	0.75	75	0.50		N.D.
Cadmium	6010	1.0	100	0.50		N.D.
Chromium, VI	7196	5.0	500	1.0		N.D.
Chromium, total	6010	560	2500	2.0		500
Cobalt	6010	80	8000	2.0		N.D.
Copper	6010	25	2500	2.0		27
Lead	6010	5.0	1000	5.0		22
Mercury	7471	0.20	20	0.10		0.26
Molybdenum	6010	350	3500	2.0		13
Nickel	6010	20	2000	2.0		83
Selenium	6010	1.0	100	5.0		N.D.
Silver	6010	5.0	500	2.0		N.D.
Thallium	6010	7.0	700	20		N.D.
Vanadium	6010	24	2400	2.0		N.D.
Zinc	6010	250	5000	2.0		18

Analytes reported as N.D. were not present above the stated limit of detection.

DEL MAR ANALYTICAL, IRVINE (ELAP #1197)

Gary Steube
Laboratory Director

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Harding Lawson Associates
3 Hutton Centre, Suite 300
Santa Ana, CA 92707
Attention: Andrew Keller

Method Blank

Extracted: Aug 11, 1995
Analyzed: Aug 12, 1995
Reported: Aug 15, 1995
Matrix Solid

SEMI-VOLATILE ORGANICS by GC/MS (EPA 3550/8270)

Analyte	Detection Limit µg/wipe	Sample Result µg/wipe	Analyte	Detection Limit µg/wipe	Sample Result µg/wipe
Acenaphthene	5.0	N.D.	Dimethyl phthalate	5.0	N.D.
Acenaphthylene	5.0	N.D.	4,6-Dinitro-2-methylphenol	13	N.D.
Aniline	7.5	N.D.	2,4-Dinitrophenol	13	N.D.
Anthracene	5.0	N.D.	2,4-Dinitrotoluene	5.0	N.D.
Azobenzene	7.5	N.D.	2,6-Dinitrotoluene	5.0	N.D.
Benzidine	50	N.D.	Di-N-octyl phthalate	25	N.D.
Benzoic Acid	25	N.D.	Fluoranthene	5.0	N.D.
Benz(a)anthracene	5.0	N.D.	Fluorene	5.0	N.D.
Benzo(b)fluoranthene	10	N.D.	Hexachlorobenzene	5.0	N.D.
Benzo(k)fluoranthene	10	N.D.	Hexachlorobutadiene	5.0	N.D.
Benzo(g,h,i)perylene	7.5	N.D.	Hexachlorocyclopentadiene	25	N.D.
Benzo(a)pyrene	10	N.D.	Hexachloroethane	10	N.D.
Benzyl alcohol	10	N.D.	Indeno(1,2,3-cd)pyrene	10	N.D.
Bis(2-chloroethoxy)methane	5.0	N.D.	Isophorone	5.0	N.D.
Bis(2-chloroethyl)ether	5.0	N.D.	2-Methylnaphthalene	5.0	N.D.
Bis(2-chloroisopropyl)ether	5.0	N.D.	2-Methylphenol	7.5	N.D.
Bis(2-ethylhexyl)phthalate	13	N.D.	4-Methylphenol	7.5	N.D.
4-Bromophenyl phenyl ether	7.5	N.D.	Naphthalene	7.5	N.D.
Butyl benzyl phthalate	25	N.D.	2-Nitroaniline	10	N.D.
4-Chloroaniline	5.0	N.D.	3-Nitroaniline	10	N.D.
2-Chloronaphthalene	5.0	N.D.	4-Nitroaniline	25	N.D.
4-Chloro-3-methylphenol	5.0	N.D.	Nitrobenzene	25	N.D.
2-Chlorophenol	13	N.D.	2-Nitrophenol	5.0	N.D.
4-Chlorophenyl phenyl ether	5.0	N.D.	4-Nitrophenol	25	N.D.
Chrysene	5.0	N.D.	N-Nitrosodiphenylamine	10	N.D.
Dibenz(a,h)anthracene	13	N.D.	N-Nitroso-di-N-propylamine	7.5	N.D.
Dibenzofuran	5.0	N.D.	Pentachlorophenol	25	N.D.
Di-N-butyl phthalate	13	N.D.	Phenanthrene	5.0	N.D.
1,3-Dichlorobenzene	5.0	N.D.	Phenol	7.5	N.D.
1,4-Dichlorobenzene	5.0	N.D.	Pyrene	7.5	N.D.
1,2-Dichlorobenzene	5.0	N.D.	1,2,4-Trichlorobenzene	5.0	N.D.
3,3-Dichlorobenzidine	25	N.D.	2,4,5-Trichlorophenol	7.5	N.D.
2,4-Dichlorophenol	5.0	N.D.	2,4,6-Trichlorophenol	7.5	N.D.
Diethyl phthalate	5.0	N.D.			
2,4-Dimethylphenol	13	N.D.			

Analytes reported as N.D. were not present above the stated limit of detection.

Surrogate Standard Recoveries (Accept. Limits):	
2-Fluorophenol (25-121)	58%
Phenol-d6 (24-113)	55%
2,4,6-Tribromophenol (19-122)	67%
Nitrobenzene-d5 (23-120)	64%
2-Fluorobiphenyl (30-115)	64%
Terphenyl-d14 (18-137)	77%

DEL MAR ANALYTICAL, IRVINE (ELAP #1197)

Gary Steube
Laboratory Director

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Harding Lawson Associates
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Santa Ana, CA 92707
Attention: Andrew Keller

Method Blank

Extracted: Aug 11, 19
Analyzed: Aug 13, 1995
Reported: Aug 15, 1995
Matrix Solid

SEMI-VOLATILE ORGANICS by GC/MS (EPA 3550/8270)

Analyte	Detection Limit µg/wipe	Sample Result µg/wipe	Analyte	Detection Limit µg/wipe	Sample Result µg/wipe
Acenaphthene	5.0	N.D.	Dimethyl phthalate	5.0	N.D.
Acenaphthylene	5.0	N.D.	4,6-Dinitro-2-methylphenol	13	N.D.
Aniline	7.5	N.D.	2,4-Dinitrophenol	13	N.D.
Anthracene	5.0	N.D.	2,4-Dinitrotoluene	5.0	N.D.
Azobenzene	7.5	N.D.	2,6-Dinitrotoluene	5.0	N.D.
Benzidine	50	N.D.	Di-N-octyl phthalate	25	N.D.
Benzoic Acid	25	N.D.	Fluoranthene	5.0	N.D.
Benz(a)anthracene	5.0	N.D.	Fluorene	5.0	N.D.
Benzo(b)fluoranthene	10	N.D.	Hexachlorobenzene	5.0	N.D.
Benzo(k)fluoranthene	10	N.D.	Hexachlorobutadiene	5.0	N.D.
Benzo(g,h,i)perylene	7.5	N.D.	Hexachlorocyclopentadiene	25	N.D.
Benzo(a)pyrene	10	N.D.	Hexachloroethane	10	N.D.
Benzyl alcohol	10	N.D.	Indeno(1,2,3-cd)pyrene	10	N.D.
Bis(2-chloroethoxy)methane	5.0	N.D.	Isophorone	5.0	N.D.
Bis(2-chloroethyl)ether	5.0	N.D.	2-Methylnaphthalene	5.0	N.D.
Bis(2-chloroisopropyl)ether	5.0	N.D.	2-Methylphenol	7.5	N.D.
Bis(2-ethylhexyl)phthalate	13	N.D.	4-Methylphenol	7.5	N.D.
4-Bromophenyl phenyl ether	7.5	N.D.	Naphthalene	7.5	N.D.
Butyl benzyl phthalate	25	N.D.	2-Nitroaniline	10	N.D.
4-Chloroaniline	5.0	N.D.	3-Nitroaniline	10	N.D.
2-Chloronaphthalene	5.0	N.D.	4-Nitroaniline	25	N.D.
4-Chloro-3-methylphenol	5.0	N.D.	Nitrobenzene	25	N.D.
2-Chlorophenol	13	N.D.	2-Nitrophenol	5.0	N.D.
4-Chlorophenyl phenyl ether	5.0	N.D.	4-Nitrophenol	25	N.D.
Chrysene	5.0	N.D.	N-Nitrosodiphenylamine	10	N.D.
Dibenz(a,h)anthracene	13	N.D.	N-Nitroso-di-N-propylamine	7.5	N.D.
Dibenzofuran	5.0	N.D.	Pentachlorophenol	25	N.D.
Di-N-butyl phthalate	13	N.D.	Phenanthrene	5.0	N.D.
1,3-Dichlorobenzene	5.0	N.D.	Phenol	7.5	N.D.
1,4-Dichlorobenzene	5.0	N.D.	Pyrene	7.5	N.D.
1,2-Dichlorobenzene	5.0	N.D.	1,2,4-Trichlorobenzene	5.0	N.D.
3,3-Dichlorobenzidine	25	N.D.	2,4,5-Trichlorophenol	7.5	N.D.
2,4-Dichlorophenol	5.0	N.D.	2,4,6-Trichlorophenol	7.5	N.D.
Diethyl phthalate	5.0	N.D.			
2,4-Dimethylphenol	13	N.D.			

Analytes reported as N.D. were not present above the stated limit of detection.

Surrogate Standard Recoveries (Accept. Limits):	
2-Fluorophenol (25-121)	61%
Phenol-d6 (24-113)	60%
2,4,6-Tribromophenol (19-122)	70%
Nitrobenzene-d5 (23-120)	59%
2-Fluorobiphenyl (30-115)	64%
Terphenyl-d14 (18-137)	77%

DEL MAR ANALYTICAL, IRVINE (ELAP #1197)

Gary Steube
Laboratory Director

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2465 W. 12th St., Suite 1, Tempe, AZ 85281 (602) 968-8272 FAX (602) 968-1338

Harding Lawson Associates
3 Hutton Centre, Suite 300
Santa Ana, CA 92707
Attention: Andrew Keller

Method Blank

Extracted: Aug 14, 1995
Analyzed: Aug 14, 1995
Reported: Aug 15, 1995
Matrix Solid

CALIFORNIA CODE OF REGULATIONS, TITLE 22 METALS

Analyte	EPA Method	STLC Max. Limit mg/L (ppm)	TTLC Max. Limit mg/Kg (ppm)	Detection Limit µg/wipe		TTLC Sample Result µg/wipe
Antimony	6010	15	500	20	.....	N.D.
Arsenic	6010	5.0	500	5.0	.....	N.D.
Barium	6010	100	10000	2.0	.....	N.D.
Beryllium	6010	0.75	75	0.50	.....	N.D.
Cadmium	6010	1.0	100	0.50	.....	N.D.
Chromium, VI	7196	5.0	500	1.0	.....	N.D.
Chromium, total	6010	560	2500	2.0	.....	N.D.
Cobalt	6010	80	8000	2.0	.....	N.D.
Copper	6010	25	2500	2.0	.....	N.D.
Lead	6010	5.0	1000	5.0	.....	N.D.
Mercury	7471	0.20	20	0.10	.....	N.D.
Molybdenum	6010	350	3500	2.0	.....	N.D.
Nickel	6010	20	2000	2.0	.....	N.D.
Selenium	6010	1.0	100	5.0	.....	N.D.
Silver	6010	5.0	500	2.0	.....	N.D.
Thallium	6010	7.0	700	20	.....	N.D.
Vanadium	6010	24	2400	2.0	.....	N.D.
Zinc	6010	250	5000	2.0	.....	N.D.

Analytes reported as N.D. were not present above the stated limit of detection.

DEL MAR ANALYTICAL, IRVINE (ELAP #1197)

Gary Steube
Laboratory Director

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MS/MSD DATA REPORT

METHOD: **Metals**
Instrument: ICP
Matrix: SOIL

Date: 8/14/95

Sample #: EH01696

Analyte	R1	SP	MS	MSD	PR1	PR2	RPD	MEAN PR
	ppb	ppb	ppb	ppb	%	%	%	%
Antimony	0	1000	984	1050	98%	105%	6.5%	102%
Arsenic	0	1000	936	982	94%	98%	4.8%	96%
Barium	0	1000	1013	1042	101%	104%	2.8%	103%
Beryllium	0	1000	1032	1056	103%	106%	2.3%	104%
Cadmium	0	1000	1008	1000	101%	100%	0.8%	100%
Chromium	0	1000	989	1036	99%	104%	4.6%	101%
Cobalt	0	1000	1019	1025	102%	103%	0.6%	102%
Copper	0	1000	1033	1078	103%	108%	4.3%	106%
Lead	0	1000	1001	1022	100%	102%	2.1%	101%
Molybdenum	0	1000	1078	1059	108%	106%	1.8%	107%
Nickel	65	1000	1020	997	96%	93%	2.3%	94%
Selenium	0	1000	1010	1036	101%	104%	2.5%	102%
Silver	0	1000	991	998	99%	100%	0.7%	99%
Thallium	0	1000	1104	1105	110%	111%	0.1%	110%
Vanadium	0	1000	962	1008	96%	101%	4.7%	99%
Zinc	0	1000	938	989	94%	99%	5.3%	96%

R1..... ..... Result of Sample Analysis
Sp..... ..... Spike Concentration Added to Sample
MS..... ..... Matrix Spike Result
MSD..... ..... Matrix Spike Duplicate Result
PR1..... ..... Percent Recovery of MS; ((MS-R1) / SP) X 100
PR2..... ..... Percent Recovery of MSD; ((MSD-R1) / SP) X 100
RPD..... ..... Relative Percent Difference; ((MS-MSD)/(MS+MSD)/2)) X 100

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MS/MSD DATA REPORT

EPA METHOD: **7471**
Matrix: Soil

DATE: 8/14/95

SAMPLE #: EH00240

Analyte	R1	Sp	MS	MSD	PR1	PR2	RPD	MEAN PR
	ppb	ppb	ppb	ppb	%	%	%	%
Mercury	3.0	8.0	13	13	125%	125%	0.0%	125%

Definition of Terms:

R1..... Result of Sample Analysis

Sp..... Spike Concentration Added to Sample

MS..... Matrix Spike Result

MSD..... Matrix Spike Duplicate Result

PR1..... Percent Recovery of MS; ((MS-R1) / SP) X 100

PR2..... Percent Recovery of MSD; ((MSD-R1) / SP) X 100

RPD..... Relative Percent Difference; ((MS-MSD)/(MS+MSD)/2)) X 100

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MS/MSD DATA REPORT

EPA METHOD: **3060/7196**
Matrix: Soil

DATE: 8/14/95

SAMPLE #: Blank

Analyte	R1	Sp	MS	MSD	PR1	PR2	RPD	MEAN PR
	ppb	ppb	ppb	ppb	%	%	%	%
Chromium (VI)	0	200	205	205	103%	103%	0.0%	103%

Definition of Terms:

R1..... Result of Sample Analysis

Sp..... Spike Concentration Added to Sample

MS..... Matrix Spike Result

MSD..... Matrix Spike Duplicate Result

PR1..... Percent Recovery of MS; ((MS-R1) / SP) X 100

PR2..... Percent Recovery of MSD; ((MSD-R1) / SP) X 100

RPD..... Relative Percent Difference; ((MS-MSD)/(MS+MSD)/2)) X 100

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2465 W. 12th St., Suite 1, Tempe, AZ 85281 (602) 968-8272 FAX (602) 968-1338

MS/MSD DATA REPORT

EPA METHOD: **8270**
Matrix: Soil

DATE: 8/14/95

SAMPLE #: Blank

Analyte	R1	Sp	MS	MSD	PR1	PR2	RPD	MEAN PR
	ppb	ppb	ppb	ppb	%	%	%	%
1,4-Dichlorobenzene	0	50	39	33	78%	66%	16.7%	72%
n-nitroso-di-n-propylamine	0	50	44	36	88%	72%	20.0%	80%
1,2,4-Trichlorobenzene	0	50	43	39	86%	78%	9.8%	82%
Acenaphthene	0	50	48	41	96%	82%	15.7%	89%
2,4-Dinitrotoluene	0	50	41	33	82%	66%	21.6%	74%
Pyrene	0	50	48	45	96%	90%	6.5%	93%
4-Chloro-3-methylphenol	0	100	91	72	91%	72%	23.3%	82%
2-Chlorophenol	0	100	84	70	84%	70%	18.2%	77%
4-Nitrophenol	0	100	83	67	83%	67%	21.3%	75%
Pentachlorophenol	0	100	89	77	89%	77%	14.5%	83%
Phenol	0	100	81	69	81%	69%	16.0%	75%

Definition of Terms:

R1..... **Result of Sample Analysis**

Sp..... **Spike Concentration Added to Sample**

MS..... **Matrix Spike Result**

MSD..... **Matrix Spike Duplicate Result**

PR1..... **Percent Recovery of MS; ((MS-R1) / SP) X 100**

PR2..... **Percent Recovery of MSD; ((MSD-R1) / SP) X 100**

RPD..... **Relative Percent Difference; ((MS-MSD)/(MS+MSD)/2)) X 100**

Del Mar Analytical

Harding Lawson Associates
351 Rolling Oaks Drive, Suite 100
Thousand Oaks, CA 91361
(805) 494-7725 • (805) 494-8386 FAX

CHAIN OF CUSTODY FORM

Lab: Del Mar Analytical

Samplers: John Coffman

Job Number: 32026.48

Name/Location: Omega Chemical / Whittier

Project Manager: Andrew Keller

Recorder: John Coffman (Signature Required)

SOURCE CODE	MATRIX: Wipe	Water	Sediment	Soil	Oil	# CONTAINERS & PRESERV.: Unpres.	H_2SO_4	HNO_3	HCL	#	SAMPLE NUMBER OR LAB NUMBER: Yr Wk Seq	DATE: Yr Mo Day Time	STATION DESCRIPTION/ NOTES	EPA 601/8010	EPA 602/8020	EPA 624/8240	EPA 625/8270	METALS	EPA 8015M/TPHg	EPA 8020/BTEX	EPA 8015M/TPHd,o	ADHS BLS-181	CAM Metals
00	X									1	2K-2-8270	95 08 11 0945	100cm² Wipe Sample				X						
											2K-2-CAM	0950	" "										X
											2K-3-8270	1028	" "				X						
											2K-3-CAM	1015	" "										X
											2K-4-8270	1020	" "				X						
											2K-4-CAM	1032	" "										X
										1	Sheila-8270	0835	" "				X						
											Mon K-8270	0840	" "				X			JFC			
										1	Sheila-CAM	0840	" "										X
↓	↓									↓	Mon K-CAM	↓	" "										X

JFC

LAB NUMBER: Yr Wk Seq	DEPTH IN FEET	COL MTD CD	QA CODE	MISCELLANEOUS
				24 hr Rush for all Tests/Samples
				Fax results to Jim (310)907-9826 and Andrew Keller @ (714)662-3297

CHAIN OF CUSTODY RECORD

RELINQUISHED BY: (Signature)	RECEIVED BY: (Signature)	DATE/TIME
John Coffman	[signature]	8/11/95 1:55
RELINQUISHED BY: (Signature)	RECEIVED BY: (Signature)	DATE/TIME
[signature]		8/11/95 1:10
RELINQUISHED BY: (Signature)	RECEIVED BY: (Signature)	DATE/TIME
RELINQUISHED BY: (Signature)	RECEIVED BY: (Signature)	DATE/TIME
DISPATCHED BY: (Signature) DATE/TIME	RECEIVED FOR LAB BY: (Signature)	DATE/TIME
	[signature]	8/11 1:10

METHOD OF SHIPMENT

SAMPLE CONDITION WHEN RECEIVED BY THE LABORATORY: Intact, on ice

Laboratory Copy White — Project Office Copy Yellow — Field or Office Copy Pink

Hardi[illegible]wson Associates
351 Roll[illegible] Oaks Drive, Suite 100
Thousand Oaks, CA 91361
(805) 494-7725 • (805) 494-8386 FAX

CHAIN OF C[illegible]TODY FORM

Lab: Del Mar

Samplers: John Coffman

Job Number: 32026.48

Name/Location: Omega Chemical/Whittier

Project Manager: Andrew Keller

Recorder: John Coffman (Signature Required)

SOURCE CODE	MATRIX: Water	Sediment	Soil	Oil	Wipe	# CONTAINERS & PRESERV.: Unpres.	H_2SO_4	HNO_3	HCL	Ice	SAMPLE NUMBER OR LAB NUMBER: Yr	Wk	Seq	DATE: Yr	Mo	Day	Time	STATION DESCRIPTION/ NOTES
00					X					1	2K	4	8270	95	08	11	0815	100cm² wipe Sample

ANALYSIS REQUESTED

EPA 601/8010	EPA 602/8020	EPA 624/8240	EPA 625/8270	METALS	EPA 8015M/TPHg	EPA 8020/BTEX	EPA 8015M/TPHd,o	ADHS BLS-181	Cam Metals
			X						

LAB NUMBER: Yr	Wk	Seq	DEPTH IN FEET	COL MTD CD	QA CODE	MISCELLANEOUS
						24Hr Rush For all Tests/Samples Fax results to Jim (310)907-9826 Andrew Keller@ (714)662-3297

CHAIN OF CUSTODY RECORD

RELINQUISHED BY: (Signature)	RECEIVED BY: (Signature)	DATE/TIME 8/11/95 11:55
RELINQUISHED BY: (Signature)	RECEIVED BY: (Signature)	DATE/TIME 8/11/95 1:10
RELINQUISHED BY: (Signature)	RECEIVED BY: (Signature)	DATE/TIME
RELINQUISHED BY: (Signature)	RECEIVED BY: (Signature)	DATE/TIME
DISPATCHED BY: (Signature) DATE/TIME	RECEIVED FOR LAB BY: (Signature)	DATE/TIME 8/11 1/0

METHOD OF SHIPMENT

SAMPLE CONDITION WHEN RECEIVED BY THE LABORATORY: Intact, on ice

Laboratory Copy White — Project Office Copy Yellow — Field or Office Copy Pink

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Thousand Oaks, CA 91361
(805) 494-7725 • (805) 494-8386 FAX

CHAIN OF CUSTODY FORM

Lab: Del Mar

Samplers: John Coffman

Job Number: 32026.48

Name/Location: Omega Chemical / Whittier

Project Manager: Andrew Keller

Recorder: John Coffman (Signature Required)

SOURCE CODE	MATRIX: Wipe	Water	Sediment	Soil	Oil	# CONTAINERS & PRESERV.: Unpres.	H_2SO_4	HNO_3	HCL	#	SAMPLE NUMBER OR LAB NUMBER: Yr Wk Seq	DATE: Yr Mo Day Time	STATION DESCRIPTION/ NOTES	ANALYSIS REQUESTED: EPA 601/8010	EPA 602/8020	EPA 624/8240	EPA 625/8270	METALS	EPA 8015M/TPHg	EPA 8020/BTEX	EPA 8015M/TPHd,o	ADHS BLS-181	Cam Metals
00	X									1	Eastmix-8270	950811 0908	100cm² Wipe Sample				X						
											Eastmix-Cam	0905	" "									X	
											Westmix-CAM	0925	" "									X	
											Wstmix-8270	0935	" "				X						
											Tank 7-8270	0845	" "				X						
											Tank 7-CAM	0850	" "									X	
											Tank 8-CAM	0858	" "									X	
											Tank 8-8270	0855	" "				X						
											Tank 9-8270	0825	" "				X						
										1	Tank 9-CAM	0830	" "									X	

LAB NUMBER: Yr Wk Seq	DEPTH IN FEET	COL MTD CD	QA CODE	MISCELLANEOUS
				24Hr Rush For all Tests/Samples Fax results to Jim (310) 907-9826 Andrew Keller @ (714) 662-3297

CHAIN OF CUSTODY RECORD

RELINQUISHED BY: (Signature) John Coffman	RECEIVED BY: (Signature)	DATE/TIME 8/11/95 11:55
RELINQUISHED BY: (Signature)	RECEIVED BY: (Signature)	DATE/TIME 8/11/95 1110
RELINQUISHED BY: (Signature)	RECEIVED BY: (Signature)	DATE/TIME
RELINQUISHED BY: (Signature)	RECEIVED BY: (Signature)	DATE/TIME
DISPATCHED BY: (Signature) DATE/TIME	RECEIVED FOR LAB BY: (Signature)	DATE/TIME 8/11 1110

METHOD OF SHIPMENT

SAMPLE CONDITION WHEN RECEIVED BY THE LABORATORY: Intact, once

Laboratory Copy White — Project Office Copy Yellow — Field or Office Copy Pink

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MS/MSD DATA REPORT

EPA METHOD: **3060/7196**
Matrix: Soil

DATE: 8/8/95

SAMPLE #: Blank

Analyte	R1	Sp	MS	MSD	PR1	PR2	RPD	MEAN PR
	ppb	ppb	ppb	ppb	%	%	%	%
Chromium (VI)	0	200	204	203	102%	102%	0.5%	102%

Definition of Terms:

R1..... Result of Sample Analysis

Sp..... Spike Concentration Added to Sample

MS..... Matrix Spike Result

MSD..... Matrix Spike Duplicate Result

PR1..... Percent Recovery of MS; ((MS-R1) / SP) X 100

PR2..... Percent Recovery of MSD; ((MSD-R1) / SP) X 100

RPD..... Relative Percent Difference; ((MS-MSD)/(MS+MSD)/2)) X 100

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MS/MSD DATA REPORT

METHOD: **Metals**
Instrument: ICP
Matrix: SOIL

Date: 8/9/95

Sample #: Blank

Analyte	R1	SP	MS	MSD	PR1	PR2	RPD	MEAN PR
	ppb	ppb	ppb	ppb	%	%	%	%
Antimony	0	1000	903	930	90%	93%	2.9%	92%
Arsenic	0	1000	1058	1062	106%	106%	0.4%	106%
Barium	0	1000	1000	1019	100%	102%	1.9%	101%
Beryllium	0	1000	1052	1035	105%	104%	1.6%	104%
Cadmium	0	1000	960	983	96%	98%	2.4%	97%
Chromium	0	1000	1074	1071	107%	107%	0.3%	107%
Cobalt	0	1000	1066	1040	107%	104%	2.5%	105%
Copper	0	1000	1100	1129	110%	113%	2.6%	111%
Lead	0	1000	1063	1032	106%	103%	3.0%	105%
Molybdenum	0	1000	1082	1107	108%	111%	2.3%	109%
Nickel	0	1000	1043	1044	104%	104%	0.1%	104%
Selenium	0	1000	976	936	98%	94%	4.2%	96%
Silver	0	1000	1000	1000	100%	100%	0.0%	100%
Thallium	0	1000	1058	1181	106%	118%	11.0%	112%
Vanadium	0	1000	1102	1054	110%	105%	4.5%	108%
Zinc	0	1000	968	998	97%	100%	3.1%	98%

R1..... ..... Result of Sample Analysis
Sp..... ..... Spike Concentration Added to Sample
MS..... ..... Matrix Spike Result
MSD..... ..... Matrix Spike Duplicate Result
PR1..... ..... Percent Recovery of MS; ((MS-R1) / SP) X 100
PR2..... ..... Percent Recovery of MSD; ((MSD-R1) / SP) X 100
RPD..... ..... Relative Percent Difference; ((MS-MSD)/(MS+MSD)/2)) X 100

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MS/MSD DATA REPORT

EPA METHOD: **7471**
Matrix: Soil

DATE: 8/9/95

SAMPLE #: Blank

Analyte	R1	Sp	MS	MSD	PR1	PR2	RPD	MEAN PR
	ppb	ppb	ppb	ppb	%	%	%	%
Mercury	0	8.0	7.9	8.0	99%	100%	1.3%	99%

Definition of Terms:

R1..... Result of Sample Analysis

Sp..... Spike Concentration Added to Sample

MS..... Matrix Spike Result

MSD..... Matrix Spike Duplicate Result

PR1..... Percent Recovery of MS; ((MS-R1) / SP) X 100

PR2..... Percent Recovery of MSD; ((MSD-R1) / SP) X 100

RPD..... Relative Percent Difference; ((MS-MSD)/(MS+MSD)/2)) X 100

Del Mar Analytical

Harding Lawson Associates
351 Rolling Oaks Drive, Suite 100
Thousand Oaks, CA 91361
(805) 494-7725 • (805) 494-8386 FAX

CHAIN OF CUSTODY FORM

Lab: Del Mar

Samplers: John Coffman

Job Number: 32026.48

Name/Location: Omega Chemical/Whittier

Project Manager: Andrew Keller

Recorder: John Coffman (Signature Required)

SOURCE CODE	MATRIX: Wipe	Water	Sediment	Soil	Oil	# CONTAINERS & PRESERV.: Unpres.	H_2SO_4	HNO_3	HCL		SAMPLE NUMBER OR LAB NUMBER (Yr Wk Seq)	DATE (Yr Mo Day)	Time	STATION DESCRIPTION/ NOTES	EPA 601/8010	EPA 602/8020	EPA 624/8240	EPA 625/8270	METALS	EPA 8015M/TPHg	EPA 8020/BTEX	EPA 8015M/TPHd,o	ADHS BLS-181	Cam Metals
00	X									1	Eastmix-8270	95 08 11	0908	100cm² Wipe Sample				X						
											Eastmix-Cam		0905	" "										X
											Westmix-CAM		0925	" "										X
											Westmix-8270		0935	" "				X						
											Tank7-8270		0845	" "				X						
											Tank7-CAM		0850	" "										X
											Tank8-CAM		0858	" "										X
											Tank8-8270		0855	" "				X						
											Tank9-8270		0825	" "				X						
										1	Tank9-CAM		0830	" "										X

LAB NUMBER (Yr Wk Seq)	DEPTH IN FEET	COL MTD CD	QA CODE	MISCELLANEOUS
				24Hr Rush for all Tests/Samples Fax results to Jim (310)907-9826 Andrew Keller @ (714)662-3297

CHAIN OF CUSTODY RECORD

RELINQUISHED BY: (Signature)	RECEIVED BY: (Signature)	DATE/TIME
John Coffman	[signature]	8/11/95 11:55
[signature]	[signature]	8/11/95 1:10

DISPATCHED BY: (Signature) DATE/TIME

RECEIVED FOR LAB BY: (Signature) [signature] DATE/TIME 8/11/10

METHOD OF SHIPMENT

SAMPLE CONDITION WHEN RECEIVED BY THE LABORATORY: Intact, on ice

Laboratory Copy White | Project Office Copy Yellow | Field or Office Copy Pink

Hard[illegible]wson Associates
351 Rolling Oaks Drive, Suite 100
Thousand Oaks, CA 91361
(805) 494-7725 • (805) 494-8386 FAX

CHAIN OF C[illegible]TODY FORM

Lab: Del Mar Analytical

Samplers: John Coffman

Job Number: 32026.48

Name/Location: Omega Chemical / Whittier

Project Manager: Andrew Keller

Recorder: [signature] (Signature Required)

SOURCE CODE	MATRIX: Wipe	Water	Sediment	Soil	Oil	# CONTAINERS & PRESERV.: Unpres.	H_2SO_4	HNO_3	HCL	#	SAMPLE NUMBER OR LAB NUMBER	DATE: Yr	Mo	Day	Time	STATION DESCRIPTION/ NOTES
00	X									1	2K-2-8270	95	08	11	0945	100cm² Wipe Sample
											2K-2-CAM				0950	" "
											2K-3-8270				1028	" "
											2K-3-CAM				1015	" "
											2K-4-8270				1020	" "
											2K-4-CAM				1032	" "
										1	Sheila-8270				0835	" "
											Mork-8270				0840	" "
										1	Sheila-CAM				0840	" "
↓	↓									↓	Mork-CAM	↓	↓	↓	↓	" "

ANALYSIS REQUESTED

EPA 601/8010	EPA 602/8020	EPA 624/8240	EPA 625/8270	METALS	EPA 8015M/TPHg	EPA 8020/BTEX	EPA 8015M/TPHd,o	ADHS BLS-181	CAM Metals
			X						X
			X						X
			X						X
			X						X
			X						X
			X						X
			X						X
			X						X
			X						X
			X						X

JFC

JFC

LAB NUMBER: Yr	Wk	Seq	DEPTH IN FEET	COL MTD CD	QA CODE	MISCELLANEOUS
						24 hr Rush for all Tests/Samples
						Fax results to Jim (310) 907-9826 and Andrew Keller @ (714) 662-3297

CHAIN OF CUSTODY RECORD

RELINQUISHED BY: (Signature) [signature]	RECEIVED BY: (Signature) [signature]	DATE/TIME 8/11/95 1115
RELINQUISHED BY: (Signature) [signature]	RECEIVED BY: (Signature)	DATE/TIME 8/11/95 1:10
RELINQUISHED BY: (Signature)	RECEIVED BY: (Signature)	DATE/TIME
RELINQUISHED BY: (Signature)	RECEIVED BY: (Signature)	DATE/TIME
DISPATCHED BY: (Signature) DATE/TIME	RECEIVED FOR LAB BY: (Signature) [signature]	DATE/TIME 8/11 110

METHOD OF SHIPMENT

SAMPLE CONDITION WHEN RECEIVED BY THE LABORATORY: Intact, on ice

Laboratory Copy White | Project Office Copy Yellow | Field or Office Copy Pink

Harding Lawson Associates
351 Rolling Oaks Drive, Suite 100
Thousand Oaks, CA 91361
(805) 494-7725 • (805) 494-8386 FAX

CHAIN OF CUSTODY FORM

Lab: Del Mar

Samplers: John Coffman

Job Number: 32026.48

Name/Location: Omega Chemical/Whittier

Project Manager: Andrew Keller

Recorder: John Coffman (Signature Required)

SOURCE CODE	MATRIX: Water	Sediment	Soil	Oil	Wipe	# CONTAINERS & PRESERV.: Unpres.	H_2SO_4	HNO_3	HCL	#	SAMPLE NUMBER OR LAB NUMBER: Yr	Wk	Seq	DATE: Yr	Mo	Day	Time	STATION DESCRIPTION/ NOTES
0 0					X					1	2K-4-	82	70	9 5	0 8	1 1	0 8 1 5	100cm² Wipe Sample

ANALYSIS REQUESTED	EPA 601/8010	EPA 602/8020	EPA 624/8240	EPA 625/8270	METALS	EPA 8015M/TPHg	EPA 8020/BTEX	EPA 8015M/TPHd,o	ADHS BLS-181	Cam Metals
			X							

LAB NUMBER: Yr	Wk	Seq	DEPTH IN FEET	COL MTD CD	QA CODE	MISCELLANEOUS
						24Hr Rush For all Tests/Samples Fax results to Jim (310)907-9826 Andrew Keller@ (714)662-3297

CHAIN OF CUSTODY RECORD

RELINQUISHED BY: (Signature)	RECEIVED BY: (Signature)	DATE/TIME
John Coffman	L. DeLong	8/11/95 11:55
RELINQUISHED BY: (Signature)	RECEIVED BY: (Signature)	DATE/TIME
L. DeLong		8/11/95 1:10
RELINQUISHED BY: (Signature)	RECEIVED BY: (Signature)	DATE/TIME
RELINQUISHED BY: (Signature)	RECEIVED BY: (Signature)	DATE/TIME
DISPATCHED BY: (Signature) DATE/TIME	RECEIVED FOR LAB BY: (Signature)	DATE/TIME
	C. Morgan	8/11 1/0

METHOD OF SHIPMENT

SAMPLE CONDITION WHEN RECEIVED BY THE LABORATORY: Intact, on ice

Laboratory Copy White — Project Office Copy Yellow — Field or Office Copy Pink

Del Mar Analytical

2852 Alton Ave., Irvine, CA 92714 (714) 261-1022 FAX (714) 261-1228
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2465 W. 12th St., Suite 1, Tempe, AZ 85281 (602) 968-8272 FAX (602) 968-1338

Harding Lawson Associates
3 Hutton Centre, Suite 300
Santa Ana, CA 92707
Attention: Andrew Keller

Client Project ID: 32026.48
Omega/Whittier
Sample Descript: Wipe, Eastmix-CAM2
Lab Number: EH04254

Sampled: Aug 25, 1995
Received: Aug 25, 1995
Extracted: Aug 26, 1995
Analyzed: Aug 28, 1995
Reported: Aug 29, 1995

LABORATORY ANALYSIS

Analyte	EPA Method	STLC Max. Limit mg/L (ppm)	TTLC Max. Limit mg/Kg (ppm)	Detection Limit µg/Wipe		TTLC Sample Result µg/Wipe
Mercury.....	7471	0.20	20	0.080	.....	N.D.

Analytes reported as N.D. were not present above the stated limit of detection.

DEL MAR ANALYTICAL, IRVINE (ELAP #1197)

Gary Steube
Laboratory Director

Results pertain only to samples tested in the laboratory. This report shall not be reproduced, except in full, without written permission from Del Mar Analytical.

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Harding Lawson Associates
3 Hutton Centre, Suite 300
Santa Ana, CA 92707
Attention: Andrew Keller

Client Project ID: 32026.48
Omega/Whittier
Sample Descript: Wipe, Westmix-CAM2
Lab Number: EH04255

Sampled: Aug 25, 19[illegible]
Received: Aug 25, 1995
Extracted: Aug 26, 1995
Analyzed: Aug 28, 1995
Reported: Aug 29, 1995

LABORATORY ANALYSIS

Analyte	EPA Method	STLC Max. Limit mg/L (ppm)	TTLC Max. Limit mg/Kg (ppm)	Detection Limit µg/Wipe		TTLC Sample Result µg/Wipe
Mercury	7471	0.20	20	0.080	.....	N.D.

Analytes reported as N.D. were not present above the stated limit of detection.

DEL MAR ANALYTICAL, IRVINE (ELAP #1197)

Gary Steube
Laboratory Director

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2465 W. 12th St., Suite 1, Tempe, AZ 85281 (602) 968-8272 FAX (602) 968-1338

Harding Lawson Associates	Client Project ID:	32026.48 Omega/Whittier	Sampled: Aug 25, 1995
3 Hutton Centre, Suite 300			Received: Aug 25, 1995
Santa Ana, CA 92707	Sample Descript:	Wipe, Tank 9-CAM2	Extracted: Aug 26, 1995
Attention: Andrew Keller	Lab Number:	EH04256	Analyzed: Aug 28, 1995
			Reported: Aug 29, 1995

LABORATORY ANALYSIS

Analyte	EPA Method	STLC Max. Limit mg/L (ppm)	TTLC Max. Limit mg/Kg (ppm)	Detection Limit µg/Wipe		TTLC Sample Result µg/Wipe
Mercury	7471	0.20	20	0.080	.....	N.D.

Analytes reported as N.D. were not present above the stated limit of detection.

DEL MAR ANALYTICAL, IRVINE (ELAP #1197)

Gary Steube
Laboratory Director

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Harding Lawson Associates	Client Project ID: 32026.48	Sampled: Aug 25, 199
3 Hutton Centre, Suite 300	Omega/Whittier	Received: Aug 25, 1995
Santa Ana, CA 92707	Sample Descript: Wipe, Tank 10-CAM	Extracted: Aug 26-28, 1995
Attention: Andrew Keller	Lab Number: EH04257	Analyzed: Aug 28, 1995
		Reported: Aug 29, 1995

CALIFORNIA CODE OF REGULATIONS, TITLE 22 METALS

Analyte	EPA Method	STLC Max. Limit mg/L (ppm)	TTLC Max. Limit mg/Kg (ppm)	Detection Limit µg/Wipe		TTLC Sample Result µg/Wipe
Antimony	6010	15	500	20		N.D.
Arsenic	6010	5.0	500	4.0		N.D.
Barium	6010	100	10000	2.0		N.D.
Beryllium	6010	0.75	75	0.40		N.D.
Cadmium	6010	1.0	100	0.40		N.D.
Chromium, VI	7196	5.0	500	1.0		N.D.
Chromium, total	6010	560	2500	2.0		N.D.
Cobalt	6010	80	8000	2.0		N.D.
Copper	6010	25	2500	2.0		N.D.
Lead	6010	5.0	1000	4.0		N.D.
Mercury	7471	0.20	20	0.080		N.D.
Molybdenum	6010	350	3500	2.0		N.D.
Nickel	6010	20	2000	2.0		N.D.
Selenium	6010	1.0	100	4.0		N.D.
Silver	6010	5.0	500	2.0		N.D.
Thallium	6010	7.0	700	20		N.D.
Vanadium	6010	24	2400	2.0		N.D.
Zinc	6010	250	5000	2.0		13

Analytes reported as N.D. were not present above the stated limit of detection.

DEL MAR ANALYTICAL, IRVINE (ELAP #1197)

Gary Steube
Laboratory Director

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Harding Lawson Associates
3 Hutton Centre, Suite 300
Santa Ana, CA 92707
Attention: Andrew Keller

Client Project ID: 32026.48
Omega/Whittier
Sample Descript: Wipe, Tank 12-CAM
Lab Number: EH04260

Sampled: Aug 25, 1995
Received: Aug 25, 1995
Extracted: Aug 26-28, 1995
Analyzed: Aug 28, 1995
Reported: Aug 29, 1995

CALIFORNIA CODE OF REGULATIONS, TITLE 22 METALS

Analyte	EPA Method	STLC Max. Limit mg/L (ppm)	TTLC Max. Limit mg/Kg (ppm)	Detection Limit µg/Wipe		TTLC Sample Result µg/Wipe
Antimony	6010	15	500	20	.....	N.D.
Arsenic	6010	5.0	500	4.0	.....	N.D.
Barium	6010	100	10000	2.0	.....	19
Beryllium	6010	0.75	75	0.40	.....	N.D.
Cadmium	6010	1.0	100	0.40	.....	N.D.
Chromium, VI	7196	5.0	500	1.0	.....	N.D.
Chromium, total	6010	560	2500	2.0	.....	6.5
Cobalt	6010	80	8000	2.0	.....	N.D.
Copper	6010	25	2500	2.0	.....	6.2
Lead	6010	5.0	1000	4.0	.....	11
Mercury	7471	0.20	20	0.080	.....	N.D.
Molybdenum	6010	350	3500	2.0	.....	N.D.
Nickel	6010	20	2000	2.0	.....	N.D.
Selenium	6010	1.0	100	4.0	.....	N.D.
Silver	6010	5.0	500	2.0	.....	N.D.
Thallium	6010	7.0	700	20	.....	N.D.
Vanadium	6010	24	2400	2.0	.....	N.D.
Zinc	6010	250	5000	2.0	.....	12

Analytes reported as N.D. were not present above the stated limit of detection.

DEL MAR ANALYTICAL, IRVINE (ELAP #1197)

Gary Steube
Laboratory Director

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2465 W. 12th St., Suite 1, Tempe, AZ 85281 (602) 968-8272 FAX (602) 968-1338

Harding Lawson Associates
3 Hutton Centre, Suite 300
Santa Ana, CA 92707
Attention: Andrew Keller

Client Project ID: 32026.48
Omega/Whittier
Sample Descript: Wipe, P24-CAM
Lab Number: EH04264

Sampled: Aug 25, 199
Received: Aug 25, 1995
Extracted: Aug 26-28, 1995
Analyzed: Aug 28, 1995
Reported: Aug 29, 1995

CALIFORNIA CODE OF REGULATIONS, TITLE 22 METALS

Analyte	EPA Method	STLC Max. Limit mg/L (ppm)	TTLC Max. Limit mg/Kg (ppm)	Detection Limit µg/Wipe		TTLC Sample Result µg/Wipe
Antimony	6010	15	500	20	.....	N.D.
Arsenic	6010	5.0	500	4.0	.....	N.D.
Barium	6010	100	10000	2.0	.....	N.D.
Beryllium	6010	0.75	75	0.40	.....	N.D.
Cadmium	6010	1.0	100	0.40	.....	N.D.
Chromium, VI	7196	5.0	500	1.0	.....	N.D.
Chromium, total	6010	560	2500	2.0	.....	6.2
Cobalt	6010	80	8000	2.0	.....	N.D.
Copper	6010	25	2500	2.0	.....	N.D.
Lead	6010	5.0	1000	4.0	.....	N.D.
Mercury	7471	0.20	20	0.080	.....	N.D.
Molybdenum	6010	350	3500	2.0	.....	N.D.
Nickel	6010	20	2000	2.0	.....	N.D.
Selenium	6010	1.0	100	4.0	.....	N.D.
Silver	6010	5.0	500	2.0	.....	N.D.
Thallium	6010	7.0	700	20	.....	N.D.
Vanadium	6010	24	2400	2.0	.....	N.D.
Zinc	6010	250	5000	2.0	.....	9.1

Analytes reported as N.D. were not present above the stated limit of detection.

DEL MAR ANALYTICAL, IRVINE (ELAP #1197)

Gary Steube
Laboratory Director

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2465 W. 12th St., Suite 1, Tempe, AZ 85281 (602) 968-8272 FAX (602) 968-1338

Harding Lawson Associates
3 Hutton Centre, Suite 300
Santa Ana, CA 92707
Attention: Andrew Keller

Client Project ID: 32026.48
Omega/Whittier
Sample Descript: Wipe, Tank 10-8270
Lab Number: EH04258

Sampled: Aug 25, 1995
Received: Aug 25, 1995
Extracted: Aug 25, 1995
Analyzed: Aug 27, 1995
Reported: Aug 29, 1995

SEMI-VOLATILE ORGANICS by GC/MS (EPA 3550/8270)

Analyte	Detection Limit µg/Wipe	Sample Result µg/Wipe	Analyte	Detection Limit µg/Wipe	Sample Result µg/Wipe
Acenaphthene	5.0	N.D.	Dimethyl phthalate	5.0	N.D.
Acenaphthylene	5.0	N.D.	4,6-Dinitro-2-methylphenol	13	N.D.
Aniline	7.5	N.D.	2,4-Dinitrophenol	13	N.D.
Anthracene	5.0	N.D.	2,4-Dinitrotoluene	5.0	N.D.
Azobenzene	7.5	N.D.	2,6-Dinitrotoluene	5.0	N.D.
Benzidine	50	N.D.	Di-N-octyl phthalate	25	N.D.
Benzoic Acid	25	N.D.	Fluoranthene	5.0	N.D.
Benz(a)anthracene	5.0	N.D.	Fluorene	5.0	N.D.
Benzo(b)fluoranthene	10	N.D.	Hexachlorobenzene	5.0	N.D.
Benzo(k)fluoranthene	10	N.D.	Hexachlorobutadiene	5.0	N.D.
Benzo(g,h,i)perylene	7.5	N.D.	Hexachlorocyclopentadiene	25	N.D.
Benzo(a)pyrene	10	N.D.	Hexachloroethane	10	N.D.
Benzyl alcohol	10	N.D.	Indeno(1,2,3-cd)pyrene	10	N.D.
Bis(2-chloroethoxy)methane	5.0	N.D.	Isophorone	5.0	N.D.
Bis(2-chloroethyl)ether	5.0	N.D.	2-Methylnaphthalene	5.0	N.D.
Bis(2-chloroisopropyl)ether	5.0	N.D.	2-Methylphenol	7.5	N.D.
Bis(2-ethylhexyl)phthalate	13	N.D.	4-Methylphenol	7.5	N.D.
4-Bromophenyl phenyl ether	7.5	N.D.	Naphthalene	7.5	N.D.
Butyl benzyl phthalate	25	N.D.	2-Nitroaniline	10	N.D.
4-Chloroaniline	5.0	N.D.	3-Nitroaniline	10	N.D.
2-Chloronaphthalene	5.0	N.D.	4-Nitroaniline	25	N.D.
4-Chloro-3-methylphenol	5.0	N.D.	Nitrobenzene	25	N.D.
2-Chlorophenol	13	N.D.	2-Nitrophenol	5.0	N.D.
4-Chlorophenyl phenyl ether	5.0	N.D.	4-Nitrophenol	25	N.D.
Chrysene	5.0	N.D.	N-Nitrosodiphenylamine	10	N.D.
Dibenz(a,h)anthracene	13	N.D.	N-Nitroso-di-N-propylamine	7.5	N.D.
Dibenzofuran	5.0	N.D.	Pentachlorophenol	25	N.D.
Di-N-butyl phthalate	13	N.D.	Phenanthrene	5.0	N.D.
1,3-Dichlorobenzene	5.0	N.D.	Phenol	7.5	N.D.
1,4-Dichlorobenzene	5.0	N.D.	Pyrene	7.5	N.D.
1,2-Dichlorobenzene	5.0	N.D.	1,2,4-Trichlorobenzene	5.0	N.D.
3,3-Dichlorobenzidine	25	N.D.	2,4,5-Trichlorophenol	7.5	N.D.
2,4-Dichlorophenol	5.0	N.D.	2,4,6-Trichlorophenol	7.5	N.D.
Diethyl phthalate	5.0	N.D.			
2,4-Dimethylphenol	13	N.D.			

Analytes reported as N.D. were not present above the stated limit of detection.

Surrogate Standard Recoveries (Accept. Limits):	
2-Fluorophenol (25-121)	78%
Phenol-d6 (24-113)	80%
2,4,6-Tribromophenol (19-122)	93%
Nitrobenzene-d5 (23-120)	82%
2-Fluorobiphenyl (30-115)	82%
Terphenyl-d14 (18-137)	84%

DEL MAR ANALYTICAL, IRVINE (ELAP #1197)

Gary Steube
Laboratory Director

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Harding Lawson Associates
3 Hutton Centre, Suite 300
Santa Ana, CA 92707
Attention: Andrew Keller

Client Project ID: 32026.48
Omega/Whittier
Sample Descript: Wipe, Tank 12-8270
Lab Number: EH04261

Sampled: Aug 25, 199
Received: Aug 25, 1995
Extracted: Aug 25, 1995
Analyzed: Aug 27, 1995
Reported: Aug 29, 1995

SEMI-VOLATILE ORGANICS by GC/MS (EPA 3550/8270)

Analyte	Detection Limit µg/Wipe	Sample Result µg/Wipe	Analyte	Detection Limit µg/Wipe	Sample Result µg/Wipe
Acenaphthene	5.0	N.D.	Dimethyl phthalate	5.0	N.D.
Acenaphthylene	5.0	N.D.	4,6-Dinitro-2-methylphenol	13	N.D.
Aniline	7.5	N.D.	2,4-Dinitrophenol	13	N.D.
Anthracene	5.0	N.D.	2,4-Dinitrotoluene	5.0	N.D.
Azobenzene	7.5	N.D.	2,6-Dinitrotoluene	5.0	N.D.
Benzidine	50	N.D.	Di-N-octyl phthalate	25	N.D.
Benzoic Acid	25	N.D.	Fluoranthene	5.0	N.D.
Benz(a)anthracene	5.0	N.D.	Fluorene	5.0	N.D.
Benzo(b)fluoranthene	10	N.D.	Hexachlorobenzene	5.0	N.D.
Benzo(k)fluoranthene	10	N.D.	Hexachlorobutadiene	5.0	N.D.
Benzo(g,h,i)perylene	7.5	N.D.	Hexachlorocyclopentadiene	25	N.D.
Benzo(a)pyrene	10	N.D.	Hexachloroethane	10	N.D.
Benzyl alcohol	10	N.D.	Indeno(1,2,3-cd)pyrene	10	N.D.
Bis(2-chloroethoxy)methane	5.0	N.D.	Isophorone	5.0	N.D.
Bis(2-chloroethyl)ether	5.0	N.D.	2-Methylnaphthalene	5.0	N.D.
Bis(2-chloroisopropyl)ether	5.0	N.D.	2-Methylphenol	7.5	N.D.
Bis(2-ethylhexyl)phthalate	13	N.D.	4-Methylphenol	7.5	N.D.
4-Bromophenyl phenyl ether	7.5	N.D.	Naphthalene	7.5	N.D.
Butyl benzyl phthalate	25	N.D.	2-Nitroaniline	10	N.D.
4-Chloroaniline	5.0	N.D.	3-Nitroaniline	10	N.D.
2-Chloronaphthalene	5.0	N.D.	4-Nitroaniline	25	N.D.
4-Chloro-3-methylphenol	5.0	N.D.	Nitrobenzene	25	N.D.
2-Chlorophenol	13	N.D.	2-Nitrophenol	5.0	N.D.
4-Chlorophenyl phenyl ether	5.0	N.D.	4-Nitrophenol	25	N.D.
Chrysene	5.0	N.D.	N-Nitrosodiphenylamine	10	N.D.
Dibenz(a,h)anthracene	13	N.D.	N-Nitroso-di-N-propylamine	7.5	N.D.
Dibenzofuran	5.0	N.D.	Pentachlorophenol	25	N.D.
Di-N-butyl phthalate	13	N.D.	Phenanthrene	5.0	N.D.
1,3-Dichlorobenzene	5.0	N.D.	Phenol	7.5	N.D.
1,4-Dichlorobenzene	5.0	N.D.	Pyrene	7.5	N.D.
1,2-Dichlorobenzene	5.0	N.D.	1,2,4-Trichlorobenzene	5.0	N.D.
3,3-Dichlorobenzidine	25	N.D.	2,4,5-Trichlorophenol	7.5	N.D.
2,4-Dichlorophenol	5.0	N.D.	2,4,6-Trichlorophenol	7.5	N.D.
Diethyl phthalate	5.0	N.D.			
2,4-Dimethylphenol	13	N.D.			

Analytes reported as N.D. were not present above the stated limit of detection.

Surrogate Standard Recoveries (Accept. Limits):	
2-Fluorophenol (25-121)	71%
Phenol-d6 (24-113)	74%
2,4,6-Tribromophenol (19-122)	88%
Nitrobenzene-d5 (23-120)	73%
2-Fluorobiphenyl (30-115)	77%
Terphenyl-d14 (18-137)	82%

DEL MAR ANALYTICAL, IRVINE (ELAP #1197)

Gary Steube
Laboratory Director

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Harding Lawson Associates
3 Hutton Centre, Suite 300
Santa Ana, CA 92707
Attention: Andrew Keller

Client Project ID: 32026.48
Omega/Whittier
Sample Descript: Wipe, P24-8270
Lab Number: EH04263

Sampled: Aug 25, 1995
Received: Aug 25, 1995
Extracted: Aug 25, 1995
Analyzed: Aug 27, 1995
Reported: Aug 29, 1995

SEMI-VOLATILE ORGANICS by GC/MS (EPA 3550/8270)

Analyte	Detection Limit µg/Wipe	Sample Result µg/Wipe	Analyte	Detection Limit µg/Wipe	Sample Result µg/Wipe
Acenaphthene	5.0	N.D.	Dimethyl phthalate	5.0	N.D.
Acenaphthylene	5.0	N.D.	4,6-Dinitro-2-methylphenol	13	N.D.
Aniline	7.5	N.D.	2,4-Dinitrophenol	13	N.D.
Anthracene	5.0	N.D.	2,4-Dinitrotoluene	5.0	N.D.
Azobenzene	7.5	N.D.	2,6-Dinitrotoluene	5.0	N.D.
Benzidine	50	N.D.	Di-N-octyl phthalate	25	N.D.
Benzoic Acid	25	N.D.	Fluoranthene	5.0	N.D.
Benz(a)anthracene	5.0	N.D.	Fluorene	5.0	N.D.
Benzo(b)fluoranthene	10	N.D.	Hexachlorobenzene	5.0	N.D.
Benzo(k)fluoranthene	10	N.D.	Hexachlorobutadiene	5.0	N.D.
Benzo(g,h,i)perylene	7.5	N.D.	Hexachlorocyclopentadiene	25	N.D.
Benzo(a)pyrene	10	N.D.	Hexachloroethane	10	N.D.
Benzyl alcohol	10	N.D.	Indeno(1,2,3-cd)pyrene	10	N.D.
Bis(2-chloroethoxy)methane	5.0	N.D.	Isophorone	5.0	N.D.
Bis(2-chloroethyl)ether	5.0	N.D.	2-Methylnaphthalene	5.0	N.D.
Bis(2-chloroisopropyl)ether	5.0	N.D.	2-Methylphenol	7.5	N.D.
Bis(2-ethylhexyl)phthalate	13	N.D.	4-Methylphenol	7.5	N.D.
4-Bromophenyl phenyl ether	7.5	N.D.	Naphthalene	7.5	N.D.
Butyl benzyl phthalate	25	N.D.	2-Nitroaniline	10	N.D.
4-Chloroaniline	5.0	N.D.	3-Nitroaniline	10	N.D.
2-Chloronaphthalene	5.0	N.D.	4-Nitroaniline	25	N.D.
4-Chloro-3-methylphenol	5.0	N.D.	Nitrobenzene	25	N.D.
2-Chlorophenol	13	N.D.	2-Nitrophenol	5.0	N.D.
4-Chlorophenyl phenyl ether	5.0	N.D.	4-Nitrophenol	25	N.D.
Chrysene	5.0	N.D.	N-Nitrosodiphenylamine	10	N.D.
Dibenz(a,h)anthracene	13	N.D.	N-Nitroso-di-N-propylamine	7.5	N.D.
Dibenzofuran	5.0	N.D.	Pentachlorophenol	25	N.D.
Di-N-butyl phthalate	13	N.D.	Phenanthrene	5.0	N.D.
1,3-Dichlorobenzene	5.0	N.D.	Phenol	7.5	N.D.
1,4-Dichlorobenzene	5.0	N.D.	Pyrene	7.5	N.D.
1,2-Dichlorobenzene	5.0	N.D.	1,2,4-Trichlorobenzene	5.0	N.D.
3,3-Dichlorobenzidine	25	N.D.	2,4,5-Trichlorophenol	7.5	N.D.
2,4-Dichlorophenol	5.0	N.D.	2,4,6-Trichlorophenol	7.5	N.D.
Diethyl phthalate	5.0	N.D.			
2,4-Dimethylphenol	13	N.D.			

Analytes reported as N.D. were not present above the stated limit of detection.

Surrogate Standard Recoveries (Accept. Limits):	
2-Fluorophenol (25-121)	65%
Phenol-d6 (24-113)	69%
2,4,6-Tribromophenol (19-122)	79%
Nitrobenzene-d5 (23-120)	71%
2-Fluorobiphenyl (30-115)	72%
Terphenyl-d14 (18-137)	76%

DEL MAR ANALYTICAL, IRVINE (ELAP #1197)

Gary Steube
Laboratory Director

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Harding Lawson Associates
3 Hutton Centre, Suite 300
Santa Ana, CA 92707
Attention: Andrew Keller

Client Project ID: 32026.48
Omega/Whittier
Sample Descript: Wipe, Tank 10-8240
Lab Number: EH04259

Sampled: Aug 25, 1995
Received: Aug 25, 1995
Extracted: Aug 30, 1995
Analyzed: Aug 30, 1995
Reported: Sep 1, 1995

VOLATILE ORGANICS by GC/MS (EPA 8240)

Analyte	Detection Limit µg/Wipe	Sample Result µg/Wipe
Acetone	5.0	N.D.
Benzene	1.0	N.D.
Bromodichloromethane	1.0	N.D.
Bromoform	1.0	N.D.
Bromomethane	2.5	N.D.
2-Butanone	5.0	N.D.
Carbon disulfide	2.5	N.D.
Carbon tetrachloride	2.5	N.D.
Chlorobenzene	1.0	N.D.
Chlorodibromomethane	1.0	N.D.
Chloroethane	2.5	N.D.
2-Chloroethyl vinyl ether	1.0	N.D.
Chloroform	1.0	N.D.
Chloromethane	2.5	N.D.
1,1-Dichloroethane	1.0	N.D.
1,2-Dichloroethane	1.0	N.D.
1,1-Dichloroethene	2.5	N.D.
cis-1,2-Dichloroethene	1.0	N.D.
trans-1,2-Dichloroethene	1.0	N.D.
1,2-Dichloropropane	1.0	N.D.
cis-1,3-Dichloropropene	1.0	N.D.
trans-1,3-Dichloropropene	1.0	N.D.
Ethylbenzene	1.0	N.D.
2-Hexanone	5.0	N.D.
Methylene chloride	5.0	N.D.
4-Methyl-2-pentanone	2.5	N.D.
Styrene	1.0	N.D.
1,1,2,2-Tetrachloroethane	1.0	N.D.
Tetrachloroethene	1.0	N.D.
Toluene	1.0	N.D.
1,1,1-Trichloroethane	1.0	N.D.
1,1,2-Trichloroethane	1.0	N.D.
Trichloroethene	1.0	N.D.
Trichlorofluoromethane	2.5	N.D.
Vinyl acetate	2.5	N.D.
Vinyl chloride	2.5	N.D.
Total Xylenes	1.0	N.D.

Analytes reported as N.D. were not present above the stated limit of detection.

DEL MAR ANALYTICAL, IRVINE (ELAP #1197)

Gary Steube
Laboratory Director

Surrogate Standard Recoveries (Accept. Limits):	
1,2-Dichloroethane-d4 (70-121)	91%
Toluene-d8 (81-117)	92%
4-Bromofluorobenzene (74-121)	99%

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Harding Lawson Associates
3 Hutton Centre, Suite 300
Santa Ana, CA 92707
Attention: Andrew Keller

Client Project ID: 32026.48
Omega/Whittier
Sample Descript: Wipe, Tank 12-8240
Lab Number: EH04262

Sampled: Aug 25, 1995
Received: Aug 25, 1995
Extracted: Aug 30, 1995
Analyzed: Aug 30, 1995
Reported: Sep 1, 1995

VOLATILE ORGANICS by GC/MS (EPA 8240)

Analyte	Detection Limit µg/Wipe	Sample Result µg/Wipe
Acetone	5.0	N.D.
Benzene	1.0	N.D.
Bromodichloromethane	1.0	N.D.
Bromoform	1.0	N.D.
Bromomethane	2.5	N.D.
2-Butanone	5.0	N.D.
Carbon disulfide	2.5	N.D.
Carbon tetrachloride	2.5	N.D.
Chlorobenzene	1.0	N.D.
Chlorodibromomethane	1.0	N.D.
Chloroethane	2.5	N.D.
2-Chloroethyl vinyl ether	1.0	N.D.
Chloroform	1.0	N.D.
Chloromethane	2.5	N.D.
1,1-Dichloroethane	1.0	N.D.
1,2-Dichloroethane	1.0	N.D.
1,1-Dichloroethene	2.5	N.D.
cis-1,2-Dichloroethene	1.0	N.D.
trans-1,2-Dichloroethene	1.0	N.D.
1,2-Dichloropropane	1.0	N.D.
cis-1,3-Dichloropropene	1.0	N.D.
trans-1,3-Dichloropropene	1.0	N.D.
Ethylbenzene	1.0	N.D.
2-Hexanone	5.0	N.D.
Methylene chloride	5.0	N.D.
4-Methyl-2-pentanone	2.5	N.D.
Styrene	1.0	N.D.
1,1,2,2-Tetrachloroethane	1.0	N.D.
Tetrachloroethene	1.0	N.D.
Toluene	1.0	N.D.
1,1,1-Trichloroethane	1.0	N.D.
1,1,2-Trichloroethane	1.0	N.D.
Trichloroethene	1.0	N.D.
Trichlorofluoromethane	2.5	N.D.
Vinyl acetate	2.5	N.D.
Vinyl chloride	2.5	N.D.
Total Xylenes	1.0	N.D.

Analytes reported as N.D. were not present above the stated limit of detection.

DEL MAR ANALYTICAL, IRVINE (ELAP #1197)

Gary Steube
Laboratory Director

Surrogate Standard Recoveries (Accept. Limits):	
1,2-Dichloroethane-d4 (70-121)	93%
Toluene-d8 (81-117)	98%
4-Bromofluorobenzene (74-121)	106%

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Harding Lawson Associates
3 Hutton Centre, Suite 300
Santa Ana, CA 92707
Attention: Andrew Keller

Client Project ID: 32026.48
Omega/Whittier
Sample Descript: Wipe, P24-8240
Lab Number: EH04265

Sampled: Aug 25, 199
Received: Aug 25, 1995
Extracted: Aug 30, 1995
Analyzed: Aug 30, 1995
Reported: Sep 1, 1995

VOLATILE ORGANICS by GC/MS (EPA 8240)

Analyte	Detection Limit µg/Wipe	Sample Result µg/Wipe
Acetone	5.0	N.D.
Benzene	1.0	N.D.
Bromodichloromethane	1.0	N.D.
Bromoform	1.0	N.D.
Bromomethane	2.5	N.D.
2-Butanone	5.0	N.D.
Carbon disulfide	2.5	N.D.
Carbon tetrachloride	2.5	N.D.
Chlorobenzene	1.0	N.D.
Chlorodibromomethane	1.0	N.D.
Chloroethane	2.5	N.D.
2-Chloroethyl vinyl ether	1.0	N.D.
Chloroform	1.0	N.D.
Chloromethane	2.5	N.D.
1,1-Dichloroethane	1.0	N.D.
1,2-Dichloroethane	1.0	N.D.
1,1-Dichloroethene	2.5	N.D.
cis-1,2-Dichloroethene	1.0	N.D.
trans-1,2-Dichloroethene	1.0	N.D.
1,2-Dichloropropane	1.0	N.D.
cis-1,3-Dichloropropene	1.0	N.D.
trans-1,3-Dichloropropene	1.0	N.D.
Ethylbenzene	1.0	N.D.
2-Hexanone	5.0	N.D.
Methylene chloride	5.0	N.D.
4-Methyl-2-pentanone	2.5	N.D.
Styrene	1.0	N.D.
1,1,2,2-Tetrachloroethane	1.0	N.D.
Tetrachloroethene	1.0	N.D.
Toluene	1.0	N.D.
1,1,1-Trichloroethane	1.0	N.D.
1,1,2-Trichloroethane	1.0	N.D.
Trichloroethene	1.0	N.D.
Trichlorofluoromethane	2.5	N.D.
Vinyl acetate	2.5	N.D.
Vinyl chloride	2.5	N.D.
Total Xylenes	1.0	N.D.

Analytes reported as N.D. were not present above the stated limit of detection.

DEL MAR ANALYTICAL, IRVINE (ELAP #1197)

Gary Steube
Laboratory Director

Surrogate Standard Recoveries (Accept. Limits):	
1,2-Dichloroethane-d4 (70-121)	92%
Toluene-d8 (81-117)	96%
4-Bromofluorobenzene (74-121)	100%

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Harding Lawson Associates
3 Hutton Centre, Suite 300
Santa Ana, CA 92707
Attention: Andrew Keller

Method Blank

Extracted: Aug 26-28, 1995
Analyzed: Aug 28, 1995
Reported: Aug 29, 1995
Matrix Wipe

CALIFORNIA CODE OF REGULATIONS, TITLE 22 METALS

Analyte	EPA Method	STLC Max. Limit mg/L (ppm)	TTLC Max. Limit mg/Kg (ppm)	Detection Limit µg/Wipe		TTLC Sample Result µg/Wipe
Antimony	6010	15	500	20		N.D.
Arsenic	6010	5.0	500	4.0		N.D.
Barium	6010	100	10000	2.0		N.D.
Beryllium	6010	0.75	75	0.40		N.D.
Cadmium	6010	1.0	100	0.40		N.D.
Chromium, VI	7196	5.0	500	1.0		N.D.
Chromium, total	6010	560	2500	2.0		N.D.
Cobalt	6010	80	8000	2.0		N.D.
Copper	6010	25	2500	2.0		N.D.
Lead	6010	5.0	1000	4.0		N.D.
Mercury	7471	0.20	20	0.080		N.D.
Molybdenum	6010	350	3500	2.0		N.D.
Nickel	6010	20	2000	2.0		N.D.
Selenium	6010	1.0	100	4.0		N.D.
Silver	6010	5.0	500	2.0		N.D.
Thallium	6010	7.0	700	20		N.D.
Vanadium	6010	24	2400	2.0		N.D.
Zinc	6010	250	5000	2.0		N.D.

Analytes reported as N.D. were not present above the stated limit of detection.

DEL MAR ANALYTICAL, IRVINE (ELAP #1197)

Gary Steube
Laboratory Director

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Harding Lawson Associates
3 Hutton Centre, Suite 300
Santa Ana, CA 92707
Attention: Andrew Keller

Method Blank

Extracted: Aug 25, 199
Analyzed: Aug 27, 1995
Reported: Aug 29, 1995
Matrix Wipe

SEMI-VOLATILE ORGANICS by GC/MS (EPA 3550/8270)

Analyte	Detection Limit µg/Wipe	Sample Result µg/Wipe	Analyte	Detection Limit µg/Wipe	Sample Result µg/Wipe
Acenaphthene	5.0	N.D.	Dimethyl phthalate	5.0	N.D.
Acenaphthylene	5.0	N.D.	4,6-Dinitro-2-methylphenol	13	N.D.
Aniline	7.5	N.D.	2,4-Dinitrophenol	13	N.D.
Anthracene	5.0	N.D.	2,4-Dinitrotoluene	5.0	N.D.
Azobenzene	7.5	N.D.	2,6-Dinitrotoluene	5.0	N.D.
Benzidine	50	N.D.	Di-N-octyl phthalate	25	N.D.
Benzoic Acid	25	N.D.	Fluoranthene	5.0	N.D.
Benz(a)anthracene	5.0	N.D.	Fluorene	5.0	N.D.
Benzo(b)fluoranthene	10	N.D.	Hexachlorobenzene	5.0	N.D.
Benzo(k)fluoranthene	10	N.D.	Hexachlorobutadiene	5.0	N.D.
Benzo(g,h,i)perylene	7.5	N.D.	Hexachlorocyclopentadiene	25	N.D.
Benzo(a)pyrene	10	N.D.	Hexachloroethane	10	N.D.
Benzyl alcohol	10	N.D.	Indeno(1,2,3-cd)pyrene	10	N.D.
Bis(2-chloroethoxy)methane	5.0	N.D.	Isophorone	5.0	N.D.
Bis(2-chloroethyl)ether	5.0	N.D.	2-Methylnaphthalene	5.0	N.D.
Bis(2-chloroisopropyl)ether	5.0	N.D.	2-Methylphenol	7.5	N.D.
Bis(2-ethylhexyl)phthalate	13	N.D.	4-Methylphenol	7.5	N.D.
4-Bromophenyl phenyl ether	7.5	N.D.	Naphthalene	7.5	N.D.
Butyl benzyl phthalate	25	N.D.	2-Nitroaniline	10	N.D.
4-Chloroaniline	5.0	N.D.	3-Nitroaniline	10	N.D.
2-Chloronaphthalene	5.0	N.D.	4-Nitroaniline	25	N.D.
4-Chloro-3-methylphenol	5.0	N.D.	Nitrobenzene	25	N.D.
2-Chlorophenol	13	N.D.	2-Nitrophenol	5.0	N.D.
4-Chlorophenyl phenyl ether	5.0	N.D.	4-Nitrophenol	25	N.D.
Chrysene	5.0	N.D.	N-Nitrosodiphenylamine	10	N.D.
Dibenz(a,h)anthracene	13	N.D.	N-Nitroso-di-N-propylamine	7.5	N.D.
Dibenzofuran	5.0	N.D.	Pentachlorophenol	25	N.D.
Di-N-butyl phthalate	13	N.D.	Phenanthrene	5.0	N.D.
1,3-Dichlorobenzene	5.0	N.D.	Phenol	7.5	N.D.
1,4-Dichlorobenzene	5.0	N.D.	Pyrene	7.5	N.D.
1,2-Dichlorobenzene	5.0	N.D.	1,2,4-Trichlorobenzene	5.0	N.D.
3,3-Dichlorobenzidine	25	N.D.	2,4,5-Trichlorophenol	7.5	N.D.
2,4-Dichlorophenol	5.0	N.D.	2,4,6-Trichlorophenol	7.5	N.D.
Diethyl phthalate	5.0	N.D.			
2,4-Dimethylphenol	13	N.D.			

Analytes reported as N.D. were not present above the stated limit of detection.

Surrogate Standard Recoveries (Accept. Limits):	
2-Fluorophenol (25-121)	62%
Phenol-d6 (24-113)	64%
2,4,6-Tribromophenol (19-122)	73%
Nitrobenzene-d5 (23-120)	68%
2-Fluorobiphenyl (30-115)	67%
Terphenyl-d14 (18-137)	77%

DEL MAR ANALYTICAL, IRVINE (ELAP #1197)

Gary Steube
Laboratory Director

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Harding Lawson Associates
3 Hutton Centre, Suite 300
Santa Ana, CA 92707
Attention: Andrew Keller

Method Blank

Extracted: Aug 30, 1995
Analyzed: Aug 30, 1995
Reported: Sep 1, 1995
Matrix: Wipe

VOLATILE ORGANICS by GC/MS (EPA 8240)

Analyte	Detection Limit µg/Wipe	Sample Result µg/Wipe
Acetone	5.0	N.D.
Benzene	1.0	N.D.
Bromodichloromethane	1.0	N.D.
Bromoform	1.0	N.D.
Bromomethane	2.5	N.D.
2-Butanone	5.0	N.D.
Carbon disulfide	2.5	N.D.
Carbon tetrachloride	2.5	N.D.
Chlorobenzene	1.0	N.D.
Chlorodibromomethane	1.0	N.D.
Chloroethane	2.5	N.D.
2-Chloroethyl vinyl ether	1.0	N.D.
Chloroform	1.0	N.D.
Chloromethane	2.5	N.D.
1,1-Dichloroethane	1.0	N.D.
1,2-Dichloroethane	1.0	N.D.
1,1-Dichloroethene	2.5	N.D.
cis-1,2-Dichloroethene	1.0	N.D.
trans-1,2-Dichloroethene	1.0	N.D.
1,2-Dichloropropane	1.0	N.D.
cis-1,3-Dichloropropene	1.0	N.D.
trans-1,3-Dichloropropene	1.0	N.D.
Ethylbenzene	1.0	N.D.
2-Hexanone	5.0	N.D.
Methylene chloride	5.0	N.D.
4-Methyl-2-pentanone	2.5	N.D.
Styrene	1.0	N.D.
1,1,2,2-Tetrachloroethane	1.0	N.D.
Tetrachloroethene	1.0	N.D.
Toluene	1.0	N.D.
1,1,1-Trichloroethane	1.0	N.D.
1,1,2-Trichloroethane	1.0	N.D.
Trichloroethene	1.0	N.D.
Trichlorofluoromethane	2.5	N.D.
Vinyl acetate	2.5	N.D.
Vinyl chloride	2.5	N.D.
Total Xylenes	1.0	N.D.

Analytes reported as N.D. were not present above the stated limit of detection.

DEL MAR ANALYTICAL, IRVINE (ELAP #1197)

Gary Steube
Laboratory Director

Surrogate Standard Recoveries (Accept. Limits):	
1,2-Dichloroethane-d4 (70-121)	88%
Toluene-d8 (81-117)	89%
4-Bromofluorobenzene (74-121)	98%

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MS/MSD DATA REPORT

EPA METHOD: **3060/7196**
Matrix: Soil

DATE: 8/28/95

SAMPLE #: Blank

Analyte	R1	Sp	MS	MSD	PR1	PR2	RPD	MEAN PR
	ppm	ppm	ppm	ppm	%	%	%	%
Chromium (VI)	0	0.20	0.21	0.21	105%	105%	0.0%	105%

Definition of Terms:

R1..... Result of Sample Analysis

Sp..... Spike Concentration Added to Sample

MS..... Matrix Spike Result

MSD..... Matrix Spike Duplicate Result

PR1..... Percent Recovery of MS; ((MS-R1) / SP) X 100

PR2..... Percent Recovery of MSD; ((MSD-R1) / SP) X 100

RPD..... Relative Percent Difference; ((MS-MSD)/(MS+MSD)/2)) X 100

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MS/MSD DATA REPORT

EPA METHOD: **8270**
Matrix: Soil

DATE: 8/28/95

SAMPLE #: Blank

Analyte	R1	Sp	MS	MSD	PR1	PR2	RPD	MEAN PR
	ppb	ppb	ppb	ppb	%	%	%	%
1,4-Dichlorobenzene	0	50	32	33	64%	66%	3.1%	65%
n-nitroso-di-n-propylamine	0	50	33	33	66%	66%	0.0%	66%
1,2,4-Trichlorobenzene	0	50	34	35	68%	70%	2.9%	69%
Acenaphthene	0	50	35	36	70%	72%	2.8%	71%
2,4-Dinitrotoluene	0	50	34	34	68%	68%	0.0%	68%
Pyrene	0	50	38	40	76%	80%	5.1%	78%
4-Chloro-3-methylphenol	0	100	66	68	66%	68%	3.0%	67%
2-Chlorophenol	0	100	62	64	62%	64%	3.2%	63%
4-Nitrophenol	0	100	66	72	66%	72%	8.7%	69%
Pentachlorophenol	0	100	65	67	65%	67%	3.0%	66%
Phenol	0	100	65	68	65%	68%	4.5%	67%

Definition of Terms:

R1..... **Result of Sample Analysis**

Sp..... **Spike Concentration Added to Sample**

MS..... **Matrix Spike Result**

MSD..... **Matrix Spike Duplicate Result**

PR1..... **Percent Recovery of MS; ((MS-R1) / SP) X 100**

PR2..... **Percent Recovery of MSD; ((MSD-R1) / SP) X 100**

RPD..... **Relative Percent Difference; ((MS-MSD)/(MS+MSD)/2)) X 100**

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CORRECTIVE ACTION REPORT

Department:	GCMS	Date:	8/30/95
Method:	8240	Matrix:	Soil

Identification and Definition of Problem:

The recovery of Trichloroethene for the Matrix Spike Duplicate was outside of acceptance limits.

Determination of the Cause of the Problem:

The port that the Matrix Spike Duplicate was run on was contaminated from the previous run. Residual Trichloroethene carried over to the spike, causing the recovery to be high.

Corrective Action:

The Matrix Spike and the Laboratory Control Sample had Trichloroethene recoveries within acceptance limits, which validates the analytical batch. The contaminated port was cleaned to remove the residual Trichloroethene, and the following day the port showed no further contamination.

QA/QC Officer Signature: Debbie Banck Date: 9/1/95

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MS/MSD DATA REPORT

EPA METHOD: 8240
Matrix: Soil

DATE: 8/30/95

SAMPLE #: EH03447

Analyte	R1	Sp	MS	MSD	PR1	PR2	RPD	MEAN PR
	ppb	ppb	ppb	ppb	%	%	%	%
Benzene	0	50	42	39	84%	78%	7.4%	81%
Chlorobenzene	0	50	43	43	86%	86%	0.0%	86%
1,1-Dichloroethane	0	50	38	35	76%	70%	8.2%	73%
1,2-Dichlororethane	0	50	45	41	90%	82%	9.3%	86%
1,1-Dichloroethene	0	50	43	43	86%	86%	0.0%	86%
Chloroform	0	50	39	37	78%	74%	5.3%	76%
Tetrachloroethene	5.0	50	49	52	88%	94%	5.9%	91%
Toluene	0	50	41	39	82%	78%	5.0%	80%
Trichloroethene	4.5	50	50	66	91%	123%	27.6%	107%
Vinyl Chloride	0	50	58	61	116%	122%	5.0%	119%

Definition of Terms:

R1..... Result of Sample Analysis

Sp..... Spike Concentration Added to Sample

MS..... Matrix Spike Result

MSD..... Matrix Spike Duplicate Result

PR1..... Percent Recovery of MS; ((MS-R1) / SP) X 100

PR2..... Percent Recovery of MSD; ((MSD-R1) / SP) X 100

RPD..... Relative Percent Difference; ((MS-MSD)/(MS+MSD)/2)) X 100

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MS/MSD DATA REPORT

METHOD: **Metals**
Instrument: ICP
Matrix: SOIL

Date: 8/28/95

Sample #: EH04082

Analyte	R1	SP	MS	MSD	PR1	PR2	RPD	MEAN PR
	ppb	ppb	ppb	ppb	%	%	%	%
Antimony	0	1000	878	982	88%	98%	11.2%	93%
Arsenic	0	1000	910	902	91%	90%	0.9%	91%
Barium	68	1000	1069	1044	100%	98%	2.4%	99%
Beryllium	0	1000	982	984	98%	98%	0.2%	98%
Cadmium	0	1000	991	983	99%	98%	0.8%	99%
Chromium	0	1000	980	960	98%	96%	2.1%	97%
Cobalt	0	1000	985	998	99%	100%	1.3%	99%
Copper	0	1000	1067	1018	107%	102%	4.7%	104%
Lead	0	1000	1046	1043	105%	104%	0.3%	104%
Molybdenum	0	1000	1047	1018	105%	102%	2.8%	103%
Nickel	0	1000	980	993	98%	99%	1.3%	99%
Selenium	0	1000	974	983	97%	98%	0.9%	98%
Silver	0	1000	926	930	93%	93%	0.4%	93%
Thallium	0	1000	886	920	89%	92%	3.8%	90%
Vanadium	0	1000	967	962	97%	96%	0.5%	96%
Zinc	0	1000	981	957	98%	96%	2.5%	97%

R1..... ..... Result of Sample Analysis
Sp..... ..... Spike Concentration Added to Sample
MS..... ..... Matrix Spike Result
MSD..... ..... Matrix Spike Duplicate Result
PR1..... ..... Percent Recovery of MS; ((MS-R1) / SP) X 100
PR2..... ..... Percent Recovery of MSD; ((MSD-R1) / SP) X 100
RPD..... ..... Relative Percent Difference; ((MS-MSD)/(MS+MSD)/2)) X 100

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MS/MSD DATA REPORT

EPA METHOD: **7471**
Matrix: Soil

DATE: 8/28/95

SAMPLE #: Blank

Analyte	R1	Sp	MS	MSD	PR1	PR2	RPD	MEAN PR
	ppb	ppb	ppb	ppb	%	%	%	%
Mercury	0	8.0	7.8	7.8	98%	98%	0.0%	98%

Definition of Terms:

R1..... Result of Sample Analysis

Sp..... Spike Concentration Added to Sample

MS..... Matrix Spike Result

MSD..... Matrix Spike Duplicate Result

PR1..... Percent Recovery of MS; ((MS-R1) / SP) X 100

PR2..... Percent Recovery of MSD; ((MSD-R1) / SP) X 100

RPD..... Relative Percent Difference; ((MS-MSD)/(MS+MSD)/2)) X 100

Del Mar Analytical

Harding Lawson Associates
351 Rolling Oaks Drive, Suite 100
Thousand Oaks, CA 91361
(805) 494-7725 • (805) 494-8386 FAX

CHAIN OF CUSTODY FORM

Lab: Del Mar

Samplers: JFC

Job Number: 32026.48

Name/Location: Omega / Whittier

Project Manager: Andrew Keller

Recorder: John Coffman (Signature Required)

SOURCE CODE	MATRIX: Wipe	Water	Sediment	Soil	Oil	# CONTAINERS & PRESERV.: Unpres.	H_2SO_4	HNO_3	HCL	Ice	SAMPLE NUMBER OR LAB NUMBER (Yr Wk Seq)	DATE (Yr Mo Day)	Time	STATION DESCRIPTION/ NOTES	EPA 601/8010	EPA 602/8020	EPA 624/8240	EPA 625/8270	METALS	EPA 8015M/TPHg	EPA 8020/BTEX	EPA 8015M/TPHd,o	ADHS BLS-181	CAM Metals
00	X					1					Eastmix-CAM2	95 08 25	0930	2 in² Wipe Sample										X
											Westmix-CAM2		0933	" "										X
											Tank 9-CAM2		0936	" "										X
											Tank 10-CAM		0939	100 cm² Wipe Sample										X
											Tank 10-8270		0941	" "				X						
											Tank 10-8240		0943	" "			X							
											Tank 12-CAM		0945	" "										X
											Tank 12-8270		0947	" "				X						
											Tank 12-8240		0949	" "			X							

ANALYSIS REQUESTED

LAB NUMBER (Yr Wk Seq)	DEPTH IN FEET	COL MTD CD	QA CODE	MISCELLANEOUS
				Eastmix-CAM2
				Westmix-CAM2
				Tank 9-CAM2, only test for mercury
				Fax results to Jim @ (310) 907-9826 and Andrew Keller @ (714) 662-3297 IMMEDIETELY

CHAIN OF CUSTODY RECORD

RELINQUISHED BY: (Signature)	RECEIVED BY: (Signature)	DATE/TIME
John Coffman 8/25 1308	[signature] 8/25/95	1305
[signature] 8/25 1415		

DISPATCHED BY: (Signature) DATE/TIME

RECEIVED FOR LAB BY: (Signature) [signature] 8/25 1415

METHOD OF SHIPMENT

SAMPLE CONDITION WHEN RECEIVED BY THE LABORATORY: hand del, intact, on ice

Laboratory Copy White | Project Office Copy Yellow | Field or Office Copy Pink

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Harding Lawson Associates
3 Hutton Centre, Suite 300
Santa Ana, CA 92707
Attention: Andrew Keller

Client Project ID: 32026-40
Omega/Whittier
Sample Descript: Solid, Pallets
Lab Number: EG03284

Sampled: Jul 27, 1995
Received: Jul 27, 1995
Extracted: Aug 8, 1995
Analyzed: Aug 8, 1995
Reported: Aug 10, 1995

VOLATILE ORGANICS by GC/MS (EPA 8240)

Analyte	Detection Limit µg/Kg (ppb)	Sample Result µg/Kg (ppb)
Acetone	**200**	**300**
Benzene	40	N.D.
Bromodichloromethane	40	N.D.
Bromoform	40	N.D.
Bromomethane	100	N.D.
2-Butanone	**200**	**1,000**
Carbon disulfide	100	N.D.
Carbon tetrachloride	100	N.D.
Chlorobenzene	40	N.D.
Chlorodibromomethane	40	N.D.
Chloroethane	100	N.D.
2-Chloroethyl vinyl ether	40	N.D.
Chloroform	40	N.D.
Chloromethane	100	N.D.
1,1-Dichloroethane	40	N.D.
1,2-Dichloroethane	40	N.D.
1,1-Dichloroethene	100	N.D.
cis-1,2-Dichloroethene	40	N.D.
trans-1,2-Dichloroethene	40	N.D.
1,2-Dichloropropane	40	N.D.
cis-1,3-Dichloropropene	40	N.D.
trans-1,3-Dichloropropene	40	N.D.
Ethylbenzene	40	N.D.
2-Hexanone	200	N.D.
Methylene chloride	**200**	**240**
4-Methyl-2-pentanone	**100**	**1,000**
Styrene	40	N.D.
1,1,2,2-Tetrachloroethane	40	N.D.
Tetrachloroethene	**40**	**150**
Toluene	**40**	**110**
1,1,1-Trichloroethane	**40**	**1,500**
1,1,2-Trichloroethane	40	N.D.
Trichloroethene	40	N.D.
Trichlorofluoromethane	**100**	**340**
Vinyl acetate	100	N.D.
Vinyl chloride	100	N.D.
Total Xylenes	**40**	**160**

Analytes reported as N.D. were not present above the stated limit of detection. Due to matrix effects and/or other factors, the sample required dilution. Detection limits for this sample have been raised by a factor of 20.

DEL MAR ANALYTICAL, IRVINE (ELAP #1197)

Gary Steube
Laboratory Director

Surrogate Standard Recoveries (Accept. Limits):	
1,2-Dichloroethane-d4 (70-121)	94%
Toluene-d8 (81-117)	105%
4-Bromofluorobenzene (74-121)	93%

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Harding Lawson Associates
3 Hutton Centre, Suite 300
Santa Ana, CA 92707
Attention: Andrew Keller

Client Project ID: 32026-40
Omega/Whittier
Sample Descript: Solid, Pallets
Lab Number: EG03284

Sampled: Jul 27, 19
Received: Jul 27, 1995
Extracted: Aug 4, 1995
Analyzed: Aug 9, 1995
Reported: Aug 10, 1995

SEMI-VOLATILE ORGANICS by GC/MS (EPA 3550/8270)

Analyte	Detection Limit µg/Kg (ppb)	Sample Result µg/Kg (ppb)	Analyte	Detection Limit µg/Kg (ppb)	Sample Result µg/Kg (ppb)
Acenaphthene	200,000	N.D.	Dimethyl phthalate	200,000	N.D.
Acenaphthylene	200,000	N.D.	4,6-Dinitro-2-methylphenol	500,000	N.D.
Aniline	300,000	N.D.	2,4-Dinitrophenol	500,000	N.D.
Anthracene	200,000	N.D.	2,4-Dinitrotoluene	200,000	N.D.
Azobenzene	300,000	N.D.	2,6-Dinitrotoluene	200,000	N.D.
Benzidine	2,000,000	N.D.	Di-N-octyl phthalate	1,000,000	N.D.
Benzoic Acid	1,000,000	N.D.	Fluoranthene	200,000	N.D.
Benz(a)anthracene	200,000	N.D.	Fluorene	200,000	N.D.
Benzo(b)fluoranthene	400,000	N.D.	Hexachlorobenzene	200,000	N.D.
Benzo(k)fluoranthene	400,000	N.D.	Hexachlorobutadiene	200,000	N.D.
Benzo(g,h,i)perylene	300,000	N.D.	Hexachlorocyclopentadiene	1,000,000	N.D.
Benzo(a)pyrene	400,000	N.D.	Hexachloroethane	400,000	N.D.
Benzyl alcohol	400,000	N.D.	Indeno(1,2,3-cd)pyrene	400,000	N.D.
Bis(2-chloroethoxy)methane	200,000	N.D.	Isophorone	200,000	N.D.
Bis(2-chloroethyl)ether	200,000	N.D.	2-Methylnaphthalene	200,000	N.D.
Bis(2-chloroisopropyl)ether	200,000	N.D.	2-Methylphenol	300,000	N.D.
Bis(2-ethylhexyl)phthalate	**500,000**	**3,700,000**	4-Methylphenol	300,000	N.D.
4-Bromophenyl phenyl ether	300,000	N.D.	Naphthalene	300,000	N.D.
Butyl benzyl phthalate	1,000,000	N.D.	2-Nitroaniline	400,000	N.D.
4-Chloroaniline	200,000	N.D.	3-Nitroaniline	400,000	N.D.
2-Chloronaphthalene	200,000	N.D.	4-Nitroaniline	1,000,000	N.D.
4-Chloro-3-methylphenol	200,000	N.D.	Nitrobenzene	1,000,000	N.D.
2-Chlorophenol	500,000	N.D.	2-Nitrophenol	200,000	N.D.
4-Chlorophenyl phenyl ether	200,000	N.D.	4-Nitrophenol	1,000,000	N.D.
Chrysene	200,000	N.D.	N-Nitrosodiphenylamine	400,000	N.D.
Dibenz(a,h)anthracene	500,000	N.D.	N-Nitroso-di-N-propylamine	300,000	N.D.
Dibenzofuran	200,000	N.D.	Pentachlorophenol	1,000,000	N.D.
Di-N-butyl phthalate	500,000	N.D.	Phenanthrene	200,000	N.D.
1,3-Dichlorobenzene	200,000	N.D.	Phenol	300,000	N.D.
1,4-Dichlorobenzene	200,000	N.D.	Pyrene	300,000	N.D.
1,2-Dichlorobenzene	200,000	N.D.	1,2,4-Trichlorobenzene	200,000	N.D.
3,3-Dichlorobenzidine	1,000,000	N.D.	2,4,5-Trichlorophenol	300,000	N.D.
2,4-Dichlorophenol	200,000	N.D.	2,4,6-Trichlorophenol	300,000	N.D.
Diethyl phthalate	200,000	N.D.			
2,4-Dimethylphenol	500,000	N.D.			

Analytes reported as N.D. were not present above the stated limit of detection. Due to matrix effects and/or other factors, the sample required dilution. Detection limits for this sample have been raised by a factor of 2000.

DEL MAR ANALYTICAL, IRVINE (ELAP #1197)

Gary Steube
Laboratory Director

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2465 W. 12th St., Suite 1, Tempe, AZ 85281 (602) 968-8272 FAX (602) 968-1338

Harding Lawson Associates
3 Hutton Centre, Suite 300
Santa Ana, CA 92707
Attention: Andrew Keller

Client Project ID: 32026-40
Omega/Whittier
Sample Descript: Solid, Pallets
Lab Number: EG03284

Sampled: Jul 27, 1995
Received: Jul 27, 1995
Extracted: Aug 3-8, 1995
Analyzed: Aug 3-9, 1995
Reported: Aug 9, 1995

CALIFORNIA CODE OF REGULATIONS, TITLE 22 METALS

Analyte	EPA Method	STLC Max. Limit mg/L (ppm)	TTLC Max. Limit mg/Kg (ppm)	Detection Limit mg/Kg (ppm)		TTLC Sample Result mg/Kg (ppm)
Antimony	6010	15	500	5.0		N.D.
Arsenic	6010	5.0	500	1.0		N.D.
Barium	6010	100	10000	0.50		39
Beryllium	6010	0.75	75	0.10		N.D.
Cadmium	6010	1.0	100	0.10		1.2
Chromium, VI	7196	5.0	500	0.25		N.D.
Chromium, total	6010	560	2500	0.50		110
Cobalt	6010	80	8000	0.50		1.6
Copper	6010	25	2500	0.50		23
Lead	6010	5.0	1000	1.0		44
Mercury	7471	0.20	20	0.020		0.69
Molybdenum	6010	350	3500	0.50		N.D.
Nickel	6010	20	2000	0.50		8.5
Selenium	6010	1.0	100	1.0		N.D.
Silver	6010	5.0	500	0.50		N.D.
Thallium	6010	7.0	700	5.0		N.D.
Vanadium	6010	24	2400	0.50		1.6
Zinc	6010	250	5000	0.50		210

Analytes reported as N.D. were not present above the stated limit of detection.

DEL MAR ANALYTICAL, IRVINE (ELAP #1197)

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Laboratory Director

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Harding Lawson Associates
3 Hutton Centre, Suite 300
Santa Ana, CA 92707
Attention: Andrew Keller

Method Blank

Extracted: Aug 8, 19
Analyzed: Aug 8, 1995
Reported: Aug 10, 1995
Matrix: Solid

VOLATILE ORGANICS by GC/MS (EPA 8240)

Analyte	Detection Limit µg/Kg (ppb)	Sample Result µg/Kg (ppb)
Acetone	10	N.D.
Benzene	2.0	N.D.
Bromodichloromethane	2.0	N.D.
Bromoform	2.0	N.D.
Bromomethane	5.0	N.D.
2-Butanone	10	N.D.
Carbon disulfide	5.0	N.D.
Carbon tetrachloride	5.0	N.D.
Chlorobenzene	2.0	N.D.
Chlorodibromomethane	2.0	N.D.
Chloroethane	5.0	N.D.
2-Chloroethyl vinyl ether	2.0	N.D.
Chloroform	2.0	N.D.
Chloromethane	5.0	N.D.
1,1-Dichloroethane	2.0	N.D.
1,2-Dichloroethane	2.0	N.D.
1,1-Dichloroethene	5.0	N.D.
cis-1,2-Dichloroethene	2.0	N.D.
trans-1,2-Dichloroethene	2.0	N.D.
1,2-Dichloropropane	2.0	N.D.
cis-1,3-Dichloropropene	2.0	N.D.
trans-1,3-Dichloropropene	2.0	N.D.
Ethylbenzene	2.0	N.D.
2-Hexanone	10	N.D.
Methylene chloride	10	N.D.
4-Methyl-2-pentanone	5.0	N.D.
Styrene	2.0	N.D.
1,1,2,2-Tetrachloroethane	2.0	N.D.
Tetrachloroethene	2.0	N.D.
Toluene	2.0	N.D.
1,1,1-Trichloroethane	2.0	N.D.
1,1,2-Trichloroethane	2.0	N.D.
Trichloroethene	2.0	N.D.
Trichlorofluoromethane	5.0	N.D.
Vinyl acetate	5.0	N.D.
Vinyl chloride	5.0	N.D.
Total Xylenes	2.0	N.D.

Analytes reported as N.D. were not present above the stated limit of detection.

DEL MAR ANALYTICAL, IRVINE (ELAP #1197)

Gary Steube
Laboratory Director

Surrogate Standard Recoveries (Accept. Limits):	
1,2-Dichloroethane-d4 (70-121)	97%
Toluene-d8 (81-117)	93%
4-Bromofluorobenzene (74-121)	95%

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Harding Lawson Associates
3 Hutton Centre, Suite 300
Santa Ana, CA 92707
Attention: Andrew Keller

Method Blank

Extracted: Aug 4, 1995
Analyzed: Aug 9, 1995
Reported: Aug 10, 1995
Matrix Solid

SEMI-VOLATILE ORGANICS by GC/MS (EPA 3550/8270)

Analyte	Detection Limit µg/Kg (ppb)	Sample Result µg/Kg (ppb)	Analyte	Detection Limit µg/Kg (ppb)	Sample Result µg/Kg (ppb)
Acenaphthene	100	N.D.	Dimethyl phthalate	100	N.D.
Acenaphthylene	100	N.D.	4,6-Dinitro-2-methylphenol	250	N.D.
Aniline	150	N.D.	2,4-Dinitrophenol	250	N.D.
Anthracene	100	N.D.	2,4-Dinitrotoluene	100	N.D.
Azobenzene	150	N.D.	2,6-Dinitrotoluene	100	N.D.
Benzidine	1,000	N.D.	Di-N-octyl phthalate	500	N.D.
Benzoic Acid	500	N.D.	Fluoranthene	100	N.D.
Benz(a)anthracene	100	N.D.	Fluorene	100	N.D.
Benzo(b)fluoranthene	200	N.D.	Hexachlorobenzene	100	N.D.
Benzo(k)fluoranthene	200	N.D.	Hexachlorobutadiene	100	N.D.
Benzo(g,h,i)perylene	150	N.D.	Hexachlorocyclopentadiene	500	N.D.
Benzo(a)pyrene	200	N.D.	Hexachloroethane	200	N.D.
Benzyl alcohol	200	N.D.	Indeno(1,2,3-cd)pyrene	200	N.D.
Bis(2-chloroethoxy)methane	100	N.D.	Isophorone	100	N.D.
Bis(2-chloroethyl)ether	100	N.D.	2-Methylnaphthalene	100	N.D.
Bis(2-chloroisopropyl)ether	100	N.D.	2-Methylphenol	150	N.D.
Bis(2-ethylhexyl)phthalate	250	N.D.	4-Methylphenol	150	N.D.
4-Bromophenyl phenyl ether	150	N.D.	Naphthalene	150	N.D.
Butyl benzyl phthalate	500	N.D.	2-Nitroaniline	200	N.D.
4-Chloroaniline	100	N.D.	3-Nitroaniline	200	N.D.
2-Chloronaphthalene	100	N.D.	4-Nitroaniline	500	N.D.
4-Chloro-3-methylphenol	100	N.D.	Nitrobenzene	500	N.D.
2-Chlorophenol	250	N.D.	2-Nitrophenol	100	N.D.
4-Chlorophenyl phenyl ether	100	N.D.	4-Nitrophenol	500	N.D.
Chrysene	100	N.D.	N-Nitrosodiphenylamine	200	N.D.
Dibenz(a,h)anthracene	250	N.D.	N-Nitroso-di-N-propylamine	150	N.D.
Dibenzofuran	100	N.D.	Pentachlorophenol	500	N.D.
Di-N-butyl phthalate	250	N.D.	Phenanthrene	100	N.D.
1,3-Dichlorobenzene	100	N.D.	Phenol	150	N.D.
1,4-Dichlorobenzene	100	N.D.	Pyrene	150	N.D.
1,2-Dichlorobenzene	100	N.D.	1,2,4-Trichlorobenzene	100	N.D.
3,3-Dichlorobenzidine	500	N.D.	2,4,5-Trichlorophenol	150	N.D.
2,4-Dichlorophenol	100	N.D.	2,4,6-Trichlorophenol	150	N.D.
Diethyl phthalate	100	N.D.			
2,4-Dimethylphenol	250	N.D.			

Analytes reported as N.D. were not present above the stated limit of detection.

Surrogate Standard Recoveries (Accept. Limits):	
2-Fluorophenol (25-121)	66%
Phenol-d6 (24-113)	66%
2,4,6-Tribromophenol (19-122)	74%
Nitrobenzene-d5 (23-120)	71%
2-Fluorobiphenyl (30-115)	78%
Terphenyl-d14 (18-137)	75%

DEL MAR ANALYTICAL, IRVINE (ELAP #1197)

Gary Steube
Laboratory Director

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Harding Lawson Associates
3 Hutton Centre, Suite 300
Santa Ana, CA 92707
Attention: Andrew Keller

Method Blank

Extracted: Aug 3-8, 19
Analyzed: Aug 3-9, 19
Reported: Aug 9, 1995
Matrix Solid

CALIFORNIA CODE OF REGULATIONS, TITLE 22 METALS

Analyte	EPA Method	STLC Max. Limit mg/L (ppm)	TTLC Max. Limit mg/Kg (ppm)	Detection Limit mg/Kg (ppm)		TTLC Sample Result mg/Kg (ppm)
Antimony	6010	15	500	5.0		N.D.
Arsenic	6010	5.0	500	1.0		N.D.
Barium	6010	100	10000	0.50		N.D.
Beryllium	6010	0.75	75	0.10		N.D.
Cadmium	6010	1.0	100	0.10		N.D.
Chromium, VI	7196	5.0	500	0.25		N.D.
Chromium, total	6010	560	2500	0.50		N.D.
Cobalt	6010	80	8000	0.50		N.D.
Copper	6010	25	2500	0.50		N.D.
Lead	6010	5.0	1000	1.0		N.D.
Mercury	7471	0.20	20	0.020		N.D.
Molybdenum	6010	350	3500	0.50		N.D.
Nickel	6010	20	2000	0.50		N.D.
Selenium	6010	1.0	100	1.0		N.D.
Silver	6010	5.0	500	0.50		N.D.
Thallium	6010	7.0	700	5.0		N.D.
Vanadium	6010	24	2400	0.50		N.D.
Zinc	6010	250	5000	0.50		N.D.

Analytes reported as N.D. were not present above the stated limit of detection.

DEL MAR ANALYTICAL, IRVINE (ELAP #1197)

Gary Steube
Laboratory Director

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MS/MSD DATA REPORT

EPA METHOD: 8240
Matrix: Soil

DATE: 8/8/95

SAMPLE #: EH00922

Analyte	R1	Sp	MS	MSD	PR1	PR2	RPD	MEAN PR
	ppb	ppb	ppb	ppb	%	%	%	%
Benzene	0	50	54	50	108%	100%	7.7%	104%
Chlorobenzene	0	50	46	48	92%	96%	4.3%	94%
1,1-Dichloroethane	0	50	58	58	116%	116%	0.0%	116%
1,2-Dichlororethane	0	50	55	49	110%	98%	11.5%	104%
1,1-Dichloroethene	0	50	33	52	66%	104%	44.7%	85%
Chloroform	0	50	49	46	98%	92%	6.3%	95%
Tetrachloroethene	0	50	40	40	80%	80%	0.0%	80%
Toluene	0	50	26	43	52%	86%	49.3%	69%
Trichloroethene	0	50	27	43	54%	86%	45.7%	70%
Vinyl Chloride	0	50	29	45	58%	90%	43.2%	74%

Definition of Terms:

R1..... Result of Sample Analysis

Sp..... Spike Concentration Added to Sample

MS..... Matrix Spike Result

MSD..... Matrix Spike Duplicate Result

PR1..... Percent Recovery of MS; ((MS-R1) / SP) X 100

PR2..... Percent Recovery of MSD; ((MSD-R1) / SP) X 100

RPD..... Relative Percent Difference; ((MS-MSD)/(MS+MSD)/2)) X 100

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MS/MSD DATA REPORT

EPA METHOD: **8270**
Matrix: Soil

DATE: 8/9/95

SAMPLE #: Blank

Analyte	R1	Sp	MS	MSD	PR1	PR2	RPD	MEAN PR
	ppb	ppb	ppb	ppb	%	%	%	%
1,4-Dichlorobenzene	0	50	27	31	54%	62%	13.8%	58%
n-nitroso-di-n-propylamine	0	50	27	31	54%	62%	13.8%	58%
1,2,4-Trichlorobenzene	0	50	32	35	64%	70%	9.0%	67%
Acenaphthene	0	50	35	38	70%	76%	8.2%	73%
2,4-Dinitrotoluene	0	50	27	32	54%	64%	16.9%	59%
Pyrene	0	50	35	35	70%	70%	0.0%	70%
4-Chloro-3-methylphenol	0	100	61	70	61%	70%	13.7%	66%
2-Chlorophenol	0	100	57	64	57%	64%	11.6%	61%
4-Nitrophenol	0	100	62	81	62%	81%	26.6%	72%
Pentachlorophenol	0	100	66	71	66%	71%	7.3%	69%
Phenol	0	100	58	62	58%	62%	6.7%	60%

Definition of Terms:

R1..... Result of Sample Analysis

Sp..... Spike Concentration Added to Sample

MS..... Matrix Spike Result

MSD..... Matrix Spike Duplicate Result

PR1..... Percent Recovery of MS; ((MS-R1) / SP) X 100

PR2..... Percent Recovery of MSD; ((MSD-R1) / SP) X 100

RPD..... Relative Percent Difference; ((MS-MSD)/(MS+MSD)/2)) X 100

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MS/MSD DATA REPORT

EPA METHOD: **3060/7196**
Matrix: Soil

DATE: 8/3/95

SAMPLE #: Blank

Analyte	R1	Sp	MS	MSD	PR1	PR2	RPD	MEAN PR
	ppb	ppb	ppb	ppb	%	%	%	%
Chromium (VI)	0	200	201	200	101%	100%	0.5%	100%

Definition of Terms:

R1..... Result of Sample Analysis

Sp..... Spike Concentration Added to Sample

MS..... Matrix Spike Result

MSD..... Matrix Spike Duplicate Result

PR1..... Percent Recovery of MS; ((MS-R1) / SP) X 100

PR2..... Percent Recovery of MSD; ((MSD-R1) / SP) X 100

RPD..... Relative Percent Difference; ((MS-MSD)/(MS+MSD)/2)) X 100

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MS/MSD DATA REPORT

EPA METHOD: **7471**
Matrix: Soil

DATE: 8/3/95

SAMPLE #: EH00252

Analyte	R1	Sp	MS	MSD	PR1	PR2	RPD	MEAN PR
	ppb	ppb	ppb	ppb	%	%	%	%
Mercury	1.5	8	9.8	10	104%	106%	2.0%	105%

Definition of Terms:

R1..... Result of Sample Analysis

Sp..... Spike Concentration Added to Sample

MS..... Matrix Spike Result

MSD..... Matrix Spike Duplicate Result

PR1..... Percent Recovery of MS; ((MS-R1) / SP) X 100

PR2..... Percent Recovery of MSD; ((MSD-R1) / SP) X 100

RPD..... Relative Percent Difference; ((MS-MSD)/(MS+MSD)/2)) X 100

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MS/MSD DATA REPORT

METHOD: **Metals**
Instrument: ICP
Matrix: SOIL

Date: 8/9/95

Sample #: Blank

Analyte	R1	SP	MS	MSD	PR1	PR2	RPD	MEAN PR
	ppb	ppb	ppb	ppb	%	%	%	%
Antimony	0	1000	903	930	90%	93%	2.9%	92%
Arsenic	0	1000	1058	1062	106%	106%	0.4%	106%
Barium	0	1000	1000	1019	100%	102%	1.9%	101%
Beryllium	0	1000	1052	1035	105%	104%	1.6%	104%
Cadmium	0	1000	960	983	96%	98%	2.4%	97%
Chromium	0	1000	1074	1071	107%	107%	0.3%	107%
Cobalt	0	1000	1066	1040	107%	104%	2.5%	105%
Copper	0	1000	1100	1129	110%	113%	2.6%	111%
Lead	0	1000	1063	1032	106%	103%	3.0%	105%
Molybdenum	0	1000	1082	1107	108%	111%	2.3%	109%
Nickel	0	1000	1043	1044	104%	104%	0.1%	104%
Selenium	0	1000	976	936	98%	94%	4.2%	96%
Silver	0	1000	1000	1000	100%	100%	0.0%	100%
Thallium	0	1000	1058	1181	106%	118%	11.0%	112%
Vanadium	0	1000	1102	1054	110%	105%	4.5%	108%
Zinc	0	1000	968	998	97%	100%	3.1%	98%

R1..... ..... Result of Sample Analysis
Sp..... ..... Spike Concentration Added to Sample
MS..... ..... Matrix Spike Result
MSD..... ..... Matrix Spike Duplicate Result
PR1..... ..... Percent Recovery of MS; ((MS-R1) / SP) X 100
PR2..... ..... Percent Recovery of MSD; ((MSD-R1) / SP) X 100
RPD..... ..... Relative Percent Difference; ((MS-MSD)/(MS+MSD)/2)) X 100

Del Mar Analytical

Harding Lawson Associates
3 Hutton Centre Drive, Suite 200
Santa Ana, California 92707
714/556-7992 - 213/617-7232
FAX: 714/662-3297

CHAIN OF CUSTODY FORM

Lab: DEL MAR

Samplers: CEBALLOS
PAWSON

Job Number: 32026-40

Name/Location: OMEGA / WHITTIER

Project Manager: A. KELLER

Recorder: Hardesty
(Signature Required)

SOURCE CODE	MATRIX: Wood	Water	Sediment	Soil	Oil	#CONTAINERS & PRESERV.: Unpres.	H_2SO_4	HNO_3	Ass. Bag	SAMPLE NUMBER OR LAB NUMBER: Yr	Wk	Seq	DATE: Yr	Mo	Dy	Time	STATION DESCRIPTION/ NOTES	ANALYSIS REQUESTED: EPA 601/8010	EPA 602/8020	EPA 624/8240	EPA 625/8270	Priority Pllnt. Metals	Benzene/Toluene/Xylene	Total Petrol. Hydrocarb.	17 CAM METALS
	X								1	PALLETS			95	07	27	0700	PALLETS			X	X				X

LAB NUMBER: Yr	Wk	Seq	DEPTH IN FEET	COL MTD CD	QA CODE	MISCELLANEOUS
						NORMAL TAT FAX RESULTS TO JIM HARDESTY @ 310-907-9826

CHAIN OF CUSTODY RECORD

RELINQUISHED BY: (Signature) 1625 Hardesty 7/27/95	RECEIVED BY: (Signature)	DATE/TIME 7/27/95 1625
RELINQUISHED BY: (Signature) 1625 7/27/95	RECEIVED BY: (Signature)	DATE/TIME
RELINQUISHED BY: (Signature)	RECEIVED BY: (Signature)	DATE/TIME
RELINQUISHED BY: (Signature)	RECEIVED BY: (Signature)	DATE/TIME
DISPATCHED BY: (Signature) DATE/TIME	RECEIVED FOR LAB BY: (Signature)	DATE/TIME 7/27/95 1625
METHOD OF SHIPMENT hand delivered		

Laboratory Copy — Project Office Copy — Field or Office Copy

6533

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2465 W. 12th St., Suite 1, Tempe, AZ 85281 (602) 968-8272 FAX (602) 968-1338

Harding Lawson Associates
3 Hutton Centre, Suite 300
Santa Ana, CA 92707
Attention: Andrew Keller

Client Project ID: 32026-40
Omega/Whittier
Sample Descript: TCLP Extract of a Solid, Pallets
Lab Number: EH01405

Sampled: Jul 27, 1995
Received: Jul 27, 1995
Extracted: Aug 13-14, 1995
Analyzed: Aug 14, 1995
Reported: Aug 14, 1995

TCLP METALS

Analyte	EPA Method	TCLP Max. Limit mg/L (ppm)	Detection Limit mg/L (ppm)		Sample Result mg/L (ppm)
Cadmium	6010	1.0	0.10		N.D.
Chromium	6010	5.0	0.50		N.D.
Lead	6010	5.0	0.50		N.D.
Mercury	7470	0.20	0.020		N.D.

Prior to analysis the sample was extracted using EPA method 1311.

Analytes reported as N.D. were not present above the stated limit of detection.

DEL MAR ANALYTICAL, IRVINE (ELAP #1197)

Gary Steube
Laboratory Director

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Harding Lawson Associates
3 Hutton Centre, Suite 300
Santa Ana, CA 92707
Attention: Andrew Keller

Client Project ID: 32026-40
Omega/Whittier
Sample Descript: TCLP Extract of a Solid, Pallets
Lab Number: EH01405

Sampled: Jul 27, 1995
Received: Jul 27, 1995
Extracted: Aug 10, 1995
Analyzed: Aug 14, 1995
Reported: Aug 14, 1995

TCLP VOLATILE ORGANIC COMPOUNDS by GC/MS (EPA 1311/8240)

Analyte	Detection Limit mg/L (ppm)		Sample Result mg/L (ppm)
Methyl ethyl ketone (2-Butanone)	20	.....	N.D.
1,1,1-Trichloroethane	0.050	.....	N.D.
Total Xylenes	0.050	.....	N.D.

Analytes reported as N.D. were not present above the stated limit of detection.

DEL MAR ANALYTICAL, IRVINE (ELAP #1197)

Gary Steube
Laboratory Director

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Harding Lawson Associates
3 Hutton Centre, Suite 300
Santa Ana, CA 92707
Attention: Andrew Keller

Method Blank

Extracted: Aug 13-14, 1995
Analyzed: Aug 14, 1995
Reported: Aug 14, 1995
Matrix: Extract

TCLP METALS

Analyte	EPA Method	TCLP Max. Limit mg/L (ppm)	Detection Limit mg/L (ppm)		Sample Result mg/L (ppm)
Cadmium	6010	1.0	0.10		N.D.
Chromium	6010	5.0	0.50		N.D.
Lead	6010	5.0	0.50		N.D.
Mercury	7470	0.20	0.020		N.D.

Prior to analysis the sample was extracted using EPA method 1311.

Analytes reported as N.D. were not present above the stated limit of detection.

DEL MAR ANALYTICAL, IRVINE (ELAP #1197)

Gary Steube
Laboratory Director

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Harding Lawson Associates
3 Hutton Centre, Suite 300
Santa Ana, CA 92707
Attention: Andrew Keller

Method Blank

Extracted: Aug 10, 199
Analyzed: Aug 14, 1995
Reported: Aug 14, 1995
Matrix: Extract

TCLP VOLATILE ORGANIC COMPOUNDS by GC/MS (EPA 1311/8240)

Analyte	Detection Limit mg/L (ppm)	Sample Result mg/L (ppm)
Methyl ethyl ketone (2-Butanone)	20	N.D.
1,1,1-Trichloroethane	0.050	N.D.
Total Xylenes	0.050	N.D.

Analytes reported as N.D. were not present above the stated limit of detection.

DEL MAR ANALYTICAL, IRVINE (ELAP #1197)

Gary Steube
Laboratory Director

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3 Hutton Centre Drive, Suite 200
Santa Ana, California 92707
714/556-7992 – 213/617-7232
FAX: 714/662-3297

CHAIN OF CUSTODY FORM

Lab: DEL MAR

Samplers: CEBALLOS
PAWSON

Job Number: 32026-40
Name/Location: OMEGA/WHITTIER
Project Manager: A. KELLER
Recorder: Hardesty (Signature Required)

SOURCE CODE	MATRIX: Wood	Water	Sediment	Soil	Oil	#CONTAINERS & PRESERV.: Unpres.	H_2SO_4	HNO_3	Ass. Ag	SAMPLE NUMBER OR LAB NUMBER: Yr	Wk	Seq	DATE: Yr	Mo	Dy	Time	STATION DESCRIPTION/ NOTES	ANALYSIS REQUESTED: EPA 601/8010	EPA 602/8020	EPA 624/8240	EPA 625/8270	Priority Pllnt. Metals	Benzene/Toluene/Xylene	Total Petrol. Hydrocarb.	17 CAM METALS
	X								–	P	A	L	L	E	T	S	9 5 0 7 2 7 0 7 0 0	PALLETS			X	X			X

LAB NUMBER: Yr	Wk	Seq	DEPTH IN FEET	COL MTD CD	QA CODE	MISCELLANEOUS
						NORMAL TAT FAX RESULTS TO JIM HARDESTY @ 310-907-9826

CHAIN OF CUSTODY RECORD

RELINQUISHED BY: (Signature) 1025 Hardesty 7/27/95	RECEIVED BY: (Signature)	DATE/TIME 7/27/95 1025
RELINQUISHED BY: (Signature) 1625 7/27/95	RECEIVED BY: (Signature)	DATE/TIME
RELINQUISHED BY: (Signature)	RECEIVED BY: (Signature)	DATE/TIME
RELINQUISHED BY: (Signature)	RECEIVED BY: (Signature)	DATE/TIME
DISPATCHED BY: (Signature) DATE/TIME	RECEIVED FOR LAB BY: (Signature)	DATE/TIME 7/27/95 1625
METHOD OF SHIPMENT hand delivered	intact/room temp ✓	

Laboratory Copy — Project Office Copy — Field or Office Copy

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2465 W. 12th St., Suite 1, Tempe, AZ 85281 (602) 968-8272 FAX (602) 968-1338

Harding Lawson Associates
3 Hutton Centre, Suite 300
Santa Ana, CA 92707
Attention: Andrew Keller

Client Project ID: 32026-41
Omega/Whittier
Sample Descript: TCLP Extract of a Solid, PPE-Composite
Lab Number: EH01406

Sampled: Jul 27, 1995
Received: Jul 27, 1995
Extracted: Aug 13, 1995
Analyzed: Aug 14, 1995
Reported: Aug 14, 1995

TCLP METALS

Analyte	EPA Method	TCLP Max. Limit mg/L (ppm)	Detection Limit mg/L (ppm)	Sample Result mg/L (ppm)
Cadmium	6010	1.0	0.10	N.D.
Chromium	6010	5.0	0.50	N.D.
Lead	6010	5.0	0.50	N.D.

Prior to analysis the sample was extracted using EPA method 1311.

Analytes reported as N.D. were not present above the stated limit of detection.

DEL MAR ANALYTICAL, IRVINE (ELAP #1197)

Gary Steube
Laboratory Director

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Harding Lawson Associates
3 Hutton Centre, Suite 300
Santa Ana, CA 92707
Attention: Andrew Keller

Method Blank

Extracted: Aug 13, 199
Analyzed: Aug 14, 1995
Reported: Aug 14, 1995
Matrix: Extract

TCLP METALS

Analyte	EPA Method	TCLP Max. Limit mg/L (ppm)	Detection Limit mg/L (ppm)		Sample Result mg/L (ppm)
Cadmium	6010	1.0	0.10	.....	N.D.
Chromium	6010	5.0	0.50	.....	N.D.
Lead	6010	5.0	0.50	.....	N.D.

Prior to analysis the sample was extracted using EPA method 1311.

Analytes reported as N.D. were not present above the stated limit of detection.

DEL MAR ANALYTICAL, IRVINE (ELAP #1197)

Gary Steube
Laboratory Director

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714/556-7992 - 213/617-7232
FAX: 714/662-3297

CHAIN OF CUSTODY FORM

Lab: DEL MAR

Samplers: CEBALLOS
PAWSON

Job Number: 32026-41
Name/Location: OMEGA/WHITTIER
Project Manager: A. KELLER
Recorder: Hardesty (Signature Required)

SOURCE CODE	MATRIX: Misc	Water	Sediment	Soil	Oil	#CONTAINERS & PRESERV.: Unpres.	H_2SO_4	HNO_3	Ascorbic Acid	SAMPLE NUMBER OR LAB NUMBER: Yr	Wk	Seq	DATE: Yr	Mo	Dy	Time	STATION DESCRIPTION/ NOTES	ANALYSIS REQUESTED: EPA 601/8010	EPA 602/8020	EPA 624/8240	EPA 625/8270	Priority Pllnt. Metals	Benzene/Toluene/Xylene	Total Petrol. Hydrocarb.	17 CAM METALS
	X								-	P	P	E	9	5	0	7	PPE - COMPOSITE			X	X				

LAB NUMBER: Yr	Wk	Seq	DEPTH IN FEET	COL MTD CD	QA CODE	MISCELLANEOUS
						NORMAL TAT FAX RESULTS TO JIM HARDESTY @ 310-907-9826

CHAIN OF CUSTODY RECORD

RELINQUISHED BY: (Signature) 1025 Hardesty 7/27/95	RECEIVED BY: (Signature) 7/27/95	DATE/TIME 1025
RELINQUISHED BY: (Signature) 1625 7/27/95	RECEIVED BY: (Signature)	DATE/TIME
RELINQUISHED BY: (Signature)	RECEIVED BY: (Signature)	DATE/TIME
RELINQUISHED BY: (Signature)	RECEIVED BY: (Signature)	DATE/TIME
DISPATCHED BY: (Signature) DATE/TIME	RECEIVED FOR LAB BY: (Signature)	DATE/TIME 7/27/95 1625
METHOD OF SHIPMENT: hand delivered intact/room temp		

Laboratory Copy (White) Project Office Copy (Yellow) Field or Office Copy (Pink)

6533

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2465 W. 12th St., Suite 1, Tempe, AZ 85281 (602) 968-8272 FAX (602) 968-1338

Harding Lawson Associates
3 Hutton Centre, Suite 300
Santa Ana, CA 92707
Attention: Andrew Keller

Client Project ID: 32026-41
Omega/Whittier
Sample Descript: Solid, PPE-Composite
Lab Number: EG03283

Sampled: Jul 27, 1995
Received: Jul 27, 1995
Extracted: Aug 7, 1995
Analyzed: Aug 7, 1995
Reported: Aug 10, 1995

VOLATILE ORGANICS by GC/MS (EPA 8240)

Analyte	Detection Limit µg/Kg (ppb)	Sample Result µg/Kg (ppb)
Acetone	**25**	**640**
Benzene	5.0	N.D.
Bromodichloromethane	5.0	N.D.
Bromoform	5.0	N.D.
Bromomethane	13	N.D.
2-Butanone	25	N.D.
Carbon disulfide	13	N.D.
Carbon tetrachloride	13	N.D.
Chlorobenzene	5.0	N.D.
Chlorodibromomethane	5.0	N.D.
Chloroethane	13	N.D.
2-Chloroethyl vinyl ether	5.0	N.D.
Chloroform	5.0	N.D.
Chloromethane	13	N.D.
1,1-Dichloroethane	5.0	N.D.
1,2-Dichloroethane	5.0	N.D.
1,1-Dichloroethene	13	N.D.
cis-1,2-Dichloroethene	5.0	N.D.
trans-1,2-Dichloroethene	5.0	N.D.
1,2-Dichloropropane	5.0	N.D.
cis-1,3-Dichloropropene	5.0	N.D.
trans-1,3-Dichloropropene	5.0	N.D.
Ethylbenzene	5.0	N.D.
2-Hexanone	25	N.D.
Methylene chloride	**25**	**55**
4-Methyl-2-pentanone	13	N.D.
Styrene	5.0	N.D.
1,1,2,2-Tetrachloroethane	5.0	N.D.
Tetrachloroethene	**5.0**	**9.3**
Toluene	5.0	N.D.
1,1,1-Trichloroethane	5.0	N.D.
1,1,2-Trichloroethane	5.0	N.D.
Trichloroethene	5.0	N.D.
Trichlorofluoromethane	13	N.D.
Vinyl acetate	13	N.D.
Vinyl chloride	13	N.D.
Total Xylenes	**5.0**	**13**

Analytes reported as N.D. were not present above the stated limit of detection. Due to matrix effects and/or other factors, the sample required dilution. Detection limits for this sample have been raised by a factor of 2.5.

DEL MAR ANALYTICAL, IRVINE (ELAP #1197)

Gary Steube
Laboratory Director

Surrogate Standard Recoveries (Accept. Limits):	
1,2-Dichloroethane-d4 (70-121)	91%
Toluene-d8 (81-117)	99%
4-Bromofluorobenzene (74-121)	98%

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Harding Lawson Associates
3 Hutton Centre, Suite 300
Santa Ana, CA 92707
Attention: Andrew Keller

Client Project ID: 32026-41
Omega/Whittier
Sample Descript: Solid, PPE-Composite
Lab Number: EG03283

Sampled: Jul 27, 19[illegible]
Received: Jul 27, 1995
Extracted: Aug 4, 1995
Analyzed: Aug 9, 1995
Reported: Aug 10, 1995

SEMI-VOLATILE ORGANICS by GC/MS (EPA 3550/8270)

Analyte	Detection Limit µg/Kg (ppb)	Sample Result µg/Kg (ppb)	Analyte	Detection Limit µg/Kg (ppb)	Sample Result µg/Kg (ppb)
Acenaphthene	4,000,000	N.D.	Dimethyl phthalate	4,000,000	N.D.
Acenaphthylene	4,000,000	N.D.	4,6-Dinitro-2-methylphenol	10,000,000	N.D.
Aniline	6,000,000	N.D.	2,4-Dinitrophenol	10,000,000	N.D.
Anthracene	4,000,000	N.D.	2,4-Dinitrotoluene	4,000,000	N.D.
Azobenzene	6,000,000	N.D.	2,6-Dinitrotoluene	4,000,000	N.D.
Benzidine	40,000,000	N.D.	Di-N-octyl phthalate	20,000,000	N.D.
Benzoic Acid	20,000,000	N.D.	Fluoranthene	4,000,000	N.D.
Benz(a)anthracene	4,000,000	N.D.	Fluorene	4,000,000	N.D.
Benzo(b)fluoranthene	8,000,000	N.D.	Hexachlorobenzene	4,000,000	N.D.
Benzo(k)fluoranthene	8,000,000	N.D.	Hexachlorobutadiene	4,000,000	N.D.
Benzo(g,h,i)perylene	6,000,000	N.D.	Hexachlorocyclopentadiene	20,000,000	N.D.
Benzo(a)pyrene	8,000,000	N.D.	Hexachloroethane	8,000,000	N.D.
Benzyl alcohol	8,000,000	N.D.	Indeno(1,2,3-cd)pyrene	8,000,000	N.D.
Bis(2-chloroethoxy)methane	4,000,000	N.D.	Isophorone	4,000,000	N.D.
Bis(2-chloroethyl)ether	4,000,000	N.D.	2-Methylnaphthalene	4,000,000	N.D.
Bis(2-chloroisopropyl)ether	4,000,000	N.D.	2-Methylphenol	6,000,000	N.D.
Bis(2-ethylhexyl)phthalate	**10,000,000**	**110,000,000**	4-Methylphenol	6,000,000	N.D.
4-Bromophenyl phenyl ether	6,000,000	N.D.	Naphthalene	6,000,000	N.D.
Butyl benzyl phthalate	20,000,000	N.D.	2-Nitroaniline	8,000,000	N.D.
4-Chloroaniline	4,000,000	N.D.	3-Nitroaniline	8,000,000	N.D.
2-Chloronaphthalene	4,000,000	N.D.	4-Nitroaniline	20,000,000	N.D.
4-Chloro-3-methylphenol	4,000,000	N.D.	Nitrobenzene	20,000,000	N.D.
2-Chlorophenol	10,000,000	N.D.	2-Nitrophenol	4,000,000	N.D.
4-Chlorophenyl phenyl ether	4,000,000	N.D.	4-Nitrophenol	20,000,000	N.D.
Chrysene	4,000,000	N.D.	N-Nitrosodiphenylamine	8,000,000	N.D.
Dibenz(a,h)anthracene	10,000,000	N.D.	N-Nitroso-di-N-propylamine	6,000,000	N.D.
Dibenzofuran	4,000,000	N.D.	Pentachlorophenol	20,000,000	N.D.
Di-N-butyl phthalate	10,000,000	N.D.	Phenanthrene	4,000,000	N.D.
1,3-Dichlorobenzene	4,000,000	N.D.	Phenol	6,000,000	N.D.
1,4-Dichlorobenzene	4,000,000	N.D.	Pyrene	6,000,000	N.D.
1,2-Dichlorobenzene	4,000,000	N.D.	1,2,4-Trichlorobenzene	4,000,000	N.D.
3,3-Dichlorobenzidine	20,000,000	N.D.	2,4,5-Trichlorophenol	6,000,000	N.D.
2,4-Dichlorophenol	4,000,000	N.D.	2,4,6-Trichlorophenol	6,000,000	N.D.
Diethyl phthalate	4,000,000	N.D.			
2,4-Dimethylphenol	10,000,000	N.D.			

Analytes reported as N.D. were not present above the stated limit of detection. Due to matrix effects and/or other factors, the sample required dilution. Detection limits for this sample have been raised by a factor of 40000.

DEL MAR ANALYTICAL, IRVINE (ELAP #1197)

Gary Steube
Laboratory Director

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Harding Lawson Associates
3 Hutton Centre, Suite 300
Santa Ana, CA 92707
Attention: Andrew Keller

Client Project ID: 32026-41
Omega/Whittier
Sample Descript: Solid, PPE-Composite
Lab Number: EG03283

Sampled: Jul 27, 1995
Received: Jul 27, 1995
Extracted: Aug 3-9, 1995
Analyzed: Aug 3-9, 1995
Reported: Aug 9, 1995

CALIFORNIA CODE OF REGULATIONS, TITLE 22 METALS

Analyte	EPA Method	STLC Max. Limit mg/L (ppm)	TTLC Max. Limit mg/Kg (ppm)	Detection Limit mg/Kg (ppm)		TTLC Sample Result mg/Kg (ppm)
Antimony	6010	15	500	5.0		N.D.
Arsenic	6010	5.0	500	1.0		N.D.
Barium	6010	100	10000	0.50		12
Beryllium	6010	0.75	75	0.10		N.D.
Cadmium	6010	1.0	100	0.10		3.0
Chromium, VI	7196	5.0	500	0.25		N.D.
Chromium, total	6010	560	2500	0.50		5.2
Cobalt	6010	80	8000	0.50		N.D.
Copper	6010	25	2500	0.50		4.2
Lead	6010	5.0	1000	1.0		31
Mercury	7471	0.20	20	0.020		0.056
Molybdenum	6010	350	3500	0.50		N.D.
Nickel	6010	20	2000	0.50		1.2
Selenium	6010	1.0	100	1.0		N.D.
Silver	6010	5.0	500	0.50		N.D.
Thallium	6010	7.0	700	5.0		N.D.
Vanadium	6010	24	2400	0.50		N.D.
Zinc	6010	250	5000	0.50		1,200

Analytes reported as N.D. were not present above the stated limit of detection.

DEL MAR ANALYTICAL, IRVINE (ELAP #1197)

Gary Steube
Laboratory Director

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2465 W. 12th St., Suite 1, Tempe, AZ 85281 (602) 968-8272 FAX (602) 968-1338

Harding Lawson Associates
3 Hutton Centre, Suite 300
Santa Ana, CA 92707
Attention: Andrew Keller

Method Blank

Extracted: Aug 7, 19
Analyzed: Aug 7, 1995
Reported: Aug 10, 1995
Matrix: Solid

VOLATILE ORGANICS by GC/MS (EPA 8240)

Analyte	Detection Limit µg/Kg (ppb)	Sample Result µg/Kg (ppb)
Acetone	10	N.D.
Benzene	2.0	N.D.
Bromodichloromethane	2.0	N.D.
Bromoform	2.0	N.D.
Bromomethane	5.0	N.D.
2-Butanone	10	N.D.
Carbon disulfide	5.0	N.D.
Carbon tetrachloride	5.0	N.D.
Chlorobenzene	2.0	N.D.
Chlorodibromomethane	2.0	N.D.
Chloroethane	5.0	N.D.
2-Chloroethyl vinyl ether	2.0	N.D.
Chloroform	2.0	N.D.
Chloromethane	5.0	N.D.
1,1-Dichloroethane	2.0	N.D.
1,2-Dichloroethane	2.0	N.D.
1,1-Dichloroethene	5.0	N.D.
cis-1,2-Dichloroethene	2.0	N.D.
trans-1,2-Dichloroethene	2.0	N.D.
1,2-Dichloropropane	2.0	N.D.
cis-1,3-Dichloropropene	2.0	N.D.
trans-1,3-Dichloropropene	2.0	N.D.
Ethylbenzene	2.0	N.D.
2-Hexanone	10	N.D.
Methylene chloride	10	N.D.
4-Methyl-2-pentanone	5.0	N.D.
Styrene	2.0	N.D.
1,1,2,2-Tetrachloroethane	2.0	N.D.
Tetrachloroethene	2.0	N.D.
Toluene	2.0	N.D.
1,1,1-Trichloroethane	2.0	N.D.
1,1,2-Trichloroethane	2.0	N.D.
Trichloroethene	2.0	N.D.
Trichlorofluoromethane	5.0	N.D.
Vinyl acetate	5.0	N.D.
Vinyl chloride	5.0	N.D.
Total Xylenes	2.0	N.D.

Analytes reported as N.D. were not present above the stated limit of detection.

DEL MAR ANALYTICAL, IRVINE (ELAP #1197)

Gary Steube
Laboratory Director

Surrogate Standard Recoveries (Accept. Limits):	
1,2-Dichloroethane-d4 (70-121)	90%
Toluene-d8 (81-117)	91%
4-Bromofluorobenzene (74-121)	90%

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Harding Lawson Associates
3 Hutton Centre, Suite 300
Santa Ana, CA 92707
Attention: Andrew Keller

Method Blank

Extracted: Aug 4, 1995
Analyzed: Aug 9, 1995
Reported: Aug 10, 1995
Matrix Solid

SEMI-VOLATILE ORGANICS by GC/MS (EPA 3550/8270)

Analyte	Detection Limit µg/Kg (ppb)	Sample Result µg/Kg (ppb)	Analyte	Detection Limit µg/Kg (ppb)	Sample Result µg/Kg (ppb)
Acenaphthene	100	N.D.	Dimethyl phthalate	100	N.D.
Acenaphthylene	100	N.D.	4,6-Dinitro-2-methylphenol	250	N.D.
Aniline	150	N.D.	2,4-Dinitrophenol	250	N.D.
Anthracene	100	N.D.	2,4-Dinitrotoluene	100	N.D.
Azobenzene	150	N.D.	2,6-Dinitrotoluene	100	N.D.
Benzidine	1,000	N.D.	Di-N-octyl phthalate	500	N.D.
Benzoic Acid	500	N.D.	Fluoranthene	100	N.D.
Benz(a)anthracene	100	N.D.	Fluorene	100	N.D.
Benzo(b)fluoranthene	200	N.D.	Hexachlorobenzene	100	N.D.
Benzo(k)fluoranthene	200	N.D.	Hexachlorobutadiene	100	N.D.
Benzo(g,h,i)perylene	150	N.D.	Hexachlorocyclopentadiene	500	N.D.
Benzo(a)pyrene	200	N.D.	Hexachloroethane	200	N.D.
Benzyl alcohol	200	N.D.	Indeno(1,2,3-cd)pyrene	200	N.D.
Bis(2-chloroethoxy)methane	100	N.D.	Isophorone	100	N.D.
Bis(2-chloroethyl)ether	100	N.D.	2-Methylnaphthalene	100	N.D.
Bis(2-chloroisopropyl)ether	100	N.D.	2-Methylphenol	150	N.D.
Bis(2-ethylhexyl)phthalate	250	N.D.	4-Methylphenol	150	N.D.
4-Bromophenyl phenyl ether	150	N.D.	Naphthalene	150	N.D.
Butyl benzyl phthalate	500	N.D.	2-Nitroaniline	200	N.D.
4-Chloroaniline	100	N.D.	3-Nitroaniline	200	N.D.
2-Chloronaphthalene	100	N.D.	4-Nitroaniline	500	N.D.
4-Chloro-3-methylphenol	100	N.D.	Nitrobenzene	500	N.D.
2-Chlorophenol	250	N.D.	2-Nitrophenol	100	N.D.
4-Chlorophenyl phenyl ether	100	N.D.	4-Nitrophenol	500	N.D.
Chrysene	100	N.D.	N-Nitrosodiphenylamine	200	N.D.
Dibenz(a,h)anthracene	250	N.D.	N-Nitroso-di-N-propylamine	150	N.D.
Dibenzofuran	100	N.D.	Pentachlorophenol	500	N.D.
Di-N-butyl phthalate	250	N.D.	Phenanthrene	100	N.D.
1,3-Dichlorobenzene	100	N.D.	Phenol	150	N.D.
1,4-Dichlorobenzene	100	N.D.	Pyrene	150	N.D.
1,2-Dichlorobenzene	100	N.D.	1,2,4-Trichlorobenzene	100	N.D.
3,3-Dichlorobenzidine	500	N.D.	2,4,5-Trichlorophenol	150	N.D.
2,4-Dichlorophenol	100	N.D.	2,4,6-Trichlorophenol	150	N.D.
Diethyl phthalate	100	N.D.			
2,4-Dimethylphenol	250	N.D.			

Analytes reported as N.D. were not present above the stated limit of detection.

Surrogate Standard Recoveries (Accept. Limits):	
2-Fluorophenol (25-121)	66%
Phenol-d6 (24-113)	66%
2,4,6-Tribromophenol (19-122)	74%
Nitrobenzene-d5 (23-120)	71%
2-Fluorobiphenyl (30-115)	78%
Terphenyl-d14 (18-137)	75%

DEL MAR ANALYTICAL, IRVINE (ELAP #1197)

Gary Steube
Laboratory Director

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Harding Lawson Associates
3 Hutton Centre, Suite 300
Santa Ana, CA 92707
Attention: Andrew Keller

Method Blank

Extracted: Aug 3-9, 19[redacted]
Analyzed: Aug 3-9, 1995
Reported: Aug 9, 1995
Matrix Solid

CALIFORNIA CODE OF REGULATIONS, TITLE 22 METALS

Analyte	EPA Method	STLC Max. Limit mg/L (ppm)	TTLC Max. Limit mg/Kg (ppm)	Detection Limit mg/Kg (ppm)		TTLC Sample Result mg/Kg (ppm)
Antimony	6010	15	500	5.0	.....	N.D.
Arsenic	6010	5.0	500	1.0	.....	N.D.
Barium	6010	100	10000	0.50	.....	N.D.
Beryllium	6010	0.75	75	0.10	.....	N.D.
Cadmium	6010	1.0	100	0.10	.....	N.D.
Chromium, VI	7196	5.0	500	0.25	.....	N.D.
Chromium, total	6010	560	2500	0.50	.....	N.D.
Cobalt	6010	80	8000	0.50	.....	N.D.
Copper	6010	25	2500	0.50	.....	N.D.
Lead	6010	5.0	1000	1.0	.....	N.D.
Mercury	7471	0.20	20	0.020	.....	N.D.
Molybdenum	6010	350	3500	0.50	.....	N.D.
Nickel	6010	20	2000	0.50	.....	N.D.
Selenium	6010	1.0	100	1.0	.....	N.D.
Silver	6010	5.0	500	0.50	.....	N.D.
Thallium	6010	7.0	700	5.0	.....	N.D.
Vanadium	6010	24	2400	0.50	.....	N.D.
Zinc	6010	250	5000	0.50	.....	N.D.

Analytes reported as N.D. were not present above the stated limit of detection.

DEL MAR ANALYTICAL, IRVINE (ELAP #1197)

Gary Steube
Laboratory Director

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MS/MSD DATA REPORT

METHOD: **Metals**
Instrument: ICP
Matrix: SOIL

Date: 8/9/95

Sample #: Blank

Analyte	R1	SP	MS	MSD	PR1	PR2	RPD	MEAN PR
	ppb	ppb	ppb	ppb	%	%	%	%
Antimony	0	1000	903	930	90%	93%	2.9%	92%
Arsenic	0	1000	1058	1062	106%	106%	0.4%	106%
Barium	0	1000	1000	1019	100%	102%	1.9%	101%
Beryllium	0	1000	1052	1035	105%	104%	1.6%	104%
Cadmium	0	1000	960	983	96%	98%	2.4%	97%
Chromium	0	1000	1074	1071	107%	107%	0.3%	107%
Cobalt	0	1000	1066	1040	107%	104%	2.5%	105%
Copper	0	1000	1100	1129	110%	113%	2.6%	111%
Lead	0	1000	1063	1032	106%	103%	3.0%	105%
Molybdenum	0	1000	1082	1107	108%	111%	2.3%	109%
Nickel	0	1000	1043	1044	104%	104%	0.1%	104%
Selenium	0	1000	976	936	98%	94%	4.2%	96%
Silver	0	1000	1000	1000	100%	100%	0.0%	100%
Thallium	0	1000	1058	1181	106%	118%	11.0%	112%
Vanadium	0	1000	1102	1054	110%	105%	4.5%	108%
Zinc	0	1000	968	998	97%	100%	3.1%	98%

R1..... ..... Result of Sample Analysis
Sp..... ..... Spike Concentration Added to Sample
MS..... ..... Matrix Spike Result
MSD..... ..... Matrix Spike Duplicate Result
PR1..... ..... Percent Recovery of MS; ((MS-R1) / SP) X 100
PR2..... ..... Percent Recovery of MSD; ((MSD-R1) / SP) X 100
RPD..... ..... Relative Percent Difference; ((MS-MSD)/(MS+MSD)/2)) X 100

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MS/MSD DATA REPORT

EPA METHOD: **3060/7196**
Matrix: Soil

DATE: 8/3/95

SAMPLE #: Blank

Analyte	R1	Sp	MS	MSD	PR1	PR2	RPD	MEAN PR
	ppb	ppb	ppb	ppb	%	%	%	%
Chromium (VI)	0	200	201	200	101%	100%	0.5%	100%

Definition of Terms:

R1..... Result of Sample Analysis

Sp..... Spike Concentration Added to Sample

MS..... Matrix Spike Result

MSD..... Matrix Spike Duplicate Result

PR1..... Percent Recovery of MS; ((MS-R1) / SP) X 100

PR2..... Percent Recovery of MSD; ((MSD-R1) / SP) X 100

RPD..... Relative Percent Difference; ((MS-MSD)/(MS+MSD)/2)) X 100

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MS/MSD DATA REPORT

EPA METHOD: **7471**
Matrix: Soil

DATE: 8/3/95

SAMPLE #: EH00252

Analyte	R1	Sp	MS	MSD	PR1	PR2	RPD	MEAN PR
	ppb	ppb	ppb	ppb	%	%	%	%
Mercury	1.5	8	9.8	10	104%	106%	2.0%	105%

Definition of Terms:

R1..... Result of Sample Analysis

Sp..... Spike Concentration Added to Sample

MS..... Matrix Spike Result

MSD..... Matrix Spike Duplicate Result

PR1..... Percent Recovery of MS; ((MS-R1) / SP) X 100

PR2..... Percent Recovery of MSD; ((MSD-R1) / SP) X 100

RPD..... Relative Percent Difference; ((MS-MSD)/(MS+MSD)/2)) X 100

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MS/MSD DATA REPORT

EPA METHOD: **8270**
Matrix: Soil

DATE: 8/9/95

SAMPLE #: Blank

Analyte	R1	Sp	MS	MSD	PR1	PR2	RPD	MEAN PR
	ppb	ppb	ppb	ppb	%	%	%	%
1,4-Dichlorobenzene	0	50	27	31	54%	62%	13.8%	58%
n-nitroso-di-n-propylamine	0	50	27	31	54%	62%	13.8%	58%
1,2,4-Trichlorobenzene	0	50	32	35	64%	70%	9.0%	67%
Acenaphthene	0	50	35	38	70%	76%	8.2%	73%
2,4-Dinitrotoluene	0	50	27	32	54%	64%	16.9%	59%
Pyrene	0	50	35	35	70%	70%	0.0%	70%
4-Chloro-3-methylphenol	0	100	61	70	61%	70%	13.7%	66%
2-Chlorophenol	0	100	57	64	57%	64%	11.6%	61%
4-Nitrophenol	0	100	62	81	62%	81%	26.6%	72%
Pentachlorophenol	0	100	66	71	66%	71%	7.3%	69%
Phenol	0	100	58	62	58%	62%	6.7%	60%

Definition of Terms:

R1..... **Result of Sample Analysis**

Sp..... **Spike Concentration Added to Sample**

MS..... **Matrix Spike Result**

MSD..... **Matrix Spike Duplicate Result**

PR1..... **Percent Recovery of MS; ((MS-R1) / SP) X 100**

PR2..... **Percent Recovery of MSD; ((MSD-R1) / SP) X 100**

RPD..... **Relative Percent Difference; ((MS-MSD)/(MS+MSD)/2)) X 100**

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MS/MSD DATA REPORT

EPA METHOD: 8240
Matrix: Soil

DATE: 8/7/95

SAMPLE #: EH00141

Analyte	R1	Sp	MS	MSD	PR1	PR2	RPD	MEAN PR
	ppb	ppb	ppb	ppb	%	%	%	%
Benzene	0	50	35	40	70%	80%	13.3%	75%
Chlorobenzene	0	50	38	44	76%	88%	14.6%	82%
1,1-Dichloroethane	0	50	32	37	64%	74%	14.5%	69%
1,2-Dichlororethane	0	50	36	41	72%	82%	13.0%	77%
1,1-Dichloroethene	0	50	34	39	68%	78%	13.7%	73%
Chloroform	0	50	32	36	64%	72%	11.8%	68%
Tetrachloroethene	0	50	37	43	74%	86%	15.0%	80%
Toluene	0	50	34	39	68%	78%	13.7%	73%
Trichloroethene	0	50	35	41	70%	82%	15.8%	76%
Vinyl Chloride	0	50	31	37	62%	74%	17.6%	68%

Definition of Terms:

R1..... Result of Sample Analysis

Sp..... Spike Concentration Added to Sample

MS..... Matrix Spike Result

MSD..... Matrix Spike Duplicate Result

PR1..... Percent Recovery of MS; ((MS-R1) / SP) X 100

PR2..... Percent Recovery of MSD; ((MSD-R1) / SP) X 100

RPD..... Relative Percent Difference; ((MS-MSD)/(MS+MSD)/2)) X 100

Del Mar Analytical

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3 Hutton Centre Drive, Suite 200
Santa Ana, California 92707
714/556-7992 – 213/617-7232
FAX: 714/662-3297

CHAIN OF CUSTODY FORM

Lab: DEL MAR

Job Number: 32026-41
Name/Location: OMEGA / WHITTIER
Project Manager: A. KELLER

Samplers: CEBALLOS
PAWSON

Recorder: Hardesty (Signature Required)

SOURCE CODE	MATRIX: MISC	Water	Sediment	Soil	Oil	#CONTAINERS & PRESERV.: Unpres.	H_2SO_4	HNO_3	Plas. Bg.	SAMPLE NUMBER OR LAB NUMBER: Yr	Wk	Seq	DATE: Yr	Mo	Dy	Time	STATION DESCRIPTION/ NOTES	EPA 601/8010	EPA 602/8020	EPA 624/8240	EPA 625/8270	Priority Pltnt. Metals	Benzene/Toluene/Xylene	Total Petrol. Hydrocarb.	17 CAM METALS
	X								1	P	P	E	9	5	0	7	2	7	0	7	3	0	PPE-COMPOSITE			X	X

ANALYSIS REQUESTED

LAB NUMBER: Yr	Wk	Seq	DEPTH IN FEET	COL MTD CD	QA CODE	MISCELLANEOUS
				-		NORMAL TAT
						FAX RESULTS TO JIM HARDESTY @ 310-907-9826

CHAIN OF CUSTODY RECORD

RELINQUISHED BY: (Signature)	RECEIVED BY: (Signature)	DATE/TIME
Hardesty 7/27/95 1025	[signature] 7 27 95	1025
RELINQUISHED BY: (Signature) 1625 [signature] 7 27 95	RECEIVED BY: (Signature)	DATE/TIME
RELINQUISHED BY: (Signature)	RECEIVED BY: (Signature)	DATE/TIME
RELINQUISHED BY: (Signature)	RECEIVED BY: (Signature)	DATE/TIME
DISPATCHED BY: (Signature) DATE/TIME	RECEIVED FOR LAB BY: (Signature) [signature]	DATE/TIME 7/27/95 1625

METHOD OF SHIPMENT: hand delivered intact/room temp

Laboratory Copy | Project Office Copy | Field or Office Copy Pink

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APPENDIX G

TECHNICAL MEMORANDUM FOR REFRIGERANTS

TECHNICAL MEMORANDUM NO. 1

SUBJECT: Addendum to the Phase I Work Plan
Warehouse Cylinder Work Plan

DATE: August 17, 1995

SUBMITTED BY: Dr. Ian Webster, Unocal Corporation

SUBMITTED TO: Richard Martyn, U.S. Environmental Protection Agency

cc: Michael Schwennesen
Kay Lawrence

1.0 PURPOSE

This technical memorandum is an addendum to the Phase I Work Plan (Plan) for the Drum Removal Action (DRA), which was prepared for the Omega Chemical Site PRP Organized Group (PRP Group) by Harding Lawson Associates (HLA). The Plan was prepared in response to Administrative Order No. 95-15 pursuant to Section 106 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) of 1980, as amended, 42 USC Section 9606(a), issued by the U.S. Environmental Protection Agency (EPA) and dated May 9, 1995. This memorandum serves as a course of action for the sampling and analysis of refrigerant gas cylinders discovered at the Omega facility in Whittier, California. The Plan includes a Technical Memorandum (TM) mechanism for facilitating plan amendments, and we are following that process by this submission.

2.0 DESCRIPTION OF REQUIRED ADDITION OR MODIFICATION

The evaluation, sampling, and analysis of the gas cylinders will be performed in accordance with the standard methods of handling gas cylinders per AQMD Rule 1415 and by procedures described in Compressed Gas Association (CGA) Pamphlets P-1, C-2, C-4, and C-7.

2.1 Cylinder Inspection

To ensure compliance with 29 CFR 1910.101(a), inspection of the compressed gas cylinders will be performed and logged using a standardized gas cylinder visual inspection report. Cylinders will be tested for leaks using soap and water, and weighed. In addition, pressure gauging will be performed to estimate the amount of material in the cylinders and to determine if any of the cylinders are empty.

2.2 Sampling Procedures

Cylinders with capacities in the 30- to 165-pound range will be sampled by connecting an appropriate sampling train from the cylinder to a sample container. The 1,000- and 2,000-pound cylinders will be sampled by certified technicians, which will utilize using an approved recovery unit. The 20,000-gallon tank discovered onsite will be sampled by connecting the tank to a liquid line and pumping a sample of the contents into a separate container designed to hold the sampled

material. If determined to be necessary, a recovery cylinder will be used for collection of the vapors from the tank. Based on the tank gauge reading, it is anticipated that primarily vapor, with only a minimal amount of liquid, is inside the tank. Cylinders with capacities less than 30 pounds will be transferred into a single sampling container and the composite will be sampled.

Cylinders with two outlet connections, one for liquid and one for vapor, will utilize a sample bottle under vacuum, which will be connected to the liquid outlet and the valve opened to the transfer the liquid. For those cylinders with only one outlet, the bottles will be inverted and chilled by dry ice, if determined to be necessary, and the liquids will be transferred into the sample bottle utilizing appropriate valve connections.

All sampling of the cylinders will be performed under a closed system to minimize the risk of a Freon release. In the event of a valve failure, a recovery bottle that is under vacuum and chilled by dry ice, to reduce the vapor pressure, will be available to contain the release. The released materials will then be transferred to a nonleaking cylinder. Further, all cylinders used for sampling will meet DOT specifications for the material it will contain. Freon R-13 is a high-pressure refrigerant; therefore, only cylinders capable of handling the high pressure will be used to contain the sample.

Upon closing the sample cylinder valve and the refrigerant container valve, release of vapors will be minimized by utilizing a "T" connector valve and hose connection. The valve will be slowly opened to drain any residual material in the hose through an alcohol solution. At this time, the pH of the solution will be checked utilizing pH paper. In the event that the alcohol solution becomes saturated or the FID monitor alarm trips, the workers will don full-face respirators with air purifying organic vapor cartridges as a means of backup vapor control.

2.3 Sample Analysis

The analysis of the refrigerant samples will be performed by an EPA-recommended laboratory, Integral Sciences, Inc. (ISI), located in Columbus, Ohio. A gas chromatograph analysis will be performed on all samples to determine their composition. For materials suspected to have the potential for reclamation/recycling, a complete ARI 700 analysis will be performed. The ARI 700 method of analysis will ensure that the materials that are determined to be capable of reclamation/recycling meet the required volume and quality standards of an approved recycler.

Appropriate chain-of-custody procedures will be followed and all containers used to hold samples will be cleaned by ISI.

3.0 NEED FOR PROPOSED ACTIVITIES

During DRA activities, approximately 90 refrigerant gas cylinders were discovered in the warehouse at the Site that are suspected to contain new and/or recyclable CFC product. According to a letter dated August 11, 1995, the EPA has not received written justification or documentation from either the PRP Group or Mr. O'Meara in support of the position that the cylinders are not subject to the Order. It is the EPA's position that the pressurized cylinders in the warehouse are subject to EPA Order No. 95-15 and the Plan. Because the refrigerant gas cylinders are the property of Mr. O'Meara's refrigeration business, it was Mr. O'Meara's responsibility to determine whether the material is usable product. However, because this determination has yet to take place and in order to meet the deadline stipulated in the Order, the PRP Group must perform the determination. This will require the sampling and analysis of the cylinders to determine whether the contents are usable product or waste. This technical memorandum details the course of action required to perform the determination and will ensure that clear lines of communication are maintained among all parties

involved in the DRA. This technical memorandum is being submitted to the EPA for approval since this activity represents an unforeseen change in the Plan.

4.0 IMPLEMENTATION SCHEDULE

The course of action described in this technical memorandum requires immediate commencement, upon approval by the EPA, to ensure compliance with the deadlines stipulated in the Order.

5.0 ESTIMATED COSTS

The sampling and analysis of the refrigerant gas cylinders are estimated to cost approximately $15,000.

6.0 EVALUATION OF ALTERNATIVE ACTIONS

Because of the time constraints stipulated in the Order, an evaluation of alternative actions for the sampling and analysis of the refrigerant gas cylinders is not practicable. However, appropriate consideration has been given to the most time- and cost-effective method to remedy this unforeseen situation.

7.0 ALTERNATIVES FOR IMPLEMENTATION

No alternatives for implementation are provided, as this course of action utilizes standard sampling and analysis procedures for the given materials and conditions of the containers.

8.0 HEALTH AND SAFETY ISSUES

All sampling will be performed in accordance with the existing Site Health and Safety Plan for the DRA at the Site, in addition to the requirements of 29 CFR 1910.101, 1910.1000, and 1910.1200.

The refrigerant materials contained within the cylinders consist of liquefied compressed gases, and the gases are relatively nontoxic. The greatest danger to persons handling and/or sampling the containers is from asphyxiation by oxygen displacement. Persons handling refrigerant gases will don in Level D PPE, which will consist of heavy leather protective gloves, steel-toed shoes, and eye protection. If any oxygen displacement is discovered, persons will cease working and leave the area until the oxygen levels have returned to normal. If the volatile organic level exceeds 500 ppm in the work area, as measured with an HNu, a full-face respirator with an organic vapor cartridge will be required. During the recovery or transfer operations of low-pressure refrigerants, the liquid recovery will always precede the recovery of the vapor refrigerant.

9.0 DESIGN/IMPLEMENTATION PRECAUTIONS

All sampling containers, apparatus, and ancillary equipment will be designed in accordance with industry standards and specifications. The containers, apparatus, and ancillary equipment will be capable of handling the pressures and will be compatible with the materials they are intended to contain.

10.0 FUTURE IMPLICATIONS/CONSISTENCY WITH OVERALL DRA APPROACH

This course of action is consistent with the intentions of the order as expressed in the Plan. The actions taken herein will result in a determination of which of the refrigerant materials are reusable product and which must be disposed of as waste. Upon completion of the analysis of the cylinders, an additional TM will be formulated that will outline the management process to be implemented for the removal of these wastes from the Site. This TM will be submitted for EPA review and approval.

EPA APPROVAL BY: _____ **DATE:** _____

_____Approved **_____Disapproved** **_____Additional Information Required**

_____Approved Conditional Upon Attached Comments

APPENDIX H

REFRIGERANT DISPOSITION REPORTS

Gas Cylinder Summary Report

Qty	Serial No.	Cylinder No. and Location	Contents (based on label)	Contaminants (by ISI Analysis)	Maximum Capacity (pounds)	Product/ Cylinder Mfg	Condition	Gross Weight	Tare Weight	Net Weight	ISI Track No.	Cylinder Owner (based on label)	Handling/ Disposition	Destination	Shipping Document No.	Date Shipped
1	75587	EL #1	R-12	N/A	145	Racon	Good	54	53	1	N/A	Lockheed	Return to Owner	Lockheed	Shipper No. 101890	9/1/95
1	95798	EL #2	Helium	N/A	145	Matheson	Good	90	85	5	N/A	Matheson	Product	Left Product Onsite	N/A	N/A
1	5481	EL #3	Helium	N/A	145	Matheson	Good	128	85	43	N/A	Matheson	Product	Left Product Onsite	N/A	N/A
1	23919	MW #1	R-22	10.7% R-12	2000	Columbiana	Good	2760	1080	1680	895272	P. Bottoms	Adjust Wt. per DOT Spec. (30 lb. to MW #10) Incineration	RES	NJA2066957	9/12/95
1	23912	MW #2	R-22	39% R-12 6% Other	2000	Columbiana	Good	2740	1064	1676	895270	P. Bottoms	Adjust Wt. per DOT Spec. (+600 lb.) - Incineration	RES	NJA2066957	9/12/95
1	23924	MW #3	95% R-22 & 5% R-12	4.6% R-12	2000	Columbiana	Good	2200	1100	1100	895271	N/A	Adjust Wt. per DOT Spec. (-200 lb.) - Incineration	RES	NJA2066957	9/12/95
1	23911	MW #4	R-22*	52.6% R-12 R-115, R-152a	2000	Columbiana	Good	2750	1080	1670	895269	P. Bottoms	Incineration	RES	NJA2066957	9/12/95
1	23916	MW #5	R-22	2.15% R-12	2000	Columbiana	Good	2760	1080	1680	895277	P. Bottoms	Adjust Wt. per DOT Spec. (237 lb. to MW #2, #3) Incineration	RES	NJA2066957	9/12/95
1	23921	MW #6	R-22	1.7% R-12	2000	Columbiana	Good	2724	1044	1680	895276	J.S. Low Boiler	Adjust Wt. per DOT Spec. (161 lb. to MW #3) Incineration	RES	NJA2066957	9/12/95
1	1728G	MW #7	R-22**	7.9% R-12	1000 (52 psi)	Worthington	Good	1170	370	800	895273	N/A	Adjust Wt. per DOT Spec. (184 lb. to MW #10) Incineration	RES	NJA2066957	9/12/95
1	1767G	MW #8	97.9% R-22 & 2.7% R-12	2.7% R-12	1000 (71 psi)	Worthington	Good	1220	370	850	895275	N/A	Incineration	RES	NJA2066957	9/12/95
1	2547G	MW #9	R-22	20.2% R-12	1000	Worthington	Good	1113	370	773	895274	N/A	Incineration	RES	NJA2066957	9/12/95
1	23913	MW #10	R-22	3.12% R-12	2000	Columbiana	Good	2816	1080	1736	895278	low boiler	Adjust Wt. per DOT Spec. (+232 lb.) - Incineration	RES	NJA2066957	9/12/95
1	N/A	NE #1	Empty	N/A	50	N/A	Poor	29	29	0	N/A	N/A	Empty	Left Empty Onsite	N/A	N/A
1	80440	NE #2	R-11***	R-11 .80 R-22	25	N/A	Fair	9.4	9	0.4	895363	N/A	Transfer to Cyl. # RRCA01, Incineration	Left Empty Onsite	N/A	N/A
1	2268A	NE #3	Empty	N/A	50	WT	Good	29	29	0	N/A	N/A	Empty	Left Empty Onsite	N/A	N/A
1	DT-3-2	NE #4	Unknown	R-12 .08% Other	15	WC	Fair	10.4	9.2	1.2	895313	N/A	Product	Left Product Onsite	N/A	N/A
1	648406	NL #1	R-13	.13% Other	80	N/A	Good	171	118	53	895268	Lockheed	Return to Owner	Lockheed	Shipper No. 101890	9/1/95
1	126657Y	NL #2	R-13	<.1% Other	80	N/A	Good	181	118	63	895262	Lockheed	Return to Owner	Lockheed	Shipper No. 101890	9/1/95

Gas Cylinder Summary Report

Qty	Serial No.	Cylinder No. and Location	Contents (based on label)	Contaminants (by ISI Analysis)	Maximum Capacity (pounds)	Product/ Cylinder Mfg	Condition	Gross Weight	Tare Weight	Net Weight	ISI Track No.	Cylinder Owner (based on label)	Handling/ Disposition	Destination	Shipping Document No.	Date Shipped
1	10860	NL #3	R-12****	28.2% R-22	150	Midwest	Fair	178	85	93	895324	N/A	Transfer to Cyl. #RRCA01	Left Empty Onsite	N/A	N/A
1	143329	NL #4	Empty	N/A	145	PSMCO	Fair	51.7	51.7	0	N/A	Rockwell	Return to Owner	Rockwell	Shipper No. 1001	9/1/95
1	D75073	NL #5	R-13	N/A	165	N/A	Fair	54	54	0	N/A	Rockwell	Return to Owner	Rockwell	Shipper No. 1001	9/1/95
1	I-2716	NL #6	R-13	.63% Other 17.6% Air	130	Sims Weld	Fair	160.5	118	42.5	895267	Sims	Reclamation	United Refrigeration	Shipper No. 1006	9/13/95
1	M10173	NL #7	R-21	N/A	130	Isotron	Fair	54	52	2	N/A	Rockwell	Return to Owner	Rockwell	Shipper No. 1001	9/1/95
1	WC 1227	NL #8	Mixed Refrigerant	R-12 33.0% R-22	145	Kaiser 12	Fair	180	118	62	895321	N/A	Transfer to Cyl. #RRCA01	Left Empty Onsite	N/A	N/A
1	1-2604	NL #9	Mixed Refrigerant	R-22 57.6% R-12	145	N/A	Poor	140	95	45	895320	Johnstone	Shipped to generator	Johnstone Supply	Shipper No. 1003	9/1/95
1	J-2170	NL #10	R-13	<.1% Other	80	Dupont	Fair	152	109	43	895263	Lockheed	Return to Owner	Lockheed	Shipper No. 101890	9/1/95
1	J-4950	NL #11	R-13	<.1% Other	145	Dupont	Fair	169	108	61	895328	Lockheed	Return to Owner	Lockheed	Shipper No. 101890	9/1/95
1	N/A	NL #12	R-22	30.3 R-12	160	CONV	Poor	169	53	116	895328	N/A	Transfer to Cyl. #RRCA01	Left Empty Onsite	N/A	N/A
1	392583	NL #13	R-22*****	59.7% R-12 R-115 vapor	145	N/A	Fair	149	52	97	895317	San Berdo	Transfer to Cyl. #RRCA01	Left Empty Onsite	N/A	N/A
1	I-58539	NL #14	Mixed Refrigerant	R-22 53.0% R-12	165	PSMCO	Fair	193	50	143	895314	Hunter Davidson	Shipped to Generator	Hunter Davidson	Shipper No. 1004	9/1/95
1	T-50027	NL #15	R-13	<.1%	145	"A&R Equip"	Good	233	142	91	895265	GD San Diego	Product	Left Product Onsite	N/A	N/A
1	648303	NL #16	R-13	.15% Other	80	GLC	Good	194	118	76	895261	Lockheed	Return to Owner	Lockheed	Shipper No. 101890	9/1/95
1	I-54424	NL #17	R-114	.36% R-12 .42% R-22 .67% R-113	80	PSMCO	Poor	197	50	147	895318	PSMCO	Transfer to Cyl. #RRCA01	Left Empty Onsite	N/A	N/A
1	80291	NL #18	R-14	.25% Other	80	Matheson	Good	140	52	88	895266	Cold Air	Product	Left Product Onsite	N/A	N/A
1	J-10952	NL #19	R-13	<.1% Other	80	KCINC	Good	156	118	38	895260	Lockheed	Return to Owner	Lockheed	Shipper No. 101890	9/1/95
1	PST 4T75	NL #20	R-22	R-22 37.3% R-12	100	KCINC	Fair	99	50	49	895336	N/A	Transfer to Cyl. #RRCA01	Left Empty Onsite	N/A	N/A
17	Multiple	20K	R-22	.74 Other	1000	Downington	N/A	19777	6545	13232	895325	N/A	Reclamation	RRCA	Shipper No. 1002	9/7/95

Gas Cylinder Summary Report

Qty	Serial No.	Cylinder No. and Location	Contents (based on label)	Contaminants (by ISI Analysis)	Maximum Capacity (pounds)	Product/ Cylinder Mfg	Condition	Gross Weight	Tare Weight	Net Weight	ISI Track No.	Cylinder Owner (based on label)	Handling/ Disposition	Destination	Shipping Document No.	Date Shipped
1	DIW645102A	20K	R-22	.74 Other	40000	Downington	N/A	51340	25260	26080	895325	N/A	Reclamation	Full Cycle Global	Shipper No. 1009	9/18/95
1	9323	S #1	Empty	N/A	2000 (1688)	Dupont KCINC	Good	0	0	0	N/A	Dupont	Empty	Left Empty Onsite	N/A	N/A
1	N/A	S #2	R-12******	45.5% R-22 R-115	2000	Allied	Good	3100	1080	1680	895279	Allied	Adjust Wt. per DOT Spec. (340 lb. to MW#2,RRCA02,.03)	Left Empty Onsite	N/A	N/A
1	N/A	S #3	Empty	N/A	2000	Allied	Good	0	0	0	N/A	Allied	Empty	Left Empty Onsite	N/A	N/A
1	N/A	S #4	Empty	N/A	2000	Allied	Good	0	0	0	N/A	Allied	Empty	Left Empty Onsite	N/A	N/A
1	JD 13037	SW #1	R-13B1	.14% Other	30	Dupont KCINC	Fair	49.6	45	4.6	895333	Dupont	Product	Left Product Onsite	N/A	N/A
1	DD-1037	SW #2	R-152a	<.1% Other	10	Genetron	Fair	11	8	3	895312	N/A	Product	Left Product Onsite	N/A	N/A
1	A39888	SW #3	R-22	N/A	10	N/A	Fair	11.3	8	3.3	N/A	N/A	Transfer to Cyl. #RRCA01	Left Empty Onsite	N/A	N/A
1	B134987	SW #4	R-12	N/A	20	N/A	Fair	15.2	11	4.2	N/A	N/A	Transfer to Cyl. #RRCA01	Left Empty Onsite	N/A	N/A
1	B265306	SW #5	Empty	N/A	20	N/A	Fair	15.3	15.3	0	N/A	N/A	Empty	Left Empty Onsite	N/A	N/A
1	241882	SW #6	Empty	N/A	25	N/A	Bad	0	0	0	N/A	N/A	Empty	Left Empty Onsite	N/A	N/A
1	241998	SW #7	R-21	2-Butane & R-21	25	N/A	Bad	99	86	13	895330	N/A	Transfer to Cyl. #RRCA01	Left Empty Onsite	N/A	N/A
1	241898	SW #8	Empty	N/A	25	N/A	Fair	30	30	0	N/A	N/A	Empty	Left Empty Onsite	N/A	N/A
1	241307	SW #9	Empty	N/A	25	N/A	Bad	69	69	0	N/A	N/A	Empty	Left Empty Onsite	N/A	N/A
1	-	SW #10	Empty	N/A	25	N/A	Fair	0	0	0	N/A	US Govt	Empty	Left Empty Onsite	N/A	N/A
1	-	SW #11	Empty	N/A	25	N/A	Fair	0	0	0	N/A	US Govt	Empty	Left Empty Onsite	N/A	N/A
1	JB9720	SW #12	Empty	N/A	50	Dupont KCINC	Fair	0	0	0	N/A	Dupont	Empty	Left Empty Onsite	N/A	N/A
1	-	SW #13	Empty	N/A	25	N/A	Fair	0	0	0	N/A	US Govt	Empty	Left Empty Onsite	N/A	N/A
1	241897	SW #14	Empty	N/A	50	N/A	Bad	0	0	0	N/A	N/A	Empty	Left Empty Onsite	N/A	N/A
1	241986	SW #15	Empty	N/A	25	N/A	Fair	0	0	0	N/A	N/A	Empty	Left Empty Onsite	N/A	N/A

Gas Cylinder Summary Report

Qty	Serial No.	Cylinder No. and Location	Contents (based on label)	Contaminants (by ISI Analysis)	Maximum Capacity (pounds)	Product/ Cylinder Mfg	Condition	Gross Weight	Tare Weight	Net Weight	ISI Track No.	Cylinder Owner (based on label)	Handling/ Disposition	Destination	Shipping Document No.	Date Shipped
1	C42233OCX	SW #16	R-12	N/A	25	Kaiser	Fair	12.7	10	2.7	N/A	Kaiser	Empty	Left Empty Onsite	N/A	N/A
1	JB13775	SW #17	Empty	N/A	25	Dupont KCINC	Bad	26.1	26.1	0	N/A	Dupont	Empty	Left Empty Onsite	N/A	N/A
1	71-216572	SW #18	R-152a	.12% Other	50	Allied	Fair	9	8	1	895280	Allied	Sample Consumed Material	Left Empty Onsite	N/A	N/A
1	P-7506	SW #19	R-152a	.12% Other	20	Allied	Bad	21.4	20	1.4	895282	Allied	Product	Left Product Onsite	N/A	N/A
1	CX1033OLE	SW #20	Empty	N/A	30	N/A	Bad	25	25	0	N/A	U.S. Govt	Empty	Left Empty Onsite	N/A	N/A
1	DL13880	SW #21	R-152a	.15% Other	50	Allied	Bad	11.6	10	1.6	895281	Stanford	Sample Consumed Material	Left Empty Onsite	N/A	N/A
1	130231	SW #22	Empty	N/A	25	Dupont	Fair	-	-	-	N/A	Dupont	Empty	Left Empty Onsite	N/A	N/A
1	FB-11124	SW #23	R-114	N/A	25	Union Carbide	Bad	19	18	1	N/A	N/A	Transfer to Cyl. #RRCA01	Left Empty Onsite	N/A	N/A
1	-	L #1	R-12	<.05%	30	Racon	N/A	-	-	-	895327	N/A	Product	Left Product Onsite	N/A	N/A
1	-	L #2	R-502	<.05%	30	Dupont	N/A	-	-	-	895315	N/A	Product	Left Product Onsite	N/A	N/A
1	-	L #3	Unknown	R-12 11.7% Other	15	Dupont	N/A	15	6	9	895316	N/A	Transfer to Cyl. #RRCA01	Left Empty Onsite	N/A	N/A
1	N/A	L #4	R-12	N/A	2	Hoescht	N/A	2	0.5	1.5	N/A	N/A	Transfer to Cyl. #RRCA01	Left Empty Onsite	N/A	N/A
1	N/A	L #5	R-12	N/A	2	Hoescht	N/A	2	0.5	1.5	N/A	N/A	Transfer to Cyl. #RRCA01	Left Empty Onsite	N/A	N/A
1	N/A	L #6	R-12	N/A	2	Hoescht	N/A	2	0.5	1.5	N/A	N/A	Transfer to Cyl. #RRCA01	Left Empty Onsite	N/A	N/A
1	N/A	L #7	R-12	N/A	0.25	Aldrich	N/A	0.25	0.1	0.15	N/A	N/A	Transfer to Cyl. #RRCA01	Left Empty Onsite	N/A	N/A
1	N/A	L #8	R-22	<.05% Other	2	Lab Cyl.	N/A	-	-	-	895332	N/A	Lab Consumed	ISI	Fed X 561378053	8/20/95
1	N/A	L #9	Empty	N/A	2	Lab Cyl.	N/A	-	-	-	N/A	N/A	Empty	Left Empty Onsite	N/A	N/A
1	N/A	L #10	Empty	N/A	2	Lab Cyl.	N/A	-	-	-	N/A	N/A	Empty	Left Empty Onsite	N/A	N/A
1	N/A	L #11	Empty (insufficient sample)	N/A	2	Lab Cyl.	N/A	-	-	-	895339	N/A	Lab Consumed	ISI	Fed X 561378053	8/20/95
1	N/A	L #12	Empty (insufficient sample)	N/A	2	Lab Cyl.	N/A	-	-	-	895331	N/A	Lab Consumed	ISI	Fed X 561378053	8/20/95
1	N/A	L #13	Empty (insufficient sample)	N/A	2	Lab Cyl.	N/A	-	-	-	895338	N/A	Lab Consumed	ISI	Fed X 561378053	8/20/95

Gas Cylinder Summary Report

Qty	Serial No.	Cylinder No. and Location	Contents (based on label)	Contaminants (by ISI Analysis)	Maximum Capacity (pounds)	Product/ Cylinder Mfg	Condition	Gross Weight	Tare Weight	Net Weight	ISI Track No.	Cylinder Owner (based on label)	Handling/ Disposition	Destination	Shipping Document No.	Date Shipped
1	N/A	L #14	Unknown	R-22 .10% Other	2	Lab Cyl.	N/A	-	-	-	895334	N/A	Lab Consumed	ISI	Fed X 561378053	8/20/95
1	N/A	L #15	Unknown	R-22 1.27% Other	2	Lab Cyl.	N/A	-	-	-	895335	N/A	Lab Consumed	ISI	Fed X 561378053	8/20/95
1	N/A	L #16	Unknown	R-22 <.05% Other	2	Lab Cyl.	N/A	-	-	-	895337	N/A	Lab Consumed	ISI	Fed X 561378053	8/20/95
1	N/A	X #1	Unknown	MDI R-12, N2	10	N/A	Bad	15	3	12	N/A	N/A		Ensco	AR-757882	9/12/95
1	N/A	X #2	Unknown	MDI R-12, N2	10	N/A	Good	18	3	15	N/A	N/A	Transfer to Drum #X1	Ensco	AR-757882	9/12/95
1	N/A	X #3	MDI R-12, N2	MSDS	50	Foam Products	Bad	40	8	32	N/A	N/A	Transfer to Drum #X1	Ensco	AR-757882	9/12/95
1	6224A	X #4	R-22	N/A	30	Dupont	Bad	20	6	14	N/A	Dupont	Return to Manufacturer	Dupont	Shipper No. 1008	9/13/95
1	N/A	X #5	R-22	< .1% Other	30	N/A	Bad	11	8	3	895326	N/A	Product	Left Product Onsite	N/A	N/A
1	N/A	X #6	Unknown	MDI R-12, N2	10	N/A	Bad	15	3	12	N/A	N/A	Transfer to Drum #X1	Ensco	AR-757882	9/12/95
1	N/A	X #7	Empty	N/A	15	N/A	Good	-	-	-	N/A	N/A	Empty	Left Empty Onsite	N/A	N/A
1	N/A	X #8	Empty	N/A	15	N/A	Good	-	-	-	N/A	N/A	Empty	Left Empty Onsite	N/A	N/A
31	N/A	OS #1 - 31	R-12	N/A	35	N/A	Good	-	-	-	N/A	U.S. Govt	Product	Left Product Onsite	N/A	N/A
1	N/A	OS #32	R-12	<.08% Other	35	N/A	Good	-	-	-	895319	U.S. Govt	Product	Left Product Onsite	N/A	N/A
36	N/A	OS #33 - 68	Empty	N/A	35	N/A	Good	-	-	-	N/A	U.S. Govt	Empty	Left Empty Onsite	N/A	N/A
1	N/A	OS #69 (mislabeled OS #50)	Empty	N/A	35	N/A	Good	-	-	-	N/A	Recovery	Empty	Left Empty Onsite	N/A	N/A
1	587715	AB #1	Empty	N/A	125	Genetron	Fair	54	54	0	N/A	Lockheed	Empty	Left Empty Onsite	N/A	N/A
1	9-280633	AB #2	Empty	N/A	125	Genetron	Fair	52	52	0	N/A	Lockheed	Empty	Left Empty Onsite	N/A	N/A
1	F-483825	AB #3	Empty	N/A	125	Genetron	Fair	50	50	0	N/A	Lockheed	Empty	Left Empty Onsite	N/A	N/A
1	318424	AB #4	Empty	N/A	125	Genetron	Fair	51	51	0	N/A	Lockheed	Empty	Left Empty Onsite	N/A	N/A
1	70B35588	AB #5	Empty	N/A	125	Racon	Fair	51	51	0	N/A	Lockheed	Empty	Left Empty Onsite	N/A	N/A

Gas Cylinder Summary Report

Qty	Serial No.	Cylinder No. and Location	Contents (based on label)	Contaminants (by ISI Analysis)	Maximum Capacity (pounds)	Product/ Cylinder Mfg	Condition	Gross Weight	Tare Weight	Net Weight	ISI Track No.	Cylinder Owner (based on label)	Handling/ Disposition	Destination	Shipping Document No.	Date Shipped
1	F-506007	AB #6	Empty	N/A	125	Genetron	Fair	52	52	0	N/A	Lockheed	Empty	Left Empty Onsite	N/A	N/A
1	2450F	AB #7	Empty	N/A	125	Dupont	Fair	55	55	0	N/A	Lockheed	Empty	Left Empty Onsite	N/A	N/A
1	I-37223	AB #8	Unknown	R-502 .20 Other	125	N/A	Fair	57	53	4	995757	N/A	Transfer to Cyl. #RRCA02	Left Empty Onsite	N/A	N/A
1	FC-3752	AB #9	Empty	N/A	100	Linde	Fair	65	65	0	N/A	Stoody	Empty	Left Empty Onsite	N/A	N/A
1	F544802	AB #10	Empty	N/A	125	Genetron	Fair	-	-	-	N/A	Stoody	Empty	Left Empty Onsite	N/A	N/A
1	D980060	AB #11	Empty	N/A	125	N/A	Fair	-	-	-	N/A	N/A	Empty	Left Empty Onsite	N/A	N/A
1	64005N	AB #12	Empty	N/A	125	U.S.Govt	Fair	-	-	-	N/A	Stoody	Empty	Left Empty Onsite	N/A	N/A
1	CX86327PS	AB #13	Empty	N/A	125	U.S.Govt	Fair	-	-	-	N/A	N/A	Empty	Left Empty Onsite	N/A	N/A
1	CX81541PS	AB #14	Empty	N/A	125	U.S.Govt	Fair	-	-	-	N/A	Phoenix	Empty	Left Empty Onsite	N/A	N/A
1	378409	AB #15	Empty	N/A	125	Genetron	Fair	-	-	-	N/A	Stoody	Empty	Left Empty Onsite	N/A	N/A
1	CX80979PS	AB #16	Empty	N/A	125	U.S. Govt	Fair	-	-	-	N/A	Stoody	Empty	Left Empty Onsite	N/A	N/A
1	F476987	AB #17	Empty	N/A	125	Genetron	Fair	-	-	-	N/A	Stoody	Empty	Left Empty Onsite	N/A	N/A
1	5312L	AB #18	Empty	N/A	125	KCINC	Fair	-	-	-	N/A	Stoody	Empty	Left Empty Onsite	N/A	N/A
1	I-53899	AB #19	Empty	N/A	145	N/A	Fair	53	53	0	N/A	N/A	Empty	Left Empty Onsite	N/A	N/A
1	5-55	AB #20	Empty	N/A	145	N/A	Painted	53	53	0	N/A	N/A	Empty	Left Empty Onsite	N/A	N/A
1	61306	AB #21	Empty	N/A	145	Unitor	Painted	54	54	0	N/A	N/A	Empty	Left Empty Onsite	N/A	N/A
1	30740	AB #22	Empty	N/A	125	N/A	Fair	98	98	0	N/A	N/A	Empty	Left Empty Onsite	N/A	N/A
1	I-3398	AB #23	Empty	N/A	145	Isotron	Fair	53	53	0	N/A	N/A	Empty	Left Empty Onsite	N/A	N/A
1	63687	AB #24	Empty	N/A	125	KCINC	Fair	50	50	0	N/A	N/A	Empty	Left Empty Onsite	N/A	N/A
1	FC56507	AB #25	Empty	N/A	145	UCON	Fair	52	52	0	N/A	N/A	Empty	Left Empty Onsite	N/A	N/A
1	FC12654	AB #26	Empty	N/A	145	UCON	Fair	53	53	0	N/A	N/A	Empty	Left Empty Onsite	N/A	N/A

Gas Cylinder Summary Report

Qty	Serial No.	Cylinder No. and Location	Contents (based on label)	Contaminants (by ISI Analysis)	Maximum Capacity (pounds)	Product/ Cylinder Mfg	Condition	Gross Weight	Tare Weight	Net Weight	ISI Track No.	Cylinder Owner (based on label)	Handling/ Disposition	Destination	Shipping Document No.	Date Shipped
1	RK193452	AB #27	Empty	N/A	125	Arcton ICI	Fair	70	70	0	N/A	UCSD	Empty	Left Empty Onsite	N/A	N/A
1	40792G	AB #28	Empty	N/A	125	KCINC	Fair	54	54	0	N/A	Stoody	Empty	Left Empty Onsite	N/A	N/A
1	1344LE	AB #29	Empty	N/A	192	N/A	Fair	47	47	0	N/A	N/A	Empty	Left Empty Onsite	N/A	N/A
1	87440	AB #30	Empty	N/A	145	KCINC	Fair	53	53	0	N/A	N/A	Empty	Left Empty Onsite	N/A	N/A
1	1217553X	AB #31	Empty	N/A	145	N/A	Painted	51	51	0	N/A	N/A	Empty	Left Empty Onsite	N/A	N/A
1	4322F	AB #32	Empty	N/A	145	KCINC	Fair	54	54	0	N/A	N/A	Empty	Left Empty Onsite	N/A	N/A
1	-	AB #33	Empty	N/A	145	N/A	Painted	54	54	0	N/A	Stoody	Empty	Left Empty Onsite	N/A	N/A
1	FC60703	AB #34	Empty	N/A	145	UCON	Fair	58	58	0	N/A	N/A	Empty	Left Empty Onsite	N/A	N/A
1	1-11836	AB #35	Empty	N/A	145	N/A	Fair	53	53	0	N/A	N/A	Empty	Left Empty Onsite	N/A	N/A
1	FC8982	AB #36	Empty	N/A	145	UCON	Fair	50	50	0	N/A	N/A	Empty	Left Empty Onsite	N/A	N/A
1	689805G	AB #37	Empty	N/A	10	N/A	Fair	-	-	-	N/A	N/A	Empty	Left Empty Onsite	N/A	N/A
1	N/A	AB #38	R-11	.05 Other	2	Lab Cyl.	Fair	5	3	2	995761	N/A	Lab Consumed	ISI	Fed X 6918796253	9/18/95
1	N/A	AB #39	R-22	.77 R-124	2	Lab Cyl.	Fair	3	2	1	995756	N/A	Lab Consumed	ISI	Fed X 6918796253	9/18/95
1	N/A	AB #40	R-11	R-11 .15 Other	2	Lab Cyl.	Rusted	2	2	0	995755	N/A	Lab Consumed	ISI	Fed X 6918796253	9/18/95
1	N/A	AB #41	R-22	R-22 .29 Other	2	Lab Cyl.	Rusted	2	0	2	995753	N/A	Lab Consumed	ISI	Fed X 6918796253	9/18/95
1	N/A	AB #42	R-11	R-11 .40 Other	2	Lab Cyl.	Fair	4	0	4	995760	N/A	Lab Consumed	ISI	Fed X 6918796253	9/18/95
1	N/A	AB #43	R-22	R-22 1.0 Other	2	Lab Cyl.	Rusted	3	0	3	995754	N/A	Lab Consumed	ISI	Fed X 6918796253	9/18/95
1	N/A	AB #44	R-11	R-11 .13 Other	2	Lab Cyl.	Rusted	2	0	2	995751	N/A	Lab Consumed	ISI	Fed X 6918796253	9/18/95
1	N/A	AB #45	R-11	R-11 .55 Other	2	Lab Cyl.	Rusted	2	0	2	995752	N/A	Lab Consumed	ISI	Fed X 6918796253	9/18/95
1	N/A	AB #46	Empty	N/A	5	Lab Cyl.	Rusted	6	4	2	995762	N/A	Lab Consumed	ISI	Fed X 6918796253	9/18/95
1	N/A	AB #47	Empty	N/A	2	PCR	Fair	2	2	0	N/A	N/A	Empty	Left Empty Onsite	N/A	N/A

Gas Cylinder Summary Report

Qty	Serial No.	Cylinder No. and Location	Contents (based on label)	Contaminants (by ISI Analysis)	Maximum Capacity (pounds)	Product/ Cylinder Mfg	Condition	Gross Weight	Tare Weight	Net Weight	ISI Track No.	Cylinder Owner (based on label)	Handling/ Disposition	Destination	Shipping Document No.	Date Shipped
1	N/A	AB #48	Empty	N/A	2	PCR	Fair	2	2	0	N/A	N/A	Empty	Left Empty Onsite	N/A	N/A
1	N/A	AB #49	R-14	N/A	2	Matheson	Poor	4	2.5	1.5	N/A	N/A	Return to Manufacturer	Matheson	Shipper No. 1007	9/13/95
1	N/A	AB #50	13B1	N/A	2	Matheson	Poor	4	2.5	1.5	N/A	N/A	Return to Manufacturer	Matheson	Shipper No. 1007	9/13/95
1	N/A	AB #51	Empty	N/A	2	N/A	Fair	2	2	0	N/A	N/A	Empty	Left Empty Onsite	N/A	N/A
1	N/A	AB #52	Empty	N/A	2	N/A	Fair	2	2	0	N/A	N/A	Empty	Left Empty Onsite	N/A	N/A
1	N/A	AB #53	Empty	N/A	2	N/A	Fair	2	2	0	N/A	N/A	Empty	Left Empty Onsite	N/A	N/A
1	N/A	AB #54	Empty	N/A	0.25	N/A	Fair	0.5	0.5	0	N/A	N/A	Empty	Left Empty Onsite	N/A	N/A
1	G7707	RRCA #01	Consolidated Refrigerant	N/A	1000	N/A	New	1169	385	784	N/A	N/A	Consolidated from Overweight	RES	NJA2066957	9/12/95
1	10272G	RRCA #02	Consolidated Refrigerant	N/A	1000	N/A	New	1248	385	863	N/A	N/A	Transferred from S #2	RES	NJA2066957	9/12/95
1	5070G	RRCA #03	Consolidated Refrigerant	N/A	1000	N/A	New	1250	385	865	N/A	N/A	Transferred from S #2	RES	NJA2066957	9/12/95
232	Total Cylinders															

* Sample MW #4 mislabeled "R-502"
** Sample MW #7 mislabeled "R-12"
*** Sample NE #2 mislabeled "R-22"
**** Sample NL #3 mislabeled "R-22"
***** Sample NL #13 mislabeled "R-502"
****** Sample S #2 mislabeled "R-502"

RES - Rollins Environmental Services (NJ), Inc.
ISI - Integral Sciences, Inc.
N/A - Information not available or not applicable

Gas Cylinder Summary Report by Handling/Disposition

Qty	Serial No.	Cylinder No. and Location	Contents (based on label)	Contaminants (by ISI Analysis)	Maximum Capacity (pounds)	Product/ Cylinder Mfg	Condition	Gross Weight	Tare Weight	Net Weight	Date Inspected	ISI Track No.	Cylinder Owner (based on label)	Handling\ Disposition	Destination	Shipping Document No.	Date Shipped
1	80440	NE #2	R-11***	R-11 .80 R-22	25	N/A	Fair	9.4	9	0.4	8/7/95	895363	N/A	Transfer to Cyl. #RRCA01	Left Empty Onsite	N/A	N/A
1	10860	NL #3	R-12****	28.2% R-22	150	Midwest	Fair	178	85	93	8/7/95	895324	N/A	Transfer to Cyl. #RRCA01	Left Empty Onsite	N/A	N/A
1	WC 1227	NL #8	Mixed Refrigerant	R-12 33.0% R-22	145	Kaiser 12	Fair	180	118	62	8/7/95	895321	N/A	Transfer to Cyl. #RRCA01	Left Empty Onsite	N/A	N/A
1	N/A	NL #12	R-22	30.3 R-12	160	CONV	Poor	169	53	116	8/7/95	895328	N/A	Transfer to Cyl. #RRCA01	Left Empty Onsite	N/A	N/A
1	392583	NL #13	R-22*****	59.7% R-12 R-115 vapor	145	N/A	Fair	149	52	97	8/7/95	895317	San Berdo	Transfer to Cyl. #RRCA01	Left Empty Onsite	N/A	N/A
1	I-54424	NL #17	R-114	.36% R-12 .42% R-22 .67% R-113	80	PSMCO	Poor	197	50	147	8/7/95	895318	PSMCO	Transfer to Cyl. #RRCA01	Left Empty Onsite	N/A	N/A
1	PST 4T75	NL #20	R-22	R-22 37.3% R-12	100	KCINC	Fair	99	50	49	8/7/95	895336	N/A	Transfer to Cyl. #RRCA01	Left Empty Onsite	N/A	N/A
1	N/A	S #2	R-12******	45.5% R-22 R-115	2000	Allied	Good	3100	1080	1680	8/7/95	895279	Allied	Adjust Wt. per DOT Spec. (340 lb. to MW#2,RRCA02, 03)	Left Empty Onsite	N/A	N/A
1	A39888	SW #3	R-22	N/A	10	N/A	Fair	11.3	8	3.3	8/7/95	N/A	N/A	Transfer to Cyl. #RRCA01	Left Empty Onsite	N/A	N/A
1	B134987	SW #4	R-12	N/A	20	N/A	Fair	15.2	11	4.2	8/7/95	N/A	N/A	Transfer to Cyl. #RRCA01	Left Empty Onsite	N/A	N/A
1	241998	SW #7	R-21	R-13 & R-21 Pending	25	N/A	Bad	99	86	13	8/7/95	N/A	N/A	Transfer to Cyl. #RRCA01	Left Empty Onsite	N/A	N/A
1	FB-11124	SW #23	R-114	N/A	25	Union Carbide	Bad	19	18	1	8/7/95	N/A	N/A	Transfer to Cyl. #RRCA01	Left Empty Onsite	N/A	N/A
1	-	L #3	Unknown	R-12 11.7% Other	15	Dupont	N/A	15	6	9	8/7/95	895316	N/A	Transfer to Cyl. #RRCA01	Left Empty Onsite	N/A	N/A
1	N/A	L #4	R-12	N/A	2	Hoescht	N/A	2	0.5	1.5	8/7/95	N/A	N/A	Transfer to Cyl. #RRCA01	Left Empty Onsite	N/A	N/A
1	N/A	L #5	R-12	N/A	2	Hoescht	N/A	2	0.5	1.5	8/7/95	N/A	N/A	Transfer to Cyl. #RRCA01	Left Empty Onsite	N/A	N/A
1	N/A	L #6	R-12	N/A	2	Hoescht	N/A	2	0.5	1.5	8/7/95	N/A	N/A	Transfer to Cyl. #RRCA01	Left Empty Onsite	N/A	N/A
1	N/A	L #7	R-12	N/A	0.25	Aldrich	N/A	0.25	0.1	0.15	8/7/95	N/A	N/A	Transfer to Cyl. #RRCA01	Left Empty Onsite	N/A	N/A
1	I-37223	AB #8	Unknown	R-502 .20 Other	125	N/A	Fair	57	53	4	9/5/95	995757	N/A	Transfer to Cyl. #RRCA02	Left Empty Onsite	N/A	N/A
18														**Total Transferred Left Onsite**	**18**		
1	75587	EL #1	R-12	N/A	145	Racon	Good	54	53	1	8/7/95	N/A	Lockheed	Returned to Owner	Lockheed	Shipper No. 101890	9/1/95

Gas Cylinder Summary Report by Handling/Disposition

Qty	Serial No.	Cylinder No. and Location	Contents (based on label)	Contaminants (by ISI Analysis)	Maximum Capacity (pounds)	Product/ Cylinder Mfg	Condition	Gross Weight	Tare Weight	Net Weight	Date Inspected	ISI Track No.	Cylinder Owner (based on label)	Handling\ Disposition	Destination	Shipping Document No.	Date Shipped
1	648406	NL #1	R-13	.13% Other	80	N/A	Good	171	118	53	8/7/95	895268	Lockheed	Returned to Owner	Lockheed	Shipper No. 101890	9/1/95
1	126657Y	NL #2	R-13	<.1% Other	80	N/A	Good	181	118	63	8/7/95	895262	Lockheed	Returned to Owner	Lockheed	Shipper No. 101890	9/1/95
1	143329	NL #4	Empty	N/A	145	PSMCO	Fair	51.7	51.7	0	8/7/95	N/A	Rockwell	Returned to Owner	Rockwell	Shipper No. 1001	9/1/95
1	D75073	NL #5	R-13	N/A	165	N/A	Fair	54	54	0	8/7/95	N/A	Rockwell	Returned to Owner	Rockwell	Shipper No. 1001	9/1/95
1	M10173	NL #7	R-21	N/A	130	Isotron	Fair	54	52	2	8/7/95	N/A	Rockwell	Returned to Owner	Rockwell	Shipper No. 1001	9/1/95
1	J-2170	NL #10	R-13	<.1% Other	80	Dupont	Fair	152	109	43	8/7/95	895263	Lockheed	Returned to Owner	Lockheed	Shipper No. 101890	9/1/95
1	J-4950	NL #11	R-13	<.1% Other	145	Dupont	Fair	169	108	61	8/7/95	895328	Lockheed	Returned to Owner	Lockheed	Shipper No. 101890	9/1/95
1	648303	NL #16	R-13	.15% Other	80	GLC	Good	194	118	76	8/7/95	895261	Lockheed	Returned to Owner	Lockheed	Shipper No. 101890	9/1/95
1	J-10952	NL #19	R-13	<.1% Other	80	KCINC	Good	156	118	38	8/7/95	895260	Lockheed	Returned to Owner	Lockheed	Shipper No. 101890	9/1/95
10														**Total Returned to Owner**	**10**		
1	6224A	X #4	R-22	N/A	30	Dupont	Bad	20	6	14	8/7/95	N/A	Dupont	Return to Manufacturer	Dupont	Shipper No. 1008	9/13/95
1	N/A	AB #49	R-14	N/A	2	Matheson	Poor	4	2.5	1.5	9/5/95	N/A	N/A	Return to Manufacturer	Matheson	Shipper No. 1007	9/13/95
1	N/A	AB #50	13B1	N/A	2	Matheson	Poor	4	2.5	1.5	9/5/95	N/A	N/A	Return to Manufacturer	Matheson	Shipper No. 1007	9/13/95
3														**Total Return to Manufacturer**	**3**		
1	1-2604	NL #9	Mixed Refrigerant	R-22 57.6% R-12	145	N/A	Poor	140	95	45	8/7/95	895320	Johnstone	Shipped to generator	Johnstone Supply	Shipper No. 1003	9/1/95
1	I-58539	NL #14	Mixed Refrigerant	R-22 53.0% R-12	165	PSMCO	Fair	193	50	143	8/7/95	895314	Hunter Davidson	Shipped to generator	Hunter Davidson	Shipper No. 1004	9/1/95
2														**Total Shipped to generator**	**2**		
1	I-2716	NL #6	R-13	.63% Other 17.6% Air	130	Sims Weld	Fair	160.5	118	42.5	8/7/95	895267	Sims	Reclamation	United Refrigeration	Shipper No. 1006	9/13/95
17	Multiple	20K	R-22	.74 Other	1000	Downington	N/A	19777	6545	13232	N/A	895325	N/A	Reclamation	RRCA	Shipper No. 1002	9/7/95
1	DIW645102A	20K	R-22	.74 Other	40000	Downington	N/A	51340	25260	26080	N/A	895325	N/A	Reclamation	Full Cycle Global	Shipper No. 1009	9/18/95
19														**Total Reclamation (pounds)**	**39354.5**		
1	N/A	X #1	R-12	MDI R-12, N2	10	N/A	Bad	15	3	12	8/7/95	N/A	N/A		Ensco	AR-757882	9/12/95
1	N/A	X #2	R-12	MDI R-12, N2	10	N/A	Good	18	3	15	8/7/95	N/A	N/A	Transfer to Drum #X1	Ensco	AR-757882	9/12/95

Gas Cylinder Summary Report by Handling/Disposition

Qty	Serial No.	Cylinder No. and Location	Contents (based on label)	Contaminants (by ISI Analysis)	Maximum Capacity (pounds)	Product/ Cylinder Mfg	Condition	Gross Weight	Tare Weight	Net Weight	Date Inspected	ISI Track No.	Cylinder Owner (based on label)	Handling\ Disposition	Destination	Shipping Document No.	Date Shipped
1	N/A	X #3	MDI R-12, N2	MSDS	50	Foam Products	Bad	40	8	32	8/7/95	N/A	N/A	Transfer to Drum #X1	Ensco	AR-757882	9/12/95
1	N/A	X #6	Unknown	MDI R-12, N2	10	N/A	Bad	15	3	12	8/7/95	N/A	N/A	Transfer to Drum #X1	Ensco	AR-757882	9/12/95
4														**Total Transfer to Ensco(1 drum)**	**4**		
1	23919	MW #1	R-22	10.7% R-12	2000	Columbiana	Good	2760	1080	1680	8/7/95	895272	P. Bottoms	Adjust Wt. per DOT Spec. (30 lb. to MW #10) Incineration	RES	NJA2066957	9/12/95
1	23912	MW #2	R-22	39% R-12 6% Other	2000	Columbiana	Good	2740	1064	1676	8/7/95	895270	P. Bottoms	Adjust Wt. per DOT Spec. (+600 lb.) Incineration	RES	NJA2066957	9/12/95
1	23924	MW #3	95% R-22 & 5% R-12	4.6% R-12	2000	Columbiana	Good	2200	1100	1100	8/7/95	895271	N/A	Adjust Wt. per DOT Spec. (-200 lb.) Incineration	RES	NJA2066957	9/12/95
1	23911	MW #4	R-22*	52.6% R-12 R-115, R-152a	2000	Columbiana	Good	2750	1080	1670	8/7/95	895269	P. Bottoms	Incineration	RES	NJA2066957	9/12/95
1	23916	MW #5	R-22	2.15% R-12	2000	Columbiana	Good	2760	1080	1680	8/7/95	895277	P. Bottoms	Adjust Wt. per DOT Spec. (237 lb. to MW #2, #3) Incineration	RES	NJA2066957	9/12/95
1	23921	MW #6	R-22	1.7% R-12	2000	Columbiana	Good	2724	1044	1680	8/7/95	895276	J.S. Low Boiler	Adjust Wt. per DOT Spec. (161 lb. to MW #3) Incineration	RES	NJA2066957	9/12/95
1	1728G	MW #7	R-22**	7.9% R-12	1000 (52 psi)	Worthington	Good	1170	370	800	8/7/95	895273	N/A	Adjust Wt. per DOT Spec. (184 lb. to MW #10) Incineration	RES	NJA2066957	9/12/95
1	1767G	MW #8	97.9% R-22 & 2.7% R-12	2.7% R-12	1000 (71 psi)	Worthington	Good	1220	370	850	8/7/95	895275	N/A	Incineration	RES	NJA2066957	9/12/95
1	2547G	MW #9	R-22	20.2% R-12	1000	Worthington	Good	1113	370	773	8/7/95	895274	N/A	Incineration	RES	NJA2066957	9/12/95
1	23913	MW #10	R-22	3.12% R-12	2000	Columbiana	Good	2816	1080	1736	8/7/95	895278	low boiler	Adjust Wt. per DOT Spec. (+232 lb.) Incineration	RES	NJA2066957	9/12/95
1	G7707	RRCA #01	Consolidated Refrigerant	N/A	1000	N/A	New	1169	385	784	9/12/95	N/A	N/A	Consolidated from Overweight	RES	NJA2066957	9/12/95
1	10272G	RRCA #02	Consolidated Refrigerant	N/A	1000	N/A	New	1248	385	863	9/12/95	N/A	N/A	Transfered from S#2 and AB#8	RES	NJA2066957	9/12/95
1	5070G	RRCA #03	Consolidated Refrigerant	N/A	1000	N/A	New	1250	385	865	9/12/95	N/A	N/A	Transfered from S#2	RES	NJA2066957	9/12/95
13														**Total Shipped to RES**	**13**		
1	N/A	L #8	R-22	<.05% Other	2	Lab Cyl.	N/A	-	-	-	8/7/95	895332	N/A	Lab Consumed	ISI	Fed X 561378053	8/20/95
1	N/A	L #11	Empty (insufficient sample)	N/A	2	Lab Cyl.	N/A	-	-	-	8/7/95	895339	N/A	Lab Consumed	ISI	Fed X 561378053	8/20/95

Qty	Serial No.	Cylinder No. and Location	Contents (based on label)	Contaminants (by ISI Analysis)	Maximum Capacity (pounds)	Product/ Cylinder Mfg	Condition	Gross Weight	Tare Weight	Net Weight	Date Inspected	ISI Track No.	Cylinder Owner (based on label)	Handling\ Disposition	Destination	Shipping Document No.	Date Shipped
1	N/A	L #12	Empty (insufficient sample)	N/A	2	Lab Cyl.	N/A	-	-	-	8/7/95	895331	N/A	Lab Consumed	ISI	Fed X 561378053	8/20/95
1	N/A	L #13	Empty (insufficient sample)	N/A	2	Lab Cyl.	N/A	-	-	-	8/7/95	895338	N/A	Lab Consumed	ISI	Fed X 561378053	8/20/95
1	N/A	L #14	Unknown	R-22 .10% Other	2	Lab Cyl.	N/A	-	-	-	8/7/95	895334	N/A	Lab Consumed	ISI	Fed X 561378053	8/20/95
1	N/A	L #15	Unknown	R-22 1.27% Other	2	Lab Cyl.	N/A	-	-	-	8/7/95	895335	N/A	Lab Consumed	ISI	Fed X 561378053	8/20/95
1	N/A	L #16	Unknown	R-22 <0.5% Other	2	Lab Cyl.	N/A	-	-	-	8/7/95	895337	N/A	Lab Consumed	ISI	Fed X 561378053	8/20/95
1	N/A	AB #38	R-11	.05 Other	2	Lab Cyl.	Fair	5	3	2	9/7/95	995761	N/A	Lab Consumed	ISI	Fed X 6918796253	9/18/95
1	N/A	AB #39	R-22	.77 R-124	2	Lab Cyl.	Fair	3	2	1	9/5/95	995756	N/A	Lab Consumed	ISI	Fed X 6918796253	9/18/95
1	N/A	AB #40	R-11	R-11 .15 Other	2	Lab Cyl.	Rusted	2	2	0	9/5/95	995755	N/A	Lab Consumed	ISI	Fed X 6918796253	9/18/95
1	N/A	AB #41	R-22	R-22 .29% Other	2	Lab Cyl.	Rusted	2	0	2	9/5/95	995753	N/A	Lab Consumed	ISI	Fed X 6918796253	9/18/95
1	N/A	AB #42	R-11	R-11 .40 Other	2	Lab Cyl.	Fair	4	0	4	9/5/95	995760	N/A	Lab Consumed	ISI	Fed X 6918796253	9/18/95
1	N/A	AB #43	R-22	R-22 1.0 Other	2	Lab Cyl.	Rusted	3	0	3	9/5/95	995754	N/A	Lab Consumed	ISI	Fed X 6918796253	9/18/95
1	N/A	AB #44	R-11	R-11 .13 Other	2	Lab Cyl.	Rusted	2	0	2	9/5/95	995751	N/A	Lab Consumed	ISI	Fed X 6918796253	9/18/95
1	N/A	AB #45	R-11	R-11 .55 Other	2	Lab Cyl.	Rusted	2	0	2	9/5/95	995752	N/A	Lab Consumed	ISI	Fed X 6918796253	9/18/95
1	N/A	AB #46	Empty	N/A	5	Lab Cyl.	Rusted	6	4	2	9/5/95	995762	N/A	Lab Consumed	ISI	Fed X 6918796253	9/18/95
16														**Total Lab Consumed**	**16**		
1	N/A	NE #1	Empty	N/A	50	N/A	Poor	29	29	0	8/7/95	N/A	N/A	Empty	Left Empty Onsite	N/A	N/A
1	2268A	NE #3	Empty	N/A	50	WT	Good	29	29	0	8/7/95	N/A	N/A	Empty	Left Empty Onsite	N/A	N/A
1	9323	S #1	Empty	N/A	2000 (1688)	Dupont KCINC	Good	0	0	0	8/7/95	N/A	Dupont	Empty	Left Empty Onsite	N/A	N/A
1	N/A	S #3	Empty	N/A	2000	Allied	Good	0	0	0	8/7/95	N/A	Allied	Empty	Left Empty Onsite	N/A	N/A
1	N/A	S #4	Empty	N/A	2000	Allied	Good	0	0	0	8/7/95	N/A	Allied	Empty	Left Empty Onsite	N/A	N/A
1	B265306	SW #5	Empty	N/A	20	N/A	Fair	15.3	15.3	0	8/7/95	N/A	N/A	Empty	Left Empty Onsite	N/A	N/A

Qty	Serial No.	Cylinder No. and Location	Contents (based on label)	Contaminants (by ISI Analysis)	Maximum Capacity (pounds)	Product/ Cylinder Mfg	Condition	Gross Weight	Tare Weight	Net Weight	Date Inspected	ISI Track No.	Cylinder Owner (based on label)	Handling\ Disposition	Destination	Shipping Document No.	Date Shipped
1	241882	SW #6	Empty	N/A	25	N/A	Bad	0	0	0	8/7/95	N/A	N/A	Empty	Left Empty Onsite	N/A	N/A
1	241898	SW #8	Empty	N/A	25	N/A	Fair	30	30	0	8/7/95	N/A	N/A	Empty	Left Empty Onsite	N/A	N/A
1	241307	SW #9	Empty	N/A	25	N/A	Bad	69	69	0	8/7/95	N/A	N/A	Empty	Left Empty Onsite	N/A	N/A
1	-	SW #10	Empty	N/A	25	N/A	Fair	0	0	0	8/7/95	N/A	N/A	Empty	Left Empty Onsite	N/A	N/A
1	-	SW #11	Empty	N/A	25	N/A	Fair	0	0	0	8/7/95	N/A	N/A	Empty	Left Empty Onsite	N/A	N/A
1	JB9720	SW #12	Empty	N/A	50	Dupont KCINC	Fair	0	0	0	8/7/95	N/A	Dupont	Empty	Left Empty Onsite	N/A	N/A
1	-	SW #13	Empty	N/A	25	N/A	Fair	0	0	0	8/7/95	N/A	US Govt	Empty	Left Empty Onsite	N/A	N/A
1	241897	SW #14	Empty	N/A	50	N/A	Bad	0	0	0	8/7/95	N/A	N/A	Empty	Left Empty Onsite	N/A	N/A
1	241986	SW #15	Empty	N/A	25	N/A	Fair	0	0	0	8/7/95	N/A	N/A	Empty	Left Empty Onsite	N/A	N/A
1	C42233OCX	SW #16	R-12	N/A	25	Kaiser	Fair	12.7	10	2.7	8/7/95	N/A	Kaiser	Empty	Left Empty Onsite	N/A	N/A
1	JB13775	SW #17	Empty	N/A	25	Dupont KCINC	Bad	26.1	26.1	0	8/7/95	N/A	Dupont	Empty	Left Empty Onsite	N/A	N/A
1	71-216572	SW #18	R-152a	.12% Other	50	Allied	Fair	9	8	1	8/7/95	895280	Allied	Sample Consumed Material	Left Empty Onsite	N/A	N/A
1	CX1033OLE	SW #20	Empty	N/A	30	N/A	Bad	25	25	0	8/7/95	N/A	U.S. Govt	Empty	Left Empty Onsite	N/A	N/A
1	DL13880	SW #21	R-152a	.15% Other	50	Allied	Bad	11.6	10	1.6	8/7/95	895281	Stanford	Sample Consumed Material	Left Empty Onsite	N/A	N/A
1	130231	SW #22	Empty	N/A	25	Dupont	Fair	-	-	-	8/7/95	N/A	Dupont	Empty	Left Empty Onsite	N/A	N/A
1	N/A	L #9	Empty	N/A	2	Lab Cyl.	N/A	-	-	-	8/7/95	N/A	N/A	Empty	Left Empty Onsite	N/A	N/A
1	N/A	L #10	Empty	N/A	2	Lab Cyl.	N/A	-	-	-	8/7/95	N/A	N/A	Empty	Left Empty Onsite	N/A	N/A
1	N/A	X #7	Empty	N/A	15	N/A	Good	-	-	-	8/7/95	N/A	N/A	Empty	Left Empty Onsite	N/A	N/A
1	N/A	X #8	Empty	N/A	15	N/A	Good	-	-	-	8/7/95	N/A	N/A	Empty	Left Empty Onsite	N/A	N/A
36	N/A	OS #33 - 68	Empty	N/A	35	N/A	Good	-	-	-	8/19/95	N/A	US Govt	Empty	Left Empty Onsite	N/A	N/A

Gas Cylinder Summary Report by Handling/Disposition

Qty	Serial No.	Cylinder No. and Location	Contents (based on label)	Contaminants (by ISI Analysis)	Maximum Capacity (pounds)	Product/ Cylinder Mfg	Condition	Gross Weight	Tare Weight	Net Weight	Date Inspected	ISI Track No.	Cylinder Owner (based on label)	Handling\ Disposition	Destination	Shipping Document No.	Date Shipped
1	N/A	OS #69 (mislabeled OS #50)	Empty	N/A	35	N/A	Good	-	-	-	8/19/95	N/A	Recovery	Empty	Left Empty Onsite	N/A	N/A
1	587715	AB #1	Empty	N/A	125	Genetron	Fair	54	54	0	9/5/95	N/A	Lockheed	Empty	Left Empty Onsite	N/A	N/A
1	9-280633	AB #2	Empty	N/A	125	Genetron	Fair	52	52	0	9/5/95	N/A	Lockheed	Empty	Left Empty Onsite	N/A	N/A
1	F-483825	AB #3	Empty	N/A	125	Genetron	Fair	50	50	0	9/5/95	N/A	Lockheed	Empty	Left Empty Onsite	N/A	N/A
1	318424	AB #4	Empty	N/A	125	Genetron	Fair	51	51	0	9/5/95	N/A	Lockheed	Empty	Left Empty Onsite	N/A	N/A
1	70B35588	AB #5	Empty	N/A	125	Racon	Fair	51	51	0	9/5/95	N/A	Lockheed	Empty	Left Empty Onsite	N/A	N/A
1	F-506007	AB #6	Empty	N/A	125	Genetron	Fair	52	52	0	9/5/95	N/A	Lockheed	Empty	Left Empty Onsite	N/A	N/A
1	2450F	AB #7	Empty	N/A	125	Dupont	Fair	55	55	0	9/5/95	N/A	Lockheed	Empty	Left Empty Onsite	N/A	N/A
1	FC-3752	AB #9	Empty	N/A	100	Linde	Fair	65	65	0	9/5/95	N/A	Stoody	Empty	Left Empty Onsite	N/A	N/A
1	F544802	AB #10	Empty	N/A	125	Genetron	Fair	-	-	-	9/5/95	N/A	Stoody	Empty	Left Empty Onsite	N/A	N/A
1	D980060	AB #11	Empty	N/A	125	N/A	Fair	-	-	-	9/5/95	N/A	N/A	Empty	Left Empty Onsite	N/A	N/A
1	64005N	AB #12	Empty	N/A	125	US Govt.	Fair	-	-	-	9/5/95	N/A	Stoody	Empty	Left Empty Onsite	N/A	N/A
1	CX86327PS	AB #13	Empty	N/A	125	US Govt.	Fair	-	-	-	9/5/95	N/A	N/A	Empty	Left Empty Onsite	N/A	N/A
1	CX81541PS	AB #14	Empty	N/A	125	US Govt.	Fair	-	-	-	9/5/95	N/A	Phoenix	Empty	Left Empty Onsite	N/A	N/A
1	378409	AB #15	Empty	N/A	125	Genetron	Fair	-	-	-	9/5/95	N/A	Stoody	Empty	Left Empty Onsite	N/A	N/A
1	CX80979PS	AB #16	Empty	N/A	125	US Govt.	Fair	-	-	-	9/5/95	N/A	Stoody	Empty	Left Empty Onsite	N/A	N/A
1	F476987	AB #17	Empty	N/A	125	Genetron	Fair	-	-	-	9/5/95	N/A	Stoody	Empty	Left Empty Onsite	N/A	N/A
1	5312L	AB #18	Empty	N/A	125	KCINC	Fair	-	-	-	9/5/95	N/A	Stoody	Empty	Left Empty Onsite	N/A	N/A
1	i-53899	AB #19	Empty	N/A	145	N/A	Fair	53	53	0	9/5/95	N/A	N/A	Empty	Left Empty Onsite	N/A	N/A
1	5-55	AB #20	Empty	N/A	145	N/A	Painted	53	53	0	9/5/95	N/A	N/A	Empty	Left Empty Onsite	N/A	N/A

Gas Cylinder Summary Report by Handling/Disposition

Qty	Serial No.	Cylinder No. and Location	Contents (based on label)	Contaminants (by ISI Analysis)	Maximum Capacity (pounds)	Product/ Cylinder Mfg	Condition	Gross Weight	Tare Weight	Net Weight	Date Inspected	ISI Track No.	Cylinder Owner (based on label)	Handling\ Disposition	Destination	Shipping Document No.	Date Shipped
1	61306	AB #21	Empty	N/A	145	Unitor	Painted	54	54	0	9/5/95	N/A	N/A	Empty	Left Empty Onsite	N/A	N/A
1	30740	AB #22	Empty	N/A	125	N/A	Fair	98	98	0	9/5/95	N/A	N/A	Empty	Left Empty Onsite	N/A	N/A
1	I-3398	AB #23	Empty	N/A	145	Isotron	Fair	53	53	0	9/5/95	N/A	N/A	Empty	Left Empty Onsite	N/A	N/A
1	63687	AB #24	Empty	N/A	125	KCINC	Fair	50	50	0	9/5/95	N/A	N/A	Empty	Left Empty Onsite	N/A	N/A
1	FC56507	AB #25	Empty	N/A	145	UCON	Fair	52	52	0	9/5/95	N/A	N/A	Empty	Left Empty Onsite	N/A	N/A
1	FC12654	AB #26	Empty	N/A	145	UCON	Fair	53	53	0	9/5/95	N/A	N/A	Empty	Left Empty Onsite	N/A	N/A
1	RK193452	AB #27	Empty	N/A	125	Arcton ICI	Fair	70	70	0	9/5/95	N/A	UCSD	Empty	Left Empty Onsite	N/A	N/A
1	40792G	AB #28	Empty	N/A	125	KCINC	Fair	54	54	0	9/5/95	N/A	Stoody	Empty	Left Empty Onsite	N/A	N/A
1	1344LE	AB #29	Empty	N/A	192	N/A	Fair	47	47	0	9/5/95	N/A	N/A	Empty	Left Empty Onsite	N/A	N/A
1	87440	AB #30	Empty	N/A	145	KCINC	Fair	53	53	0	9/5/95	N/A	N/A	Empty	Left Empty Onsite	N/A	N/A
1	1217553X	AB #31	Empty	N/A	145	N/A	Painted	51	51	0	9/5/95	N/A	N/A	Empty	Left Empty Onsite	N/A	N/A
1	4322F	AB #32	Empty	N/A	145	KCINC	Fair	54	54	0	9/5/95	N/A	N/A	Empty	Left Empty Onsite	N/A	N/A
1	-	AB #33	Empty	N/A	145	N/A	Painted	54	54	0	9/5/95	N/A	Stoody	Empty	Left Empty Onsite	N/A	N/A
1	FC60703	AB #34	Empty	N/A	145	UCON	Fair	58	58	0	9/5/95	N/A	N/A	Empty	Left Empty Onsite	N/A	N/A
1	1-11836	AB #35	Empty	N/A	145	N/A	Fair	53	53	0	9/5/95	N/A	N/A	Empty	Left Empty Onsite	N/A	N/A
1	FC8982	AB #36	Empty	N/A	145	UCON	Fair	50	50	0	9/5/95	N/A	N/A	Empty	Left Empty Onsite	N/A	N/A
1	689805G	AB #37	Empty	N/A	10	N/A	Fair	-	-	-	9/5/95	N/A	N/A	Empty	Left Empty Onsite	N/A	N/A
1	N/A	AB #47	Empty	N/A	2	PCR	Fair	2	2	0	9/5/95	N/A	N/A	Empty	Left Empty Onsite	N/A	N/A
1	N/A	AB #48	Empty	N/A	2	PCR	Fair	2	2	0	9/5/95	N/A	N/A	Empty	Left Empty Onsite	N/A	N/A
1	N/A	AB #51	Empty	N/A	2	N/A	Fair	2	2	0	9/5/95	N/A	N/A	Empty	Left Empty Onsite	N/A	N/A
1	N/A	AB #52	Empty	N/A	2	N/A	Fair	2	2	0	9/5/95	N/A	N/A	Empty	Left Empty Onsite	N/A	N/A

Qty	Serial No.	Cylinder No. and Location	Contents (based on label)	Contaminants (by ISI Analysis)	Maximum Capacity (pounds)	Product/ Cylinder Mfg	Condition	Gross Weight	Tare Weight	Net Weight	Date Inspected	ISI Track No.	Cylinder Owner (based on label)	Handling\ Disposition	Destination	Shipping Document No.	Date Shipped
1	N/A	AB #53	Empty	N/A	2	N/A	Fair	2	2	0	9/5/95	N/A	N/A	Empty	Left Empty Onsite	N/A	N/A
1	N/A	AB #54	Empty	N/A	0.25	N/A	Fair	0.5	0.5	0	9/5/95	N/A	N/A	Empty	Left Empty Onsite	N/A	N/A
104														**Total Empty Left Onsite**	**104**		
1	95798	EL #2	Helium	N/A	145	Matheson	Good	90	85	5	8/7/95	N/A	Matheson	Product	Left Product Onsite	N/A	N/A
1	5481	EL #3	Helium	N/A	145	Matheson	Good	128	85	43	8/7/95	N/A	Matheson	Product	Left Product Onsite	N/A	N/A
1	DT-3-2	NE #4	Unknown	.08% Other	15	WC	Fair	10.4	9.2	1.2	8/7/95	895313	N/A	Product	Left Product Onsite	N/A	N/A
1	T-50027	NL #15	R-13	<.1%	145	"A&R Equip"	Good	233	142	91	8/7/95	895265	GD San Diego	Product	Left Product Onsite	N/A	N/A
1	80291	NL #18	R-14	.25% Other	80	Matheson	Good	140	52	88	8/7/95	895266	Cold Air	Product	Left Product Onsite	N/A	N/A
1	JD 13037	SW #1	R-13B1	.14% Other	30	Dupont KCINC	Fair	49.6	45	4.6	8/7/95	895333	Dupont	Product	Left Product Onsite	N/A	N/A
1	DD-1037	SW #2	R-152a	<.1% Other	10	Genetron	Fair	11	8	3	8/7/95	895312	N/A	Product	Left Product Onsite	N/A	N/A
1	P-7506	SW #19	R-152a	.12% Other	20	Allied	Bad	21.4	20	1.4	8/7/95	895282	Allied	Product	Left Product Onsite	N/A	N/A
1	-	L #1	R-12	<.05%	30	Racon		-	-	-	8/7/95	895327	N/A	Product	Left Product Onsite	N/A	N/A
1	-	L #2	R-502	<.05%	30	Dupont		-	-	-	8/7/95	895315	N/A	Product	Left Product Onsite	N/A	N/A
1	N/A	X #5	R-22	< .1% Other	30	N/A	Bad	11	8	3	8/7/95	895326	N/A	Product	Left Product Onsite	N/A	N/A
31	N/A	OS #1 - 31	R-12	N/A	35	N/A	Good	-	-	-	8/19/95	N/A	US Govt	Product	Left Product Onsite	N/A	N/A
1	N/A	OS #32	R-12	<.08% Other	35	N/A	Good	-	-	-	8/19/95	895319	US Govt	Product	Left Product Onsite	N/A	N/A
43														**Total Product Left Onsite**	**43**		
232														**Grand Total Cylinders**	**232**		

APPENDIX I

ANALYTICAL DATA - REFRIGERANTS

Integral Sciences Incorporated

1717 Arlingate Lane
Columbus, Ohio 43228

(614) 279-8090
(800) 745-8091
Fax (614) 279-4642

Haz Mat Services
Travis Findly
4661 Avocado Avenue
Yorba Linda, CA 92686

Customer Reference Number:	Omega HLA
Sample Cylinder Number:	MW1
Purchase Order Number:	200
ISI Tracking Number:	895272
Date Analyzed:	8/22/95
Refrigerant Analyzed:	R-22 (Chlorodifluoromethane)

Certificate of Analysis

Test	Result	ARI 700 Maximum
Acidity (ppm by weight)	<.1	1
Boiling Point (F at 29.92 in. Hg)	fail	-41.4
Boiling Range (F for 5%-85% vol. dist.)	fail	0.5
Chloride (pass / fail)	pass	pass
High Boiling Residue (% by volume)	.05	.01
Non-condensables (% by volume)	1.46	1.5
Other Refrigerants (% by weight)	10.7*	.5
Particulates / Solids (pass / fail)	pass	pass
Water (ppm by weight)	168	10

** Predominantly R-12.*

This sample was tested in accordance with Appendix 93 of ARI Standard 700. The estimated accuracy of these measurements appears in Appendix 93. These results apply only to the item described in this report, which shall not be reproduced except in full without obtaining prior written approval from Integral Sciences Incorporated. This test was not at the request of ARI and therefore is not part of the ARI Certification Program for Reclaimed Refrigerants.

8/22/95

Andrew M. Gbur, Laboratory Manager

R-22

Customer: Hazmat

ISI#: 895272
Date: 22-Aug-95

Refrigerant	R. Time	Area	Avg RRF	Mass%	
Methane	2.25	809	0.1050	0.0001	
R-23	2.82	0	2.8020	0.0000	
Ethene	3.43	993	0.0833	0.0001	
Ethane	3.99	0	0.1109	0.0000	
R-13	4.57	0	2.9419	0.0000	
R-143a	5.23	0	0.2515	0.0000	
R-152a	6.08	933490	0.1902	0.1638	
R-134a	6.61	0	0.4386	0.0000	
R-115	10.82	31626	1.3124	0.0383	
Propene	10.47	0	0.0836	0.0000	
R-22	6.92	9.6843E+07	1.0000	89.3237	**OR Value** **10.6763**
R-12	12.81	5324900	2.1119	10.3723	
R-142b	13.5	0	0.2980	0.0000	
R-124	15.43	0	0.7281	0.0000	
R-133a	16.05	0	0.3797	0.0000	
R-21	16.59	0	1.5360	0.0000	
Isobutane	17.1	15782	0.0818	0.0012	
R-114	18.05	0	1.2537	0.0000	
N-Butane	18.84	0	0.0000	0.0000	
2Butene	19.61	0	3.4894	0.0000	
R-11	19.99	39809	2.7405	0.1006	
R-123	21.89	0	0.4307	0.0000	
R-113	24.23	0	0.6076	0.0000	
R-123a	21.2	0	0.4640	0.0000	
R-160	14.91	0	0.2149	0.0000	

Analyzed by: Glenn Kuper

Integral Sciences Incorporated

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Fax (614) 279-4642

Haz Mat Services
Travis Findly
4661 Avocado Avenue
Yorba Linda, CA 92686

Customer Reference Number:	Omega HLA
Sample Cylinder Number:	MW2
Purchase Order Number:	200
ISI Tracking Number:	895270
Date Analyzed:	8/29/95
Refrigerant Analyzed:	R-22 (Chlorodifluoromethane)

Certificate of Analysis

Test	Result	ARI 700 Maximum
Acidity (ppm by weight)	1.1	1
Boiling Point (F at 29.92 in. Hg)	fail	-41.4
Boiling Range (F for 5%-85% vol. dist.)	fail	0.5
Chloride (pass / fail)	fail	pass
High Boiling Residue (% by volume)	1.06	.01
Non-condensables (% by volume)	.88	1.5
Other Refrigerants (% by weight)	39*	.5
Particulates / Solids (pass / fail)	pass	pass
Water (ppm by weight)	502	10

** Other Refrigerants value does not include the identification or quantification of several unknowns.*

This sample was tested in accordance with Appendix 93 of ARI Standard 700. The estimated accuracy of these measurements appears in Appendix 93. These results apply only to the item described in this report, which shall not be reproduced except in full without obtaining prior written approval from Integral Sciences Incorporated. This test was not at the request of ARI and therefore is not part of the ARI Certification Program for Reclaimed Refrigerants.

8/29/95

Andrew M. Gbur, Laboratory Manager

R-22

Customer: Hazmat

ISI#: 895270
Date: 29-Aug-95

Refrigerant	R. Time	Area	Avg RRF	Mass%	
Methane	2.25	0	0.1056	0.0000	
R-23	2.82	0	2.8810	0.0000	
Ethene	3.43	0	0.0838	0.0000	
Ethane	3.95	10379	0.1118	0.0009	
R-13	4.53	0	2.9960	0.0000	
R-143a	5.18	0	0.2575	0.0000	
R-152a	6.03	43751000	0.1929	6.4500	
R-134a	6.55	0	0.4553	0.0000	
R-115	10.75	21678	1.3705	0.0220	
Propene	10.4	0	0.0841	0.0000	
R-22	6.88	7.1412E+07	1.0000	65.4470	**OR Value** **38.9914**
R-12	12.76	22895000	2.1383	28.1000	
R-142b	13.44	8128	0.3021	0.0018	
R-124	15.38	102780	0.7517	0.0573	
R-133a	16	4329	0.3864	0.0012	
R-21	16.54	219220	1.5466	0.2515	
Isobutane	17.05	1713210	0.0829	0.1054	
R-114	18	861030	1.2658	0.8085	
N-Butane	18.8	7755940	0.0912	0.5247	
2Butene	19.57	194696	3.5005	0.5056	
R-11	19.94	899050	2.7579	1.8394	
R-123	21.84	13992	0.4377	0.0045	
R-113	24.17	685800	0.6119	0.3113	
R-123a	21.16	10798	0.4689	0.0038	
R-160	14.86	20453	0.2164	0.0033	

* Other Refrigerants value does not include the identification or quantification of several unknowns.

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Haz Mat Services
Travis Findly
4661 Avocado Avenue
Yorba Linda, CA 92686

Customer Reference Number:	Omega HLA
Sample Cylinder Number:	MW3
Purchase Order Number:	200
ISI Tracking Number:	895271
Date Analyzed:	8/23/95
Refrigerant Analyzed:	R-22 (Chlorodifluoromethane)

Certificate of Analysis

Test	Result	ARI 700 Maximum
Acidity (ppm by weight)	N/A	1
Boiling Point (F at 29.92 in. Hg)	N/A	-41.4
Boiling Range (F for 5%-85% vol. dist.)	N/A	0.5
Chloride (pass / fail)	N/A	pass
High Boiling Residue (% by volume)	N/A	.01
Non-condensables (% by volume)	N/A	1.5
Other Refrigerants (% by weight)	4.6*	.5
Particulates / Solids (pass / fail)	N/A	pass
Water (ppm by weight)	N/A	10

* *Predominantly R-12.*

This sample was tested in accordance with Appendix 93 of ARI Standard 700. The estimated accuracy of these measurements appears in Appendix 93. These results apply only to the item described in this report, which shall not be reproduced except in full without obtaining prior written approval from Integral Sciences Incorporated. This test was not at the request of ARI and therefore is not part of the ARI Certification Program for Reclaimed Refrigerants.

8/23/95

Andrew M. Gbur, Laboratory Manager

R-22

Customer: Hazmat

ISI#: 895271
Date: 23-Aug-95

Refrigerant	R. Time	Area	Avg RRF	Mass%	
Methane	2.25	1319	0.1061	0.0001	
R-23	2.82	2568	2.8609	0.0063	
Ethene	3.43	1137	0.0842	0.0001	
Ethane	3.95	1664	0.1123	0.0002	
R-13	4.53	0	2.9906	0.0000	
R-143a	5.18	0	0.2548	0.0000	
R-152a	6.03	92106	0.1929	0.0153	
R-134a	6.55	0	0.4470	0.0000	
R-115	10.75	3.0446E+04	1.3373	0.0351	
Propene	10.4	0	0.0848	0.0000	
R-22	6.88	1.1074E+08	1.0000	95.3738	**OR Value** **4.6262**
R-12	12.76	2473400	2.1340	4.5458	
R-142b	13.44	0	0.3022	0.0000	
R-124	15.38	9437	0.7417	0.0060	
R-133a	16	0	0.3853	0.0000	
R-21	16.54	0	1.5464	0.0000	
Hexane	25.55	242150	0.0829	0.0173	
R-114	18	0	1.2831	0.0000	
N-Butane	18.8	0	0.0000	0.0000	
2Butene	19.57	0	3.5436	0.0000	
R-11	19.94	0	2.7545	0.0000	
R-123	21.84	0	0.4376	0.0000	
R-113	24.17	0	0.6159	0.0000	
R-123a	21.16	0	0.4708	0.0000	
R-160	14.86	0	0.2181	0.0000	

Analyzed by: Glenn Rupert

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Haz Mat Services
Travis Findly
4661 Avocado Avenue
Yorba Linda, CA 92686

Customer Reference Number:	Omega HLA
Sample Cylinder Number:	MW4
Purchase Order Number:	200
ISI Tracking Number:	895269
Date Analyzed:	8/25/95
Refrigerant Analyzed:	R-22 (Chlorodifluoromethane)

Certificate of Analysis

Test	Result	ARI 700 Maximum
Acidity (ppm by weight)	.48	1
Boiling Point (F at 29.92 in. Hg)	N/A	-41.4
Boiling Range (F for 5%-85% vol. dist.)	N/A	0.5
Chloride (pass / fail)	fail	pass
High Boiling Residue (% by volume)	.13	.01
Non-condensables (% by volume)	13.5	1.5
Other Refrigerants (% by weight)	51.6*	.5
Particulates / Solids (pass / fail)	fail	pass
Water (ppm by weight)	**	10

** Predominantly R-12, R-115, R-152a. Sample was mislabeled R-502 on receipt. ** Sample is saturated with water at 70F.*

This sample was tested in accordance with Appendix 93 of ARI Standard 700. The estimated accuracy of these measurements appears in Appendix 93. These results apply only to the item described in this report, which shall not be reproduced except in full without obtaining prior written approval from Integral Sciences Incorporated. This test was not at the request of ARI and therefore is not part of the ARI Certification Program for Reclaimed Refrigerants.

8/25/95

Andrew M. Gbur, Laboratory Manager

RRF's for R-22 **Date:** 8/25/95

Refrigerant	Area	Mass %	ARF	RRF
R-22	8057450	38.46	4.773E-06	1
R-12	5516747	25.38	4.601E-06	0.96382
R-115	5736429	33.85	5.901E-06	1.2362474
R-152a	524629	2.31	4.403E-06	0.9570864

Customer: Hazmat
ISI#: 895269

Refrigerant	Area Cts	Calc	Actual Mass %
R-22	9806001	9806001	48.45664
R-12	3203834	3087926.1	15.25908
R-115	5577307	6894931.3	34.07150
R-152a	467871	447792.96	2.21278
		20236651	

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4661 Avocado Avenue
Yorba Linda, CA 92686

Customer Reference Number:	Omega HLA
Sample Cylinder Number:	MW5
Purchase Order Number:	200
ISI Tracking Number:	895277
Date Analyzed:	8/22/95
Refrigerant Analyzed:	R-22 (Chlorodifluoromethane)

Certificate of Analysis

Test	Result	ARI 700 Maximum
Acidity (ppm by weight)	<.1	1
Boiling Point (F at 29.92 in. Hg)	fail	-41.4
Boiling Range (F for 5%-85% vol. dist.)	fail	0.5
Chloride (pass / fail)	pass	pass
High Boiling Residue (% by volume)	.016	.01
Non-condensables (% by volume)	1.64	1.5
Other Refrigerants (% by weight)	1.7*	.5
Particulates / Solids (pass / fail)	fail	pass
Water (ppm by weight)	34	10

* *Predominantly R-12.*

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8/22/95

Andrew M. Gbur, Laboratory Manager

R-22

Customer: Hazmat

ISI#: 895277
Date: 22-Aug-95

Refrigerant	R. Time	Area	Avg RRF	Mass%	
Methane	2.25	426	0.1050	0.0000	
R-23	2.82	9190	2.8020	0.0241	
Ethene	3.43	5458	0.0833	0.0004	
Ethane	3.99	5166	0.1109	0.0005	
R-13	4.57	1633	2.9419	0.0045	
R-143a	5.23	0	0.2515	0.0000	
R-152a	6.08	70644	0.1902	0.0126	
R-134a	6.61	0	0.4386	0.0000	
R-115	10.82	121930	1.3124	0.1497	
Propene	10.47	11614	0.0836	0.0009	
R-22	6.92	1.0511E+08	1.0000	98.3309	**OR Value** **1.6691**
R-12	12.81	733130	2.1119	1.4484	
R-142b	13.5	0	0.2980	0.0000	
R-124	15.43	40819	0.7281	0.0278	
R-133a	16.05	0	0.3797	0.0000	
R-21	16.59	0	1.5360	0.0000	
Isobutane	17.1	1303	0.0818	0.0001	
R-114	18.05	0	1.2537	0.0000	
N-Butane	18.84	0	0.0000	0.0000	
2Butene	19.61	0	3.4894	0.0000	
R-11	19.99	0	2.7405	0.0000	
R-123	21.89	0	0.4307	0.0000	
R-113	24.23	0	0.6076	0.0000	
R-123a	21.2	0	0.4640	0.0000	
R-160	14.91	0	0.2149	0.0000	

Analyzed by: Glenn Lupo

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Haz Mat Services
Travis Findly
4661 Avocado Avenue
Yorba Linda, 92686

Customer Reference Number:	Omega HLA
Sample Cylinder Number:	MW6
Purchase Order Number:	200
ISI Tracking Number:	895276
Date Analyzed:	8/21/95
Refrigerant Analyzed:	R-22 (Chlorodifluoromethane)

Certificate of Analysis

Test	Result	ARI 700 Maximum
Acidity (ppm by weight)	1.1	1
Boiling Point (F at 29.92 in. Hg)	fail	-41.4
Boiling Range (F for 5%-85% vol. dist.)	fail	0.5
Chloride (pass / fail)	fail	pass
High Boiling Residue (% by volume)	.45	.01
Non-condensables (% by volume)	2.96	1.5
Other Refrigerants (% by weight)	2.15*	.5
Particulates / Solids (pass / fail)	pass	pass
Water (ppm by weight)	183	10

** Predominantly R-12.*

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8/21/95

Andrew M. Gbur, Laboratory Manager

R-22

Customer: Hazmat

ISI#: 895276
Date: 21-Aug-95

Refrigerant	R. Time	Area	Avg RRF	Mass%	
Methane	2.25	710	0.1016	0.0001	
R-23	2.82	2716	2.6615	0.0069	
Ethene	3.43	4222	0.0803	0.0003	
Ethane	3.99	2978	0.1068	0.0003	
R-13	4.57	1750	2.8649	0.0048	
R-143a	5.23	0	0.2384	0.0000	
R-152a	6.08	61351	0.1821	0.0107	
R-134a	6.61	0	0.4095	0.0000	
R-115	10.82	286830	1.2274	0.3377	
Propene	10.47	0	0.0806	0.0000	
R-22	6.92	1.0201E+08	1.0000	97.8492	**OR Value** **2.1508**
R-12	12.81	884030	2.1087	1.7881	
R-142b	13.5	0	0.2848	0.0000	
R-124	15.43	0	0.6923	0.0000	
R-133a	16.05	0	0.3635	0.0000	
R-21	16.59	1238	1.5188	0.0018	
Isobutane	17.1	0	0.0787	0.0000	
R-114	18.05	0	1.1926	0.0000	
N-Butane	18.84	0	0.0000	0.0000	
2Butene	19.61	0	3.3701	0.0000	
R-11	19.99	0	2.7759	0.0000	
R-123	21.89	0	0.4137	0.0000	
R-113	24.23	0	0.5830	0.0000	
R-123a	21.2	0	0.4447	0.0000	
R-160	14.91	0	0.2069	0.0000	

Analyzed by: _____

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Haz Mat Services
Travis Findly
4661 Avocado Avenue
Yorba Linda, CA 92686

Customer Reference Number:	Omega HLA
Sample Cylinder Number:	MW7
Purchase Order Number:	200
ISI Tracking Number:	895273
Date Analyzed:	8/22/95
Refrigerant Analyzed:	R-22 (Chlorodifluoromethane)

Certificate of Analysis

Test	Result	ARI 700 Maximum
Acidity (ppm by weight)	9.5	1
Boiling Point (F at 29.92 in. Hg)	fail	-41.4
Boiling Range (F for 5%-85% vol. dist.)	fail	0.5
Chloride (pass / fail)	fail	pass
High Boiling Residue (% by volume)	1.1	.01
Non-condensables (% by volume)	.59	1.5
Other Refrigerants (% by weight)	7.9*	.5
Particulates / Solids (pass / fail)	fail	pass
Water (ppm by weight)	193	10

** Predominantly R-12. Sample was mislabeled as R-12 upon receipt*

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8/22/95

Andrew M. Gbur, Laboratory Manager

R-22

Customer: Hazmat

ISI#: 895273
Date: 22-Aug-95

Refrigerant	R. Time	Area	Avg RRF	Mass%	
Methane	2.25	560	0.1050	0.0000	
R-23	2.82	5052	2.8020	0.0118	
Ethene	3.43	848	0.0833	0.0001	
Ethane	3.99	1519	0.1109	0.0001	
R-13	4.57	3854	2.9419	0.0095	
R-143a	5.23	0	0.2515	0.0000	
R-152a	6.08	57867	0.1902	0.0092	
R-134a	6.61	0	0.4386	0.0000	
R-115	10.82	85411	1.3124	0.0938	
Propene	10.47	0	0.0836	0.0000	
R-22	6.92	1.1010E+08	1.0000	92.1343	**OR Value** **7.8657**
R-12	12.81	4366100	2.1119	7.7160	
R-142b	13.5	0	0.2980	0.0000	
R-124	15.43	5639	0.7281	0.0034	
R-133a	16.05	0	0.3797	0.0000	
R-21	16.59	7447	1.5360	0.0096	
Isobutane	17.1	0	0.0818	0.0000	
R-114	18.05	0	1.2537	0.0000	
N-Butane	18.84	0	0.0000	0.0000	
2Butene	19.61	0	3.4894	0.0000	
R-11	19.99	5268	2.7405	0.0121	
R-123	21.89	0	0.4307	0.0000	
R-113	24.23	0	0.6076	0.0000	
R-123a	21.2	0	0.4640	0.0000	
R-160	14.91	0	0.2149	0.0000	

Analyzed by: Glenn Rupard

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Travis Findly
4661 Avocado Avenue
Yorba Linda, CA 92686

Customer Reference Number:	Omega HLA
Sample Cylinder Number:	MW8
Purchase Order Number:	200
ISI Tracking Number:	895275
Date Analyzed:	8/22/95
Refrigerant Analyzed:	R-22 (Chlorodifluoromethane)

Certificate of Analysis

Test	Result	ARI 700 Maximum
Acidity (ppm by weight)	N/A	1
Boiling Point (F at 29.92 in. Hg)	N/A	-41.4
Boiling Range (F for 5%-85% vol. dist.)	N/A	0.5
Chloride (pass / fail)	N/A	pass
High Boiling Residue (% by volume)	N/A	.01
Non-condensables (% by volume)	N/A	1.5
Other Refrigerants (% by weight)	2.7*	.5
Particulates / Solids (pass / fail)	N/A	pass
Water (ppm by weight)	N/A	10

** Predominantly R-12.*

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8/22/95

Andrew M. Gbur, Laboratory Manager

R-22

Customer: Hazmat

ISI#: 895275
Date: 22-Aug-95

Refrigerant	R. Time	Area	Avg RRF	Mass%
Methane	2.25	729	0.1050	0.0001
R-23	2.82	23406	2.8020	0.0566
Ethene	3.43	3689	0.0833	0.0003
Ethane	3.99	2282	0.1109	0.0002
R-13	4.57	3856	2.9419	0.0098
R-143a	5.23	0	0.2515	0.0000
R-152a	6.08	2664200	0.1902	0.4371
R-134a	6.61	0	0.4386	0.0000
R-115	10.82	231120	1.3124	0.2616
Propene	10.47	0	0.0836	0.0000
R-22	6.92	1.1275E+08	1.0000	97.2505
R-12	12.81	926630	2.1119	1.6879
R-142b	13.5	0	0.2980	0.0000
R-124	15.43	125880	0.7281	0.0790
R-133a	16.05	0	0.3797	0.0000
R-21	16.59	16766	1.5360	0.0222
Isobutane	17.1	0	0.0818	0.0000
R-114	18.05	991	1.2537	0.0011
N-Butane	18.84	0	0.0000	0.0000
2Butene	19.61	0	3.4894	0.0000
R-11	19.99	81924	2.7405	0.1937
R-123	21.89	0	0.4307	0.0000
R-113	24.23	0	0.6076	0.0000
R-123a	21.2	0	0.4640	0.0000
R-160	14.91	0	0.2149	0.0000

OR Value
2.7495

Analyzed by: Glen Rupert

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Haz Mat Services
Travis Findly
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Customer Reference Number:	Omega HLA
Sample Cylinder Number:	MW9
Purchase Order Number:	200
ISI Tracking Number:	895274
Date Analyzed:	8/21/95
Refrigerant Analyzed:	R-22 (Chlorodifluoromethane)

Certificate of Analysis

Test	Result	ARI 700 Maximum
Acidity (ppm by weight)	6.6	1
Boiling Point (F at 29.92 in. Hg)	fail	-41.4
Boiling Range (F for 5%-85% vol. dist.)	fail	0.5
Chloride (pass / fail)	fail	pass
High Boiling Residue (% by volume)	.33	.01
Non-condensables (% by volume)	8.4	1.5
Other Refrigerants (% by weight)	20.2*	.5
Particulates / Solids (pass / fail)	fail	pass
Water (ppm by weight)	45	10

** Predominantly R-12.*

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8/21/95

Andrew M. Gbur, Laboratory Manager

R-22

Customer: Hazmat

ISI#: 895274
Date: 21-Aug-95

Refrigerant	R. Time	Area	Avg RRF	Mass%	
Methane	2.25	2244	0.1016	0.0002	
R-23	2.82	14881	2.6615	0.0327	
Ethene	3.43	5582	0.0803	0.0004	
Ethane	3.99	4871	0.1068	0.0004	
R-13	4.57	1911	2.8649	0.0045	
R-143a	5.23	0	0.2384	0.0000	
R-152a	6.08	27135	0.1821	0.0041	
R-134a	6.61	0	0.4095	0.0000	
R-115	10.82	3533	1.2274	0.0036	
Propene	10.47	0	0.0806	0.0000	
R-22	6.92	9.6614E+07	1.0000	79.7633	**OR Value** **20.2367**
R-12	12.81	11587000	2.1087	20.1720	
R-142b	13.5	0	0.2848	0.0000	
R-124	15.43	0	0.6923	0.0000	
R-133a	16.05	0	0.3635	0.0000	
R-21	16.59	15027	1.5188	0.0188	
Isobutane	17.1	0	0.0787	0.0000	
R-114	18.05	0	1.1926	0.0000	
N-Butane	18.84	0	0.0000	0.0000	
2Butene	19.61	0	3.3701	0.0000	
R-11	19.99	0	2.7759	0.0000	
R-123	21.89	0	0.4137	0.0000	
R-113	24.23	0	0.5830	0.0000	
R-123a	21.2	0	0.4447	0.0000	
R-160	14.91	0	0.2069	0.0000	

Analyzed by: Helen Rupard

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Haz Mat Services
Travis Findly
4661 Avocado Avenue
Yorba Linda, CA 92686

Customer Reference Number:	Omega HLA
Sample Cylinder Number:	MW10
Purchase Order Number:	200
ISI Tracking Number:	895278
Date Analyzed:	8/23/95
Refrigerant Analyzed:	R-22 (Chlorodifluoromethane)

Certificate of Analysis

Test	Result	ARI 700 Maximum
Acidity (ppm by weight)	1.96	1
Boiling Point (F at 29.92 in. Hg)	fail	-41.4
Boiling Range (F for 5%-85% vol. dist.)	fail	0.5
Chloride (pass / fail)	N/A*	pass
High Boiling Residue (% by volume)	N/A*	.01
Non-condensables (% by volume)	.84	1.5
Other Refrigerants (% by weight)	3.12**	.5
Particulates / Solids (pass / fail)	N/A*	pass
Water (ppm by weight)	439	10

* *Insufficient sample to perform analysis.*

** *Predominantly R-12.*

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8/23/95

Andrew M. Gbur, Laboratory Manager

R-22

Customer: Hazmat

ISI#: 895278
Date: 21-Aug-95

Refrigerant	R. Time	Area	Avg RRF	Mass%	
Methane	2.25	0	0.1016	0.0000	
R-23	2.82	920	2.6615	0.0023	
Ethene	3.43	0	0.0803	0.0000	
Ethane	3.99	0	0.1068	0.0000	
R-13	4.57	0	2.8649	0.0000	
R-143a	5.23	0	0.2384	0.0000	
R-152a	6.08	941170	0.1821	0.1632	
R-134a	6.61	0	0.4095	0.0000	
R-115	10.82	46779	1.2274	0.0547	
Propene	10.47	0	0.0806	0.0000	
R-22	6.92	1.0177E+08	1.0000	96.8757	**OR Value** **3.1243**
R-12	12.81	1446800	2.1087	2.9041	
R-142b	13.5	0	0.2848	0.0000	
R-124	15.43	0	0.6923	0.0000	
R-133a	16.05	0	0.3635	0.0000	
R-21	16.59	0	1.5188	0.0000	
Isobutane	17.1	0	0.0787	0.0000	
R-114	18.05	0	1.1926	0.0000	
N-Butane	18.84	0	0.0000	0.0000	
2Butene	19.61	0	3.3701	0.0000	
R-11	19.99	0	2.7759	0.0000	
R-123	21.89	0	0.4137	0.0000	
R-113	24.23	0	0.5830	0.0000	
R-123a	21.2	0	0.4447	0.0000	
R-160	14.91	0	0.2069	0.0000	

Analyzed by: _____

Integral Sciences Incorporated

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Haz Mat Services
Travis Findly
4661 Avocado Avenue
Yorba Linda, CA 92686

Customer Reference Number:	Omega HLA
Sample Cylinder Number:	20K
Purchase Order Number:	200
ISI Tracking Number:	895325
Date Analyzed:	8/23/95
Refrigerant Analyzed:	R-22 (Chlorodifluoromethane)

Certificate of Analysis

Test	Result	ARI 700 Maximum
Acidity (ppm by weight)	N/A	1
Boiling Point (F at 29.92 in. Hg)	N/A	-41.4
Boiling Range (F for 5%-85% vol. dist.)	N/A	0.5
Chloride (pass / fail)	N/A	pass
High Boiling Residue (% by volume)	N/A	.01
Non-condensables (% by volume)	.03	1.5
Other Refrigerants (% by weight)	.74*	.5
Particulates / Solids (pass / fail)	N/A	pass
Water (ppm by weight)	N/A	10

** Predominantly R-12.*

This sample was tested in accordance with Appendix 93 of ARI Standard 700. The estimated accuracy of these measurements appears in Appendix 93. These results apply only to the item described in this report, which shall not be reproduced except in full without obtaining prior written approval from Integral Sciences Incorporated. This test was not at the request of ARI and therefore is not part of the ARI Certification Program for Reclaimed Refrigerants.

8/23/95

Andrew M. Gbur, Laboratory Manager

R-22

Customer: Hazmat

ISI#: 895325
Date: 23-Aug-95

Refrigerant	R. Time	Area	Avg RRF	Mass%	
Methane	2.25	677	0.1061	0.0001	
R-23	2.82	5526	2.8609	0.0146	
Ethene	3.43	2018	0.0842	0.0002	
Ethane	3.95	3367	0.1123	0.0003	
R-13	4.53	2598	2.9906	0.0072	
R-143a	5.18	0	0.2548	0.0000	
R-152a	6.03	139380	0.1929	0.0248	
R-134a	6.55	0	0.4470	0.0000	
R-115	10.75	1.3928E+05	1.3373	0.1721	
Propene	10.4	21638	0.0848	0.0017	
					OR Value
R-22	6.88	1.0741E+08	1.0000	99.2587	**0.7413**
R-12	12.76	250400	2.1340	0.4938	
R-142b	13.44	0	0.3022	0.0000	
R-124	15.38	9232	0.7417	0.0063	
R-133a	16	0	0.3853	0.0000	
R-21	16.54	2474	1.5464	0.0035	
Isobutane	17.05	4939	0.0829	0.0004	
R-114	18	9537	1.2831	0.0113	
N-Butane	18.8	3147	0.0000	0.0000	
2Butene	19.57	0	3.5436	0.0000	
R-11	19.94	1198	2.7545	0.0030	
R-123	21.84	0	0.4376	0.0000	
R-113	24.17	0	0.6159	0.0000	
R-123a	21.16	0	0.4708	0.0000	
R-160	14.86	9352	0.2181	0.0019	

Analyzed by: Glen Rupert

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Haz Mat Services
Travis Findly
4661 Avocado Avenue
Yorba Linda, CA 92686

Customer Reference Number:	32026-44
Sample Cylinder Number:	20KA
Purchase Order Number:	203
ISI Tracking Number:	995758
Date Analyzed:	9/11/95
Refrigerant Analyzed:	R-22 (Chlorodifluoromethane)

Certificate of Analysis

Test	Result	ARI 700 Maximum
Acidity (ppm by weight)	66	1
Boiling Point (F at 29.92 in. Hg)	fail	-41.4
Boiling Range (F for 5%-85% vol. dist.)	fail	0.5
Chloride (pass / fail)	fail	pass
High Boiling Residue (% by volume)	1.51***	.01
Non-condensables (% by volume)	.24	1.5
Other Refrigerants (% by weight)	.75*	.5
Particulates / Solids (pass / fail)	fail**	pass
Water (ppm by weight)	250	10

** Predominantly R-12. Sample contained a small amount of unknowns.*

*** Sample contained a high conent of blue particulate material.*

**** Residue contained a blue material which was insoluble with oil.*

This sample was tested in accordance with Appendix 93 of ARI Standard 700. The estimated accuracy of these measurements appears in Appendix 93. These results apply only to the item described in this report, which shall not be reproduced except in full without obtaining prior written approval from Integral Sciences Incorporated. This test was not at the request of ARI and therefore is not part of the ARI Certification Program for Reclaimed Refrigerants.

9/11/95

Andrew M. Gbur, Laboratory Manager

R-22

Customer: HAZMAT

ISI#: 995758
Date: 11-Sep-95

Refrigerant	R. Time	Area	Avg RRF	Mass%
Methane	2.25	0	0.1078	0.0000
R-23	2.82	2847	3.0032	0.0076
Ethene	3.43	689	0.0000 0.0856	0.0001
Ethane	3.95	1574	0.1143	0.0002
R-13	4.53	0	3.0390	0.0000
R-143a	5.18	0	0.2630	0.0000
R-152a	6.08	215500	0.1971	0.0375
R-134a	6.55	0	0.4670	0.0000
R-115	10.75	104260	1.4158	0.1305
Propene	10.4	18872	0.0863	0.0014
R-22	6.88	1.1227E+08	1.0000	99.2488
R-12	12.76	268420	2.1716	0.5153
R-142b	13.44	0	0.3097	0.0000
R-124	15.38	16257	0.7714	0.0111
R-133a	16	0	0.3961	0.0000
R-21	16.54	6226	1.5697	0.0086
Isobutane	17.05	2230	0.0848	0.0002
R-114	18	19425	1.3008	0.0223
N-Butane	18.8	18993	0.0000	0.0000
2Butene	19.57	0	3.6646	0.0000
R-11	19.94	6644	2.8062	0.0165
R-123	21.84	0	0.4491	0.0000
R-113	24.17	0	0.6310	0.0000
R-123a	21.16	0	0.4818	0.0000
R-160	14.86	0	0.2222	0.0000

OR Value
0.7512

Analyzed by: Glenn Kilgard

• 1505-C Dupont St.
• Ontario, CA 91761
• (909) [illegible] 390-6928
• FAX (909) [illegible] 390-6930

6 September 1995

Haz Mat Services
4661 Avacado Ave.
Yorba Linda Ca. 92686

Re: Other Refrigerants Test and High Boiling Residue Test.

Dear Travis:

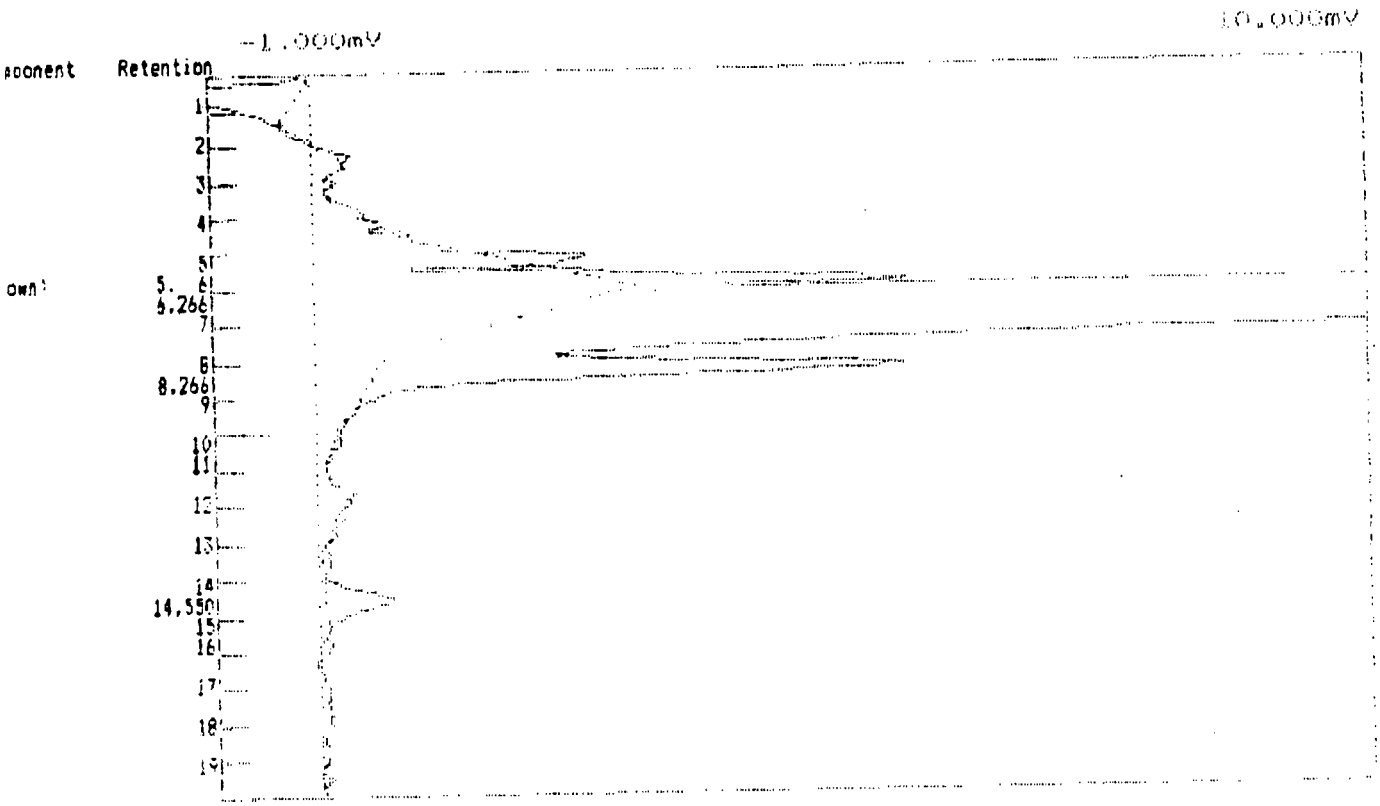
The enclosed test results were achieved on 5 September 1995. As noted the results for other refrigerants showed as .9 % mixed. Of the five tests performed, this was the highest, the average was .83%. The High Boiling Residue test shows between 5 and 7 % Hbr residue, The equipment used is calbrated for results between .05 and .2 % so above that level is an estimate. High particulate matter was detected, along with DYETAL Leek detector chemical. Since the Refrigerant is mixed with other refrigerants, this refrigerant will automatically fail the Boiling Point and Boiling Range test. Acidity, Chloride and Water testing was not performed.

Sincerely,

Roger Albisser
Regional Manager

Enclosed

Lab name : rrca ontario
Client : HAZ MAT SERVICES
Client ID : OMEGA PRP
ıalysis date : 09/05/1995 10:16:15
Method : Direct Injection
Lab ID : 105
Description : R-22, 20,000
Column : AT-1000, 1% CARBOGRAPH B
Carrier : Helium
Data file : 1 (B:\)
Sample : .5 microliter of stndrd



Component	Retention	Height	Area	Area %
nknown)	5.983	2.685	57.51 M	0.21
22	6.266	843.396	26747.42 M	99.10
12	8.266	5.030	161.31	0.60
11	14.550	0.688	24.87	0.09
4			26991.11	100.00

High Boiling Residue (% by Volume) Approximately 5-7 %

Particulates / Solids: Heavy Contamination
DYETAL LEEK Detector

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Haz Mat Services
Travis Findly
4661 Avocado Avenue
Yorba Linda, CA 92686

Customer Reference Number:	Omega HLA
Sample Cylinder Number:	NE2
Purchase Order Number:	200
ISI Tracking Number:	895323
Date Analyzed:	8/25/95
Refrigerant Analyzed:	R-11 (Trichlorofluoromethane)

Certificate of Analysis

Test	Result	ARI 700 Maximum
Acidity (ppm by weight)	N/A	1
Boiling Point (F at 29.92 in. Hg)	N/A	74.9
Boiling Range (F for 5%-85% vol. dist.)	N/A	0.5
Chloride (pass / fail)	N/A	pass
High Boiling Residue (% by volume)	N/A	.01
Non-condensables (% by volume)	N/A	N/A
Other Refrigerants (% by weight)	.80*	.5
Particulates / Solids (pass / fail)	N/A	pass
Water (ppm by weight)	N/A	20

** Predominantly R-22. Sample was mislabeled as R-22 upon receipt.*

This sample was tested in accordance with Appendix 93 of ARI Standard 700. The estimated accuracy of these measurements appears in Appendix 93. These results apply only to the item described in this report, which shall not be reproduced except in full without obtaining prior written approval from Integral Sciences Incorporated. This test was not at the request of ARI and therefore is not part of the ARI Certification Program for Reclaimed Refrigerants.

8/25/95

Andrew M. Gbur, Laboratory Manager

R-11

Customer: HAZMAT **ISI#:** 895323

Date: 24-Aug-95

Refrigerant	R. Time	Area	Avg RRF	Mass%	
R-134a	5.48	0	1.0419	0.0000	
R-22	5.82	314300	3.4670	0.5723	
R-115	7.37	0	2.7091	0.0000	
R-12	8.58	2304	3.4511	0.0042	
R-1113	9.28	0	0.8483	0.0000	
R-133a	10.88	0	0.7634	0.0000	
R-21	11.38	156100	2.6820	0.2199	
R-30	12.2	0	1.4786	0.0000	
R-114	12.66	0	2.0317	0.0000	
n-Butane	13.24	0	0.2194	0.0000	
					OR Value
R-11	**14.5**	**188900000**	**1.0000**	**99.2037**	**0.7963**
R-123a	15.6	0	1.0650	0.0000	
R-123	16.23	0	0.7765	0.0000	
R-113	18.73	0	1.1988	0.0000	
R-140a	21.39	0	0.8253	0.0000	
R-10	22.18	0	2.4862	0.0000	
R-1120	27.4	0	0.7708	0.0000	

Analyzed by: _____ DS: Y

Title: Analytical Chemist

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Haz Mat Services
Travis Findly
4661 Avocado Avenue
Yorba Linda, CA 92686

Customer Reference Number:	Omega HLA
Sample Cylinder Number:	NE4
Purchase Order Number:	200
ISI Tracking Number:	895313
Date Analyzed:	8/22/95
Refrigerant Analyzed:	R-12 (Dichlorodifluoromethane)

Certificate of Analysis

Test	Result	ARI 700 Maximum
Acidity (ppm by weight)	N/A	1
Boiling Point (F at 29.92 in. Hg)	N/A	-21.6
Boiling Range (F for 5%-85% vol. dist.)	N/A	0.5
Chloride (pass / fail)	N/A	pass
High Boiling Residue (% by volume)	N/A	.01
Non-condensables (% by volume)	N/A	1.5
Other Refrigerants (% by weight)	.08*	.5
Particulates / Solids (pass / fail)	N/A	pass
Water (ppm by weight)	N/A	10

** Sample was received as a vapor and therefor this sample does not conform to the requirements of the standard.*

This sample was tested in accordance with Appendix 93 of ARI Standard 700. The estimated accuracy of these measurements appears in Appendix 93. These results apply only to the item described in this report, which shall not be reproduced except in full without obtaining prior written approval from Integral Sciences Incorporated. This test was not at the request of ARI and therefore is not part of the ARI Certification Program for Reclaimed Refrigerants.

8/22/95

Andrew M. Gbur, Laboratory Manager

R-12

Customer: HAZMAT

ISI#: 895313
Date: 22-Aug-95

Refrigerant	R. Time	Area	Avg RRF	Mass%	
Methane	2.63	0	0.0592	0.0000	
R-23	3.33	0	1.4747	0.0000	
Ethene	4.05	0	0.0526	0.0000	
Ethane	4.72	0	0.0554	0.0000	
R-13	5.42	0	1.4228	0.0000	
R-143a	6.2	0	0.1464	0.0000	
R-152a	7.1	0	0.1196	0.0000	
R-134a	7.85	0	0.2922	0.0000	
R-115	12.52	306.94	0.8769	0.0126	
Propene	12.14	665.51	0.0513	0.0016	
					OR Value
R-12	**14.8**	**2126440**	1.0000	**99.9182**	**0.0818**
R-22	8.58	514.62	0.9236	0.0223	
R-142b	15.5	532.73	0.1725	0.0043	
R-124	17.32	0	0.4163	0.0000	
R-133a	17.97	0	0.2223	0.0000	
R-21	18.55	0	0.7946	0.0000	
Isobutane	19.1	1997.17	0.0562	0.0053	
R-114	20.09	683.55	0.6839	0.0220	
N-Butane	20.91	0	0.0000	0.0000	
2Butene	21.73	0	2.3516	0.0000	
R-11	22.22	0	1.3248	0.0000	
R-123	24.46	0	0.3258	0.0000	
R-113	27.54	630.55	0.4593	0.0136	
R-123a	23.63	0	0.3424	0.0000	
R-160	16.87	0	0.1405	0.0000	

Analyzed by: Glenn Ryan

Integral Sciences Incorporated

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Haz Mat Services
Travis Findly
4661 Avocado Avenue
Yorba Linda, CA 92686

Customer Reference Number:	Omega HLA
Sample Cylinder Number:	NL1
Purchase Order Number:	200
ISI Tracking Number:	895268
Date Analyzed:	8/23/95
Refrigerant Analyzed:	R-13 (Chlorotrifluoromethane)

Certificate of Analysis

Test	Result	ARI 700 Maximum
Acidity (ppm by weight)	N/A	1
Boiling Point (F at 29.92 in. Hg)	N/A	-114.6
Boiling Range (F for 5%-85% vol. dist.)	N/A	0.9
Chloride (pass / fail)	N/A	pass
High Boiling Residue (% by volume)	N/A	.05
Non-condensables (% by volume)	<.02	1.5
Other Refrigerants (% by weight)	.13	.5
Particulates / Solids (pass / fail)	N/A	pass
Water (ppm by weight)	N/A	10

This sample was tested in accordance with Appendix 93 of ARI Standard 700. The estimated accuracy of these measurements appears in Appendix 93. These results apply only to the item described in this report, which shall not be reproduced except in full without obtaining prior written approval from Integral Sciences Incorporated. This test was not at the request of ARI and therefore is not part of the ARI Certification Program for Reclaimed Refrigerants.

8/23/95

Andrew M. Gbur, Laboratory Manager

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Haz Mat Services
Travis Findly
4661 Avocado Avenue
Yorba Linda, CA 92686

Customer Reference Number:	Omega HLA
Sample Cylinder Number:	NL2
Purchase Order Number:	200
ISI Tracking Number:	895262
Date Analyzed:	8/25/95
Refrigerant Analyzed:	R-13 (Chlorotrifluoromethane)

Certificate of Analysis

Test	Result	ARI 700 Maximum
Acidity (ppm by weight)	N/A	1
Boiling Point (F at 29.92 in. Hg)	N/A	-114.6
Boiling Range (F for 5%-85% vol. dist.)	N/A	0.9
Chloride (pass / fail)	N/A	pass
High Boiling Residue (% by volume)	N/A	.05
Non-condensables (% by volume)	.08	1.5
Other Refrigerants (% by weight)	<.1	.5
Particulates / Solids (pass / fail)	N/A	pass
Water (ppm by weight)	N/A	10

This sample was tested in accordance with Appendix 93 of ARI Standard 700. The estimated accuracy of these measurements appears in Appendix 93. These results apply only to the item described in this report, which shall not be reproduced except in full without obtaining prior written approval from Integral Sciences Incorporated. This test was not at the request of ARI and therefore is not part of the ARI Certification Program for Reclaimed Refrigerants.

8/25/95

Andrew M. Gbur, Laboratory Manager

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Haz Mat Services
Travis Findly
4661 Avocado Avenue
Yorba Linda, CA 92686

Customer Reference Number:	Omega HLA
Sample Cylinder Number:	NL3
Purchase Order Number:	200
ISI Tracking Number:	895324
Date Analyzed:	8/25/95
Refrigerant Analyzed:	R-12 (Dichlorodifluoromethane)

Certificate of Analysis

Test	Result	ARI 700 Maximum
Acidity (ppm by weight)	N/A	1
Boiling Point (F at 29.92 in. Hg)	N/A	-21.6
Boiling Range (F for 5%-85% vol. dist.)	N/A	0.5
Chloride (pass / fail)	N/A	pass
High Boiling Residue (% by volume)	N/A	.01
Non-condensables (% by volume)	N/A	1.5
Other Refrigerants (% by weight)	28.2*	.5
Particulates / Solids (pass / fail)	N/A	pass
Water (ppm by weight)	N/A	10

** Predominantly R-22. Sample was mislabeled R-22 on receipt.*

This sample was tested in accordance with Appendix 93 of ARI Standard 700. The estimated accuracy of these measurements appears in Appendix 93. These results apply only to the item described in this report, which shall not be reproduced except in full without obtaining prior written approval from Integral Sciences Incorporated. This test was not at the request of ARI and therefore is not part of the ARI Certification Program for Reclaimed Refrigerants.

8/25/95

Andrew M. Gbur, Laboratory Manager

RRF's for R-12 **Date:** 8/25/95

Refrigerant	Area	Mass %	ARF	RRF
R-12	1467760	64.95	4.425E-05	1
R-22	998065	24.91	2.496E-05	0.56402
R-115	358007	10.14	2.832E-05	0.6400624

Customer: Hazmat
ISI#: 895324

Refrigerant	Area Cts	Calc	Actual Mass %
R-12	1599390	1599390	71.80059
R-22	771827	435322.15	19.54269
R-115	301271	192832.25	8.65672
		2227544.4	

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Haz Mat Services
Travis Findly
4661 Avocado Avenue
Yorba Linda, CA 92686

Customer Reference Number:	Omego HLA
Sample Cylinder Number:	NL6
Purchase Order Number:	200
ISI Tracking Number:	895267
Date Analyzed:	8/23/95
Refrigerant Analyzed:	R-13 (Chlorotrifluoromethane)

Certificate of Analysis

Test	Result	ARI 700 Maximum
Acidity (ppm by weight)	N/A	1
Boiling Point (F at 29.92 in. Hg)	N/A	-114.6
Boiling Range (F for 5%-85% vol. dist.)	N/A	0.9
Chloride (pass / fail)	N/A	pass
High Boiling Residue (% by volume)	N/A	.05
Non-condensables (% by volume)	17.6	1.5
Other Refrigerants (% by weight)	.63*	.5
Particulates / Solids (pass / fail)	N/A	pass
Water (ppm by weight)	N/A	10

** Predominantly R-22.*

This sample was tested in accordance with Appendix 93 of ARI Standard 700. The estimated accuracy of these measurements appears in Appendix 93. These results apply only to the item described in this report, which shall not be reproduced except in full without obtaining prior written approval from Integral Sciences Incorporated. This test was not at the request of ARI and therefore is not part of the ARI Certification Program for Reclaimed Refrigerants.

8/23/95

Andrew M. Gbur, Laboratory Manager

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Haz Mat Services
Travis Findly
4661 Avocado Avenue
Yorba Linda, CA 92686

Customer Reference Number:	Omega HLA
Sample Cylinder Number:	NL8
Purchase Order Number:	200
ISI Tracking Number:	895321
Date Analyzed:	8/28/95
Refrigerant Analyzed:	R-12 (Dichlorodifluoromethane)

Certificate of Analysis

Test	Result	ARI 700 Maximum
Acidity (ppm by weight)	N/A	1
Boiling Point (F at 29.92 in. Hg)	N/A	-21.6
Boiling Range (F for 5%-85% vol. dist.)	N/A	0.5
Chloride (pass / fail)	N/A	pass
High Boiling Residue (% by volume)	N/A	.01
Non-condensables (% by volume)	N/A	1.5
Other Refrigerants (% by weight)	33.0*	.5
Particulates / Solids (pass / fail)	N/A	pass
Water (ppm by weight)	N/A	10

* *Predominantly R-22.*

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8/28/95

Andrew M. Gbur, Laboratory Manager

RRF's for R-22 **Date:** 8/28/95

Refrigerant	Area	Mass %	ARF	RRF
R-22	8057450	38.46	4.773E-06	1
R-115	5736429	33.85	5.901E-06	1.23625
R-12	5516747	25.38	4.601E-06	0.9638221
R-152a	524629	2.31	4.403E-06	0.7461783

Customer: HAZMAT
ISI#: 895321

Refrigerant	Area Cts	Calc	Actual Mass %
R-22	6004491	6004491	30.39738
R-115	375569	464296.2	2.35047
R-12	13783175	13284529	67.25215
R-152a	0	0	0.00000
		19753316	

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Haz Mat Services
Travis Findly
4661 Avocado Avenue
Yorba Linda, CA 92686

Customer Reference Number:	Omega HLA
Sample Cylinder Number:	NL9
Purchase Order Number:	200
ISI Tracking Number:	895320
Date Analyzed:	8/25/95
Refrigerant Analyzed:	R-22 (Chlorodifluoromethane)

Certificate of Analysis

Test	Result	ARI 700 Maximum
Acidity (ppm by weight)	N/A	1
Boiling Point (F at 29.92 in. Hg)	N/A	-41.4
Boiling Range (F for 5%-85% vol. dist.)	N/A	0.5
Chloride (pass / fail)	N/A	pass
High Boiling Residue (% by volume)	N/A	.01
Non-condensables (% by volume)	N/A	1.5
Other Refrigerants (% by weight)	57.6*	.5
Particulates / Solids (pass / fail)	N/A	pass
Water (ppm by weight)	N/A	10

** Predominantly R-12 and R-115.*

This sample was tested in accordance with Appendix 93 of ARI Standard 700. The estimated accuracy of these measurements appears in Appendix 93. These results apply only to the item described in this report, which shall not be reproduced except in full without obtaining prior written approval from Integral Sciences Incorporated. This test was not at the request of ARI and therefore is not part of the ARI Certification Program for Reclaimed Refrigerants.

8/25/95

Andrew M. Gbur, Laboratory Manager

RRF's for R-22 **Date:** 8/25/95

Refrigerant	Area	Mass %	ARF	RRF
R-22	49490000	38.46	7.771E-07	1
R-12	21257000	25.38	1.194E-06	1.53638
R-115	37024000	33.85	9.143E-07	1.1764772
R-152a	14139000	2.31	1.634E-07	0.136837

Customer: Hazmat
ISI#: 895320

Refrigerant	Area Cts	Calc	Actual Mass %
R-22	59193000	59193000	42.33705
R-12	12809000	19679454	14.07548
R-115	51787000	60926224	43.57672
R-152a	109780	15021.969	0.01074
		139813700	

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Haz Mat Services
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4661 Avocado Avenue
Yorba Linda, CA 92686

Customer Reference Number:	Omega HLA
Sample Cylinder Number:	NL10
Purchase Order Number:	200
ISI Tracking Number:	895264
Date Analyzed:	8/28/95
Refrigerant Analyzed:	See Note Below

Certificate of Analysis

Test	Result	ARI 700 Maximum
Acidity (ppm by weight)	N/A	N/A
Boiling Point (F at 29.92 in. Hg)	N/A	N/A
Boiling Range (F for 5%-85% vol. dist.)	N/A	N/A
Chloride (pass / fail)	N/A	N/A
High Boiling Residue (% by volume)	N/A	N/A
Non-condensables (% by volume)	1.4	N/A
Other Refrigerants (% by weight)	2.7*	N/A
Particulates / Solids (pass / fail)	N/A	N/A
Water (ppm by weight)	N/A	N/A

** R-13 is not a refrigerant covered by ARI Standard 700.*

Insufficient sample to complete analysis. Sample was vapor only.

This sample was tested in accordance with Appendix 93 of ARI Standard 700. The estimated accuracy of these measurements appears in Appendix 93. These results apply only to the item described in this report, which shall not be reproduced except in full without obtaining prior written approval from Integral Sciences Incorporated. This test was not at the request of ARI and therefore is not part of the ARI Certification Program for Reclaimed Refrigerants.

Andrew M. Gbur 8/28/95

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4661 Avocado Avenue
Yorba Linda, CA 92868

Customer Reference Number:	Omega HLA
Sample Cylinder Number:	NL11
Purchase Order Number:	200
ISI Tracking Number:	895263
Date Analyzed:	8/23/95
Refrigerant Analyzed:	R-13 (Chlorotrifluoromethane)

Certificate of Analysis

Test	Result	ARI 700 Maximum
Acidity (ppm by weight)	N/A*	1
Boiling Point (F at 29.92 in. Hg)	N/A*	-114.6
Boiling Range (F for 5%-85% vol. dist.)	N/A*	0.9
Chloride (pass / fail)	N/A*	pass
High Boiling Residue (% by volume)	N/A*	.05
Non-condensables (% by volume)	.08	1.5
Other Refrigerants (% by weight)	<.1	.5
Particulates / Solids (pass / fail)	N/A*	pass
Water (ppm by weight)	N/A*	10

** Insufficient sample for complete analysis.*

This sample was tested in accordance with Appendix 93 of ARI Standard 700. The estimated accuracy of these measurements appears in Appendix 93. These results apply only to the item described in this report, which shall not be reproduced except in full without obtaining prior written approval from Integral Sciences Incorporated. This test was not at the request of ARI and therefore is not part of the ARI Certification Program for Reclaimed Refrigerants.

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Customer Reference Number:	Omega HLA
Sample Cylinder Number:	NL12
Purchase Order Number:	200
ISI Tracking Number:	895328
Date Analyzed:	8/25/95
Refrigerant Analyzed:	R-22 (Chlorodifluoromethane)

Certificate of Analysis

Test	Result	ARI 700 Maximum
Acidity (ppm by weight)	N/A	1
Boiling Point (F at 29.92 in. Hg)	N/A	-41.4
Boiling Range (F for 5%-85% vol. dist.)	N/A	0.5
Chloride (pass / fail)	N/A	pass
High Boiling Residue (% by volume)	N/A	.01
Non-condensables (% by volume)	N/A	1.5
Other Refrigerants (% by weight)	30.3*	.5
Particulates / Solids (pass / fail)	N/A	pass
Water (ppm by weight)	N/A	10

** Predominantly R-12.*

This sample was tested in accordance with Appendix 93 of ARI Standard 700. The estimated accuracy of these measurements appears in Appendix 93. These results apply only to the item described in this report, which shall not be reproduced except in full without obtaining prior written approval from Integral Sciences Incorporated. This test was not at the request of ARI and therefore is not part of the ARI Certification Program for Reclaimed Refrigerants.

8/25/95

Andrew M. Gbur, Laboratory Manager

RRE's for R-22 **Date:** 8/25/95

Refrigerant	Area	Mass %	ARF	RRF
R-22	69335000	57.75	8.329E-07	1
R-12	32789000	36.57	1.115E-06	1.33905
R-152a	42361000	5.68	1.341E-07	0.160984

Customer: Hazmat
ISI#: 895328

Refrigerant	Area Cts	Calc	Actual Mass %
R-22	83132000	83132000	69.89116
R-12	26745000	35812936	30.10884
R-152a	0	0	0.00000
		118944936	

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4661 Avocado Avenue
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Customer Reference Number:	Omega HLA
Sample Cylinder Number:	NL13
Purchase Order Number:	200
ISI Tracking Number:	895317
Date Analyzed:	8/25/95
Refrigerant Analyzed:	R-22 (Chlorodifluoromethane)

Certificate of Analysis

Test	Result	ARI 700 Maximum
Acidity (ppm by weight)	N/A	1
Boiling Point (F at 29.92 in. Hg)	N/A	-41.4
Boiling Range (F for 5%-85% vol. dist.)	N/A	0.5
Chloride (pass / fail)	N/A	pass
High Boiling Residue (% by volume)	N/A	.01
Non-condensables (% by volume)	N/A	1.5
Other Refrigerants (% by weight)	59.7*	.5
Particulates / Solids (pass / fail)	N/A	pass
Water (ppm by weight)	N/A	10

** Predominantly R-12 and R-115. Sample was mislabeled R-502 on receipt. Sample contains vapor only; does not meet ARI 700 .*

This sample was tested in accordance with Appendix 93 of ARI Standard 700. The estimated accuracy of these measurements appears in Appendix 93. These results apply only to the item described in this report, which shall not be reproduced except in full without obtaining prior written approval from Integral Sciences Incorporated. This test was not at the request of ARI and therefore is not part of the ARI Certification Program for Reclaimed Refrigerants.

8/25/95

Andrew M. Gbur, Laboratory Manager

RRF's for R-22 **Date:** 8/25/95

Refrigerant	Area	Mass %	ARF	RRF
R-22	49490000	38.46	7.771E-07	1
R-12	21257000	25.38	1.194E-06	1.53638
R-115	37024000	33.85	9.143E-07	1.1764772
R-152a	14139000	2.31	1.634E-07	0.136837

Customer: Hazmat
ISI#: 895317

Refrigerant	Area Cts	Calc	Actual Mass %
R-22	8938969	8938969	40.28615
R-12	3145781	4833105.8	21.78185
R-115	7154081	8416613.1	37.93200
R-152a	0	0	0.00000
		22188688	

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Customer Reference Number:	Omega HLA
Sample Cylinder Number:	NL14
Purchase Order Number:	200
ISI Tracking Number:	895314
Date Analyzed:	8/28/95
Refrigerant Analyzed:	R-22 (Chlorodifluoromethane)

Certificate of Analysis

Test	Result	ARI 700 Maximum
Acidity (ppm by weight)	N/A	1
Boiling Point (F at 29.92 in. Hg)	N/A	-41.4
Boiling Range (F for 5%-85% vol. dist.)	N/A	0.5
Chloride (pass / fail)	N/A	pass
High Boiling Residue (% by volume)	N/A	.01
Non-condensables (% by volume)	N/A	1.5
Other Refrigerants (% by weight)	53.0*	.5
Particulates / Solids (pass / fail)	N/A	pass
Water (ppm by weight)	N/A	10

** Predominantly R-12.*

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8/28/95

Andrew M. Gbur, Laboratory Manager

RRF's for R-22 **Date:** 8/28/95

Refrigerant	Area	Mass %	ARF	RRF
R-22	8057450	38.46	4.773E-06	1
R-115	5736429	33.85	5.901E-06	1.23625
R-12	5516747	25.38	4.601E-06	0.9638221
R-152a	524629	2.31	4.403E-06	0.7461783

Customer: HAZMAT
ISI#: 895314

Refrigerant	Area Cts	Calc	Actual Mass %
R-22	9158629	9158629	47.12851
R-115	1637929	2024885.5	10.41966
R-12	8559457	8249794	42.45182
R-152a	0	0	0.00000
		19433308	

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Customer Reference Number:	Omega HLA
Sample Cylinder Number:	NL15
Purchase Order Number:	200
ISI Tracking Number:	895265
Date Analyzed:	8/25/95
Refrigerant Analyzed:	R-13 (Chlorotrifluoromethane)

Certificate of Analysis

Test	Result	ARI 700 Maximum
Acidity (ppm by weight)	N/A	1
Boiling Point (F at 29.92 in. Hg)	N/A	-114.6
Boiling Range (F for 5%-85% vol. dist.)	N/A	0.9
Chloride (pass / fail)	N/A	pass
High Boiling Residue (% by volume)	N/A	.05
Non-condensables (% by volume)	N/A	1.5
Other Refrigerants (% by weight)	<.1	.5
Particulates / Solids (pass / fail)	N/A	pass
Water (ppm by weight)	N/A	10

This sample was tested in accordance with Appendix 93 of ARI Standard 700. The estimated accuracy of these measurements appears in Appendix 93. These results apply only to the item described in this report, which shall not be reproduced except in full without obtaining prior written approval from Integral Sciences Incorporated. This test was not at the request of ARI and therefore is not part of the ARI Certification Program for Reclaimed Refrigerants.

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Customer Reference Number:	Omega HLA
Sample Cylinder Number:	NL16
Purchase Order Number:	200
ISI Tracking Number:	895261
Date Analyzed:	8/25/95
Refrigerant Analyzed:	R-13 (Chlorotrifluoromethane)

Certificate of Analysis

Test	Result	ARI 700 Maximum
Acidity (ppm by weight)	N/A	1
Boiling Point (F at 29.92 in. Hg)	N/A	-114.6
Boiling Range (F for 5%-85% vol. dist.)	N/A	0.9
Chloride (pass / fail)	N/A	pass
High Boiling Residue (% by volume)	N/A	.05
Non-condensables (% by volume)	.03	1.5
Other Refrigerants (% by weight)	.15	.5
Particulates / Solids (pass / fail)	N/A	pass
Water (ppm by weight)	N/A	10

This sample was tested in accordance with Appendix 93 of ARI Standard 700. The estimated accuracy of these measurements appears in Appendix 93. These results apply only to the item described in this report, which shall not be reproduced except in full without obtaining prior written approval from Integral Sciences Incorporated. This test was not at the request of ARI and therefore is not part of the ARI Certification Program for Reclaimed Refrigerants.

Andrew M Gbur 8/25/95

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Customer Reference Number:	Omega HLA
Sample Cylinder Number:	NL17
Purchase Order Number:	200
ISI Tracking Number:	895318
Date Analyzed:	8/24/95
Refrigerant Analyzed:	R-114 (Dichlorotetrafluoroethane)

Certificate of Analysis

Test	Result	ARI 700 Maximum
Acidity (ppm by weight)	N/A	1
Boiling Point (F at 29.92 in. Hg)	N/A	38.8
Boiling Range (F for 5%-85% vol. dist.)	N/A	0.5
Chloride (pass / fail)	N/A	pass
High Boiling Residue (% by volume)	N/A	.01
Non-condensables (% by volume)	N/A	1.5
Other Refrigerants (% by weight)	1.6*	.5
Particulates / Solids (pass / fail)	N/A	pass
Water (ppm by weight)	N/A	10

** R-12 = .36%, R-22 = .42%, R-113 = .67%.*

This sample was tested in accordance with Appendix 93 of ARI Standard 700. The estimated accuracy of these measurements appears in Appendix 93. These results apply only to the item described in this report, which shall not be reproduced except in full without obtaining prior written approval from Integral Sciences Incorporated. This test was not at the request of ARI and therefore is not part of the ARI Certification Program for Reclaimed Refrigerants.

8/24/95

Andrew M. Gbur, Laboratory Manager

R-114

Customer: Hazmat

ISI#: 895318

Date: 23-Aug-95

Refrigerant	R. Time	Area	Avg RRF	Mass%	
R-23	2.81	0	2.8540	0.0000	
R-13	4.56	0	3.2798	0.0000	
R-152a	5.95	52662	0.2086	0.0048	
R-134a	6.58	0	0.4877	0.0000	
R-22	7.19	476790	2.0439	0.4218	
R-115	10.76	3625	1.7101	0.0027	
R-12	12.75	355200	2.3578	0.3625	
R-142b	13.42	0	0.3259	0.0000	
R-124	15.36	17363	0.7578	0.0057	
R-133a	15.98	6177	0.3998	0.0011	
R-114	**18.4**	**227440000**	**1.0000**	**98.4431**	**OR Value 1.5569**
R-21	16.53	82172	1.7332	0.0616	
R-11	19.99	19991	2.9203	0.0253	
R-123a	21.18	4417	0.5871	0.0011	
R-123	21.86	11633	0.5913	0.0030	
R-113	24.2	2436800	0.6327	0.6674	

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Customer Reference Number:	Omega HLA
Sample Cylinder Number:	NL18
Purchase Order Number:	200
ISI Tracking Number:	895266
Date Analyzed:	8/23/95
Refrigerant Analyzed:	See Note Below

Certificate of Analysis

Test	Result	ARI 700 Maximum
Acidity (ppm by weight)	N/A	N/A
Boiling Point (F at 29.92 in. Hg)	N/A	N/A
Boiling Range (F for 5%-85% vol. dist.)	N/A	N/A
Chloride (pass / fail)	N/A	N/A
High Boiling Residue (% by volume)	N/A	N/A
Non-condensables (% by volume)	N/A	N/A
Other Refrigerants (% by weight)	.25	N/A
Particulates / Solids (pass / fail)	N/A	N/A
Water (ppm by weight)	N/A	N/A

Note: Refrigerant analyzed was R-14. However, R-14 is not a refrigerant covered by ARI Standard 700.

This sample was tested in accordance with Appendix 93 of ARI Standard 700. The estimated accuracy of these measurements appears in Appendix 93. These results apply only to the item described in this report, which shall not be reproduced except in full without obtaining prior written approval from Integral Sciences Incorporated. This test was not at the request of ARI and therefore is not part of the ARI Certification Program for Reclaimed Refrigerants.

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Customer Reference Number:	Omega HLA
Sample Cylinder Number:	NL19
Purchase Order Number:	200
ISI Tracking Number:	895260
Date Analyzed:	8/23/95
Refrigerant Analyzed:	R-13 (Chlorotrifluoromethane)

Certificate of Analysis

Test	Result	ARI 700 Maximum
Acidity (ppm by weight)	N/A	1
Boiling Point (F at 29.92 in. Hg)	N/A	-114.6
Boiling Range (F for 5%-85% vol. dist.)	N/A	0.9
Chloride (pass / fail)	N/A	pass
High Boiling Residue (% by volume)	N/A	.05
Non-condensables (% by volume)	.13	1.5
Other Refrigerants (% by weight)	<.1	.5
Particulates / Solids (pass / fail)	N/A	pass
Water (ppm by weight)	N/A	10

This sample was tested in accordance with Appendix 93 of ARI Standard 700. The estimated accuracy of these measurements appears in Appendix 93. These results apply only to the item described in this report, which shall not be reproduced except in full without obtaining prior written approval from Integral Sciences Incorporated. This test was not at the request of ARI and therefore is not part of the ARI Certification Program for Reclaimed Refrigerants.

8/23/95

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Customer Reference Number:	Omega HLA
Sample Cylinder Number:	NL20
Purchase Order Number:	200
ISI Tracking Number:	895336
Date Analyzed:	8/25/95
Refrigerant Analyzed:	R-22 (Chlorodifluoromethane)

Certificate of Analysis

Test	Result	ARI 700 Maximum
Acidity (ppm by weight)	N/A	1
Boiling Point (F at 29.92 in. Hg)	N/A	-41.4
Boiling Range (F for 5%-85% vol. dist.)	N/A	0.5
Chloride (pass / fail)	N/A	pass
High Boiling Residue (% by volume)	N/A	.01
Non-condensables (% by volume)	N/A	1.5
Other Refrigerants (% by weight)	37.3*	.5
Particulates / Solids (pass / fail)	N/A	pass
Water (ppm by weight)	N/A	10

** Predominantly R-12. Sample contained vapor only and therefore does not meet the requirements of ARI Standard 700.*

This sample was tested in accordance with Appendix 93 of ARI Standard 700. The estimated accuracy of these measurements appears in Appendix 93. These results apply only to the item described in this report, which shall not be reproduced except in full without obtaining prior written approval from Integral Sciences Incorporated. This test was not at the request of ARI and therefore is not part of the ARI Certification Program for Reclaimed Refrigerants.

8/25/95

Andrew M. Gbur, Laboratory Manager

RRF's for R-22 **Date:** 8/25/95

Refrigerant	Area	Mass %	ARF	RRF
R-22	69335000	57.75	8.329E-07	1
R-12	32789000	36.57	1.115E-06	1.33905
R-152a	42361000	5.68	1.341E-07	0.160984

Customer: Hazmat
ISI#: 895336

Refrigerant	Area Cts	Calc	Actual Mass %
R-22	66617000	66617000	62.73220
R-12	29555000	39575671	37.26780
R-152a	0	0	0.00000
		106192671	

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Customer Reference Number:	Omega HLA
Sample Cylinder Number:	S2
Purchase Order Number:	200
ISI Tracking Number:	895279
Date Analyzed:	8/25/95
Refrigerant Analyzed:	R-12 (Dichlorodifluoromethane)

Certificate of Analysis

Test	Result	ARI 700 Maximum
Acidity (ppm by weight)	.49	1
Boiling Point (F at 29.92 in. Hg)	fail	-21.6
Boiling Range (F for 5%-85% vol. dist.)	fail	0.5
Chloride (pass / fail)	fail	pass
High Boiling Residue (% by volume)	.73	.01
Non-condensables (% by volume)	1.88	1.5
Other Refrigerants (% by weight)	45.5*	.5
Particulates / Solids (pass / fail)	fail	pass
Water (ppm by weight)	76	10

** Predominantly R-12. Sample was mislabeled R-502 on receipt.*

This sample was tested in accordance with Appendix 93 of ARI Standard 700. The estimated accuracy of these measurements appears in Appendix 93. These results apply only to the item described in this report, which shall not be reproduced except in full without obtaining prior written approval from Integral Sciences Incorporated. This test was not at the request of ARI and therefore is not part of the ARI Certification Program for Reclaimed Refrigerants.

8/25/95

Andrew M. Gbur, Laboratory Manager

RRF's for R-22 **Date:** 8/25/95

Refrigerant	Area	Mass %	ARF	RRF
R-22	8057450	38.46	4.773E-06	1
R-12	5516747	25.38	4.601E-06	0.96382
R-115	5736429	33.85	5.901E-06	1.2362474
R-152a	524629	2.31	4.403E-06	0.9570864

Customer: Hazmat
ISI#: 895279

Refrigerant	Area Cts	Calc	Actual Mass %
R-22	4820203	4820203	22.17871
R-12	12283616	11839221	54.47461
R-115	4104392	5074043.9	23.34668
R-152a	0	0	0.00000
		21733468	

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Customer Reference Number:	Omega HLA
Sample Cylinder Number:	SW1
Purchase Order Number:	200
ISI Tracking Number:	895333
Date Analyzed:	8/25/95
Refrigerant Analyzed:	See Note Below

Certificate of Analysis

Test	Result	ARI 700 Maximum
Acidity (ppm by weight)	N/A	N/A
Boiling Point (F at 29.92 in. Hg)	N/A	N/A
Boiling Range (F for 5%-85% vol. dist.)	N/A	N/A
Chloride (pass / fail)	N/A	N/A
High Boiling Residue (% by volume)	N/A	N/A
Non-condensables (% by volume)	N/A	N/A
Other Refrigerants (% by weight)	.14*	N/A
Particulates / Solids (pass / fail)	N/A	N/A
Water (ppm by weight)	N/A	N/A

** Sample contained vapor only. Substance was predominantly Halon 1301, which is not a substance covered by ARI Standard 700. Reported as mole percent.*

This sample was tested in accordance with Appendix 93 of ARI Standard 700. The estimated accuracy of these measurements appears in Appendix 93. These results apply only to the item described in this report, which shall not be reproduced except in full without obtaining prior written approval from Integral Sciences Incorporated. This test was not at the request of ARI and therefore is not part of the ARI Certification Program for Reclaimed Refrigerants.

8/25/95

Andrew M. Gbur, Laboratory Manager

1301

Customer: HAZMAT

ISI#: 895333
Date: 25-Aug-95

Mole%= 99.86
OR%= 0.14

REFRIG	MW	Calc#	MASS%	mole	mole%
1301	148.9	17748966	99.90756	6.7097E-01	99.8582
R-12	120.9	908.5105	0.005114	4.2299E-05	0.0063
R-13	104.5	1337.692	0.00753	7.2055E-05	0.0107
R-22	86.5	5202.215	0.029283	3.3853E-04	0.0504
R-115	154.5	0	0	0.0000E+00	0.0000
1211	165.45	4782.755	0.026922	1.6272E-04	0.0242
R-23	70	4192	0.023596	3.3709E-04	0.0502
R-134a	102	0	0	0.0000E+00	0.0000
R-143a	84	0	0	0.0000E+00	0.0000
R-11	137.4	0	0	0.0000E+00	0.0000
	Total=	17765389		0.67192352	

Analyzed by: Glenn Rupert

Title: Analytical Chemist

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Yorba Linda, CA 92686

Customer Reference Number:	Omega HLA
Sample Cylinder Number:	SW2
Purchase Order Number:	200
ISI Tracking Number:	895312
Date Analyzed:	8/25/95
Refrigerant Analyzed:	See Note Below

Certificate of Analysis

Test	Result	ARI 700 Maximum
Acidity (ppm by weight)	N/A	N/A
Boiling Point (F at 29.92 in. Hg)	N/A	N/A
Boiling Range (F for 5%-85% vol. dist.)	N/A	N/A
Chloride (pass / fail)	N/A	N/A
High Boiling Residue (% by volume)	N/A	N/A
Non-condensables (% by volume)	N/A	N/A
Other Refrigerants (% by weight)	<.1	N/A
Particulates / Solids (pass / fail)	N/A	N/A
Water (ppm by weight)	N/A	N/A

This sample was tested in accordance with Appendix 93 of ARI Standard 700. The estimated accuracy of these measurements appears in Appendix 93. These results apply only to the item described in this report, which shall not be reproduced except in full without obtaining prior written approval from Integral Sciences Incorporated. This test was not at the request of ARI and therefore is not part of the ARI Certification Program for Reclaimed Refrigerants.

8/25/95

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Travis Findly
4661 Avocado Avenue
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Customer Reference Number:	Omega HLA
Sample Cylinder Number:	SW7
Purchase Order Number:	200
ISI Tracking Number:	895330
Date Analyzed:	9/14/95
Refrigerant Analyzed:	See Note Below

Certificate of Analysis

Test	Result	ARI 700 Maximum
Acidity (ppm by weight)	N/A	N/A
Boiling Point (F at 29.92 in. Hg)	N/A	N/A
Boiling Range (F for 5%-85% vol. dist.)	N/A	N/A
Chloride (pass / fail)	N/A	N/A
High Boiling Residue (% by volume)	N/A	N/A
Non-condensables (% by volume)	N/A	N/A
Other Refrigerants (% by weight)	*	N/A
Particulates / Solids (pass / fail)	N/A	N/A
Water (ppm by weight)	N/A	N/A

** Vapor sample only. Sample identified as 2-Butane by GC/MS with R-12 and other Cy contaminants.*

This sample was tested in accordance with Appendix 93 of ARI Standard 700. The estimated accuracy of these measurements appears in Appendix 93. These results apply only to the item described in this report, which shall not be reproduced except in full without obtaining prior written approval from Integral Sciences Incorporated. This test was not at the request of ARI and therefore is not part of the ARI Certification Program for Reclaimed Refrigerants.

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Customer Reference Number:	Omega HLA
Sample Cylinder Number:	SW18
Purchase Order Number:	200
ISI Tracking Number:	895280
Date Analyzed:	8/23/95
Refrigerant Analyzed:	See Note Below

Certificate of Analysis

Test	Result	ARI 700 Maximum
Acidity (ppm by weight)	N/A	N/A
Boiling Point (F at 29.92 in. Hg)	N/A	N/A
Boiling Range (F for 5%-85% vol. dist.)	N/A	N/A
Chloride (pass / fail)	N/A	N/A
High Boiling Residue (% by volume)	N/A	N/A
Non-condensables (% by volume)	N/A	N/A
Other Refrigerants (% by weight)	.12	N/A
Particulates / Solids (pass / fail)	N/A	N/A
Water (ppm by weight)	N/A	N/A

Note: Refrigerant analyzed was R-152a. However, R-152a is not a refrigerant covered by the ARI Standard 700.

This sample was tested in accordance with Appendix 93 of ARI Standard 700. The estimated accuracy of these measurements appears in Appendix 93. These results apply only to the item described in this report, which shall not be reproduced except in full without obtaining prior written approval from Integral Sciences Incorporated. This test was not at the request of ARI and therefore is not part of the ARI Certification Program for Reclaimed Refrigerants.

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Customer Reference Number:	Omega HLA
Sample Cylinder Number:	SW19
Purchase Order Number:	200
ISI Tracking Number:	895282
Date Analyzed:	8/23/95
Refrigerant Analyzed:	See Note Below

Certificate of Analysis

Test	Result	ARI 700 Maximum
Acidity (ppm by weight)	N/A	N/A
Boiling Point (F at 29.92 in. Hg)	N/A	N/A
Boiling Range (F for 5%-85% vol. dist.)	N/A	N/A
Chloride (pass / fail)	N/A	N/A
High Boiling Residue (% by volume)	N/A	N/A
Non-condensables (% by volume)	N/A	N/A
Other Refrigerants (% by weight)	.12	N/A
Particulates / Solids (pass / fail)	N/A	N/A
Water (ppm by weight)	N/A	N/A

Note: Refrigerant analyzed was R-152a. However, R-152a is not a refrigerant covered by ARI Standard 700.

This sample was tested in accordance with Appendix 93 of ARI Standard 700. The estimated accuracy of these measurements appears in Appendix 93. These results apply only to the item described in this report, which shall not be reproduced except in full without obtaining prior written approval from Integral Sciences Incorporated. This test was not at the request of ARI and therefore is not part of the ARI Certification Program for Reclaimed Refrigerants.

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Customer Reference Number:	Omega HLA
Sample Cylinder Number:	SW21
Purchase Order Number:	200
ISI Tracking Number:	895281
Date Analyzed:	8/23/95
Refrigerant Analyzed:	See Note Below

Certificate of Analysis

Test	Result	ARI 700 Maximum
Acidity (ppm by weight)	N/A	N/A
Boiling Point (F at 29.92 in. Hg)	N/A	N/A
Boiling Range (F for 5%-85% vol. dist.)	N/A	N/A
Chloride (pass / fail)	N/A	N/A
High Boiling Residue (% by volume)	N/A	N/A
Non-condensables (% by volume)	N/A	N/A
Other Refrigerants (% by weight)	.15	N/A
Particulates / Solids (pass / fail)	N/A	N/A
Water (ppm by weight)	N/A	N/A

Note: Refrigerant analyzed was R-152a. However, R-152a is not a refrigerant covered by ARI Standard 700.

This sample was tested in accordance with Appendix 93 of ARI Standard 700. The estimated accuracy of these measurements appears in Appendix 93. These results apply only to the item described in this report, which shall not be reproduced except in full without obtaining prior written approval from Integral Sciences Incorporated. This test was not at the request of ARI and therefore is not part of the ARI Certification Program for Reclaimed Refrigerants.

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Customer Reference Number:	Omega HLA
Sample Cylinder Number:	L1
Purchase Order Number:	200
ISI Tracking Number:	895327
Date Analyzed:	8/23/95
Refrigerant Analyzed:	R-12 (Dichlorodifluoromethane)

Certificate of Analysis

Test	Result	ARI 700 Maximum
Acidity (ppm by weight)	N/A	1
Boiling Point (F at 29.92 in. Hg)	N/A	-21.6
Boiling Range (F for 5%-85% vol. dist.)	N/A	0.5
Chloride (pass / fail)	N/A	pass
High Boiling Residue (% by volume)	N/A	.01
Non-condensables (% by volume)	N/A	1.5
Other Refrigerants (% by weight)	<.05	.5
Particulates / Solids (pass / fail)	N/A	pass
Water (ppm by weight)	N/A	10

This sample was tested in accordance with Appendix 93 of ARI Standard 700. The estimated accuracy of these measurements appears in Appendix 93. These results apply only to the item described in this report, which shall not be reproduced except in full without obtaining prior written approval from Integral Sciences Incorporated. This test was not at the request of ARI and therefore is not part of the ARI Certification Program for Reclaimed Refrigerants.

8/23/95

Andrew M. Gbur, Laboratory Manager

R-12

Customer: HAZMAT

ISI#: 895327
Date: 23-Aug-95

Refrigerant	R. Time	Area	Avg RRF	Mass%	
Methane	2.63	0	0.0605	0.0000	
R-23	3.33	0	1.5118	0.0000	
Ethene	4.05	0	0.0538	0.0000	
Ethane	4.72	0	0.0566	0.0000	
R-13	5.42	0	1.4521	0.0000	
R-143a	6.2	0	0.1498	0.0000	
R-152a	7.1	0	0.1223	0.0000	
R-134a	7.85	0	0.3010	0.0000	
R-115	12.52	0	0.9030	0.0000	
Propene	12.14	0	0.0525	0.0000	
					OR Value
R-12	**14.8**	**2128290**	1.0000	**100.0000**	**0.0000**
R-22	8.58	0	0.9441	0.0000	
R-142b	15.5	0	0.1761	0.0000	
R-124	17.32	0	0.4302	0.0000	
R-133a	17.97	0	0.2276	0.0000	
R-21	18.55	0	0.8153	0.0000	
Isobutane	19.1	0	0.0575	0.0000	
R-114	20.09	0	0.6824	0.0000	
N-Butane	20.91	0	0.0000	0.0000	
2Butene	21.73	0	2.4057	0.0000	
R-11	22.22	0	1.3625	0.0000	
R-123	24.46	0	0.3344	0.0000	
R-113	27.54	0	0.4726	0.0000	
R-123a	23.63	0	0.3513	0.0000	
R-160	16.87	0	0.1439	0.0000	

Analyzed by: Glenn Lloyd

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Customer Reference Number:	Omega HLA
Sample Cylinder Number:	L2
Purchase Order Number:	200
ISI Tracking Number:	895315
Date Analyzed:	8/25/95
Refrigerant Analyzed:	R-502 (Chlorodifluoromethane/Chloropentafluoroethane Azetropic Mi

Certificate of Analysis

Test	Result	ARI 700 Maximum
Acidity (ppm by weight)	N/A	1
Boiling Point (F at 29.92 in. Hg)	N/A	-49.8
Boiling Range (F for 5%-85% vol. dist.)	N/A	0.9
Chloride (pass / fail)	N/A	pass
High Boiling Residue (% by volume)	N/A	.01
Non-condensables (% by volume)	N/A	1.5
Other Refrigerants (% by weight)	<.05	.5
Particulates / Solids (pass / fail)	N/A	pass
Water (ppm by weight)	N/A	10

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Andrew M. Gbur, Laboratory Manager

RRF's for R-115 and R-22

Refrigerant	Area	Mass %	ARF	RRF
R-115	8403138	51.43	6.12E-06	1.2638108
R-22	10029404	48.57	4.843E-06	1

Customer: HAZMAT
Date: 8/25/95

895315

Refrigerant	Area Cts	Actual Mass %	Range
R-115	8515138	51.19	**(47.2-55.2)**
R-22	10263158	48.81	**(44.8-52.8)**

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Customer Reference Number:	Omega HLA
Sample Cylinder Number:	L3
Purchase Order Number:	200
ISI Tracking Number:	895316
Date Analyzed:	8/25/95
Refrigerant Analyzed:	R-12 (Dichlorodifluoromethane)

Certificate of Analysis

Test	Result	ARI 700 Maximum
Acidity (ppm by weight)	N/A	1
Boiling Point (F at 29.92 in. Hg)	N/A	-21.6
Boiling Range (F for 5%-85% vol. dist.)	N/A	0.5
Chloride (pass / fail)	N/A	pass
High Boiling Residue (% by volume)	N/A	.01
Non-condensables (% by volume)	N/A	1.5
Other Refrigerants (% by weight)	11.7*	.5
Particulates / Solids (pass / fail)	N/A	pass
Water (ppm by weight)	N/A	10

** Sample contained vapor only and therefore does not meet the requirements of ARI Standard 700.*

This sample was tested in accordance with Appendix 93 of ARI Standard 700. The estimated accuracy of these measurements appears in Appendix 93. These results apply only to the item described in this report, which shall not be reproduced except in full without obtaining prior written approval from Integral Sciences Incorporated. This test was not at the request of ARI and therefore is not part of the ARI Certification Program for Reclaimed Refrigerants.

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Andrew M. Gbur, Laboratory Manager

RRF's for R-12 **Date:** 8/25/95

Refrigerant	Area	Mass %	ARF	RRF
R-12	1467760	64.95	4.425E-05	1
R-22	998065	24.91	2.496E-05	0.56402
R-115	358007	10.14	2.832E-05	0.6400624

Customer: Hazmat
ISI#: 895316

Refrigerant	Area Cts	Calc	Actual Mass %
R-12	1827140	1827140	88.38135
R-22	425869	240196.58	11.61865
R-115	0	0	0.00000
		2067336.6	

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Customer Reference Number:	Omega HLA
Sample Cylinder Number:	L8
Purchase Order Number:	200
ISI Tracking Number:	895332
Date Analyzed:	8/28/95
Refrigerant Analyzed:	R-22 (Chlorodifluoromethane)

Certificate of Analysis

Test	Result	ARI 700 Maximum
Acidity (ppm by weight)	N/A	1
Boiling Point (F at 29.92 in. Hg)	N/A	-41.4
Boiling Range (F for 5%-85% vol. dist.)	N/A	0.5
Chloride (pass / fail)	N/A	pass
High Boiling Residue (% by volume)	N/A	.01
Non-condensables (% by volume)	N/A	1.5
Other Refrigerants (% by weight)	<.05	.5
Particulates / Solids (pass / fail)	N/A	pass
Water (ppm by weight)	N/A	10

This sample was tested in accordance with Appendix 93 of ARI Standard 700. The estimated accuracy of these measurements appears in Appendix 93. These results apply only to the item described in this report, which shall not be reproduced except in full without obtaining prior written approval from Integral Sciences Incorporated. This test was not at the request of ARI and therefore is not part of the ARI Certification Program for Reclaimed Refrigerants.

Andrew M. Gbur 8/28/95

Andrew M. Gbur, Laboratory Manager

R-22

Customer: HAZMAT

ISI#: 895332
Date: 28-Aug-95

Refrigerant	R. Time	Area	Avg RRF	Mass%	
Methane	2.25	0	0.1058	0.0000	
R-23	2.82	4923	2.9179	0.0148	
Ethene	3.43	0	0.0840	0.0000	
Ethane	3.95	0	0.1120	0.0000	
R-13	4.53	0	3.0190	0.0000	
R-143a	5.18	0	0.2583	0.0000	
R-152a	6.03	0	0.1934	0.0000	
R-134a	6.55	0	0.4579	0.0000	
R-115	10.75	0	1.3794	0.0000	
Propene	10.4	0	0.0843	0.0000	
R-22	6.88	9.7150E+07	1.0000	99.9676	**OR Value** **0.0324**
R-12	12.76	7049	2.1505	0.0156	
R-142b	13.44	0	0.3037	0.0000	
R-124	15.38	0	0.7563	0.0000	
R-133a	16	0	0.3886	0.0000	
R-21	16.54	0	1.5538	0.0000	
Isobutane	17.05	0	0.0834	0.0000	
R-114	18	0	1.2942	0.0000	
N-Butane	18.8	0	0.0000	0.0000	
2Butene	19.57	0	3.5339	0.0000	
R-11	19.94	0	2.7508	0.0000	
R-123	21.84	0	0.4414	0.0000	
R-113	24.17	3154	0.6190	0.0020	
R-123a	21.16	0	0.4730	0.0000	
R-160	14.86	0	0.2177	0.0000	

Analyzed by: Glenn Ryan

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Customer Reference Number:	Omega HLA
Sample Cylinder Number:	L12
Purchase Order Number:	200
ISI Tracking Number:	895331
Date Analyzed:	8/28/95
Refrigerant Analyzed:	See Note Below

Certificate of Analysis

Test	Result	ARI 700 Maximum
Acidity (ppm by weight)	N/A	N/A
Boiling Point (F at 29.92 in. Hg)	N/A	N/A
Boiling Range (F for 5%-85% vol. dist.)	N/A	N/A
Chloride (pass / fail)	N/A	N/A
High Boiling Residue (% by volume)	N/A	N/A
Non-condensables (% by volume)	N/A	N/A
Other Refrigerants (% by weight)	N/A*	N/A
Particulates / Solids (pass / fail)	N/A	N/A
Water (ppm by weight)	N/A	N/A

** Insufficient sample to perform analysis.*

This sample was tested in accordance with Appendix 93 of ARI Standard 700. The estimated accuracy of these measurements appears in Appendix 93. These results apply only to the item described in this report, which shall not be reproduced except in full without obtaining prior written approval from Integral Sciences Incorporated. This test was not at the request of ARI and therefore is not part of the ARI Certification Program for Reclaimed Refrigerants.

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Customer Reference Number:	Omega HLA
Sample Cylinder Number:	L13
Purchase Order Number:	200
ISI Tracking Number:	895338
Date Analyzed:	8/28/95
Refrigerant Analyzed:	See Note Below

Certificate of Analysis

Test	Result	ARI 700 Maximum
Acidity (ppm by weight)	N/A	N/A
Boiling Point (F at 29.92 in. Hg)	N/A	N/A
Boiling Range (F for 5%-85% vol. dist.)	N/A	N/A
Chloride (pass / fail)	N/A	N/A
High Boiling Residue (% by volume)	N/A	N/A
Non-condensables (% by volume)	N/A	N/A
Other Refrigerants (% by weight)	N/A*	N/A
Particulates / Solids (pass / fail)	N/A	N/A
Water (ppm by weight)	N/A	N/A

** Insufficient sample to perform analysis.*

This sample was tested in accordance with Appendix 93 of ARI Standard 700. The estimated accuracy of these measurements appears in Appendix 93. These results apply only to the item described in this report, which shall not be reproduced except in full without obtaining prior written approval from Integral Sciences Incorporated. This test was not at the request of ARI and therefore is not part of the ARI Certification Program for Reclaimed Refrigerants.

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Customer Reference Number:	Omega HLA
Sample Cylinder Number:	L14
Purchase Order Number:	200
ISI Tracking Number:	895334
Date Analyzed:	8/28/95
Refrigerant Analyzed:	R-22 (Chlorodifluoromethane)

Certificate of Analysis

Test	Result	ARI 700 Maximum
Acidity (ppm by weight)	N/A	1
Boiling Point (F at 29.92 in. Hg)	N/A	-41.4
Boiling Range (F for 5%-85% vol. dist.)	N/A	0.5
Chloride (pass / fail)	N/A	pass
High Boiling Residue (% by volume)	N/A	.01
Non-condensables (% by volume)	N/A	1.5
Other Refrigerants (% by weight)	.10	.5
Particulates / Solids (pass / fail)	N/A	pass
Water (ppm by weight)	N/A	10

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Andrew M. Gbur, Laboratory Manager

R-22

Customer: HAZMAT

ISI#: 895334
Date: 28-Aug-95

Refrigerant	R. Time	Area	Avg RRF	Mass%	
Methane	2.25	0	0.1058	0.0000	
R-23	2.82	0	2.9179	0.0000	
Ethene	3.43	0	0.0840	0.0000	
Ethane	3.95	0	0.1120	0.0000	
R-13	4.53	0	3.0190	0.0000	
R-143a	5.18	0	0.2583	0.0000	
R-152a	6.03	0	0.1934	0.0000	
R-134a	6.55	0	0.4579	0.0000	
R-115	10.75	0	1.3794	0.0000	
Propene	10.4	0	0.0843	0.0000	
R-22	6.88	9.6596E+07	1.0000	99.8986	**OR Value** **0.1014**
R-12	12.76	15907	2.1505	0.0354	
R-142b	13.44	0	0.3037	0.0000	
R-124	15.38	0	0.7563	0.0000	
R-133a	16	0	0.3886	0.0000	
R-21	16.54	5412	1.5538	0.0087	
Isobutane	17.05	0	0.0834	0.0000	
R-114	18	0	1.2942	0.0000	
N-Butane	18.8	0	0.0000	0.0000	
2Butene	19.57	0	3.5339	0.0000	
R-11	19.94	20140	2.7508	0.0573	
R-123	21.84	0	0.4414	0.0000	
R-113	24.17	0	0.6190	0.0000	
R-123a	21.16	0	0.4730	0.0000	
R-160	14.86	0	0.2177	0.0000	

Analyzed by: Glen Fuyat

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Customer Reference Number:	Omega HLA
Sample Cylinder Number:	L11
Purchase Order Number:	200
ISI Tracking Number:	895339
Date Analyzed:	8/28/95
Refrigerant Analyzed:	See Note Below

Certificate of Analysis

Test	Result	ARI 700 Maximum
Acidity (ppm by weight)	N/A	N/A
Boiling Point (F at 29.92 in. Hg)	N/A	N/A
Boiling Range (F for 5%-85% vol. dist.)	N/A	N/A
Chloride (pass / fail)	N/A	N/A
High Boiling Residue (% by volume)	N/A	N/A
Non-condensables (% by volume)	N/A	N/A
Other Refrigerants (% by weight)	N/A*	N/A
Particulates / Solids (pass / fail)	N/A	N/A
Water (ppm by weight)	N/A	N/A

** Insufficient sample to perform analysis.*

This sample was tested in accordance with Appendix 93 of ARI Standard 700. The estimated accuracy of these measurements appears in Appendix 93. These results apply only to the item described in this report, which shall not be reproduced except in full without obtaining prior written approval from Integral Sciences Incorporated. This test was not at the request of ARI and therefore is not part of the ARI Certification Program for Reclaimed Refrigerants.

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Yorba Linda, CA 92686

Customer Reference Number:	Omega HLA
Sample Cylinder Number:	L15
Purchase Order Number:	200
ISI Tracking Number:	895335
Date Analyzed:	8/28/95
Refrigerant Analyzed:	R-22 (Chlorodifluoromethane)

Certificate of Analysis

Test	Result	ARI 700 Maximum
Acidity (ppm by weight)	N/A	1
Boiling Point (F at 29.92 in. Hg)	N/A	-41.4
Boiling Range (F for 5%-85% vol. dist.)	N/A	0.5
Chloride (pass / fail)	N/A	pass
High Boiling Residue (% by volume)	N/A	.01
Non-condensables (% by volume)	N/A	1.5
Other Refrigerants (% by weight)	1.27*	.5
Particulates / Solids (pass / fail)	N/A	pass
Water (ppm by weight)	N/A	10

** Predominantly R-12.*

This sample was tested in accordance with Appendix 93 of ARI Standard 700. The estimated accuracy of these measurements appears in Appendix 93. These results apply only to the item described in this report, which shall not be reproduced except in full without obtaining prior written approval from Integral Sciences Incorporated. This test was not at the request of ARI and therefore is not part of the ARI Certification Program for Reclaimed Refrigerants.

8/28/95

Andrew M. Gbur, Laboratory Manager

R-22

Customer: HAZMAT

ISI#: 895335
Date: 28-Aug-95

Refrigerant	R. Time	Area	Avg RRF	Mass%	
Methane	2.25	0	0.1058	0.0000	
R-23	2.82	3386	2.9179	0.0116	
Ethene	3.43	2210	0.0840	0.0002	
Ethane	3.95	0	0.1120	0.0000	
R-13	4.53	0	3.0190	0.0000	
R-143a	5.18	0	0.2583	0.0000	
R-152a	6.03	0	0.1934	0.0000	
R-134a	6.55	0	0.4579	0.0000	
R-115	10.75	134820	1.3794	0.2189	
Propene	10.4	4100	0.0843	0.0004	
R-22	6.88	8.3871E+07	1.0000	98.7321	**OR Value** **1.2679**
R-12	12.76	409520	2.1505	1.0367	
R-142b	13.44	0	0.3037	0.0000	
R-124	15.38	0	0.7563	0.0000	
R-133a	16	0	0.3886	0.0000	
R-21	16.54	0	1.5538	0.0000	
Isobutane	17.05	0	0.0834	0.0000	
R-114	18	0	1.2942	0.0000	
N-Butane	18.8	0	0.0000	0.0000	
2Butene	19.57	0	3.5339	0.0000	
R-11	19.94	0	2.7508	0.0000	
R-123	21.84	0	0.4414	0.0000	
R-113	24.17	0	0.6190	0.0000	
R-123a	21.16	0	0.4730	0.0000	
R-160	14.86	0	0.2177	0.0000	

Analyzed by: _____

Integral Sciences Incorporated

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Haz Mat Services
Travis Findly
4661 Avocado Avenue
Yorba Linda, CA 92686

Customer Reference Number:	Omega HLA
Sample Cylinder Number:	L16
Purchase Order Number:	200
ISI Tracking Number:	895337
Date Analyzed:	8/28/95
Refrigerant Analyzed:	R-22 (Chlorodifluoromethane)

Certificate of Analysis

Test	Result	ARI 700 Maximum
Acidity (ppm by weight)	N/A	1
Boiling Point (F at 29.92 in. Hg)	N/A	-41.4
Boiling Range (F for 5%-85% vol. dist.)	N/A	0.5
Chloride (pass / fail)	N/A	pass
High Boiling Residue (% by volume)	N/A	.01
Non-condensables (% by volume)	N/A	1.5
Other Refrigerants (% by weight)	<.05	.5
Particulates / Solids (pass / fail)	N/A	pass
Water (ppm by weight)	N/A	10

This sample was tested in accordance with Appendix 93 of ARI Standard 700. The estimated accuracy of these measurements appears in Appendix 93. These results apply only to the item described in this report, which shall not be reproduced except in full without obtaining prior written approval from Integral Sciences Incorporated. This test was not at the request of ARI and therefore is not part of the ARI Certification Program for Reclaimed Refrigerants.

8/28/95

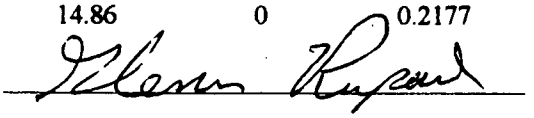
Andrew M. Gbur, Laboratory Manager

R-22

Customer: HAZMAT

ISI#: 895337
Date: 28-Aug-95

Refrigerant	R. Time	Area	Avg RRF	Mass%	
Methane	2.25	0	0.1058	0.0000	
R-23	2.82	615	2.9179	0.0018	
Ethene	3.43	0	0.0840	0.0000	
Ethane	3.95	0	0.1120	0.0000	
R-13	4.53	0	3.0190	0.0000	
R-143a	5.18	0	0.2583	0.0000	
R-152a	6.03	0	0.1934	0.0000	
R-134a	6.55	0	0.4579	0.0000	
R-115	10.75	0	1.3794	0.0000	
Propene	10.4	0	0.0843	0.0000	
R-22	6.88	1.0073E+08	1.0000	99.9629	**OR Value** **0.0371**
R-12	12.76	12485	2.1505	0.0266	
R-142b	13.44	0	0.3037	0.0000	
R-124	15.38	0	0.7563	0.0000	
R-133a	16	0	0.3886	0.0000	
R-21	16.54	5605	1.5538	0.0086	
Isobutane	17.05	0	0.0834	0.0000	
R-114	18	0	1.2942	0.0000	
N-Butane	18.8	0	0.0000	0.0000	
2Butene	19.57	0	3.5339	0.0000	
R-11	19.94	0	2.7508	0.0000	
R-123	21.84	0	0.4414	0.0000	
R-113	24.17	0	0.6190	0.0000	
R-123a	21.16	0	0.4730	0.0000	
R-160	14.86	0	0.2177	0.0000	

Analyzed by: 

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Haz Mat
Travis Findly
4661 Avocado Avenue
Yorba Linda, CA 92686

Customer Reference Number:	Omega HLA
Sample Cylinder Number:	X1
Purchase Order Number:	200
ISI Tracking Number:	895329
Date Analyzed:	8/29/95
Refrigerant Analyzed:	See Note Below

Certificate of Analysis

Test	Result	ARI 700 Maximum
Acidity (ppm by weight)	N/A	N/A
Boiling Point (F at 29.92 in. Hg)	N/A	N/A
Boiling Range (F for 5%-85% vol. dist.)	N/A	N/A
Chloride (pass / fail)	N/A	N/A
High Boiling Residue (% by volume)	N/A	N/A
Non-condensables (% by volume)	N/A	N/A
Other Refrigerants (% by weight)	.17*	N/A
Particulates / Solids (pass / fail)	N/A	N/A
Water (ppm by weight)	N/A	N/A

** R-142b analyzed by Thermal Conductivity Detector.*

This sample was tested in accordance with Appendix 93 of ARI Standard 700. The estimated accuracy of these measurements appears in Appendix 93. These results apply only to the item described in this report, which shall not be reproduced except in full without obtaining prior written approval from Integral Sciences Incorporated. This test was not at the request of ARI and therefore is not part of the ARI Certification Program for Reclaimed Refrigerants.

Andrew M Gbur 8/29/95

Andrew M. Gbur, Laboratory Manager

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Haz Mat Services
Travis Findly
4661 Avocado Avenue
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Customer Reference Number:	Omega HLA
Sample Cylinder Number:	X5
Purchase Order Number:	200
ISI Tracking Number:	895326
Date Analyzed:	8/23/95
Refrigerant Analyzed:	R-22 (Chlorodifluoromethane)

Certificate of Analysis

Test	Result	ARI 700 Maximum
Acidity (ppm by weight)	N/A	1
Boiling Point (F at 29.92 in. Hg)	N/A	-41.4
Boiling Range (F for 5%-85% vol. dist.)	N/A	0.5
Chloride (pass / fail)	N/A	pass
High Boiling Residue (% by volume)	N/A	.01
Non-condensables (% by volume)	N/A	1.5
Other Refrigerants (% by weight)	1.0*	.5
Particulates / Solids (pass / fail)	N/A	pass
Water (ppm by weight)	N/A	10

** Predominantly R-12.*

This sample was tested in accordance with Appendix 93 of ARI Standard 700. The estimated accuracy of these measurements appears in Appendix 93. These results apply only to the item described in this report, which shall not be reproduced except in full without obtaining prior written approval from Integral Sciences Incorporated. This test was not at the request of ARI and therefore is not part of the ARI Certification Program for Reclaimed Refrigerants.

8/23/95

Andrew M. Gbur, Laboratory Manager

R-22

Customer: Hazmat

ISI#: 895326
Date: 23-Aug-95

Refrigerant	R. Time	Area	Avg RRF	Mass%
Methane	2.25	0	0.1061	0.0000
R-23	2.82	510	2.8609	0.0013
Ethene	3.43	0	0.0842	0.0000
Ethane	3.95	0	0.1123	0.0000
R-13	4.53	0	2.9906	0.0000
R-143a	5.18	0	0.2548	0.0000
R-152a	6.03	461850	0.1929	0.0810
R-134a	6.55	0	0.4470	0.0000
R-115	10.75	6.8360E+04	1.3373	0.0831
Propene	10.4	72700	0.0848	0.0056
R-22	6.88	1.0891E+08	1.0000	98.9916
R-12	12.76	413470	2.1340	0.8020
R-142b	13.44	0	0.3022	0.0000
R-124	15.38	10291	0.7417	0.0069
R-133a	16	0	0.3853	0.0000
R-21	16.54	4311	1.5464	0.0061
Isobutane	17.05	113824	0.0829	0.0086
R-114	18	3051	1.2831	0.0036
N-Butane	18.8	85677	0.0000	0.0000
2Butene	19.57	0	3.5436	0.0000
R-11	19.94	4113	2.7545	0.0103
R-123	21.84	0	0.4376	0.0000
R-113	24.17	0	0.6159	0.0000
R-123a	21.16	0	0.4708	0.0000
R-160	14.86	0	0.2181	0.0000

OR Value
1.0084

Analyzed by: Glen Lupeus

R-22

Customer: Hazmat

ISI#: 895326
Date: 23-Aug-95

Refrigerant	R. Time	Area	Avg RRF	Mass%	
Methane	2.25	0	0.1061	0.0000	
R-23	2.82	510	2.8609	0.0013	
Ethene	3.43	0	0.0842	0.0000	
Ethane	3.95	0	0.1123	0.0000	
R-13	4.53	0	2.9906	0.0000	
R-143a	5.18	0	0.2548	0.0000	
R-152a	6.03	461850	0.1929	0.0810	
R-134a	6.55	0	0.4470	0.0000	
R-115	10.75	6.8360E+04	1.3373	0.0831	
Propene	10.4	72700	0.0848	0.0056	
					OR Value
R-22	6.88	1.0891E+08	1.0000	98.9916	**1.0084**
R-12	12.76	413470	2.1340	0.8020	
R-142b	13.44	0	0.3022	0.0000	
R-124	15.38	10291	0.7417	0.0069	
R-133a	16	0	0.3853	0.0000	
R-21	16.54	4311	1.5464	0.0061	
Isobutane	17.05	113824	0.0829	0.0086	
R-114	18	3051	1.2831	0.0036	
N-Butane	18.8	85677	0.0000	0.0000	
2Butene	19.57	0	3.5436	0.0000	
R-11	19.94	4113	2.7545	0.0103	
R-123	21.84	0	0.4376	0.0000	
R-113	24.17	0	0.6159	0.0000	
R-123a	21.16	0	0.4708	0.0000	
R-160	14.86	0	0.2181	0.0000	

Analyzed by: Glenn Rupard

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Haz Mat
Travis Findly
4661 Avocado Avenue
Yorba Linda, CA 92686

Customer Reference Number:	Omega HLA
Sample Cylinder Number:	OS32
Purchase Order Number:	200
ISI Tracking Number:	895319
Date Analyzed:	8/23/95
Refrigerant Analyzed:	R-12 (Dichlorodifluoromethane)

Certificate of Analysis

Test	Result	ARI 700 Maximum
Acidity (ppm by weight)	N/A	1
Boiling Point (F at 29.92 in. Hg)	N/A	-21.6
Boiling Range (F for 5%-85% vol. dist.)	N/A	0.5
Chloride (pass / fail)	N/A	pass
High Boiling Residue (% by volume)	N/A	.01
Non-condensables (% by volume)	N/A	1.5
Other Refrigerants (% by weight)	.08	.5
Particulates / Solids (pass / fail)	N/A	pass
Water (ppm by weight)	N/A	10

This sample was tested in accordance with Appendix 93 of ARI Standard 700. The estimated accuracy of these measurements appears in Appendix 93. These results apply only to the item described in this report, which shall not be reproduced except in full without obtaining prior written approval from Integral Sciences Incorporated. This test was not at the request of ARI and therefore is not part of the ARI Certification Program for Reclaimed Refrigerants.

8/23/95

Andrew M. Gbur, Laboratory Manager

R-12

Customer: HAZMAT

ISI#: 895319
Date: 23-Aug-95

Refrigerant	R. Time	Area	Avg RRF	Mass%	
Methane	2.63	0	0.0605	0.0000	
R-23	3.33	0	1.5118	0.0000	
Ethene	4.05	0	0.0538	0.0000	
Ethane	4.72	0	0.0566	0.0000	
R-13	5.42	0	1.4521	0.0000	
R-143a	6.2	0	0.1498	0.0000	
R-152a	7.1	0	0.1223	0.0000	
R-134a	7.85	0	0.3010	0.0000	
R-115	12.52	0	0.9030	0.0000	
Propene	12.14	0	0.0525	0.0000	
					OR Value
R-12	**14.8**	**2165340**	1.0000	**99.9235**	**0.0765**
R-22	8.58	1754.99	0.9441	0.0765	
R-142b	15.5	0	0.1761	0.0000	
R-124	17.32	0	0.4302	0.0000	
R-133a	17.97	0	0.2276	0.0000	
R-21	18.55	0	0.8153	0.0000	
Isobutane	19.1	0	0.0575	0.0000	
R-114	20.09	0	0.6824	0.0000	
N-Butane	20.91	0	0.0000	0.0000	
2Butene	21.73	0	2.4057	0.0000	
R-11	22.22	0	1.3625	0.0000	
R-123	24.46	0	0.3344	0.0000	
R-113	27.54	0	0.4726	0.0000	
R-123a	23.63	0	0.3513	0.0000	
R-160	16.87	0	0.1439	0.0000	

Analyzed by: Glenn Rupert

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Haz Mat Services
Travis Findly
4661 Avocado Avenue
Yerba Linda, CA 92686

Customer Reference Number:	32026-44
Sample Cylinder Number:	AB8
Purchase Order Number:	200
ISI Tracking Number:	995757
Date Analyzed:	9/11/95
Refrigerant Analyzed:	R-502 (Chlorodifluoromethane/Chloropentafluoroethane Azetropic Mi

Certificate of Analysis

Test	Result	ARI 700 Maximum
Acidity (ppm by weight)	N/A	1
Boiling Point (F at 29.92 in. Hg)	N/A	-49.8
Boiling Range (F for 5%-85% vol. dist.)	N/A	0.9
Chloride (pass / fail)	N/A	pass
High Boiling Residue (% by volume)	N/A	.01
Non-condensables (% by volume)	N/A	1.5
Other Refrigerants (% by weight)	.20	.5
Particulates / Solids (pass / fail)	N/A	pass
Water (ppm by weight)	N/A	10

Note: Sample contained vapor only and therefore does not meet the requirements of ARI Standard 700.

This sample was tested in accordance with Appendix 93 of ARI Standard 700. The estimated accuracy of these measurements appears in Appendix 93. These results apply only to the item described in this report, which shall not be reproduced except in full without obtaining prior written approval from Integral Sciences Incorporated. This test was not at the request of ARI and therefore is not part of the ARI Certification Program for Reclaimed Refrigerants.

9/11/95

Andrew M. Gbur, Laboratory Manager

RRF's for R-502 **Date:** 9/11/95

Refrigerant	Area	Mass %	ARF	RRF
R-22	10164742	48.58	4.8056E-06	1
R-115	8342191	50.83	6.0936E-06	1.26788
R-12	149539	0.59	3.9463E-06	0.8209857

Customer: Hazmat
ISI#: 995757

Refrigerant	Area Cts	Calc.	Actual Mass %
R-22	10754079	10754079	48.88855
R-115	8836579	11201849	50.92413
R-12	50210	41206.83 21997184	0.18733

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Haz Mat Services
Travis Findly
4661 Avocado Avenue
Yorba Linda, CA 92686

Customer Reference Number:	32026-44
Sample Cylinder Number:	AB38
Purchase Order Number:	200
ISI Tracking Number:	995761
Date Analyzed:	9/13/95
Refrigerant Analyzed:	R-11 (Trichlorofluoromethane)

Certificate of Analysis

Test	Result	ARI 700 Maximum
Acidity (ppm by weight)	N/A	1
Boiling Point (F at 29.92 in. Hg)	N/A	74.9
Boiling Range (F for 5%-85% vol. dist.)	N/A	0.5
Chloride (pass / fail)	N/A	pass
High Boiling Residue (% by volume)	N/A	.01
Non-condensables (% by volume)	N/A	N/A
Other Refrigerants (% by weight)	.05	.5
Particulates / Solids (pass / fail)	N/A	pass
Water (ppm by weight)	N/A	20

This sample was tested in accordance with Appendix 93 of ARI Standard 700. The estimated accuracy of these measurements appears in Appendix 93. These results apply only to the item described in this report, which shall not be reproduced except in full without obtaining prior written approval from Integral Sciences Incorporated. This test was not at the request of ARI and therefore is not part of the ARI Certification Program for Reclaimed Refrigerants.

9/13/95

Andrew M. Gbur, Laboratory Manager

R-11

Customer: HAZMAT ISIS#: 995761

Date: 13-Sep-95

Refrigerant	R. Time	Area	Avg RRF	Mass%	
R-134a	4.88	0	0.9304	0.0000	
R-22	5.21	0	2.6672	0.0000	
R-115	6.66	0	2.6664	0.0000	
R-12	7.82	0	3.2352	0.0000	
R-1113	8.5	0	0.7553	0.0000	
R-133a	10.04	0	0.7062	0.0000	
R-21	10.52	41630	2.2735	0.0478	
R-30	11.32	0	1.1502	0.0000	
R-114	11.75	0	1.3212	0.0000	
n-Butane	12.33	0	0.1897	0.0000	
R-11	13.63	197900000	1.0000	99.9475	QR Value 0.0525
R-123a	14.64	0	0.9305	0.0000	
R-123	15.24	0	0.7316	0.0000	
R-113	17.53	8266	1.1174	0.0047	
R-140a	20.05	0	0.6909	0.0000	
R-10	20.77	0	2.4900	0.0000	
R-1120	25.63	0	0.6846	0.0000	

Analyzed by: _____ DS: Y

Title: Analytical Chemist

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Haz Mat Services
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Customer Reference Number:	32026-44
Sample Cylinder Number:	AB39
Purchase Order Number:	200
ISI Tracking Number:	995756
Date Analyzed:	9/13/95
Refrigerant Analyzed:	R-22 (Chlorodifluoromethane)

Certificate of Analysis

Test	Result	ARI 700 Maximum
Acidity (ppm by weight)	N/A	1
Boiling Point (F at 29.92 in. Hg)	N/A	-41.4
Boiling Range (F for 5%-85% vol. dist.)	N/A	0.5
Chloride (pass / fail)	N/A	pass
High Boiling Residue (% by volume)	N/A	.01
Non-condensables (% by volume)	N/A	1.5
Other Refrigerants (% by weight)	.77*	.5
Particulates / Solids (pass / fail)	N/A	pass
Water (ppm by weight)	N/A	10

* *Predominantly R-124.*

This sample was tested in accordance with Appendix 93 of ARI Standard 700. The estimated accuracy of these measurements appears in Appendix 93. These results apply only to the items described in this report, which shall not be reproduced except in full without obtaining prior written approval from Integral Sciences Incorporated. This test was not at the request of ARI and therefore is not part of the ARI Certification Program for Reclaimed Refrigerants.

9/13/95

Andrew M. Gbur, Laboratory Manager

R-22

Customer: HAZMAT

ISI#: 995756
Date: 13-Sep-95

Refrigerant	R. Time	Area	Avg RRF	Mass%	
Methane	2.25	0	0.1042	0.0000	
R-23	2.82	552	2.8601	0.0018	
Ethene	3.43	0	0.0829	0.0000	
Ethane	3.95	0	0.1110	0.0000	
R-13	4.53	0	2.9450	0.0000	
R-143a	5.18	2239	0.2538	0.0007	
R-152a	6.08	0	0.1917	0.0000	
R-134a	6.55	0	0.4492	0.0000	
R-115	10.75	0	1.3547	0.0000	
Propene	10.4	0	0.0853	0.0000	
R-22	6.88	8.6363E+07	1.0000	99.2343	OR Value 0.7657
R-12	12.76	0	2.1844	0.0000	
R-142b	13.44	0	0.3098	0.0000	
R-124	15.38	875530	0.7587	0.7633	
R-133a	16	0	0.4007	0.0000	
R-21	16.54	0	1.7348	0.0000	
Isobutane	17.05	0	0.0869	0.0000	
R-114	18	0	1.1999	0.0000	
N-Butane	18.8	0	0.0000	0.0000	
2Butene	19.57	0	3.8148	0.0000	
R-11	19.94	0	3.2641	0.0000	
R-123	21.84	0	0.5016	0.0000	
R-113	24.17	0	0.7661	0.0000	
R-123a	21.16	0	0.5378	0.0000	
R-160	14.86	0	0.2404	0.0000	

Analyzed by: _____

Integral Sciences Incorporated

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Fax (614) 279-4642

Haz Mat Services
Travis Findly
4661 Avocado Avenue
Yorba Linda, CA 92686

Customer Reference Number:	32026-44
Sample Cylinder Number:	AB40
Purchase Order Number:	200
ISI Tracking Number:	995755
Date Analyzed:	9/14/95
Refrigerant Analyzed:	R-11 (Trichlorofluoromethane)

Certificate of Analysis

Test	Result	ARI 700 Maximum
Acidity (ppm by weight)	N/A	1
Boiling Point (F at 29.92 in. Hg)	N/A	74.9
Boiling Range (F for 5%-85% vol. dist.)	N/A	0.5
Chloride (pass / fail)	N/A	pass
High Boiling Residue (% by volume)	N/A	.01
Non-condensables (% by volume)	N/A	N/A
Other Refrigerants (% by weight)	.15	.5
Particulates / Solids (pass / fail)	N/A	pass
Water (ppm by weight)	N/A	20

This sample was tested in accordance with Appendix 93 of ARI Standard 700. The estimated accuracy of these measurements appears in Appendix 93. These results apply only to the item described in this report, which shall not be reproduced except in full without obtaining prior written approval from Integral Sciences Incorporated. This test was not at the request of ARI and therefore is not part of the ARI Certification Program for Reclaimed Refrigerants.

9/14/95

Andrew M. Gbur, Laboratory Manager

R-11

Customer: HAZMAT **ISI#:** 995755

Date: 14-Sep-95

Refrigerant	R. Time	Area	Avg RRF	Mass%	
R-134a	4.88	0	0.9304	0.0000	
R-22	5.21	1372	2.6672	0.0022	
R-115	6.66	0	2.6664	0.0000	
R-12	7.82	5972	3.2352	0.0119	
R-1113	8.5	0	0.7553	0.0000	
R-133a	10.04	0	0.7062	0.0000	
R-21	10.52	94140	2.2735	0.1315	
R-30	11.32	0	1.1502	0.0000	
R-114	11.75	452	1.3212	0.0004	
n-Butane	12.33	0	0.1897	0.0000	OR Value
R-11	**13.63**	**162500000**	**1.0000**	**99.8506**	0.1494
R-123a	14.64	0	0.9305	0.0000	
R-123	15.24	0	0.7316	0.0000	
R-113	17.53	4158	1.1174	0.0029	
R-140a	20.05	1397	0.6909	0.0006	
R-10	20.77	0	2.4900	0.0000	
R-1120	25.63	0	0.6846	0.0000	

Analyzed by: _____ DS: Y

Title: Analytical Chemist

Integral Sciences Incorporated

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(800) 745-8091
Fax (614) 279-4642

Haz Mat Services
Travis Findly
4661 Avocado Avenue
Yorba Linda, CA 92686

Customer Reference Number:	32026-44
Sample Cylinder Number:	AB41
Purchase Order Number:	200
ISI Tracking Number:	995753
Date Analyzed:	9/13/95
Refrigerant Analyzed:	See Note Below

Certificate of Analysis

Test	Result	ARI 700 Maximum
Acidity (ppm by weight)	N/A	N/A
Boiling Point (F at 29.92 in. Hg)	N/A	N/A
Boiling Range (F for 5%-85% vol. dist.)	N/A	N/A
Chloride (pass / fail)	N/A	N/A
High Boiling Residue (% by volume)	N/A	N/A
Non-condensables (% by volume)	N/A	N/A
Other Refrigerants (% by weight)	.29*	N/A
Particulates / Solids (pass / fail)	N/A	N/A
Water (ppm by weight)	N/A	N/A

* *Sample contained unknown contaminants.*

This sample was tested in accordance with Appendix 93 of ARI Standard 700. The estimated accuracy of these measurements appears in Appendix 93. These results apply only to the item described in this report, which shall not be reproduced except in full without obtaining prior written approval from Integral Sciences Incorporated. This test was not at the request of ARI and therefore is not part of the ARI Certification Program for Reclaimed Refrigerants.

9/13/95

Andrew M. Gbur, Laboratory Manager

R-11

Customer: HAZMAT ISI#: 995753

Date: 13-Sep-95

Refrigerant	R. Time	Area	Avg RRF	Mole%	
R-134a	4.88	0	0.9304	0.0000	
R-22	5.21	9872	2.6672	0.0168	
R-115	6.66	0	2.6664	0.0000	
R-12	7.82	1095	3.2352	0.0020	
R-1113	8.5	0	0.7553	0.0000	
R-133a	10.04	0	0.7062	0.0000	
R-21	10.52	112300	2.2735	0.1435	
R-30	11.32	5824	1.1502	0.0038	
R-114	11.75	30930	1.3212	0.0230	
n-Butane	12.33	98420	0.1897	0.0105	
R-11	13.63	177300000	1.0000	99.7053	QR Value 0.2947
R-123a	14.64	0	0.9305	0.0000	
R-123	15.24	1753	0.7316	0.0007	
R-113	17.53	147800	1.1174	0.0929	
R-140a	20.05	8836	0.6909	0.0034	
R-10	20.77	0	2.4900	0.0000	
R-1120	25.63	0	0.6846	0.0000	

Analyzed by: _____ DS: Y

Title: Analytical Chemist

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Haz Mat Services
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4661 Avocado Avenue
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Customer Reference Number:	32026-44
Sample Cylinder Number:	AB42
Purchase Order Number:	200
ISI Tracking Number:	995760
Date Analyzed:	9/12/95
Refrigerant Analyzed:	R-11 (Trichlorofluoromethane)

Certificate of Analysis

Test	Result	ARI 700 Maximum
Acidity (ppm by weight)	N/A	1
Boiling Point (F at 29.92 in. Hg)	N/A	74.9
Boiling Range (F for 5%-85% vol. dist.)	N/A	0.5
Chloride (pass / fail)	N/A	pass
High Boiling Residue (% by volume)	N/A	.01
Non-condensables (% by volume)	N/A	N/A
Other Refrigerants (% by weight)	.40*	.5
Particulates / Solids (pass / fail)	N/A	pass
Water (ppm by weight)	N/A	20

** Sample contained two unknown compounds in small concentrations.*

This sample was tested in accordance with Appendix 93 of ARI Standard 700. The estimated accuracy of these measurements appears in Appendix 93. These results apply only to the item described in this report, which shall not be reproduced except in full without obtaining prior written approval from Integral Sciences Incorporated. This test was not at the request of ARI and therefore is not part of the ARI Certification Program for Reclaimed Refrigerants.

9/12/95

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Haz Mat Services
Travis Findly
4661 Avocado Avenue
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Customer Reference Number:	32026-44
Sample Cylinder Number:	AB43
Purchase Order Number:	200
ISI Tracking Number:	995754
Date Analyzed:	9/11/95
Refrigerant Analyzed:	R-22 (Chlorodifluoromethane)

Certificate of Analysis

Test	Result	ARI 700 Maximum
Acidity (ppm by weight)	N/A	1
Boiling Point (F at 29.92 in. Hg)	N/A	-41.4
Boiling Range (F for 5%-85% vol. dist.)	N/A	0.5
Chloride (pass / fail)	N/A	pass
High Boiling Residue (% by volume)	N/A	.01
Non-condensables (% by volume)	N/A	1.5
Other Refrigerants (% by weight)	1.0*	.5
Particulates / Solids (pass / fail)	N/A	pass
Water (ppm by weight)	N/A	10

* *Predominantly R-12.*

This sample was tested in accordance with Appendix 93 of ARI Standard 700. The estimated accuracy of these measurements appears in Appendix 93. These results apply only to the item described in this report, which shall not be reproduced except in full without obtaining prior written approval from Integral Sciences Incorporated. This test was not at the request of ARI and therefore is not part of the ARI Certification Program for Reclaimed Refrigerants.

9/11/95

Andrew M. Gbur, Laboratory Manager

R-22

Customer: HAZMAT

ISI#: 995754
Date: 11-Sep-95

Refrigerant	R.Time	Area	Avg RRF	Mass%	
Methane	2.25	0	0.1078	0.0000	
R-23	2.82	699	3.0032	0.0020	
Ethene	3.43	0	0.0000 0.0856	0.0000	
Ethane	3.95	0	0.1143	0.0000	
R-13	4.53	0	3.0390	0.0000	
R-143a	5.18	2682	0.2630	0.0007	
R-152a	6.08	0	0.1971	0.0000	
R-134a	6.55	0	0.4670	0.0000	
R-115	10.75	0	1.4158	0.0000	
Propene	10.4	0	0.0863	0.0000	
R-22	6.88	1.0448E+08	1.0000	98.9981	**OR Value** **1.0019**
R-12	12.76	481740	2.1716	0.9913	
R-142b	13.44	0	0.3097	0.0000	
R-124	15.38	0	0.7714	0.0000	
R-133a	16	0	0.3961	0.0000	
R-21	16.54	5185	1.5697	0.0077	
Isobutane	17.05	3825	0.0848	0.0003	
R-114	18	0	1.3008	0.0000	
N-Butane	18.8	0	0.0000	0.0000	
2Butene	19.57	0	3.6646	0.0000	
R-11	19.94	0	2.8062	0.0000	
R-123	21.84	0	0.4491	0.0000	
R-113	24.17	0	0.6310	0.0000	
R-123a	21.16	0	0.4818	0.0000	
R-160	14.86	0	0.2222	0.0000	

Analyzed by: _____

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Haz Mat Services
Travis Findly
4661 Avocado Avenue
Yorba Linda, CA 92686

Customer Reference Number:	32026-44
Sample Cylinder Number:	AB44
Purchase Order Number:	200
ISI Tracking Number:	995751
Date Analyzed:	9/12/95
Refrigerant Analyzed:	See Note Below

Certificate of Analysis

Test	Result	ARI 700 Maximum
Acidity (ppm by weight)	N/A	N/A
Boiling Point (F at 29.92 in. Hg)	N/A	N/A
Boiling Range (F for 5%-85% vol. dist.)	N/A	N/A
Chloride (pass / fail)	N/A	N/A
High Boiling Residue (% by volume)	N/A	N/A
Non-condensables (% by volume)	N/A	N/A
Other Refrigerants (% by weight)	.13*	N/A
Particulates / Solids (pass / fail)	N/A	N/A
Water (ppm by weight)	N/A	N/A

** See attached sheet.*

This sample was tested in accordance with Appendix 93 of ARI Standard 700. The estimated accuracy of these measurements appears in Appendix 93. These results apply only to the item described in this report, which shall not be reproduced except in full without obtaining prior written approval from Integral Sciences Incorporated. This test was not at the request of ARI and therefore is not part of the ARI Certification Program for Reclaimed Refrigerants.

9/12/95

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Travis Findly
4661 Avocado Avenue
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Customer Reference Number:	32026-44
Sample Cylinder Number:	AB45
Purchase Order Number:	200
ISI Tracking Number:	995752
Date Analyzed:	9/14/95
Refrigerant Analyzed:	R-11 (Trichlorofluoromethane)

Certificate of Analysis

Test	Result	ARI 700 Maximum
Acidity (ppm by weight)	N/A	1
Boiling Point (F at 29.92 in. Hg)	N/A	74.9
Boiling Range (F for 5%-85% vol. dist.)	N/A	0.5
Chloride (pass / fail)	N/A	pass
High Boiling Residue (% by volume)	N/A	.01
Non-condensables (% by volume)	N/A	N/A
Other Refrigerants (% by weight)	.55*	.5
Particulates / Solids (pass / fail)	N/A	pass
Water (ppm by weight)	N/A	20

** Sample contained unknown component.*

This sample was tested in accordance with Appendix 93 of ARI Standard 700. The estimated accuracy of these measurements appears in Appendix 93. These results apply only to the item described in this report, which shall not be reproduced except in full without obtaining prior written approval from Integral Sciences Incorporated. This test was not at the request of ARI and therefore is not part of the ARI Certification Program for Reclaimed Refrigerants.

9/14/95

Andrew M. Gbur, Laboratory Manager

R-11

Customer: HAZMAT **ISI#:** 995752

Date: 14-Sep-95

Refrigerant	R. Time	Area	Avg RRF	Mass%	
R-134a	4.88	0	0.9304	0.0000	
R-22	5.21	4125	2.6672	0.0057	
R-115	6.66	0	2.6664	0.0000	
R-12	7.82	239	3.2352	0.0004	
R-1113	8.5	0	0.7553	0.0000	
R-133a	10.04	0	0.7062	0.0000	
R-21	10.52	291500	2.2735	0.3413	
R-30	11.32	21140	1.1502	0.0125	
R-114	11.75	68540	1.3212	0.0466	
n-Butane	12.33	7120	0.1897	0.0007	
R-11	**13.63**	**193100000**	**1.0000**	**99.4539**	**QR Value 0.5461**
R-123a	14.64	0	0.9305	0.0000	
R-123	15.24	12360	0.7316	0.0047	
R-113	17.53	230900	1.1174	0.1329	
R-140a	20.05	3673	0.6909	0.0013	
R-10	20.77	0	2.4900	0.0000	
R-1120	25.63	0	0.6846	0.0000	

Analyzed by: _____ DS: Y

Title: Analytical Chemist

APPENDIX J

REFRIGERANT GAS SAMPLING PROTOCOL

APPENDIX J

REFRIGERANT SAMPLING PROTOCOL

I. Purpose

The sampling of refrigerants without changing the characteristics of the sample is a critical procedure for the acquisition of representative refrigerant samples from batched product. Since acidity, chloride, oil (high boiling residue), air (non-condensable gases), other refrigerants, particulates, and water are considered typical contaminants in a refrigerant sample, it is necessary to ensure that these contaminants are not inadvertently introduced into the sample. The following procedure should be incorporated to reduce the possibility of contamination during refrigerant transfer.

II. Applicability

This method is applicable to the routine sampling of refrigerant from refrigerant vessels, cylinders, and other holding tanks, and is applicable for all refrigerants which contain pressures above 8 PSIG and below 200 PSIG at an ambient temperature of 75 F. Special precautions should be practiced for the sampling of alternative replacements for CFC's due to the fact that compatibility concerns may arise. Always investigate the materials compatibility between the refrigerant and the composition of the sampling apparatus (hoses, valves, fitting, seals, and pressure vessels) prior to sampling.

III. Special Safety Considerations

A. Product and Procedure Hazards

Work should be performed in a well ventilated area while samples are drawn. Ventilation should be adequate to meet TLV requirements (see Appendix 2 - Chemical Hazard Risk Assessment for Gases) and minimize exposure. Provide local exhaust at filling zones and where leakage is possible. Store cylinders in a cool, dry well- ventilated area away from heat, flame or combustibles. Protect cylinder and fittings from physical damage. Refer to all Material Safety Data Sheets (see Appendix 3 - MSDS and Physical Data) before working with any refrigerants. Consult CGA Pamphlet P.1, "Safe Handling of Compressed Gases in Containers", 1974, Compressed Gas Association (1980 printing). Consult OSHA Standard, 29 CFR 1910 (1982), "Z List" for permissible concentration references. Safety glasses and gloves should be worn at all times.

IV. Special Apparatus (Equivalents may be substituted)

1. ASSEMBLED: For low pressure refrigerant gases (<200 psig), DOT4B240ET or equivalent DOT approved shipping container with pressure relief valve; for high pressure refrigerant gases (<500 psig), DOTE-1800 or equivalent DOT approved shipping container with pressure relief valve. See Table 2 of this workplan for Authorized DOT Spec Cylinders for the refrigerant gases in the scope of this project.

AND

3/8"MMPT x 1/4 SAE Flare Brass valve with pressure relief.

OR

2. 500 ml stainless steel cylinder: Swagelok, Inc.
Cat# 304L-HDF4-500. Swagelok, Inc.

AND

2 - 1/4" stainless steel valves with male pipe fittings: Swagelok, Inc. Cat# SS-1RM4 Swagelok, Inc.

AND

2 - 1/4" female pipe x 1/4" flare fitting: W.W. Grainger Cat# 2P-199

AND

Pressure Relief Rupture Disc:

3. Valve cap: 1/4" and 0-ring. Integral Sciences, Inc. Product# VC-B-4

4. Vacuum pump: Johnstone Supply Company. Cat# H93-028

5. Heat Gun: W.W. Grainger Cat# 4A162

6. Temperature Probe: Johnstone Supply. Cat# H24-749

7. Platform Balance: 28000g x lg: CMS Cat#

8. Nalgene Desiccator: CMS Cat# 324-277

9. Adaptor: Swagelok Qat# SS-400-A-4ANF

10. Union Cross: Swagelok Cat# 36-400-4.

12. Reducing Union: Swagelok Cat# 33-400-6-1

13. Tube Union: Swagelok Cat# SS-400-6

14. 1 ft. SS flex hose: Swagelok Cat# SS-4BHT-12

15. (2) - 4 ft. 33 flex hose: Swagelok Cat# SS-4BHT-48.

16. Manifold Gauge Set

V. Procedure

A. Sample Cylinder Assembly

The cylinder assembly is used as the vessel in which the refrigerant will be drawn, shipped, and chemically analyzed. In order to complete this assembly all pipe fittings must be Teflon-taped to ensure a proper seal at each joint. All components of the sample cylinder should be thoroughly cleaned with hexane to remove all residual cutting oils and machining by-products. Since, hexane is highly flammable, caution should be used and all MSDS protocol should be followed.

If the sample cylinder which is being used is from Integral Sciences, Inc. no assembly is required (refer to special Apparatus Section VII #1 of this method). If the sample cylinder which is being used is from Swagelok or Carwin Carbonic (refer to Special Apparatus Section VII #2) assemble as follows: Attach the Pressure Relief Valve to the 500 ml stainless steel cylinder. Attach one of the 1/4" NPT x 1/4" NPT stainless steel valves to the pressure relief valve. Connect a 1/4" FPT x 1/4" flare fitting to the 1/4 NPT valve. To the other side of the 500 ml cylinder, attach another 1/4" NPT x 1/4" NPT valve, and the 1/4" FPT X 1/4" flare fitting to the 1/4" NPT valve. Sampling should always occur from the side of the 500 ml cylinder which does not employ the pressure relief valve.

B. Sample Cylinder and Apparatus Cleaning.

If the sample cylinder has been purchased from Integral Sciences, Inc. no cleaning is necessary. If the sample cylinder is from another source, the sample cylinder should be cleaned in accordance with ARI standard 700-91, Section 8.2.1;

Special Precautions should be taken to assure that representative samples are obtained for analysis. Sampling should be done by trained laboratory personnel following accepted sampling procedures. The stainless steel test cylinder (approximately 30.5 cu. inches £500 ml. capacity with valves at each end) shall be prepared as follows for obtaining gas and liquid phase samples:

a. Clean test cylinder (with valves) with .16-.67 oz [5-20 ml] portions of reagent grade 1.1.1-trichloroethane or suitable solvents. (Use hexane since trichloroethane is a carcinogen and is not permitted under section 608 of the-Clean Air Act.)

b. Blow out test cylinder with dry, (<3 ppm water) nitrogen.

c. With valves open. place test cylinders and connecting tubing in oven at approximately 230 P [110 C for one hour.

d. When heated, connect clean copper tubing to storage container and test cylinder. Connect immediately to an evacuation system and evacuate to less than 1 mm mercury [0.133 kPa] (1000 microns)."

** Store all sampling materials in a nalgene desiccator- when not in use.

VI. Sampling

A. Determination Of Batch: Tank Pressure

a. Using a refrigeration manifold gauge, determine the pressure of the batch tank.

b. Connect one end of a clean refrigeration hose to the 1/4" male flare fitting gauge side manifold port and connect the other end of the same hose to the 1/4" male flare fitting of the batch tank.

c. Ensure that all other valves and ports on the manifold gauge are closed. Open the vapor valve of the batch tank, and read the gauge to determine the pressure.

d. Record this value as Pressure at the batch tank (PSIG).

B. Determination Of Batch Tank Temperature

a. Using a temperature probe, determine the temperature of the batch tank.

b. Affix a lead to the temperature probe to the outside of the batch tank.

c. Plug in the lead to the temperature probe control panel.

d. Switch the probe setting to F (Fahrenheit), and allow for the temperature probe to stabilize. Record this value as Temperature of the batch tank (F). Sampling temperatures are important to read so that the laboratory can back calculate the Non-condensable value for a 75F sample.

C. Determination Of Sample Cylinder Weight (Empty)

a. Weigh the sample cylinder empty with the valve cap and any tags and labels which will remain on the cylinder when it is received by the laboratory.

b. Record this value in grams as Weight of sample cylinder (empty).

D. Connection Of The Hoses- Prior To Sampling

a. Remove the valve cap and store in a dry place such as a desiccator, or an oven.

b. Connect the 1 ft. teflon lined stainless flex hose to the 1/4" flare fitting of the batch tank. Tighten the fitting with a 9/16" open faced wrench.

c. Connect the one of the 4 ft. Teflon lined stainless flex hoses to the 1/4" flare fitting of the sample cylinder. Tighten with 9/16" open faced wrench.

d. Connect the other 4 ft. teflon lined stainless flex hose to the 1/4" flare fitting of the refrigerant recovery cylinder. Tighten with a 9/16" open faced wrench.

e. Connect a clean refrigeration hose to the 1/4" flare fitting on the red handled vacuum valve. Hand tighten. Connect the other end 6f the same hose to the non-gauge side port on the manifold gauge.

f. Connect another refrigeration hose the gauge side port of the manifold. Hand tighten. Connect the other end of that same hose the 1/4" flare fitting of the vacuum pump.

E. Pulling A Vacuum

a. Prior to pulling a vacuum, ensure that all valves are closed (the batch tank, the sample cylinder, the recovery cylinder, the vacuum access red hand valve, and both valves on the manifold gauge).

b. Turn your vacuum pump on.

c. Open both manifold valves. Verify at least a 1000 micron vacuum has been pulled from the pump to the red handled vacuum access valve.

d. If the pump is pulling sufficient vacuum, open the red handled vacuum access valve and confirm vacuum to the sample cylinder.

e. Continue the vacuum check by now opening the sample cylinder valve and the recovery cylinder valve and again check for 29 inches of vacuum.

f. Confirm that the entire system is sealed by closing the gauge side manifold valve and sustaining 29 inches of vacuum in the lines and sample cylinder.

NOTE: Make sure that the red handled vacuum access valve to the vacuum pump and the recovery cylinder remains closed before sampling the refrigerant.

F. Obtaining The Sample

a. Prior to opening the batch tank valve, verify that the following valves are closed: the manifold gauge, the red handled vacuum access valve, and the recovery cylinder.

b. Prior to opening the batch tank valve, verify that the only valve open is the sample cylinder valve.

c. Place the sample cylinder on the scale. Make sure that the cylinder is in the center of the scale. Place the sample cylinder on the scale in such a way that tension on the stainless flex hose is reduced (excessive tension may skew weights).

d. Once sample cylinder and apparatus lines are stable, press tare or zero on the scale.

e. Once the scale has stabilized and provided the operator with a zero balance (+/- 2 grams), open the liquid valve of the batch tank.

f. It is necessary to fill the sample cylinder with 1 lb. of liquid refrigerant.

CAUTION: Never fill a refrigerant container more than 80% of its water capacity.

Note: For an accurate laboratory analysis of Noncondensable gases, a vapor phase sample should be taken from the vapor space of the refrigerant container.

g. Once the proper amount of sample has been obtained, close the batch cylinder valve and then the sample cylinder valve.

1. Confirm that all valves throughout the sampling system are closed (the red handled vacuum access valve, the sample cylinder valve, the recovery cylinder valve, and the batch tank valve).

h. Open the empty recovery cylinder valve and allow it to pull all the residual refrigerant from the lines and hoses of the sampling apparatus to minimize refrigerant release.

i. Disconnect the refrigeration hose from the red handled vacuum access valve.

j. Open the red handled vacuum access valve and relieve any residual pressure from-the lines and hoses.

k. Disconnect the sample cylinder from the hose.

l. Remove the valve cap from the desiccator or the oven and immediately cap the sample cylinder.

m. Zero the scale and weigh the full sample cylinder.

n. Record this value as Weight of sample cylinder (full).

o. Subtract the Weight of sample cylinder (empty) from the Weight of the sample-cylinder (full).

p. Record this value as sample weight.

q. Record the batch cylinder number, the sample cylinder number, and all other inventory tracking numbers.

REFERENCES

1. ARI standard 740-91 section 8.2.1.

2. CGA Pamphlet p.1 •' Safe-Handling of Compressed Gases in Containers', 1974 Compressed Gas Association (1980 printing).

3. ISI Material Safety Data Sheets for R-12, R-22, R-500, R-502, R-114, and R-134a.

4. OSHA standard, 29 CFR 1910 (1982), "Z List".

5. 1989 ASHRAE HANDBOOK: Fundamentals, Chap. 16.

APPENDIX K

REFRIGERANT SHIPPING DOCUMENTATION

State of New Jersey
Department of Environmental Protection and Energy
Hazardous Waste Regulation Program
Manifest Section
CN 421, Trenton NJ 08625-0421

* 2 0 6 6 9 5 7 *

(Type or block letters. (Form designed for use on elite (12-pitch) typewriter.)

UNIFORM HAZARDOUS WASTE MANIFEST	CAD 042245001 145001	1
OMEGA Chemical Site PRP Group 12504 E. Whittier Blvd Whittier, CA 90602 310 503-4827	c/o Harding Lawson Associates 3Hutton Centre Drive #300 Santa Ana, CA 92707 ATTN: Andrew Keller	NJA 2066957 12504 E. Whittier Blvd. 50083 67873 800 234-8768
TRI State Motor Transit Co.	MOD095038998	425401 (CA)
Rollins Environmental Services (NJ), Inc RT 322 & I-295 Bridgeport NJ 08014	NJD053288239	609 467-3100

X	WASTE REFRIGERANT GASES, N.O.S. (Chlorodifluoromethane and dichlorodifluoromethane), 2.2, UN1078 RQ	001 CY 02727 P F002
X	WASTE REFRIGERANT GASES, N.O.S., (Chlorodifluoromethane and dichlorodifluoromethane), 2.2, UN1078	003 CY 05252 P X905
X	Waste Refrigerant Gases, N.O.S. (Chlorodifluoromethane and dichlorodifluoromethane), 2.2, UN1078	009 CY 18784 P X905

ERG # 12 (attached)

L-39599 #MW2

L-39598 #MW1, MW3, MW5, MW6, MW10, MW7-9, RRA101

L-39600 #MW4, S2A, S2B

note: S2A, S2B, RRA, MW7-9 are 1000# cylinders.

24 Hr. EMERGENCY RESPONSE CONTACT (800) 424-8802
National Response Center

CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport by highway according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true. If I am a small quantity generator and have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

Jim Hardesty	EMPLOYED BY HLA - Agent for OMEGA Chemical Site PRP organized group	Jim Hardesty	09 12 95
Levi Letterman		Levi Letterman	09 12 95

Signature of hazardous materials covered by this manifest except as noted.

1 — TSD MAIL TO TSD'S STATE — SIGNATURE AND INFORMATION MUST BE LEGIBLE

In case of an emergency or spill immediately call the State Emergency Occurrence N.J. Dept. of Environmental Protection and Energy. (609) 292-7172

NJA 2066957

LDR NOTIFICATION

ROLLINS ENVIRONMENTAL SERVICES

CUSTOMER INSTRUCTIONS

1. This Land Disposal Restriction (LDR) Notification form applies to EPA RCRA Hazardous Wastes as either a wastewater or non-wastewater (including labpacks regulated under 40CFR§268, Appendix IV) or a hazardous debris not meeting relevant LDR treatment standards. For labpacks using the Alternative Treatment Standards of §268.42(c) or for a waste already meeting the LDR treatment standard, please contact us for the additional or alternate notification/certification form.
2. ***Complete Sections A, B, C and D. Complete Section E only*** when instructed by either Section B below or Section D: EPA Hazardous Waste Code Tables.
3. This form shall be completed in ink or typewritten. Originals can be obtained from all RES offices.

SECTION A. GENERATOR INFORMATION

1. Generator OMEGA Chemical Site PRP Group
2. EPA I.D. No. CAD 042245001
3. Manifest No. NJA 2066957
4. RES Waste Stream No. L-39598

SECTION B. GENERATOR LDR NOTIFICATION (40 CFR § 268.7)

1. Notifying (Check One): ☒ RES (NJ) ☐ RES (LA) ☐ RES (TX) ☐ OPC ☐ RES of LA ☐ TET
2. Under the above RES Waste Stream No., I am shipping to you a hazardous waste as identified below under Waste Category & California List Notifications:

WASTE CATEGORY & CALIFORNIA LIST NOTIFICATIONS

Check either a, b, or c. ***Waste Category***

☐ a. A wastewater identified by the EPA Waste Code/subcategory that I have checked in Section D; ***OR***

☐ b. A non-wastewater identified by the EPA Waste Code/subcategory that I have checked in Section D; ***OR***

☐ c. A hazardous debris identified by the EPA Waste Code/subcategory that I have checked in Section D. (See EPA Definitions & Subcategory Legend below).

☒ A non RCRA waste containing CAL List Notification

If applicable, check d, e, and f. ***California List Notifications***

☐ d. A D003-D011 waste containing halogenated organic compounds (HOCs) ≥1000 ppm (40 CFR § 268, Appendix III).

☐ e. A liquid hazardous waste containing polychlorinated biphenyls (PCBs) ≥50 ppm.

☐ f. A D003-D011 liquid waste containing ≥134 mg/l Nickel and/or ≥130 mg/l Thallium.

Note: If any of the above California List Notifications were checked, identify ALL UNDERLYING HAZARDOUS CONSTITUENTS (UHCs) in Section E. which can reasonably be expected to be present in the waste at a concentration above the constituent - specific treatment standard listed in 40 CFR § 268.48.

SECTION C. GENERATOR CERTIFICATION (Authorized Representative)

I hereby certify and warrant that all the information supplied on this form and all associated documents represents a complete and accurate identification of this waste material.

1. Print or Type Name: Jim Hardesty EMPLOYED BY HLA, Agent for OMEGA Chemical Site PRP Organized Group
2. Date: 9 / 12 / 95
3. Signature: Jim Hardesty
4. Title: Site Supervisor

EPA DEFINITIONS & SUBCATEGORY LEGEND

AC = Acidic (≤2 pH)	HY = Hydrated	RS = Reactive Sulfide
AK = Alkaline (≥12.5 pH)	LB = Lead Acid Battery	RX = Other Reactives
AN = Anhydrous	LM = Low Mercury (<260 mg/kg)	TOC = Total Organic Carbon
CO = Corrosive (>6.35 mm/yr)	LQ = Liquid	WR = Water Reactive
CB = Cadmium Battery	NC = Non Calcium Sulfate	WW = Wastewater (<1% TOC and <1% Total Suspended Solids)
CS = Calcium Sulfate	OX = Oxidizer	
HM = High Mercury (≥ 260 mg/kg)	RC = Reactive Cyanide	

Hazardous Debris = A solid material exceeding a 60 mm particle size (i.e., ≈ 2¾") that is intended for disposal. The following materials are not debris: cadmium/lead acid batteries, process residuals such as smelter slag and residues from the treatment of waste, wastewater, sludges, or air emission residues; and intact containers of hazardous waste that are not ruptured and that retain at least 75% of their original volume (40 CFR § 268.2(g)).

SECTION D: EPA HAZARDOUS WASTE CODE TABLES

☒ No EPA Waste Code

RES Waste Stream No. L-39598

"D" CHARACTERISTIC CODES

Check All Applicable Waste Codes

☐ D001 GAS	* ☐ D002 AK	☐ D006	* ☐ D012	* ☐ D020	* ☐ D028	* ☐ D036
☐ D001 LQ ≥10% TOC	* ☐ D002 CO	☐ D007	* ☐ D013	* ☐ D021	* ☐ D029	* ☐ D037
	☐ D003 RX	☐ D008	* ☐ D014	* ☐ D022	* ☐ D030	* ☐ D038
☐ D001 LQ <10% TOC	☐ D003 RC	☐ D009 HM	* ☐ D015	* ☐ D023	* ☐ D031	* ☐ D039
	☐ D003 RS	Organics Only	* ☐ D016	* ☐ D024	* ☐ D032	* ☐ D040
☐ D001 OX	☐ D003 WR	☐ D009 LM	* ☐ D017	* ☐ D025	* ☐ D033	* ☐ D041
☐ D001 RX	☐ D004	☐ D010	* ☐ D018	* ☐ D026	* ☐ D034	* ☐ D042
* ☐ D002 AC	☐ D005	☐ D011	* ☐ D019	* ☐ D027	* ☐ D035	* ☐ D043

* Check in SECTION E. ALL UNDERLYING HAZARDOUS CONSTITUENTS which can reasonably be expected to be present in this waste at a concentration above the constituent-specific treatment standard listed in 40CFR§268.48. For D012-D017 WWs, UHCs are not applicable.

Note: Following "D" Codes acceptable only for Off-Site, Transfer & Disposal: (Unacceptable for incineration) ☐D006CB ☐D008LB ☐D009HM (inorganic)

"F" LISTED CODES

Check All Applicable Waste Codes

** ☐ F001	** ☐ F004	☐ F007	☐ F010	☐ F019	☐ F032	☐ F037
** ☐ F002	** ☐ F005	☐ F008	☐ F011	☐ F024	☐ F034	☐ F038
** ☐ F003	☐ F006	☐ F009	☐ F012	☐ F025	☐ F035	* ☐ F039

* Check in SECTION E. ALL UNDERLYING HAZARDOUS CONSTITUENTS which can reasonably be expected to be present in this waste at a concentration above the constituent-specific treatment standard listed in 40CFR§268.48.

** Check in SECTION E. ALL F001 - F005 HAZARDOUS CONSTITUENTS which can reasonably be expected to be present in this waste at a concentration above the constituent-specific treatment standard listed in 40CFR§268.48. (** = F001-F005 constituents in Section E.)

"K" LISTED CODES

Check All Applicable Waste Codes

☐ K001	☐ K017	☐ K033	☐ K049	☐ K086	☐ K104	☐ K124
☐ K002	☐ K018	☐ K034	☐ K050	☐ K087	☐ K105	☐ K125
☐ K003	☐ K019	☐ K035	☐ K051	☐ K088	☐ K106 LM	☐ K126
☐ K004	☐ K020	☐ K036	☐ K052	☐ K090	☐ K107	☐ K131
☐ K005	☐ K021	☐ K037	☐ K060	☐ K091	☐ K108	☐ K132
☐ K006 AN	☐ K022	☐ K038	☐ K061	☐ K093	☐ K109	☐ K136
☐ K006 HY	☐ K023	☐ K039	☐ K062	☐ K094	☐ K110	☐ K141
☐ K007	☐ K024	☐ K040	☐ K064	☐ K095	☐ K111	☐ K142
☐ K008	☐ K025	☐ K041	☐ K065	☐ K096	☐ K112	☐ K143
☐ K009	☐ K026	☐ K042	☐ K066	☐ K097	☐ K113	☐ K144
☐ K010	☐ K027	☐ K043 (BU only)	☐ K069 CS	☐ K098	☐ K114	☐ K145
☐ K011	☐ K028	☐ K044	☐ K071	☐ K099 (BU only)	☐ K115	☐ K147
☐ K013	☐ K029	☐ K045	☐ K073	☐ K100	☐ K116	☐ K148
☐ K014	☐ K030	☐ K046	☐ K083	☐ K101	☐ K117	☐ K149
☐ K015	☐ K031	☐ K047	☐ K084	☐ K102	☐ K118	☐ K150
☐ K016	☐ K032	☐ K048	☐ K085	☐ K103	☐ K123	☐ K151

Note: Following "K" Codes Acceptable only for Off-Site Transfer and Disposal (Unacceptable for incineration): ☐ K069NC ☐ K106HM

"P" LISTED CODES

Check All Applicable Waste Codes

☐ P001	☐ P012	☐ P026	☐ P039	☐ P050	☐ P065 LM	☐ P077
☐ P002	☐ P013	☐ P027	☐ P040	☐ P051	☐ P066	☐ P081
☐ P003	☐ P014	☐ P028	☐ P041	☐ P054	☐ P067	☐ P082
☐ P004	☐ P016	☐ P029	☐ P042	☐ P056	☐ P068	☐ P084
☐ P005	☐ P017	☐ P030	☐ P043	☐ P057	☐ P069	☐ P085
☐ P006	☐ P018	☐ P031	☐ P044	☐ P058	☐ P070	☐ P088
☐ P007	☐ P020	☐ P033	☐ P045	☐ P059	☐ P071	☐ P089
☐ P008	☐ P021	☐ P034	☐ P046	☐ P060	☐ P072	☐ P092 LM
☐ P009	☐ P022	☐ P036	☐ P047	☐ P062	☐ P073	☐ P093
☐ P010	☐ P023	☐ P037	☐ P048	☐ P063	☐ P074	☐ P094
☐ P011	☐ P024	☐ P038	☐ P049	☐ P064	☐ P075	☐ P095

SECTION D. (Continued)

RES Waste Stream No. _____

☐ P096	☐ P101	☐ P105	☐ P110	☐ P114	☐ P119	☐ P123
☐ P097	☐ P102	☐ P106	☐ P111	☐ P115	☐ P120	
☐ P098	☐ P103	☐ P108	☐ P112	☐ P116	☐ P121	
☐ P099	☐ P104	☐ P109	☐ P113	☐ P118	☐ P122	

Note: Following "P" Codes Acceptable only for Off-Site Transfer and Disposal: ☐ P015 ☐ P065 HM ☐ P076 ☐ P078 ☐ P087 ☐ P092 HM

Check All Applicable Waste Codes

"U" LISTED CODES

Check All Applicable Waste Codes

☐ U001	☐ U037	☐ U075	☐ U112	☐ U148	☐ U184	☐ U223
☐ U002	☐ U038	☐ U076	☐ U113	☐ U149	☐ U185	☐ U225
☐ U003	☐ U039	☐ U077	☐ U114	☐ U150	☐ U186	☐ U226
☐ U004	☐ U041	☐ U078	☐ U115	☐ U151 LM	☐ U187	☐ U227
☐ U005	☐ U042	☐ U079	☐ U116	☐ U152	☐ U188	☐ U228
☐ U006	☐ U043	☐ U080	☐ U117	☐ U153	☐ U189	☐ U234
☐ U007	☐ U044	☐ U081	☐ U118	☐ U154	☐ U190	☐ U235
☐ U008	☐ U045	☐ U082	☐ U119	☐ U155	☐ U191	☐ U236
☐ U009	☐ U046	☐ U083	☐ U120	☐ U156	☐ U192	☐ U237
☐ U010	☐ U047	☐ U084	☐ U121	☐ U157	☐ U193	☐ U238
☐ U011	☐ U048	☐ U085	☐ U122	☐ U158	☐ U194	☐ U239
☐ U012	☐ U049	☐ U086	☐ U123	☐ U159	☐ U196	☐ U240
☐ U014	☐ U050	☐ U087	☐ U124	☐ U160	☐ U197	☐ U243
☐ U015	☐ U051	☐ U088	☐ U125	☐ U161	☐ U200	☐ U244
☐ U016	☐ U052	☐ U089	☐ U126	☐ U162	☐ U201	☐ U246
☐ U017	☐ U053	☐ U090	☐ U127	☐ U163	☐ U202	☐ U247
☐ U018	☐ U055	☐ U091	☐ U128	☐ U164	☐ U203	☐ U248
☐ U019	☐ U056	☐ U092	☐ U129	☐ U165	☐ U204	☐ U249
☐ U020	☐ U057	☐ U093	☐ U130	☐ U166	☐ U205	☐ U328
☐ U021	☐ U058	☐ U094	☐ U131	☐ U167	☐ U206	☐ U353
☐ U022	☐ U059	☐ U095	☐ U132	☐ U168	☐ U207	☐ U359
☐ U023	☐ U060	☐ U096	☐ U133	☐ U169	☐ U208	
☐ U024	☐ U061	☐ U097	☐ U134	☐ U170	☐ U209	
☐ U025	☐ U062	☐ U098	☐ U135	☐ U171	☐ U210	
☐ U026	☐ U063	☐ U099	☐ U136	☐ U172	☐ U211	
☐ U027	☐ U064	☐ U101	☐ U137	☐ U173	☐ U213	
☐ U028	☐ U066	☐ U102	☐ U138	☐ U174	☐ U214	
☐ U029	☐ U067	☐ U103	☐ U140	☐ U176	☐ U215	
☐ U030	☐ U068	☐ U105	☐ U141	☐ U177	☐ U216	
☐ U031	☐ U069	☐ U106	☐ U142	☐ U178	☐ U217	
☐ U032	☐ U070	☐ U107	☐ U143	☐ U179	☐ U218	
☐ U033	☐ U071	☐ U108	☐ U144	☐ U180	☐ U219	
☐ U034	☐ U072	☐ U109	☐ U145	☐ U181	☐ U220	
☐ U035	☐ U073	☐ U110	☐ U146	☐ U182	☐ U221	
☐ U036	☐ U074	☐ U111	☐ U147	☐ U183	☐ U222	

Note: Following "U" Code Acceptable only for Off-Site Transfer and Disposal (Unacceptable for incineration): ☐ U151 HM

OTHER RES INCINERATION UNACCEPTABLES

Unacceptable EPA Waste Codes (Permit Restricted)

- D003 Explosives
- D002, D004-D011 (High level radioactive wastes from processing of fuel rods).
- The following "F" Listed Dioxin Waste Codes:
  - F020
  - F021
  - F022
  - F023
  - F026
  - F027
  - F028

Unacceptable Hazardous Constituents

The following Dioxins constituents are unacceptable above the LDR treatment standard:

- All HxCDDs
- All HxCDFs
- All PeCDDs
- All PeCDFs
- All TCDDs
- All TCDFs

- Kepone in any concentration is unacceptable at RES (NJ).

Note: Acceptance of the Dioxin constituents in non-listed Dioxin Wastes are on a case-by-case basis.

SECTION E. UNDERLYING HAZARDOUS CONSTITUENTS (UHCs)

(40 CFR§268.48) *RES Waste Stream No.* L-39598

INORGANIC CONSTITUENTS

Check all Applicable Constituents

- ☐ Antimony
- ☐ Arsenic
- ☐ **BARIUM**
- ☐ **BERYLLIUM**
- ☐ Cadmium
- ☐ Chromium
- ☐ Cyanides (Total)
- ☐ Cyanides (Amenable)
- ☐ Fluoride
- ☐ Lead
- ☐ Mercury
- ☐ Nickel
- ☐ **SELENIUM**
- ☐ Silver
- ☐ Sulfide

Check all Applicable Constituents

- ☐ **THALLIUM**
- ☐ Vanadium (Not an Underlying Hazardous Constituent except in F039 wastewaters)

ORGANIC ACCEPTABLE CONSTITUENTS

Check all Applicable Constituents

- ☐ Acenaphthylene
- ☐ Acenaphthene
- ☐ ** *Acetone*
- ☐ Acetonitrile
- ☐ Acetophenone
- ☐ 2-Acetylaminofluorene
- ☐ Acrolein
- ☐ Acrylamide
- ☐ Acrylonitrile
- ☐ Aldrin
- ☐ 4-Aminobiphenyl
- ☐ Aniline
- ☐ Anthracene
- ☐ Aramite
- ☐ alpha-BHC
- ☐ beta-BHC
- ☐ delta-BHC
- ☐ gamma-BHC
- ☐ ** *Benzene*
- ☐ Benz(a)anthracene
- ☐ Benzal chloride
- ☐ Benzo(b)fluoranthene
- ☐ Benzo(k)fluoranthene
- ☐ Benzo(g,h,i)perylene
- ☐ Benzo(a)pyrene
- ☐ Bromodichloromethane
- ☐ Methyl bromide (Bromomethane)
- ☐ 4-Bromophenyl phenyl ether
- ☐ ** *n-Butyl alcohol*
- ☐ Butyl benzyl phthalate
- ☐ 2-sec-Butyl-4,6-dinitrophenol (Dinoseb)
- ☐ ** ***CARBON DISULFIDE***
- ☐ ** *Carbon tetrachloride*
- ☐ Chlordane (alpha & gamma isomers)
- ☐ p-Chloroaniline
- ☐ ** *Chlorobenzene*
- ☐ Chlorobenzilate
- ☐ 2-Chloro-1,3-butadiene
- ☐ Chlorodibromethane
- ☐ Chloroethane
- ☐ bis(2-Chloroethoxy)methane
- ☐ bis(2-chloroethyl)ether
- ☐ Chloroform
- ☐ bis(2-Chloroisopropyl)ether
- ☐ p-Chloro-m-cresol
- ☐ 2-Chloroethyl vinyl ether
- ☐ Chloromethane (Methyl chloride)
- ☐ 2-Chloronaphthalene
- ☐ 2-Chlorophenol
- ☐ 3-Chloropropylene
- ☐ Chrysene
- ☐ ** *o-Cresol*
- ☐ ** *m-Cresol*
- ☐ ** *p-Cresol*
- ☐ ** ***CYCLOHEXANONE***
- ☐ 1,2-Dibromo-3-chloropropane
- ☐ Ethylene dibromide (1,2-Dibromoethane)
- ☐ Dibromomethane
- ☐ 2,4,D (2-4-Dichlorophenoxyacetic acid)
- ☐ o,p'-DDD
- ☐ p,p'-DDD
- ☐ o,p'-DDE
- ☐ p,p'-DDE
- ☐ o,p'-DDT
- ☐ p,p'-DDT
- ☐ Dibenz(a,h)anthracene
- ☐ Dibenz(a,e)pyrene
- ☐ m-Dichlorobenzene
- ☐ ** *o-Dichlorobenzene*
- ☐ p-Dichlorobenzene
- ☒ Dichlorodifluoromethane
- ☐ 1,1-Dichloroethane
- ☐ 1,2-Dichloroethane
- ☐ 1,1-Dichloroethylene
- ☐ trans-1,2-Dichloroethylene
- ☐ 2,4-Dichlorophenol
- ☐ 2,6-Dichlorophenol
- ☐ 1,2-Dichloropropane
- ☐ cis-1,3-Dichloropropylene
- ☐ trans-1,3-Dichloropropylene
- ☐ Dieldrin
- ☐ Diethyl phthalate
- ☐ 2,4-Dimethyl phenol
- ☐ Dimethyl phthalate
- ☐ Di-n-butyl phthalate
- ☐ 1,4-Dinitrobenzene
- ☐ 4,6-Dinitro-o-cresol
- ☐ 2,4-Dinitrophenol
- ☐ 2,4-Dinitrotoluene
- ☐ 2,6-Dinitrotoluene
- ☐ Di-n-octyl phthalate
- ☐ p-Dimethylaminoazobenzene
- ☐ Di-n-propylnitrosamine
- ☐ 1,4-Dioxane
- ☐ Diphenylamine
- ☐ Diphenylnitrosamine
- ☐ 1,2-Diphenylhydrazine
- ☐ Disulfoton
- ☐ Endosulfan I
- ☐ Endosulfan II
- ☐ Endosulfan sulfate
- ☐ Endrin
- ☐ Endrin aldehyde
- ☐ ** *Ethyl acetate*
- ☐ Ethyl cyanide (Propanenitrile)
- ☐ ** *Ethyl benzene*
- ☐ ** *Ethyl ether*
- ☐ bis(2-Ethylhexyl) phthalate
- ☐ Ethyl methacrylate
- ☐ Ethylene oxide
- ☐ Famphur
- ☐ Fluoranthene
- ☐ Fluorene
- ☐ Heptachlor
- ☐ Heptachlor epoxide
- ☐ Hexachlorobenzene
- ☐ Hexachlorobutadiene
- ☐ Hexachlorocyclopentadiene
- ☐ Hexachloroethane
- ☐ Hexachloropropylene
- ☐ Indeno (1,2,3-c,d) pyrene
- ☐ Iodomethane
- ☐ ** *Isobutyl alcohol*
- ☐ Isodrin
- ☐ Isosafrole
- ☐ Kepone
- ☐ Methacrylonitrile
- ☐ ** ***METHANOL***
- ☐ Methapyrilene
- ☐ Methoxychlor
- ☐ 3-Methylcholanthrene
- ☐ 4,4-Methylene bis (2-chloroaniline)
- ☐ ** *Methylene chloride*
- ☐ ** *Methyl ethyl ketone*
- ☐ ** *Methyl isobutyl ketone*
- ☐ Methyl methacrylate
- ☐ Methyl methansulfonate
- ☐ Methyl parathion
- ☐ Naphthalene
- ☐ 2-Naphthylamine
- ☐ o-Nitroaniline
- ☐ p-Nitroaniline
- ☐ ** *Nitrobenzene*
- ☐ 5-Nitro-o-toluidine
- ☐ o-Nitrophenol
- ☐ p-Nitrophenol
- ☐ N-Nitrosodiethylamine
- ☐ N-Nitrosodimethylamine
- ☐ N-Nitroso-di-n-butylamine
- ☐ N-Nitrosomethylethylamine
- ☐ N-Nitrosomorpholine
- ☐ N-Nitrosopiperidine
- ☐ N-Nitrosopyrrolidine
- ☐ Parathion
- ☐ **TOTAL PCBs**
- ☐ Pentachlorobenzene
- ☐ Pentachloroethane
- ☐ Pentachloronitrobenzene
- ☐ Pentachlorophenol
- ☐ Phenacetin
- ☐ Phenanthrene
- ☐ Phenol
- ☐ Phorate
- ☐ Phthalic acid
- ☐ Phthalic anhydride
- ☐ Pronamide
- ☐ Pyrene
- ☐ ** *Pyridine*
- ☐ Safrole
- ☐ Silvex (2,4,5-TP)
- ☐ 2,4,5-T (2,4,5-Trichlorophenoxy-acetic acid)
- ☐ 1,2,4,5-Tetrachlorobenzene
- ☐ 1,1,1,2-Tetrachloroethane
- ☐ 1,1,2,2-Tetrachloroethane
- ☐ ** *Tetrachloroethylene*
- ☐ 2,3,4,6-Tetrachlorophenol
- ☐ ** *Toluene*
- ☐ Toxaphene
- ☐ Bromoform (Tribromomethane)
- ☐ 1,2,4-Trichlorobenzene
- ☐ ** *1,1,1-Trichloroethane*
- ☐ ** *1,1,2-Trichloroethane*
- ☐ ** *Trichloroethylene*
- ☐ ** *Trichloromonofluoromethane*
- ☐ 2,4,5-Trichlorophenol
- ☐ 2,4,6-Trichlorophenol
- ☐ 1,2,3-Trichloropropane
- ☐ ** *1,1,2-Trichloro-1,2,2-trifluoroethane*
- ☐ **TRIS-(2,3-DIBROMOPROPYL) PHOSPHATE** (RES INJ only)
- ☐ Vinyl chloride
- ☐ ** *Xylenes-total mixed isomers*

Note: Constituents in bold type have been highlighted for RES purposes only.

LDR NOTIFICATION

ROLLINS ENVIRONMENTAL SERVICES

CUSTOMER INSTRUCTIONS

1. This Land Disposal Restriction (LDR) Notification form applies to EPA RCRA Hazardous Wastes as either a wastewater or non-wastewater (including labpacks regulated under 40CFR§268, Appendix IV) or a hazardous debris not meeting relevant LDR treatment standards. For labpacks using the Alternative Treatment Standards of §268.42(c) or for a waste already meeting the LDR treatment standard, please contact us for the additional or alternate notification/certification form.
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3. This form shall be completed in ink or typewritten. Originals can be obtained from all RES offices.

SECTION A. GENERATOR INFORMATION

1. Generator: Omega Chemical Site PRP Group
2. EPA I.D. No.: CAD 042245001
3. Manifest No.: NJA 2066957
4. RES Waste Stream No.: L-39599

SECTION B. GENERATOR LDR NOTIFICATION (40 CFR § 268.7)

1. Notifying (Check One): ☒ RES (NJ) ☐ RES (LA) ☐ RES (TX) ☐ OPC ☐ RES of LA ☐ TET
2. Under the above RES Waste Stream No., I am shipping to you a hazardous waste as identified below under Waste Category & California List Notifications:

WASTE CATEGORY & CALIFORNIA LIST NOTIFICATIONS

Check either a, b, or c. ***Waste Category***

☐ a. A wastewater identified by the EPA Waste Code/subcategory that I have checked in Section D; ***OR***

☒ b. A non-wastewater identified by the EPA Waste Code/subcategory that I have checked in Section D; ***OR***

☐ c. A hazardous debris identified by the EPA Waste Code/subcategory that I have checked in Section D. (See EPA Definitions & Subcategory Legend below).

If applicable, check d, e, and f. ***California List Notifications***

☐ d. A D003-D011 waste containing halogenated organic compounds (HOCs) ≥1000 ppm (40 CFR § 268, Appendix III).

☐ e. A liquid hazardous waste containing polychlorinated biphenyls (PCBs) ≥50 ppm.

☐ f. A D003-D011 liquid waste containing ≥134 mg/l Nickel and/or ≥130 mg/l Thallium.

Note: If any of the above California List Notifications were checked, identify ALL UNDERLYING HAZARDOUS CONSTITUENTS (UHCs) in Section E. which can reasonably be expected to be present in the waste at a concentration above the constituent - specific treatment standard listed in 40 CFR § 268.48.

SECTION C. GENERATOR CERTIFICATION (Authorized Representative)

I hereby certify and warrant that all the information supplied on this form and all associated documents represents a complete and accurate identification of this waste material.

1. Print or Type Name: Jim Hardesty Employed by HLA, Agent for Omega Chemical Site PRP Organized Group
2. Date: 9 / 12 / 95
3. Signature: Jim Hardesty
4. Title: Site Supervisor

EPA DEFINITIONS & SUBCATEGORY LEGEND

AC = Acidic (≤2 pH)	HY = Hydrated	RS = Reactive Sulfide
AK = Alkaline (≥12.5 pH)	LB = Lead Acid Battery	RX = Other Reactives
AN = Anhydrous	LM = Low Mercury (<260 mg/kg)	TOC = Total Organic Carbon
CO = Corrosive (>6.35 mm/yr)	LQ = Liquid	WR = Water Reactive
CB = Cadmium Battery	NC = Non Calcium Sulfate	WW = Wastewater (<1% TOC and <1% Total Suspended Solids)
CS = Calcium Sulfate	OX = Oxidizer	
HM = High Mercury (≥ 260 mg/kg)	RC = Reactive Cyanide	

Hazardous Debris = A solid material exceeding a 60 mm particle size (i.e., ≈ 2⅜") that is intended for disposal. The following materials are not debris: cadmium/lead acid batteries, process residuals such as smelter slag and residues from the treatment of waste, wastewater, sludges, or air emission residues; and intact containers of hazardous waste that are not ruptured and that retain at least 75% of their original volume (40 CFR § 268.2(g)).

SECTION D: EPA HAZARDOUS WASTE CODE TABLES

RES Waste Stream No. L-39599

"D" CHARACTERISTIC CODES

Check All Applicable Waste Codes

☐ D001 GAS	* ☐ D002 AK	☐ D006	* ☐ D012	* ☐ D020	* ☐ D028	* ☐ D036
☐ D001 LQ ≥10% TOC	* ☐ D002 CO	☐ D007	* ☐ D013	* ☐ D021	* ☐ D029	* ☐ D037
	☐ D003 RX	☐ D008	* ☐ D014	* ☐ D022	* ☐ D030	* ☐ D038
☐ D001 LQ <10% TOC	☐ D003 RC	☐ D009 HM	* ☐ D015	* ☐ D023	* ☐ D031	* ☐ D039
	☐ D003 RS	Organics Only	* ☐ D016	* ☐ D024	* ☐ D032	* ☐ D040
☐ D001 OX	☐ D003 WR	☐ D009 LM	* ☐ D017	* ☐ D025	* ☐ D033	* ☐ D041
☐ D001 RX	☐ D004	☐ D010	* ☐ D018	* ☐ D026	* ☐ D034	* ☐ D042
* ☐ D002 AC	☐ D005	☐ D011	* ☐ D019	* ☐ D027	* ☐ D035	* ☐ D043

* Check in SECTION E. ALL UNDERLYING HAZARDOUS CONSTITUENTS which can reasonably be expected to be present in this waste at a concentration above the constituent-specific treatment standard listed in 40CFR§268.48. For D012-D017 WWs, UHCs are not applicable.

Note: Following "D" Codes acceptable only for Off-Site, Transfer & Disposal: (Unacceptable for incineration) ☐D006CB ☐D008LB ☐D009HM (inorganic)

"F" LISTED CODES

Check All Applicable Waste Codes

** ☐ F001	** ☐ F004	☐ F007	☐ F010	☐ F019	☐ F032	☐ F037
** ☒ F002	** ☐ F005	☐ F008	☐ F011	☐ F024	☐ F034	☐ F038
** ☐ F003	☐ F006	☐ F009	☐ F012	☐ F025	☐ F035	* ☐ F039

* Check in SECTION E. ALL UNDERLYING HAZARDOUS CONSTITUENTS which can reasonably be expected to be present in this waste at a concentration above the constituent-specific treatment standard listed in 40CFR§268.48.

** Check in SECTION E. ALL F001 - F005 HAZARDOUS CONSTITUENTS which can reasonably be expected to be present in this waste at a concentration above the constituent-specific treatment standard listed in 40CFR§268.48. (** = F001-F005 constituents in Section E.)

"K" LISTED CODES

Check All Applicable Waste Codes

☐ K001	☐ K017	☐ K033	☐ K049	☐ K086	☐ K104	☐ K124
☐ K002	☐ K018	☐ K034	☐ K050	☐ K087	☐ K105	☐ K125
☐ K003	☐ K019	☐ K035	☐ K051	☐ K088	☐ K106 LM	☐ K126
☐ K004	☐ K020	☐ K036	☐ K052	☐ K090	☐ K107	☐ K131
☐ K005	☐ K021	☐ K037	☐ K060	☐ K091	☐ K108	☐ K132
☐ K006 AN	☐ K022	☐ K038	☐ K061	☐ K093	☐ K109	☐ K136
☐ K006 HY	☐ K023	☐ K039	☐ K062	☐ K094	☐ K110	☐ K141
☐ K007	☐ K024	☐ K040	☐ K064	☐ K095	☐ K111	☐ K142
☐ K008	☐ K025	☐ K041	☐ K065	☐ K096	☐ K112	☐ K143
☐ K009	☐ K026	☐ K042	☐ K066	☐ K097	☐ K113	☐ K144
☐ K010	☐ K027	☐ K043 (BU only)	☐ K069 CS	☐ K098	☐ K114	☐ K145
☐ K011	☐ K028	☐ K044	☐ K071	☐ K099 (BU only)	☐ K115	☐ K147
☐ K013	☐ K029	☐ K045	☐ K073	☐ K100	☐ K116	☐ K148
☐ K014	☐ K030	☐ K046	☐ K083	☐ K101	☐ K117	☐ K149
☐ K015	☐ K031	☐ K047	☐ K084	☐ K102	☐ K118	☐ K150
☐ K016	☐ K032	☐ K048	☐ K085	☐ K103	☐ K123	☐ K151

Note: Following "K" Codes Acceptable only for Off-Site Transfer and Disposal (Unacceptable for incineration): ☐ K069NC ☐ K106HM

"P" LISTED CODES

Check All Applicable Waste Codes

☐ P001	☐ P012	☐ P026	☐ P039	☐ P050	☐ P065 LM	☐ P077
☐ P002	☐ P013	☐ P027	☐ P040	☐ P051	☐ P066	☐ P081
☐ P003	☐ P014	☐ P028	☐ P041	☐ P054	☐ P067	☐ P082
☐ P004	☐ P016	☐ P029	☐ P042	☐ P056	☐ P068	☐ P084
☐ P005	☐ P017	☐ P030	☐ P043	☐ P057	☐ P069	☐ P085
☐ P006	☐ P018	☐ P031	☐ P044	☐ P058	☐ P070	☐ P088
☐ P007	☐ P020	☐ P033	☐ P045	☐ P059	☐ P071	☐ P089
☐ P008	☐ P021	☐ P034	☐ P046	☐ P060	☐ P072	☐ P092 LM
☐ P009	☐ P022	☐ P036	☐ P047	☐ P062	☐ P073	☐ P093
☐ P010	☐ P023	☐ P037	☐ P048	☐ P063	☐ P074	☐ P094
☐ P011	☐ P024	☐ P038	☐ P049	☐ P064	☐ P075	☐ P095

SECTION D. (Continued)

RES Waste Stream No. L-39599

☐ P096	☐ P101	☐ P105	☐ P110	☐ P114	☐ P119	☐ P123
☐ P097	☐ P102	☐ P106	☐ P111	☐ P115	☐ P120	
☐ P098	☐ P103	☐ P108	☐ P112	☐ P116	☐ P121	
☐ P099	☐ P104	☐ P109	☐ P113	☐ P118	☐ P122	

Note: Following "P" Codes Acceptable only for Off-Site Transfer and Disposal: ☐ P015 ☐ P065 HM ☐ P076 ☐ P078 ☐ P087 ☐ P092 HM

Check All Applicable Waste Codes

"U" LISTED CODES

Check All Applicable Waste Codes

☐ U001	☐ U037	☐ U075	☐ U112	☐ U148	☐ U184	☐ U223
☐ U002	☐ U038	☐ U076	☐ U113	☐ U149	☐ U185	☐ U225
☐ U003	☐ U039	☐ U077	☐ U114	☐ U150	☐ U186	☐ U226
☐ U004	☐ U041	☐ U078	☐ U115	☐ U151 LM	☐ U187	☐ U227
☐ U005	☐ U042	☐ U079	☐ U116	☐ U152	☐ U188	☐ U228
☐ U006	☐ U043	☐ U080	☐ U117	☐ U153	☐ U189	☐ U234
☐ U007	☐ U044	☐ U081	☐ U118	☐ U154	☐ U190	☐ U235
☐ U008	☐ U045	☐ U082	☐ U119	☐ U155	☐ U191	☐ U236
☐ U009	☐ U046	☐ U083	☐ U120	☐ U156	☐ U192	☐ U237
☐ U010	☐ U047	☐ U084	☐ U121	☐ U157	☐ U193	☐ U238
☐ U011	☐ U048	☐ U085	☐ U122	☐ U158	☐ U194	☐ U239
☐ U012	☐ U049	☐ U086	☐ U123	☐ U159	☐ U196	☐ U240
☐ U014	☐ U050	☐ U087	☐ U124	☐ U160	☐ U197	☐ U243
☐ U015	☐ U051	☐ U088	☐ U125	☐ U161	☐ U200	☐ U244
☐ U016	☐ U052	☐ U089	☐ U126	☐ U162	☐ U201	☐ U246
☐ U017	☐ U053	☐ U090	☐ U127	☐ U163	☐ U202	☐ U247
☐ U018	☐ U055	☐ U091	☐ U128	☐ U164	☐ U203	☐ U248
☐ U019	☐ U056	☐ U092	☐ U129	☐ U165	☐ U204	☐ U249
☐ U020	☐ U057	☐ U093	☐ U130	☐ U166	☐ U205	☐ U328
☐ U021	☐ U058	☐ U094	☐ U131	☐ U167	☐ U206	☐ U353
☐ U022	☐ U059	☐ U095	☐ U132	☐ U168	☐ U207	☐ U359
☐ U023	☐ U060	☐ U096	☐ U133	☐ U169	☐ U208	
☐ U024	☐ U061	☐ U097	☐ U134	☐ U170	☐ U209	
☐ U025	☐ U062	☐ U098	☐ U135	☐ U171	☐ U210	
☐ U026	☐ U063	☐ U099	☐ U136	☐ U172	☐ U211	
☐ U027	☐ U064	☐ U101	☐ U137	☐ U173	☐ U213	
☐ U028	☐ U066	☐ U102	☐ U138	☐ U174	☐ U214	
☐ U029	☐ U067	☐ U103	☐ U140	☐ U176	☐ U215	
☐ U030	☐ U068	☐ U105	☐ U141	☐ U177	☐ U216	
☐ U031	☐ U069	☐ U106	☐ U142	☐ U178	☐ U217	
☐ U032	☐ U070	☐ U107	☐ U143	☐ U179	☐ U218	
☐ U033	☐ U071	☐ U108	☐ U144	☐ U180	☐ U219	
☐ U034	☐ U072	☐ U109	☐ U145	☐ U181	☐ U220	
☐ U035	☐ U073	☐ U110	☐ U146	☐ U182	☐ U221	
☐ U036	☐ U074	☐ U111	☐ U147	☐ U183	☐ U222	

Note: Following "U" Code Acceptable only for Off-Site Transfer and Disposal (Unacceptable for incineration): ☐ U151 HM

OTHER RES INCINERATION UNACCEPTABLES

Unacceptable EPA Waste Codes (Permit Restricted)

- D003 Explosives
- D002, D004-D011 (High level radioactive wastes from processing of fuel rods).
- The following "F" Listed Dioxin Waste Codes:
  - F020
  - F021
  - F022
  - F023
  - F026
  - F027
  - F028

Unacceptable Hazardous Constituents

The following Dioxins constituents are unacceptable above the LDR treatment standard:

- All HxCDDs
- All HxCDFs
- All PeCDDs
- All PeCDFs
- All TCDDs
- All TCDFs

- Kepone in any concentration is unacceptable at RES (NJ).

Note: Acceptance of the Dioxin constituents in non-listed Dioxin Wastes are on a case-by-case basis.

SECTION E. UNDERLYING HAZARDOUS CONSTITUENTS (UHCs)

(40 CFR§268.48) *RES Waste Stream No.* L-39599

INORGANIC CONSTITUENTS

Check all Applicable Constituents

- ☐ Antimony
- ☐ Arsenic
- ☐ **BARIUM**
- ☐ **BERYLLIUM**
- ☐ Cadmium
- ☐ Chromium
- ☐ Cyanides (Total)
- ☐ Cyanides (Amenable)
- ☐ Fluoride
- ☐ Lead
- ☐ Mercury
- ☐ Nickel
- ☐ **SELENIUM**
- ☐ Silver
- ☐ Sulfide

Check all Applicable Constituents

- ☐ **THALLIUM**
- ☐ Vanadium (Not an Underlying Hazardous Constituent except in F039 wastewaters)

ORGANIC ACCEPTABLE CONSTITUENTS

Check all Applicable Constituents

- ☐ Acenaphthylene
- ☐ Acenaphthene
- ☐ ** *Acetone*
- ☐ Acetonitrile
- ☐ Acetophenone
- ☐ 2-Acetylaminofluorene
- ☐ Acrolein
- ☐ Acrylamide
- ☐ Acrylonitrile
- ☐ Aldrin
- ☐ 4-Aminobiphenyl
- ☐ Aniline
- ☐ Anthracene
- ☐ Aramite
- ☐ alpha-BHC
- ☐ beta-BHC
- ☐ delta-BHC
- ☐ gamma-BHC
- ☐ ** *Benzene*
- ☐ Benz(a)anthracene
- ☐ Benzal chloride
- ☐ Benzo(b)fluoranthene
- ☐ Benzo(k)fluoranthene
- ☐ Benzo(g,h,i)perylene
- ☐ Benzo(a)pyrene
- ☐ Bromodichloromethane
- ☐ Methyl bromide (Bromomethane)
- ☐ 4-Bromophenyl phenyl ether
- ☐ ** *n-Butyl alcohol*
- ☐ Butyl benzyl phthalate
- ☐ 2-sec-Butyl-4,6-dinitrophenol (Dinoseb)
- ☐ ** ***CARBON DISULFIDE***
- ☐ ** *Carbon tetrachloride*
- ☐ Chlordane(alpha & gamma isomers)
- ☐ p-Chloroaniline
- ☐ ** *Chlorobenzene*
- ☐ Chlorobenzilate
- ☐ 2-Chloro-1,3-butadiene
- ☐ Chlorodibromethane
- ☐ Chloroethane
- ☐ bis(2-Chloroethoxy)methane
- ☐ bis(2-chloroethyl)ether
- ☒ Chloroform
- ☐ bis(2-Chloroisopropyl)ether
- ☐ p-Chloro-m-cresol
- ☐ 2-Chloroethyl vinyl ether
- ☐ Chloromethane (Methyl chloride)
- ☐ 2-Chloronaphthalene
- ☐ 2-Chlorophenol
- ☐ 3-Chloropropylene
- ☐ Chrysene
- ☐ ** *o-Cresol*
- ☐ ** *m-Cresol*
- ☐ ** *p-Cresol*
- ☐ ** *CYCLOHEXANONE*
- ☐ 1,2-Dibromo-3-chloropropane
- ☐ Ethylene dibromide (1,2-Dibromoethane)
- ☐ Dibromomethane
- ☐ 2,4,D (2-4-Dichlorophenoxyacetic acid)
- ☐ o,p'-DDD
- ☐ p,p'-DDD
- ☐ o,p'-DDE
- ☐ p,p'-DDE
- ☐ o,p'-DDT
- ☐ p,p'-DDT
- ☐ Dibenz(a,h)anthracene
- ☐ Dibenz(a,e)pyrene
- ☐ m-Dichlorobenzene
- ☐ ** *o-Dichlorobenzene*
- ☐ p-Dichlorobenzene
- ☒ Dichlorodifluoromethane
- ☐ 1,1-Dichloroethane
- ☐ 1,2-Dichloroethane
- ☐ 1,1-Dichloroethylene
- ☐ trans-1,2-Dichloroethylene
- ☐ 2,4-Dichlorophenol
- ☐ 2,6-Dichlorophenol
- ☐ 1,2-Dichloropropane
- ☐ cis-1,3-Dichloropropylene
- ☐ trans-1,3-Dichloropropylene
- ☐ Dieldrin
- ☐ Diethyl phthalate
- ☐ 2,4-Dimethyl phenol
- ☐ Dimethyl phthalate
- ☐ Di-n-butyl phthalate
- ☐ 1,4-Dinitrobenzene
- ☐ 4,6-Dinitro-o-cresol
- ☐ 2,4-Dinitrophenol
- ☐ 2,4-Dinitrotoluene
- ☐ 2,6-Dinitrotoluene
- ☐ Di-n-octyl phthalate
- ☐ p-Dimethylaminoazobenzene
- ☐ Di-n-propylnitrosamine
- ☐ 1,4-Dioxane
- ☐ Diphenylamine
- ☐ Diphenylnitrosamine
- ☐ 1,2-Diphenylhydrazine
- ☐ Disulfoton
- ☐ Endosulfan I
- ☐ Endosulfan II
- ☐ Endosulfan sulfate
- ☐ Endrin
- ☐ Endrin aldehyde
- ☐ ** *Ethyl acetate*
- ☐ Ethyl cyanide (Propanenitrile)
- ☐ ** *Ethyl benzene*
- ☐ ** *Ethyl ether*
- ☐ bis(2-Ethylhexyl) phthalate
- ☐ Ethyl methacrylate
- ☐ Ethylene oxide
- ☐ Famphur
- ☐ Fluoranthene
- ☐ Fluorene
- ☐ Heptachlor
- ☐ Heptachlor epoxide
- ☐ Hexachlorobenzene
- ☐ Hexachlorobutadiene
- ☐ Hexachlorocyclopentadiene
- ☐ Hexachloroethane
- ☐ Hexachloropropylene
- ☐ Indeno (1,2,3-c,d) pyrene
- ☐ Iodomethane
- ☐ ** *Isobutyl alcohol*
- ☐ Isodrin
- ☐ Isosafrole
- ☐ Kepone
- ☐ Methacrylonitrile
- ☐ ** ***METHANOL***
- ☐ Methapyrilene
- ☐ Methoxychlor
- ☐ 3-Methylcholanthrene
- ☐ 4,4-Methylene bis (2-chloroaniline)
- ☒ ** *Methylene chloride*
- ☐ ** *Methyl ethyl ketone*
- ☐ ** *Methyl isobutyl ketone*
- ☐ Methyl methacrylate
- ☐ Methyl methansulfonate
- ☐ Methyl parathion
- ☐ Naphthalene
- ☐ 2-Naphthylamine
- ☐ o-Nitroaniline
- ☐ p-Nitroaniline
- ☐ ** *Nitrobenzene*
- ☐ 5-Nitro-o-toluidine
- ☐ o-Nitrophenol
- ☐ p-Nitrophenol
- ☐ N-Nitrosodiethylamine
- ☐ N-Nitrosodimethylamine
- ☐ N-Nitroso-di-n-butylamine
- ☐ N-Nitrosomethylethylamine
- ☐ N-Nitrosomorpholine
- ☐ N-Nitrosopiperidine
- ☐ N-Nitrosopyrrolidine
- ☐ Parathion
- ☐ **TOTAL PCBs**
- ☐ Pentachlorobenzene
- ☐ Pentachloroethane
- ☐ Pentachloronitrobenzene
- ☐ Pentachlorophenol
- ☐ Phenacetin
- ☐ Phenanthrene
- ☐ Phenol
- ☐ Phorate
- ☐ Phthalic acid
- ☐ Phthalic anhydride
- ☐ Pronamide
- ☐ Pyrene
- ☐ ** *Pyridine*
- ☐ Safrole
- ☐ Silvex (2,4,5-TP)
- ☐ 2,4,5-T (2,4,5-Trichloro phenoxy-acetic acid)
- ☐ 1,2,4,5-Tetrachlorobenzene
- ☐ 1,1,1,2-Tetrachloroethane
- ☐ 1,1,2,2-Tetrachloroethane
- ☐ ** *Tetrachloroethylene*
- ☐ 2,3,4,6-Tetrachlorophenol
- ☐ ** *Toluene*
- ☐ Toxaphene
- ☐ Bromoform (Tribromomethane)
- ☐ 1,2,4-Trichlorobenzene
- ☒ ** *1,1,1-Trichloroethane*
- ☐ ** *1,1,2-Trichloroethane*
- ☐ ** *Trichloroethylene*
- ☐ ** *Trichloromonofluoromethane*
- ☐ 2,4,5-Trichlorophenol
- ☐ 2,4,6-Trichlorphenol
- ☐ 1,2,3-Trichloropropane
- ☐ ** *1,1,2-Trichloro-1,2,2-trifluoro-ethane*
- ☐ **TRIS-(2,3-DIBROMOPROPYL) PHOSPHATE** (RES INJ only)
- ☐ Vinyl chloride
- ☐ ** *Xylenes-total mixed isomers*

Note: Constituents in bold type have been highlighted for RES purposes only.

LDR NOTIFICATION

ROLLINS ENVIRONMENTAL SERVICES

CUSTOMER INSTRUCTIONS

1. This Land Disposal Restriction (LDR) Notification form applies to EPA RCRA Hazardous Wastes as either a wastewater or non-wastewater (including labpacks regulated under 40CFR§268, Appendix IV) or a hazardous debris not meeting relevant LDR treatment standards. For labpacks using the Alternative Treatment Standards of §268.42(c) or for a waste already meeting the LDR treatment standard, please contact us for the additional or alternate notification/certification form.
2. ***Complete Sections A, B, C and D. Complete Section E only*** when instructed by either Section B below or Section D: EPA Hazardous Waste Code Tables.
3. This form shall be completed in ink or typewritten. Originals can be obtained from all RES offices.

SECTION A. GENERATOR INFORMATION

1. Generator OMEGA Chemical Site PRP Group
2. EPA I.D. No. CAD 042245001
3. Manifest No. NJA 2066957
4. RES Waste Stream No. L-39600

SECTION B. GENERATOR LDR NOTIFICATION (40 CFR § 268.7)

1. Notifying (Check One): ☒ RES (NJ) ☐ RES (LA) ☐ RES (TX) ☐ OPC ☐ RES of LA ☐ TET
2. Under the above RES Waste Stream No., I am shipping to you a hazardous waste as identified below under Waste Category & California List Notifications:

WASTE CATEGORY & CALIFORNIA LIST NOTIFICATIONS

Check either a, b, or c. ***Waste Category***

☐ a. A wastewater identified by the EPA Waste Code/subcategory that I have checked in Section D; ***OR***

☐ b. A non-wastewater identified by the EPA Waste Code/subcategory that I have checked in Section D; ***OR***

☐ c. A hazardous debris identified by the EPA Waste Code/subcategory that I have checked in Section D. (See EPA Definitions & Subcategory Legend below).

☒ A non RCRA waste containing Cal List Notifications

If applicable, check d, e, and f. ***California List Notifications***

☐ d. A D003-D011 waste containing halogenated organic compounds (HOCs) ≥1000 ppm (40 CFR § 268, Appendix III).

☐ e. A liquid hazardous waste containing polychlorinated biphenyls (PCBs) ≥50 ppm.

☐ f. A D003-D011 liquid waste containing ≥134 mg/l Nickel and/or ≥130 mg/l Thallium.

Note: If any of the above California List Notifications were checked, identify ALL UNDERLYING HAZARDOUS CONSTITUENTS (UHCs) in Section E. which can reasonably be expected to be present in the waste at a concentration above the constituent - specific treatment standard listed in 40 CFR § 268.48.

SECTION C. GENERATOR CERTIFICATION (Authorized Representative)

I hereby certify and warrant that all the information supplied on this form and all associated documents represents a complete and accurate identification of this waste material.

1. Print or Type Name: Jim Hardesty EMPLOYED BY HLA, Agent for OMEGA Chemical Site PRP Organized Group
2. Date: 9 / 12 / 95
3. Signature: J. Hardesty
4. Title: Site Supervisor

EPA DEFINITIONS & SUBCATEGORY LEGEND

AC = Acidic (≤2 pH)	HY = Hydrated	RS = Reactive Sulfide
AK = Alkaline (≥12.5 pH)	LB = Lead Acid Battery	RX = Other Reactives
AN = Anhydrous	LM = Low Mercury (<260 mg/kg)	TOC = Total Organic Carbon
CO = Corrosive (>6.35 mm/yr)	LQ = Liquid	WR = Water Reactive
CB = Cadmium Battery	NC = Non Calcium Sulfate	WW = Wastewater (<1% TOC and <1% Total Suspended Solids)
CS = Calcium Sulfate	OX = Oxidizer	
HM = High Mercury (≥ 260 mg/kg)	RC = Reactive Cyanide	

Hazardous Debris = A solid material exceeding a 60 mm particle size (i.e., = 2⅜") that is intended for disposal. The following materials are not debris: cadmium/lead acid batteries, process residuals such as smelter slag and residues from the treatment of waste, wastewater, sludges, or air emission residues; and intact containers of hazardous waste that are not ruptured and that retain at least 75% of their original volume (40 CFR § 268.2(g)).

SECTION D: EPA HAZARDOUS WASTE CODE TABLES

☒ No EPA Waste Code

RES Waste Stream No. L-39600

"D" CHARACTERISTIC CODES

Check All Applicable Waste Codes

☐ D001 GAS	* ☐ D002 AK	☐ D006	* ☐ D012	* ☐ D020	* ☐ D028	* ☐ D036
☐ D001 LQ ≥10% TOC	* ☐ D002 CO	☐ D007	* ☐ D013	* ☐ D021	* ☐ D029	* ☐ D037
	☐ D003 RX	☐ D008	* ☐ D014	* ☐ D022	* ☐ D030	* ☐ D038
☐ D001 LQ <10% TOC	☐ D003 RC	☐ D009 HM	* ☐ D015	* ☐ D023	* ☐ D031	* ☐ D039
	☐ D003 RS	Organics Only	* ☐ D016	* ☐ D024	* ☐ D032	* ☐ D040
☐ D001 OX	☐ D003 WR	☐ D009 LM	* ☐ D017	* ☐ D025	* ☐ D033	* ☐ D041
☐ D001 RX	☐ D004	☐ D010	* ☐ D018	* ☐ D026	* ☐ D034	* ☐ D042
* ☐ D002 AC	☐ D005	☐ D011	* ☐ D019	* ☐ D027	* ☐ D035	* ☐ D043

* Check in SECTION E. ALL UNDERLYING HAZARDOUS CONSTITUENTS which can reasonably be expected to be present in this waste at a concentration above the constituent-specific treatment standard listed in 40CFR§268.48. For D012-D017 WWs, UHCs are not applicable.

Note: Following "D" Codes acceptable only for Off-Site, Transfer & Disposal: (Unacceptable for incineration) ☐D006CB ☐D008LB ☐D009HM (inorganic)

"F" LISTED CODES

Check All Applicable Waste Codes

** ☐ F001	** ☐ F004	☐ F007	☐ F010	☐ F019	☐ F032	☐ F037
** ☐ F002	** ☐ F005	☐ F008	☐ F011	☐ F024	☐ F034	☐ F038
** ☐ F003	☐ F006	☐ F009	☐ F012	☐ F025	☐ F035	* ☐ F039

* Check in SECTION E. ALL UNDERLYING HAZARDOUS CONSTITUENTS which can reasonably be expected to be present in this waste at a concentration above the constituent-specific treatment standard listed in 40CFR§268.48.

** Check in SECTION E. ALL F001 - F005 HAZARDOUS CONSTITUENTS which can reasonably be expected to be present in this waste at a concentration above the constituent-specific treatment standard listed in 40CFR§268.48. (** = F001-F005 constituents in Section E.)

"K" LISTED CODES

Check All Applicable Waste Codes

☐ K001	☐ K017	☐ K033	☐ K049	☐ K086	☐ K104	☐ K124
☐ K002	☐ K018	☐ K034	☐ K050	☐ K087	☐ K105	☐ K125
☐ K003	☐ K019	☐ K035	☐ K051	☐ K088	☐ K106 LM	☐ K126
☐ K004	☐ K020	☐ K036	☐ K052	☐ K090	☐ K107	☐ K131
☐ K005	☐ K021	☐ K037	☐ K060	☐ K091	☐ K108	☐ K132
☐ K006 AN	☐ K022	☐ K038	☐ K061	☐ K093	☐ K109	☐ K136
☐ K006 HY	☐ K023	☐ K039	☐ K062	☐ K094	☐ K110	☐ K141
☐ K007	☐ K024	☐ K040	☐ K064	☐ K095	☐ K111	☐ K142
☐ K008	☐ K025	☐ K041	☐ K065	☐ K096	☐ K112	☐ K143
☐ K009	☐ K026	☐ K042	☐ K066	☐ K097	☐ K113	☐ K144
☐ K010	☐ K027	☐ K043 (DU only)	☐ K069 CS	☐ K098	☐ K114	☐ K145
☐ K011	☐ K028	☐ K044	☐ K071	☐ K099 (DU only)	☐ K115	☐ K147
☐ K013	☐ K029	☐ K045	☐ K073	☐ K100	☐ K116	☐ K148
☐ K014	☐ K030	☐ K046	☐ K083	☐ K101	☐ K117	☐ K149
☐ K015	☐ K031	☐ K047	☐ K084	☐ K102	☐ K118	☐ K150
☐ K016	☐ K032	☐ K048	☐ K085	☐ K103	☐ K123	☐ K151

Note: Following "K" Codes Acceptable only for Off-Site Transfer and Disposal (Unacceptable for incineration): ☐ K069NC ☐ K106HM

"P" LISTED CODES

Check All Applicable Waste Codes

☐ P001	☐ P012	☐ P026	☐ P039	☐ P050	☐ P065 LM	☐ P077
☐ P002	☐ P013	☐ P027	☐ P040	☐ P051	☐ P066	☐ P081
☐ P003	☐ P014	☐ P028	☐ P041	☐ P054	☐ P067	☐ P082
☐ P004	☐ P016	☐ P029	☐ P042	☐ P056	☐ P068	☐ P084
☐ P005	☐ P017	☐ P030	☐ P043	☐ P057	☐ P069	☐ P085
☐ P006	☐ P018	☐ P031	☐ P044	☐ P058	☐ P070	☐ P088
☐ P007	☐ P020	☐ P033	☐ P045	☐ P059	☐ P071	☐ P089
☐ P008	☐ P021	☐ P034	☐ P046	☐ P060	☐ P072	☐ P092 LM
☐ P009	☐ P022	☐ P036	☐ P047	☐ P062	☐ P073	☐ P093
☐ P010	☐ P023	☐ P037	☐ P048	☐ P063	☐ P074	☐ P094
☐ P011	☐ P024	☐ P038	☐ P049	☐ P064	☐ P075	☐ P095

SECTION D. (Continued)

RES Waste Stream No. L-39600

☐ P096	☐ P101	☐ P105	☐ P110	☐ P114	☐ P119	☐ P123
☐ P097	☐ P102	☐ P106	☐ P111	☐ P115	☐ P120	
☐ P098	☐ P103	☐ P108	☐ P112	☐ P116	☐ P121	
☐ P099	☐ P104	☐ P109	☐ P113	☐ P118	☐ P122	

Note: Following "P" Codes Acceptable only for Off-Site Transfer and Disposal: ☐ P015 ☐ P065 HM ☐ P076 ☐ P078 ☐ P087 ☐ P092 HM

Check All Applicable Waste Codes

"U" LISTED CODES

Check All Applicable Waste Codes

☐ U001	☐ U037	☐ U075	☐ U112	☐ U148	☐ U184	☐ U223
☐ U002	☐ U038	☐ U076	☐ U113	☐ U149	☐ U185	☐ U225
☐ U003	☐ U039	☐ U077	☐ U114	☐ U150	☐ U186	☐ U226
☐ U004	☐ U041	☐ U078	☐ U115	☐ U151 LM	☐ U187	☐ U227
☐ U005	☐ U042	☐ U079	☐ U116	☐ U152	☐ U188	☐ U228
☐ U006	☐ U043	☐ U080	☐ U117	☐ U153	☐ U189	☐ U234
☐ U007	☐ U044	☐ U081	☐ U118	☐ U154	☐ U190	☐ U235
☐ U008	☐ U045	☐ U082	☐ U119	☐ U155	☐ U191	☐ U236
☐ U009	☐ U046	☐ U083	☐ U120	☐ U156	☐ U192	☐ U237
☐ U010	☐ U047	☐ U084	☐ U121	☐ U157	☐ U193	☐ U238
☐ U011	☐ U048	☐ U085	☐ U122	☐ U158	☐ U194	☐ U239
☐ U012	☐ U049	☐ U086	☐ U123	☐ U159	☐ U196	☐ U240
☐ U014	☐ U050	☐ U087	☐ U124	☐ U160	☐ U197	☐ U243
☐ U015	☐ U051	☐ U088	☐ U125	☐ U161	☐ U200	☐ U244
☐ U016	☐ U052	☐ U089	☐ U126	☐ U162	☐ U201	☐ U246
☐ U017	☐ U053	☐ U090	☐ U127	☐ U163	☐ U202	☐ U247
☐ U018	☐ U055	☐ U091	☐ U128	☐ U164	☐ U203	☐ U248
☐ U019	☐ U056	☐ U092	☐ U129	☐ U165	☐ U204	☐ U249
☐ U020	☐ U057	☐ U093	☐ U130	☐ U166	☐ U205	☐ U328
☐ U021	☐ U058	☐ U094	☐ U131	☐ U167	☐ U206	☐ U353
☐ U022	☐ U059	☐ U095	☐ U132	☐ U168	☐ U207	☐ U359
☐ U023	☐ U060	☐ U096	☐ U133	☐ U169	☐ U208	
☐ U024	☐ U061	☐ U097	☐ U134	☐ U170	☐ U209	
☐ U025	☐ U062	☐ U098	☐ U135	☐ U171	☐ U210	
☐ U026	☐ U063	☐ U099	☐ U136	☐ U172	☐ U211	
☐ U027	☐ U064	☐ U101	☐ U137	☐ U173	☐ U213	
☐ U028	☐ U066	☐ U102	☐ U138	☐ U174	☐ U214	
☐ U029	☐ U067	☐ U103	☐ U140	☐ U176	☐ U215	
☐ U030	☐ U068	☐ U105	☐ U141	☐ U177	☐ U216	
☐ U031	☐ U069	☐ U106	☐ U142	☐ U178	☐ U217	
☐ U032	☐ U070	☐ U107	☐ U143	☐ U179	☐ U218	
☐ U033	☐ U071	☐ U108	☐ U144	☐ U180	☐ U219	
☐ U034	☐ U072	☐ U109	☐ U145	☐ U181	☐ U220	
☐ U035	☐ U073	☐ U110	☐ U146	☐ U182	☐ U221	
☐ U036	☐ U074	☐ U111	☐ U147	☐ U183	☐ U222	

Note: Following "U" Code Acceptable only for Off-Site Transfer and Disposal (Unacceptable for incineration): ☐ U151 HM

OTHER RES INCINERATION UNACCEPTABLES

Unacceptable EPA Waste Codes (Permit Restricted)

- D003 Explosives
- D002, D004-D011 (High level radioactive wastes from processing of fuel rods).
- The following "F" Listed Dioxin Waste Codes:
  - F020
  - F021
  - F022
  - F023
  - F026
  - F027
  - F028

Unacceptable Hazardous Constituents

The following Dioxins constituents are unacceptable above the LDR treatment standard:

- All HxCDDs
- All HxCDFs
- All PeCDDs
- All PeCDFs
- All TCDDs
- All TCDFs

- Kepone in any concentration is unacceptable at RES (NJ).

Note: Acceptance of the Dioxin constituents in non-listed Dioxin Wastes are on a case-by-case basis.

SECTION E. UNDERLYING HAZARDOUS CONSTITUENTS (UHCs)

(40 CFR§268.48) RES Waste Stream No. L-39600

INORGANIC CONSTITUENTS

Check all Applicable Constituents

- ☐ Antimony
- ☐ Arsenic
- ☐ **BARIUM**
- ☐ **BERYLLIUM**
- ☐ Cadmium
- ☐ Chromium
- ☐ Cyanides (Total)
- ☐ Cyanides (Amenable)
- ☐ Fluoride
- ☐ Lead
- ☐ Mercury
- ☐ Nickel
- ☐ **SELENIUM**
- ☐ Silver
- ☐ Sulfide

Check all Applicable Constituents

- ☐ **THALLIUM**
- ☐ Vanadium (Not an Underlying Hazardous Constituent except in F039 wastewaters)

ORGANIC ACCEPTABLE CONSTITUENTS

Check all Applicable Constituents

- ☐ Acenaphthylene
- ☐ Acenaphthene
- ☐ ** *Acetone*
- ☐ Acetonitrile
- ☐ Acetophenone
- ☐ 2-Acetylaminofluorene
- ☐ Acrolein
- ☐ Acrylamide
- ☐ Acrylonitrile
- ☐ Aldrin
- ☐ 4-Aminobiphenyl
- ☐ Aniline
- ☐ Anthracene
- ☐ Aramite
- ☐ alpha-BHC
- ☐ beta-BHC
- ☐ delta-BHC
- ☐ gamma-BHC
- ☐ ** *Benzene*
- ☐ Benz(a)anthracene
- ☐ Benzal chloride
- ☐ Benzo(b)fluoranthene
- ☐ Benzo(k)fluoranthene
- ☐ Benzo(g,h,i)perylene
- ☐ Benzo(a)pyrene
- ☐ Bromodichloromethane
- ☐ Methyl bromide (Bromomethane)
- ☐ 4-Bromophenyl phenyl ether
- ☐ ** *n-Butyl alcohol*
- ☐ Butyl benzyl phthalate
- ☐ 2-sec-Butyl-4,6-dinitrophenol (Dinoseb)
- ☐ ** ***CARBON DISULFIDE***
- ☐ ** *Carbon tetrachloride*
- ☐ Chlordane (alpha & gamma isomers)
- ☐ p-Chloroaniline
- ☐ ** *Chlorobenzene*
- ☐ Chlorobenzilate
- ☐ 2-Chloro-1,3-butadiene
- ☐ Chlorodibromethane
- ☐ Chloroethane
- ☐ bis(2-Chloroethoxy)methane
- ☐ bis(2-chloroethyl)ether
- ☐ Chloroform
- ☐ bis(2-Chloroisopropyl)ether
- ☐ p-Chloro-m-cresol
- ☐ 2-Chloroethyl vinyl ether
- ☐ Chloromethane (Methyl chloride)
- ☐ 2-Chloronaphthalene
- ☐ 2-Chlorophenol
- ☐ 3-Chloropropylene
- ☐ Chrysene
- ☐ ** *o-Cresol*
- ☐ ** *m-Cresol*
- ☐ ** *p-Cresol*
- ☐ ** ***CYCLOHEXANONE***
- ☐ 1,2-Dibromo-3-chloropropane
- ☐ Ethylene dibromide (1,2-Dibromoethane)
- ☐ Dibromomethane
- ☐ 2,4-D (2-4-Dichlorophenoxyacetic acid)
- ☐ o,p'-DDD
- ☐ p,p'-DDD
- ☐ o,p'-DDE
- ☐ p,p'-DDE
- ☐ o,p'-DDT
- ☐ p,p'-DDT
- ☐ Dibenz(a,h)anthracene
- ☐ Dibenz(a,e)pyrene
- ☐ m-Dichlorobenzene
- ☐ ** *o-Dichlorobenzene*
- ☐ p-Dichlorobenzene
- ☒ Dichlorodifluoromethane
- ☐ 1,1-Dichloroethane
- ☐ 1,2-Dichloroethane
- ☐ 1,1-Dichloroethylene
- ☐ trans-1,2-Dichloroethylene
- ☐ 2,4-Dichlorophenol
- ☐ 2,6-Dichlorophenol
- ☐ 1,2-Dichloropropane
- ☐ cis-1,3-Dichloropropylene
- ☐ trans-1,3-Dichloropropylene
- ☐ Dieldrin
- ☐ Diethyl phthalate
- ☐ 2,4-Dimethyl phenol
- ☐ Dimethyl phthalate
- ☐ Di-n-butyl phthalate
- ☐ 1,4-Dinitrobenzene
- ☐ 4,6-Dinitro-o-cresol
- ☐ 2,4-Dinitrophenol
- ☐ 2,4-Dinitrotoluene
- ☐ 2,6-Dinitrotoluene
- ☐ Di-n-octyl phthalate
- ☐ p-Dimethylaminoazobenzene
- ☐ Di-n-propylnitrosamine
- ☐ 1,4-Dioxane
- ☐ Diphenylamine
- ☐ Diphenylnitrosamine
- ☐ 1,2-Diphenylhydrazine
- ☐ Disulfoton
- ☐ Endosulfan I
- ☐ Endosulfan II
- ☐ Endosulfan sulfate
- ☐ Endrin
- ☐ Endrin aldehyde
- ☐ ** *Ethyl acetate*
- ☐ Ethyl cyanide (Propanenitrile)
- ☐ ** *Ethyl benzene*
- ☐ ** *Ethyl ether*
- ☐ bis(2-Ethylhexyl) phthalate
- ☐ Ethyl methacrylate
- ☐ Ethylene oxide
- ☐ Famphur
- ☐ Fluoranthene
- ☐ Fluorene
- ☐ Heptachlor
- ☐ Heptachlor epoxide
- ☐ Hexachlorobenzene
- ☐ Hexachlorobutadiene
- ☐ Hexachlorocyclopentadiene
- ☐ Hexachloroethane
- ☐ Hexachloropropylene
- ☐ Indeno (1,2,3-c,d) pyrene
- ☐ Iodomethane
- ☐ ** *Isobutyl alcohol*
- ☐ Isodrin
- ☐ Isosafrole
- ☐ Kepone
- ☐ Methacrylonitrile
- ☐ ** ***METHANOL***
- ☐ Methapyrilene
- ☐ Methoxychlor
- ☐ 3-Methylcholanthrene
- ☐ 4,4-Methylene bis (2-chloroaniline)
- ☐ ** *Methylene chloride*
- ☐ ** *Methyl ethyl ketone*
- ☐ ** *Methyl isobutyl ketone*
- ☐ Methyl methacrylate
- ☐ Methyl methansulfonate
- ☐ Methyl parathion
- ☐ Naphthalene
- ☐ 2-Naphthylamine
- ☐ o-Nitroaniline
- ☐ p-Nitroaniline
- ☐ ** *Nitrobenzene*
- ☐ 5-Nitro-o-toluidine
- ☐ o-Nitrophenol
- ☐ p-Nitrophenol
- ☐ N-Nitrosodiethylamine
- ☐ N-Nitrosodimethylamine
- ☐ N-Nitroso-di-n-butylamine
- ☐ N-Nitrosomethylethylamine
- ☐ N-Nitrosomorpholine
- ☐ N-Nitrosopiperidine
- ☐ N-Nitrosopyrrolidine
- ☐ Parathion
- ☐ **TOTAL PCBs**
- ☐ Pentachlorobenzene
- ☐ Pentachloroethane
- ☐ Pentachloronitrobenzene
- ☐ Pentachlorophenol
- ☐ Phenacetin
- ☐ Phenanthrene
- ☐ Phenol
- ☐ Phorate
- ☐ Phthalic acid
- ☐ Phthalic anhydride
- ☐ Pronamide
- ☐ Pyrene
- ☐ ** *Pyridine*
- ☐ Safrole
- ☐ Silvex (2,4,5-TP)
- ☐ 2,4,5-T (2,4,5-Trichlorophenoxy-acetic acid)
- ☐ 1,2,4,5-Tetrachlorobenzene
- ☐ 1,1,1,2-Tetrachloroethane
- ☐ 1,1,2,2-Tetrachloroethane
- ☐ ** *Tetrachloroethylene*
- ☐ 2,3,4,6-Tetrachlorophenol
- ☐ ** *Toluene*
- ☐ Toxaphene
- ☐ Bromoform (Tribromomethane)
- ☐ 1,2,4-Trichlorobenzene
- ☐ ** *1,1,1-Trichloroethane*
- ☐ ** *1,1,2-Trichloroethane*
- ☐ ** *Trichloroethylene*
- ☐ ** *Trichloromonofluoromethane*
- ☐ 2,4,5-Trichlorophenol
- ☐ 2,4,6-Trichlorphenol
- ☐ 1,2,3-Trichloropropane
- ☐ ** *1,1,2-Trichloro-1,2,2,-trifluoroethane*
- ☐ **TRIS-(2,3-DIBROMOPROPYL) PHOSPHATE** (RES INJ only)
- ☐ Vinyl chloride
- ☐ ** *Xylenes-total mixed isomers*

Note: Constituents in bold type have been highlighted for RES purposes only.

ROLLINS ENVIRONMENTAL SERVICES

ROLLINS ENVIRONMENTAL SERVICES
UNIFORM WASTE DATA SHEET
(EXHIBIT B)

(SHADED AREA FOR RES USE ONLY)

DOC. NO. _____ RES SALES EXEC. # _____ STREAM NO. L-39598

A. INVOICE INFORMATION

1. Company RES CHEMPAK
2. Address _____
3. State _____ 4. Zip _____
5. Invoice Contact _____
6. Phone No. ( ) _____

B. PICK UP LOCATION ☐ Same as "A"

1. Company OMEGA Chemical Site PRP Group
2. Physical Address 12504 E. Whittier Blvd
3. State Whittier CA 4. Zip 90602
5. Pick Up Contact Jim Hardesty
6. Phone No. (310) 693-6396

C. GENERATOR AND SHIPPING INFORMATION

1. Generator Omega Chemical Site PRP Group
2. US EPA ID No. CAD042245001
3. Address 12504 E. Whittier
4. State Whittier CA 5. Zip 90602
6. Purchasing Contact Jim Hardesty
   Phone No. (310) 693-6396
7. Technical Contact Jim Hardesty
   Phone No. (310) 693-6396
8. Emergency Contact Jim Hardesty
   Phone No. (310) 693-6396
9. Manifest Contact Jim Hardesty
   Phone No. (310) 693-6396
10. Destination State Waste Code No. _____
11. Generating State I.D. No. 99906
12. DOT Shipping Name: REFRIGERANT GAS, N.O.S (Dichlorodifluoromethane & Chlorodifluoro-Methane)
13. Hazard Class Number/Div. 2.2
14. I.D. No. (UN/NA) UN 1078
15. Packing Group (PG) _____
16. Tech. Name(s)/Add'l. Descriptions R-12, R-22 Cyl # MW1, MW3, MW5, MW6, MW7, MW8, MW9, MW10
17. Hazardous Substance/Marine Pollutant(s) N/A RQ/Lbs. See # RRCRA
18. Trailer Type ☒ Van ☐ Tank Truck ☐ Vac Truck ☐ Roll-off Bin
19. Yes ☐ No ☒ Customer Delivery
20. Special Requirements Return emptied cylinders to OMEGA
21. ☐ ☒ Truck Scale at Customer Site

D. GENERAL WASTE INFORMATION

1. Waste Name FREON
2. Quantity 20,000 lb Per Month ☐ Quarter ☐ Year ☐ Once ☒
3. Process Generating Waste CERCLA Site Clean-up
4. ~~Drums~~ Cylinders - Size/Type 1/2 T & 1T
5. Bulk - Size/Type 52"x30" D ; 80"x30" D
6. Other _____

E. REGULATORY INFORMATION

	Yes	No	
1.	☐	☒	OSHA Carcinogens (list concentration in Section F)
2.	☐	☒	Regulated Benzene NESHAP Waste (40 CFR, § 61)
3.	☐	☒	Regulated or licensed Radioactive Waste
4.	☐	☒	Regulated Medical Waste (40 CFR § 259)
5.	☐	☒	Asbestos containing Wastes
6.	☐	☒	Dioxin Waste (F020, F021, F022, F023, F026, F027, F028)
7.	☐	☒	TSCA regulated PCB
8.	☐	☒	Are there any PCBs present in this waste?

☐ < 50 ppm ☐ 50-500 ppm ☐ > 500 ppm

9. ☐ ☐ If the PCB concentration is < 50 ppm, is it a result of dilution or leaks and/or spills of > 50 ppm PCB concentrations?

10. Yes ☐ No ☒ RCRA EPA Hazardous Waste (list all applicable waste codes/subcategories [D,F,K,P,U]):

11. TCLP Metals/Organics Determination:
☒ Process Knowledge ☐ Analytical (attached)

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F. COMPOSITION & PROPERTIES OF WASTE @ 77°F.

1 Chemical Name or Constituent	2. Typical Analysis (wt. %)	3. Expected Ranges (wt. %)
R-22	90	79.8 - 98.3
R-12	10	1.7 - 20.2
trace amounts of other refrigerants		-
R-115	0.2	0 - 8
R-152a	0.2	0 - 5
R-21	0.2	0 - 5
oil	0.2	0 - 5
☐ See attached for additional chemical names or constituents	TOTAL 100%	

2. Physicial State and % *Phases* By Vol. ☒ Liquid 80% %
☐ Sludges/Semi-solid ____ % ☐ Solid ____ %
☐ Powder ____ % ☒ Gas 20 %
3. Odor Freon 4. No. of Phases 2
5. Viscosity (77°F) ☒ < 200 cps. or Range ____ cps.
6. Closed Cup Flash Point (Liquids & Non-liquids)
☐ If < 73°F, Specify Typical Flash Point ____
☐ 73° - < 100°F ☐ 100° - < 140°F
☐ 140° - < 200°F ☒ ≥ 200°F
7. ☐ pH (Aqueous Liquids) or ☐ pH (Non-aqueous) ☐ ≤ 2
☐ > 2 - 5 ☒ > 5 - 9 ☐ > 9 - < 12.5 ☐ ≥ 12.5
8. Corrosivity ☒ ≤ 6.35 mm/yr or ☐ > 6.35 mm/yr
9. Melting Point of Solids < 130°F. N.A. °F.
10. Boiling Point of Liquids < 130°F. ~ -78 °F
11. TOC (Total Organic Carbon) ☐ < 1% ☐ 1% - 20% ☒ > 20%
12. Bromine ☒ None or ____ %
13. Iodine ☒ None or ____ %
14. Fluorine ☐ None or ~40 %
15. Chlorine ☐ None or ~40 %
16. VOC (Volatile Organic Compounds) N.A %
17. Heat of Combustion Analysis
BTUs/Lb. < 2,000 Ash: < 0.1 %
Scrub 0.80 Lb. NaOH/Lb. Waste
Specific Gravity 1.5 or
Bulk Density N.A. Lb./Cu. Ft.

G. REACTIVE CHARACTERISTICS OF WASTE

	Yes	No
1. Explosive/Shock Sensitive	☐	☒
2. Pyrophoric	☐	☒
3. Polymerizable	☐	☒
4. Water Reactive	☐	☒
5. Air Reactive	☐	☒
6. Oxidizer	☐	☒
7. Reactive Cyanide	☐	☒ ____ ppm
8. Reactive Sulfide	☐	☒ ____ ppm
9. Other	☐	____

H. ELEMENTAL ANALYSIS (Total Metals) ☒ mg/Kg (ppm) or ☐ mg/l

Aluminum	n/a < 0.1	Chromium	n/a < 0.1	Molybdenum	n/a < 0.1	Sodium	n/a < 0.1
Antimony	< 0.1	Chromium VI	< 0.1	Nickel	< 0.1	Sulfur	< 0.1
Arsenic	< 0.1	Copper	< 0.1	Potassium	< 0.1	Thallium	< 0.1
Barium	< 0.1	Lead	< 0.1	Selenium	< 0.1	Titanium	< 0.1
Beryllium	< 0.1	Manganese	< 0.1	Silicon	< 0.1	Vanadium	< 0.1
Cadmium	< 0.1	Mercury	< 0.001	Silver	< 0.1	Zinc	< 0.1

I. GENERATOR CERTIFICATION

I hereby certify and warrant that the information supplied on this form and on any attachments or supplements represents a complete and accurate identification and description by the generator company of this waste material, its constituents, and its known or suspected hazards.

Jim Haggerty Jim Haggerty EMPLOYED BY HLA, AGENT FOR OMEGA CHEMICAL SITE PRP ORGANIZED GROUP 8/30/95

Signature Name & Title (Printed or Typed) Date

RES-SO-419 Rev. 4/93

ROLLINS ENVIRONMENTAL SERVICES

ROLLINS ENVIRONMENTAL SERVICES
UNIFORM WASTE DATA SHEET
(EXHIBIT B)

(SHADED AREA FOR RES USE ONLY)

DOC. NO. _____ RES SALES EXEC. # _____ STREAM NO. L-39599

A. INVOICE INFORMATION

1. Company RES CHEMPAK
2. Address _____
3. State _____ 4. Zip _____
5. Invoice Contact _____
6. Phone No. ( ) _____

B. PICK UP LOCATION ☐ Same as "A"

1. Company OMEGA Chemical Site PRP Group
2. Physical Address 12504 E. Whittier Blvd
3. State Whittier CA 4. Zip 90602
5. Pick Up Contact Jim Hardesty
6. Phone No. (310) 693-6396

C. GENERATOR AND SHIPPING INFORMATION

1. Generator Omega Chemical Site PRP Group
2. US EPA ID No. CAD042245001
3. Address 12504 E. Whittier
4. State Whittier CA 5. Zip 90602
6. Purchasing Contact Jim Hardesty Phone No. (310) 693-6396
7. Technical Contact Jim Hardesty Phone No. (310) 693-6396
8. Emergency Contact Jim Hardesty Phone No. (310) 693-6396
9. Manifest Contact Jim Hardesty Phone No. (310) 693-6396
10. Destination State Waste Code No. _____
11. Generating State I.D. No. 99906
12. DOT Shipping Name: REFRIGERANT GAS, N.O.S (Dichlorodifluoromethane & Chlorodifluoromethane)
13. Hazard Class Number/Div. 2.2
14. I.D. No. (UN/NA) UN 1078
15. Packing Group (PG) _____
16. Tech. Name(s)/Add'l. Descriptions R-12, R-22 Cyl # MW2
17. Hazardous Substance/Marine Pollutant(s) N/A RQ/Lbs. 5000
18. Trailer Type ☒ Van ☐ Tank Truck ☐ Vac Truck ☐ Roll-off Bin
19. Yes ☐ No ☒ Customer Delivery
20. Special Requirements Return emptied cylinders to OMEGA
21. Yes ☐ No ☒ Truck Scale at Customer Site

D. GENERAL WASTE INFORMATION

1. Waste Name Freon
2. Quantity 20,000 lb Per ☐ Month ☐ Quarter ☐ Year ☒ Once
3. Process Generating Waste CERCLA Site Clean-up
4. ~~Drums~~ Cylinders - Size/Type 1/2 T & 1 T
5. Bulk - Size/Type 52"x30" D ; 80"x30" D
6. Other _____

E. REGULATORY INFORMATION

	Yes	No	
1.	☐	☒	OSHA Carcinogens (list concentration in Section F)
2.	☐	☒	Regulated Benzene NESHAP Waste (40 CFR, § 61)
3.	☐	☒	Regulated or licensed Radioactive Waste
4.	☐	☒	Regulated Medical Waste (40 CFR § 259)
5.	☐	☒	Asbestos containing Wastes
6.	☐	☒	Dioxin Waste (F020, F021, F022, F023, F026, F027, F028)
7.	☐	☒	TSCA regulated PCB
8.	☐	☒	Are there any PCBs present in this waste?

☐ < 50 ppm ☐ 50-500 ppm ☐ > 500 ppm

9. ☐ ☐ If the PCB concentration is < 50 ppm, is it a result of dilution or leaks and/or spills of > 50 ppm PCB concentrations?

10. Yes ☒ No ☐ RCRA EPA Hazardous Waste (list all applicable waste codes/subcategories [D,F,K,P,U]): F002

11. TCLP Metals/Organics Determination:
☒ Process Knowledge ☐ Analytical (attached)

RES-50-419 Rev. 4/93

F. COMPOSITION & PROPERTIES OF WASTE @ 77°F.

1 Chemical Name or Constituent	2. Typical Analysis (wt. %)	3. Expected Ranges (wt. %)
R-22	65.447	60 - 70
R-12	28.100	25 - 31
R-152a	6.450	5 - 7
R-11	1.839	1 - 3
n-Butane	0.525	0 - 1
2-Butene	0.506	0 - 1
< 1% methylene chloride includes 1,1,1 TCA and other refrigerants + oil	6	5 - 7
☐ See attached for additional chemical names or constituents	TOTAL 100%	

2. Physicial State and % *Phases* By Vol. ☒ Liquid 80 %
☐ Sludges/Semi-solid ____ % ☐ Solid ____ %
☐ Powder ____ % ☒ Gas 20 %

3. Odor ____ 4. No. of Phases 2

5. Viscosity (77°F) ☒ < 200 cps. or Range ____ cps.

6. Closed Cup Flash Point (Liquids & Non-liquids)
☐ If < 73°F, Specify Typical Flash Point ____
☐ 73° - < 100°F ☐ 100° - < 140°F
☐ 140° - < 200°F ☒ ≥ 200°F

7. ☐ pH (Aqueous Liquids) or ☐ pH (Non-aqueous) ☐ ≤ 2
☐ > 2 - 5 ☒ > 5 - 9 ☐ > 9 - < 12.5 ☐ ≥ 12.5

8. Corrosivity ☒ ≤ 6.35 mm/yr or ☐ > 6.35 mm/yr

9. Melting Point of Solids < 130°F. N/A °F.

10. Boiling Point of Liquids < 130°F. -78 °F

11. TOC (Total Organic Carbon) ☐ < 1% ☐ 1% - 20% ☒ > 20%

12. Bromine ☒ None or ____ %

13. Iodine ☒ None or ____ %

14. Fluorine ☐ None or ~40 %

15. Chlorine ☐ None or ~40 %

16. VOC (Volatile Organic Compounds) N/A %

17. Heat of Combustion Analysis
BTUs/Lb. < 2000 Ash: < 0.1 %
Scrub 0.80 Lb. NaOH/Lb. Waste
Specific Gravity 1.5 or
Bulk Density — Lb./Cu. Ft.

G. REACTIVE CHARACTERISTICS OF WASTE

	Yes	No		Yes	No		Yes	No	
1. Explosive/Shock Sensitive	☐	☒	4. Water Reactive	☐	☒	7. Reactive Cyanide	☐	☒	____ ppm
2. Pyrophoric	☐	☒	5. Air Reactive	☐	☒	8. Reactive Sulfide	☐	☒	____ ppm
3. Polymerizable	☐	☒	6. Oxidizer	☐	☒	9. Other	☐		____

H. ELEMENTAL ANALYSIS (Total Metals) ☐ mg/Kg(ppm) or ☐ mg/l

Aluminum	< 0.1	Chromium	< 0.1	Molybdenum	< 0.1	Sodium	< 0.1
Antimony	< 0.1	Chromium VI	< 0.1	Nickel	< 0.1	Sulfur	< 0.1
Arsenic	< 0.1	Copper	< 0.1	Potassium	< 0.1	Thallium	< 0.1
Barium	< 0.1	Lead	< 0.1	Selenium	< 0.1	Titanium	< 0.1
Beryllium	< 0.1	Manganese	< 0.1	Silicon	< 0.1	Vanadium	< 0.1
Cadmium	< 0.1	Mercury	< 0.001	Silver	< 0.1	Zinc	< 0.1

I. GENERATOR CERTIFICATION

I hereby certify and warrant that the information supplied on this form and on any attachments or supplements represents a complete and accurate identification and description by the generator company of this waste material, its constituents, and its known or suspected hazards.

Jim Hardesty — Signature

Jim Hardesty EMPLOYED BY HLA, AGENT FOR OMEGA CHEMICAL SITE PRP ORGANIZED GROUP. — Name & Title (Printed or Typed)

8/29/95 — Date

RES-50-419 Rev. 4/93

ROLLINS ENVIRONMENTAL SERVICES

ROLLINS ENVIRONMENTAL SERVICES
UNIFORM WASTE DATA SHEET
(EXHIBIT B)

(SHADED AREA FOR RES USE ONLY)

DOC. NO. _____ RES SALES EXEC. # _____ STREAM NO. L-39600

A. INVOICE INFORMATION

1. Company RES CHEMPAK
2. Address _____
3. State _____ 4. Zip _____
5. Invoice Contact _____
6. Phone No. ( ) _____

B. PICK UP LOCATION ☐ Same as "A"

1. Company OMEGA Chemical Site PRP Group
2. Physical Address 12504 E. Whittier Blvd
3. State Whittier CA 4. Zip 90602
5. Pick Up Contact Jim Hardesty
6. Phone No. (310) 693-6396

C. GENERATOR AND SHIPPING INFORMATION

1. Generator OMEGA Chemical Site PRP Group
2. US EPA ID No. CAD042245001
3. Address 12504 E. Whittier
4. State Whittier CA 5. Zip 90602
6. Purchasing Contact Jim Hardesty
   Phone No. (310) 693-6396
7. Technical Contact Jim Hardesty
   Phone No. (310) 693-6396
8. Emergency Contact Jim Hardesty
   Phone No. (310) 693-6396
9. Manifest Contact Jim Hardesty
   Phone No. (310) 693-6396
10. Destination State Waste Code No. _____
11. Generating State I.D. No. 99906
12. DOT Shipping Name: REFRIGERANT GAS, N.O.S (Dichlorodifluoromethane & Chlorodifluoromethane)
13. Hazard Class Number/Div. 2.2
14. I.D. No. (UN/NA) UN 1078
15. Packing Group (PG) _____
16. Tech. Name(s)/Add'l. Descriptions R-12, R-22 Cyl MW4, S2
17. Hazardous Substance/Marine Pollutant(s) N/A RQ/Lbs. 5000
18. Trailer Type ☒ Van ☐ Tank Truck ☐ Vac Truck ☐ Roll-off Bin
19. Yes ☐ No ☒ Customer Delivery
20. Special Requirements Return emptied cylinders to OMEGA
21. Yes ☐ No ☒ Truck Scale at Customer Site

D. GENERAL WASTE INFORMATION

1. Waste Name FREON
2. Quantity 20,000 lb Per: Month ☐ Quarter ☐ Year ☐ Once ☒
3. Process Generating Waste CERCLA Site Clean-up
4. Drums · Size/Type Cylinders 1/2 T & 1 T
5. Bulk · Size/Type 52"x30" D ; 80"x30" D
6. Other _____

E. REGULATORY INFORMATION

	Yes	No	
1.	☐	☒	OSHA Carcinogens (list concentration in Section F)
2.	☐	☒	Regulated Benzene NESHAP Waste (40 CFR, § 61)
3.	☐	☒	Regulated or licensed Radioactive Waste
4.	☐	☒	Regulated Medical Waste (40 CFR § 259)
5.	☐	☒	Asbestos containing Wastes
6.	☐	☒	Dioxin Waste (F020, F021, F022, F023, F026, F027, F028)
7.	☐	☒	TSCA regulated PCB
8.	☐	☒	Are there any PCBs present in this waste?

☐ < 50 ppm ☐ 50-500 ppm ☐ > 500 ppm

9. ☐ ☐ If the PCB concentration is < 50 ppm, is it a result of dilution or leaks and/or spills of > 50 ppm PCB concentrations?

10. Yes ☐ No ☒ RCRA EPA Hazardous Waste (list all applicable waste codes/subcategories [D,F,K,P,U]):

11. TCLP Metals/Organics Determination:
☒ Process Knowledge ☐ Analytical (attached)

RES-50-416 Rev. 4/93

F. COMPOSITION & PROPERTIES OF WASTE @ 77°F.

1 Chemical Name or Constituent	2. Typical Analysis (wt. %)	3. Expected Ranges (wt. %)
R-22	46	45.5 - 47.4
R-12	54	52.6 - 54.5
R-115	0.2	0 - 1
R-152a	0.2	0 - 1
		-
		-
		-

☐ See attached for additional chemical names or constituents **TOTAL** 100%

2. Physicial State and % *Phases* By Vol. ☒ Liquid 80 %
☐ Sludges/Semi-solid ____ % ☐ Solid ____ %
☐ Powder ____ % ☒ Gas 20 %
3. Odor Freon 4. No. of Phases 2
5. Viscosity (77°F) ☒ < 200 cps. or Range ____ cps.
6. Closed Cup Flash Point (Liquids & Non-liquids)
☐ If < 73°F, Specify Typical Flash Point ____
☐ 73° - < 100°F ☐ 100° - < 140°F
☐ 140° - < 200°F ☒ ≥ 200°F
7. ☐ pH (Aqueous Liquids) or ☐ pH (Non-aqueous) ☐ ≤ 2
☐ > 2 - 5 ☒ > 5 - 9 ☐ > 9 - < 12.5 ☐ ≥ 12.5
8. Corrosivity ☒ ≤ 6.35 mm/yr or ☐ > 6.35 mm/yr
9. Melting Point of Solids < 130°F. N.A. °F.

10. Boiling Point of Liquids < 130°F. -78 °F
11. TOC (Total Organic Carbon) ☐ < 1% ☐ 1% - 20% ☒ > 20%
12. Bromine ☒ None or ____ %
13. Iodine ☒ None or ____ %
14. Fluorine ☐ None or ~40 %
15. Chlorine ☐ None or ~40 %
16. VOC (Volatile Organic Compounds) N.A. %
17. Heat of Combustion Analysis
BTUs/Lb. < 2,000 Ash: < 0.1 %
Scrub ~0.80 Lb. NaOH/Lb. Waste
Specific Gravity ~1.5 or
Bulk Density N.A. Lb./Cu. Ft.

G. REACTIVE CHARACTERISTICS OF WASTE

	Yes	No
1. Explosive/Shock Sensitive	☐	☒
2. Pyrophoric	☐	☒
3. Polymerizable	☐	☒
4. Water Reactive	☐	☒
5. Air Reactive	☐	☒
6. Oxidizer	☐	☒
7. Reactive Cyanide	☐	☒ ____ ppm
8. Reactive Sulfide	☐	☒ ____ ppm
9. Other	☐	____

H. ELEMENTAL ANALYSIS (Total Metals) ☒ mg/Kg (ppm) or ☐ mg/l

Aluminum	n/a<0.1	Chromium	n/a<0.1	Molybdenum	n/a<0.1	Sodium	n/a<0.1
Antimony	<0.1	Chromium VI	<0.1	Nickel	<0.1	Sulfur	<0.1
Arsenic	<0.1	Copper	<0.1	Potassium	<0.1	Thallium	<0.1
Barium	<0.1	Lead	<0.1	Selenium	<0.1	Titanium	<0.1
Beryllium	<0.1	Manganese	<0.1	Silicon	<0.1	Vanadium	<0.1
Cadmium	<0.1	Mercury	<0.001	Silver	<0.1	Zinc	<0.1

I. GENERATOR CERTIFICATION

I hereby certify and warrant that the information supplied on this form and on any attachments or supplements represents a complete and accurate identification and description by the generator company of this waste material, its constituents, and its known or suspected hazards.

Jim Hardesty Jim Hardesty EMPLOYED BY HLA AGENT FOR OMEGA CHEMICAL SITE PRP ORGANIZED GROUP 8/30/95
Signature Name & Title (Printed or Typed) Date

State of New Jersey
Department of Environmental Protection and Energy
Hazardous Waste Regulation Program
Manifest Section
CN 421, Trenton, NJ 08625-0421

Please type or print in block letters. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039. Expires 9-30-94

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. CAD 0H2ZH500 — Manifest Document No. 11451611
2. Page 1 of 1 — Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address
OMEGA Chemical Site PRP Group c/o Harding Lawson Associates
12504 E. Whittier Blvd 3 Hutton Centre Drive #300
Whittier, CA 90602 Santa Ana, CA 92707
4. Generator's Phone (310) 503-4857 Attn: Andrew Keller

A. State Manifest Document Number: NJA 2066957
B. State Generator's ID (Gen. Site Address): 12504 E. Whittier Blvd.
C. State Trans. ID-NJDEPE 520183 Decal No. 167573
D. Transporter's Phone (800) 734-8763
E. State Trans. ID-NJDEPE Decal No.
F. Transporter's Phone ( )
G. State Facility's ID
H. Facility's Phone (609) 467-3100

5. Transporter 1 Company Name: Tri State Motor Transit Co.
6. US EPA ID Number: MOD049810388
7. Transporter 2 Company Name
8. US EPA ID Number

9. Designated Facility Name and Site Address: Rollins Environmental Services (NJ), Inc
RT 322 & I-295
Bridgeport NJ 08014
10. US EPA ID Number: NJD053288239

	11. US DOT Description (Including Proper Shipping Name, Hazard Class or Division, ID Number and Packing Group)	HM	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a.	WASTE REFRIGERANT GASES, N.O.S. (chlorodifluoromethane and dichlorodifluoromethane), 2.2, UN1078 RQ	X	001	CY	02727	P	F002
b.	Waste Refrigerant Gases, N.O.S. (chlorodifluoromethane and dichlorodifluoromethane), 2.2, UN1078	X	003	CY	05252	P	X905
c.	Waste Refrigerant Gases, N.O.S. (chlorodifluoromethane and dichlorodifluoromethane), 2.2, UN1078	X	009	CY	18784	P	X910
d.							

J. Additional Descriptions for Materials Listed Above: EPA ID #12 (attached)
a. L-39599 # MW2
b. L-39600 # MW4, S2A, S2B
c. L-39598 # MW1, MW3, MW5, MW6, MW10, MW7-9, RECAP1
d.

K. Handling Codes for Wastes Listed Above
a. T03 c. T03
b. T03 d.

15. Special Handling Instructions and Additional Information
24 hr. EMERGENCY RESPONSE CONTACT (800) 424-8802 National Response Center
Note: S2A, S2B, #12A, MW7-9 are 1000# cylinders.

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

Printed/Typed Name: Jim Hardesty — Milo[illegible] ID by HLA Agent for OMEGA Chemical Site PRP Organized Group
Signature: Jim Hardesty
Month Day Year: 09 11 95

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Levi Letterman
Signature: Levi Letterman
Month Day Year: 09 11 1995

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name
Signature
Month Day Year

FACILITY

19. Discrepancy Indication Space: Item 9A: G, T, Mixed Frees Item 9B+9C: G, mixed frees
Item 11b+11c: delete word "waste"

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.
Printed/Typed Name: Audrey Hill
Signature
Month Day Year: 09 11 95

NJA 2066957

EPA Form 8700-22 (Rev. 9/88) Previous editions are obsolete. SIGNATURE AND INFORMATION MUST BE LEGIBLE

GENERATOR

Copies of this manifest may be used to satisfy the emergency notification requirements of the N.J. Dept. of Environmental Protection and Energy. (609) 292-7172

RADIOLOGICAL CERTIFICATION
Amendment To Uniform Waste Data Sheet (Exhibit B)

ROLLINS ENVIRONMENTAL SERVICES

Instructions: Customer to complete Items Sections A, B and C after reading the Radiological Acceptance Criteria.

A. CUSTOMER INFORMATION

1. Generator Omega Chemical Site 2. EPA I.D. No. _____ 3. Rollins Stream No. _____

B. RADIOLOGICAL CERTIFICATION QUESTIONS

	Yes	No	
1.	☐	☒	Does this waste contain special nuclear material in any quantity?
2.	☐	☒	Does this waste contain > 1/20 of 1%, by weight (0.05%) of any source material?
3.	☐	☒	Does this waste contain 15 picoCurie/gm or greater activity of Radium-226 or Radium-228?
4.	☐	☒	Does this waste contain any radioisotope in a quantity which requires a license to own, possess, transfer, use or dispose of the radioisotope under the regulations of the U.S. Nuclear Regulatory Commission or applicable State Laws or Regulations?
5.	☐	☒	Has this waste been generated or stored in a radiation control area? *Note: If "yes", indicate on an attachment the radioisotopes present in the control area and what type of radiological screening has been conducted on the waste prior to its release from the radiation control area.*
6.	☐	☒	Does the facility generating this waste manufacture or use any man made radioisotopes or any radioisotope tracers? *Note: If "yes", indicate on an attachment the radioisotopes manufactured or used; whether this waste could be potentially contaminated with any of the indicated isotopes and why; and what type of radiological screening has been conducted on this waste prior to its release from the generating facility.*
7.	☐	☒	Does this waste as containerized exhibit a radioactivity level of 25 microRoentgens/hour or more? *Note: If "yes", indicate on an attachment sheet the radioisotopes responsible for the activity level observed.*

C. CUSTOMER RADIOLOGICAL CERTIFICATION

I hereby certify that I have read the Rollins Radiological Acceptance Criteria below and based upon the definitions and criteria outlined therein, that the above statements are true and correct as regarding this waste stream. I understand and agree that this certification shall be attached to and made a part of the Uniform Waste Data Sheet (Exhibit B) describing this waste; that wastes not meeting the Radiological Acceptance Criteria will be rejected by Rollins; and that wastes sent to Rollins will be subjected to a radiological survey prior to their acceptance.

Jim Hardesty — Signature

EMPLOYED BY HLA, AGENT FOR OMEGA CHEMICAL SITE PRP
Jim Hardesty ORGANIZED GROUP — Name & Title (Printed or Typed)

8/15/95 — Date

ROLLINS RADIOLOGICAL ACCEPTANCE CRITERIA

Rollins Environmental Services (RES), has developed a radiological acceptance criteria in order to maintain compliance with State and Federal Law and Regulations and most importantly to assure that the health and safety of the public and the integrity of the environment is not compromised. Rollins disposal facilities are not licensed to handle radioactive wastes.

The below acceptance criteria is applied to incoming waste materials. Where more than one criteria applies to a single waste all of the criteria must be met. Thus being exempt from one of the following categories DOES NOT qualify as an exemption from the remaining criteria, all of which must be met before acceptance of waste.

Radiological Category	Definition	RES Acceptance Criteria
Special Nuclear Material	Special nuclear materials are Plutonium, Uranium-223, and Uranium enriched in the isotope U-223 or U-235.	Will not accept any special nuclear materials in any quantity.
Source Material	Source materials are materials which are not special nuclear materials and which contain Uranium or Thorium or any combinations thereof, in any physical or chemical form.	Will only accept source material if it constitutes, by weight, < 1/20 of 1% (0.05%) of the waste.
Radian	Radian defined as the radioactive isotopes, Radium-226 and Radium-228.	Will not accept activity levels ≥ 15 picoCurie/gm of Radium-226 and Radium-228 up to a total maximum of 0.1 microCurie/load.
Naturally Occurring Radioactive Material	Rollins will generally not accept any package of waste materials or bulk load of waste which displays a gamma ray activity level > 25 microRoentgens/hour or which is above the activity levels requiring licensing in states where Rollins operates facilities. Some materials are exempt from this limitation, such as non-enhanced (non-enriched) naturally Occurring Potassium 40, Brazil Nuts, and Products/By-Products of Bauxite.	

Note: RES (TX) acceptance levels are based on individual isotopes and their concentrations.

Lockheed Advanced Development Company

A DIVISION OF LOCKHEED CORPORATION

1011 Lockheed Way, Palmdale, California 93599

STRAIGHT BILL OF LADING - SHORT FORM
ORIGINAL - NOT NEGOTIABLE

RECEIVED, subject to the classifications and lawfully filed tariffs in effect on the date of the issue of this Bill of Lading, the property described below, in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned, and destined as indicated below, which said carrier (the word carrier being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its route, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed, as to each carrier of all or any of said property over all or any portion of said route to destination, as to each party at any time interested in all or any of said property, that every service to be performed hereunder shall be subject to all the terms and conditions of the Uniform Domestic Straight Bill of Lading set forth (1) in Official, Southern, Western and Illinois Freight Classifications in effect on the date hereof, if this is a rail or a rail-water shipment; or (2) in the applicable motor carrier classification or tariff if this is a motor carrier shipment. Shipper hereby certifies that he is familiar with all the terms and conditions of the said bill of lading, set forth in the classification or tariff which governs the transportation of the shipment, and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns.

SHIPPER'S NUMBER: 101890

Origin Address:
OMEGA CHEMICAL SITE
12504 E. WHITTIER
WHITTIER, CA 90602

Consigned to:
LOCKHEED ADVANCED DEVELOPMENT
1011 LOCKHEED WAY (B/629)
PALMDALE, CA 93599-3731

Date: SEPT 01, 1995

TO BE PREPAID IF CHECKED	FREIGHT COLLECT IF CHECKED	THIRD PARTY BILLING See Special Instructions Block
☒	☐	☐

Special Instructions / Remarks:
SHIPMENT OF SEVEN (7) REFRIGERANT CYLINDERS FROM THE OMEGA CHEMICAL SITE.

Reference No.:

Ship Via: HIGHWAY

HM	NO. OF PKGS.	KIND OF PACKAGES	DESCRIPTION OF ARTICLES, SPECIAL MARKS & EXCEPTIONS	BILLING WEIGHT (Skid Allowance Applied)	NMFC NUMBER	NMFC CLASS
X	01	CYL	DICHLORODIFLUOROMETHANE (R-12), 2.2, UN 1028 [ERG-12] [CYL# EL-1/SERIAL# 075587]	54 LB		
X	06	CYL	CHLOROTRIFLUOROMETHANE (R-13), 2.2, UN 1022 [ERG-12] CYL# NL-1/SERIAL# 648406 NL-2/ 126657Y NL-10/ J-2170 NL-11/ J-4950 NL-16/ 648303 NL-19 J-10952 ERG# 12 ATTACHED	1023 LBS		

Subject to Section 7 of conditions, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statement:
The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.

(Signature of consignor)

This is to certify that the above named materials are properly classified, described, packaged, marked and labeled, and are in proper condition for transportation according to the applicable regulations of the Department of Transportation.

24 Hour Emergency Contact:
CHEMTREC 1-800-424-9300

Shipper: LOCKHEED ADVANCED DEVELOPMENT COMPANY

Signed: VINCENT P. MCKAY

Title: ENV PROGRAM COORDINATOR

Date: 09/01/95

RECEIVED IN APPARENT GOOD ORDER-EXCEPT AS NOTED

Carrier: UNITED PUMPING SERVICE

Signed: Paula Coria Moreno

Date: 09/01/95

Billing Address: LADC, Traffic Department, P.O. Box 2138, Palmdale, California 93590

LADC FORM 3095-12

THIS MEMORANDUM is an acknowledgement that a Bill of Lading has been issued and is not the Original Bill of Lading, nor a copy or duplicate, covering the property named herein, and is intended solely for filing or record.

Shipper's No. 1001

Carrier's Name: United Pumping Service Carrier's No. CA-1029

RECEIVED, subject to the classifications and lawfully filed tariffs in effect on the date of the issue of this Bill of lading,

at OMEGA Chemical Site (Date) 9-1 1995 FROM 12504 E. Whittier, Whittier CA 90602

[illegible] described below, in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned, and destined as shown below, which said company (the word company being understood [illegible] this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its own railroad, water line, highway route [illegible] or within the territory of its highway operations, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed, as to each carrier of all or any of said property over all or any portion of said route to destination, and as to each party at any time interested in all or any of said property, that every service to be performed hereunder shall be subject to all the terms and conditions of the Uniform Domestic Straight Bill of Lading set forth (1) in the Uniform Freight Classification in effect on the date hereof, if this is a rail or rail-water shipment, or (2) in the applicable motor carrier classification or tariff if this is a motor carrier shipment. Shipper hereby certifies that he is familiar with all the terms and conditions of the said bill of lading, including those on the back thereof, set forth in the classification or tariff which governs the transportation of this shipment, and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns.

(Mail or street address for purposes of notification only.)

Consigned TO United Pumping Service, 14016 E Valley, City of Industry 91746

On Collect on Delivery Shipments, the letters "COD" must appear before consignee's name or as otherwise provided in Item 430, Sec. 1.

Destination Rockwell International Street 12214 Lakewood Blvd City Downey County Los Angeles State CA 90241 Zip

Route Direct Delivery Address ★

(★To be filled in only when shipper desires and governing tariffs provide for delivery thereof.)

Delivering Carrier United Pumping Service Car or Vehicle Initials and No.

Collect on Delivery $ 0 And Remit to

Street City State

No. Packages	H.M.	Kind of Package, Description of Articles, Special Marks, and Exceptions	*Weight (Subject to Correction)	Class or Rate	Check Column
1	x	Cylinder, Chlorotrifluoromethane (R-13), 2.2,	54 lb	LTL	
		UN 1022, ERG #12, Serial # D75073	Cyl # NL5	[illegible] Class 70	
1	x	Cylinder, Dichlorofluoromethane (R-21), 2.2,	54 lb	LTL	
		UN 1029, ERG #12, Serial # M10173	Cyl # NL7	[illegible] Class 70	
1		Cylinder, empty last contained Refrigerant	52 lb	LTL	
		Gas, N.O.S., 2.2, UN 1078, Serial # 1-43329	Cyl # NL4	[illegible] Class 70	

*If the shipment moves between two ports by a carrier by water, the law requires that the bill of lading shall state whether it is carrier's or shipper's weight.
NOTE — Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property.

The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding per

Jim [illegible] Shipper, Per HLA Agent for OMEGA Chemical Site PRP Group

Permanent post-office address of shipper, 3 Hutton Centre, #300, Santa Ana CA 92707

Subject to Section 7 of conditions, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statement:
The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.

N/A

(Signature of consignor.)

C. O. D. Charges to be Paid by ☐ Shipper ☐ Consignee

If charges are to be prepaid, write or stamp here, "To be Prepaid."

N/A

Received $ 0 to apply in prepayment of the charges on the property described hereon.

Agent or Cashier

Per

(The signature here acknowledges only the amount prepaid.)

Charges Advanced:

$

† "The fibre containers used for this shipment conform to the specifications set forth in the box maker's certificate thereon, and all other requirements of Rule 41 of the Uniform Freight Classification and Rule 5 of the National Motor Freight Classification."
† Shipper's imprint in lieu of stamp; not a part of bill of lading approved by the Interstate Commerce Commission.

ATTN: Barbara Ross

Agent

Per Rockwell International (310) 922-0569

3

Coleman Printing Companies, Inc. • Houston, Texas • (713) 496-8599

RRCA

STRAIGHT BILL OF LADING
ORIGINAL - NOT NEGOTIABLE

☐ COLLECT
☒ PREPAID
☐ BILL TO: RRCA
5121 MARYLAND WAY
BRENTWOOD, TN 37027

DATE SHIPPED: 9-7-95 | Consolidated Waste Industries

SHIP TO
COMPANY: Refrigerant Reclamation Corp of America
ADDRESS: 1505 Dupont St. Unit C
CITY: Ontario STATE: CA ZIP CODE: 91761
CONTACT: Roger Albisser PHONE NO.: 909) 390-6928

PRO #: 1002 DATE DUE: 9-7-95

FROM
COMPANY: OMEGA Chemical Site PRP Group
ADDRESS: 12504 E. Whittier Blvd.
CITY: Whittier STATE: CA ZIP CODE: 90602
QUOTED RATE: TO BE BILLED SEPARATELY PO # 2013 CONTRACT #: 32-026-41

HM*	NO. (UNIT)	CYLINDER SIZE	PRODUCT DESCRIPTION		HAZARD CLASS	DOT I.D.	DOT CLASS	PRODUCT WEIGHT	GROSS WEIGHT
			DICHLORODIFLUOROMETHANE (R-12)	☐ USED ☐ RECLAIMED	2.2	UN1028	70		
X	17	1 Ton	CHLORODIFLUOROMETHANE (R-22)	☒ USED ☐ RECLAIMED	2.2	UN1018	70	13732	14177
			TETRAFLUOROETHANE (R-134a)	☐ USED ☐ RECLAIMED	2.2	UN1078	70		
			DICHLORODIFLUOROMETHANE/ DIFLUOROETHANE (R-500)	☐ USED ☐ RECLAIMED	2.2	UN2602	70		
			CHLORODIFLUOROMETHANE/ CHLOROPENTAFLUOROETHANE (R-502)	☐ USED ☐ RECLAIMED	2.2	UN1973	70		
			DICHLOROTETRAFLUOROETHANE (R-114)	☐ USED ☐ RECLAIMED	2.2	UN1958	70		
			OTHER (SPECIFY):	☐ USED ☐ RECLAIMED		UN1976			
			NON-REGULATED (RQ 5,000 LBS.) TRICHLOROFLUOROMETHANE (R-11)	☐ USED ☐ RECLAIMED	ORM-E	UN3082	70		

This is to certify that the above named materials are properly classified, described, packaged, marked, and labeled, and are in proper condition for transportation according to the applicable regulations of the Department of Transportation.

Signature

Received, subject to the classifications and lawfully filed tariffs in effect on the date of the issue of this Bill of Lading, the property described above and in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned, and destined, as indicated above which said Carrier (the word Carrier being understood throughout this contract) agrees to carry to its usual place of delivery at said destination, if on its route, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed, as to each carrier of all or any of said property over all or any portion of said route to destination and as to each party at any time interested in all or any of said property, that every service to be performed hereunder shall be subject to all conditions not prohibited by law, whether printed or written, herein contained, including the conditions on the back hereof, which are hereby agreed to by the shipper and accepted for himself and his assigns.

EMERGENCY CONTACT: 1-800-488-7722

FREIGHT CHARGES ARE PREPAID UNLESS MARKED COLLECT.
CHECK BOX IF CHARGES ARE COLLECT ☐

TOTAL CHARGES $

Chloroethyl vinyl ether ..... DOT EMERGENCY RESPONSE PROCEDURES FOR REFRIGERANT GAS N.O.S. ..... N.D.

POTENTIAL HAZARDS: note: tare wt. used 385 lb. each

Fire or Explosion: Some of these materials may burn, but none of them ignites readily. Cylinder may explode in heat or fire.

Health Hazards: Vapors may cause dizziness or suffocation. Contact with liquid may cause frostbite. Fire may produce irritating or poisonous gases.

EMERGENCY ACTION:
- Keep unnecessary people away; isolate hazard area and deny entry.
- Stay upwind; keep out of low areas.
- Self-contained breathing apparatus (SCBA) and structural firefighter's protective clothing will provide limited protection.

In Case of Fire:
- For small fires, use dry chemical, CO_2 or Halon.
- For large fires, use water spray, fog or standard foam.
- Move container from fire area if you can do so without risk.
- Cool containers that are exposed to flames with water from the side until well after fire is out.

Spill or Leak:
- Stop leak if you can do it without risk.

First Aid:
- Move victim to fresh air.
- Call for emergency medical care.
- If NOT breathing, give artificial respiration.
- If victim has difficulty breathing, give oxygen.

- Stay away from ends of tanks.
- Withdraw immediately in case of rising sound from venting safety device or any discoloration of tank due to fire.

SHIPPER (FROM): Tim Hagerty for OMEGA Site PRP Group — DATE: 9/7/95
CARRIER: Cal — CA-680 — DATE: 9/12/95
CONSIGNEE: — DATE: 9/12/95

1

STRAIGHT BILL OF LADING— SHORT FORM

ORIGINAL – NOT NEGOTIABLE

Shipper's No. 1003

Carrier's Name: CF Motor Freight

Carrier's No. CA - 1244

RECEIVED, subject to the classifications and lawfully filed tariffs in effect on the date of the issue of this Bill of lading,

at Omega Chemical Site (Date) ~~Aug~~ 9-1 19 95 FROM 12504 Whittier Whittier CA 90602

the property described below, in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned, and destined as shown below, which said company (the word company being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its own railroad, water line, highway route or routes, or within the territory of its highway operations, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed, as to each carrier of all or any of said property over all or any portion of said route to destination, and as to each party at any time interested in all or any of said property, that every service to be performed hereunder shall be subject to all the terms and conditions of the Uniform Domestic Straight Bill of Lading set forth (1) in the Uniform Freight Classification in effect on the date hereof, if this is a rail or rail-water shipment, or (2) in the applicable motor carrier classification or tariff if this is a motor carrier shipment. Shipper hereby certifies that he is familiar with all the terms and conditions of the said bill of lading, including those on the back thereof, set forth in the classification or tariff which governs the transportation of this shipment, and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns.

Consigned TO CF Motor Freight (Mail or street address for purposes of notification only.)

On Collect on Delivery Shipments, the letters "COD" must appear before consignee's name or as otherwise provided in Item 430, Sec. 1.

Destination Johnstone Supply Street 145 S. Lively City

Elk Grove Village County State IL Zip 60007

Route Delivery Address

Delivering Carrier CF Motor Freight (If To be filled in only when shipper d

Collect on Delivery $ N/A And Remit

Street

PRO NO 741-176564

CF ◆ CC

FLF 29002-17 CIRCLE ONE DEST CODE CFMF

Subject to Section 7 of conditions, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statement:

The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.

N/A

(Signature of consignor.)

). D. Charges to be Paid by ☐ Shipper ☐ Consignee

arges are to be prepaid, write or here, "To be Prepaid."

No. Packages	H.M.	Kind of Package, Description of Articles, Special Marks, and Exceptions		
1	X	Cylinder, Refrigerant Gas, N.O.S.	140 lb	LTL
		(Dichlorodifluoromethane (R-12) and		FRZN 84 Class 70
		Chlorodifluoromethane (R-22)), 2.2,		
		UN 1078; ERG # 12	3rd Party Billing: Bill to	
		Cylinder Serial # PSHCO 1-2604	Consolidated Waste Industries	
		DOT 4BA300 Cyl # [redacted]* NL9	Montclair, CA 91763	

This is to certify that the above named materials are properly classified, described, packaged, marked and labeled, and are in proper condition for transportation according to the applicable regulations of the Department of Transportation.

(The signature here acknowledges only the amount prepaid.)

Charges Advanced:

$ 0

* "The fibre containers used for this shipment conform to the specifications set forth in the box maker's certificate thereon, and all other requirements of Rule 41 of the Uniform Freight Classification and Rule 5 of the National Motor Freight Classification."

† Shipper's imprint in lieu of stamp; not a part of bill of lading approved by the Interstate Commerce Commission.

"If the shipment moves between two ports by a carrier by water, the law requires that the bill of lading shall state whether it is carrier's or shipper's weight.

NOTE — Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property.

The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding N/A per 9-1-95

Jim Henderson

Shipper, Per HLA Agent for Omega Chemical Site PRP Group

Permanent post-office address of shipper, 3 Hutton Centre, #300, Santa Ana CA 92707 (714) 556-7992

ATTN: Jim Carlysis

Agent

Per Johnstone Supply (708) 956-0810

1

STRAIGHT BILL OF LADING— SHORT FORM

ORIGINAL – NOT NEGOTIABLE

Shipper's No. 1004

Carrier's Name: CF Motor Freight

Carrier's No. CA-1244

RECEIVED, subject to the classifications and lawfully filed tariffs in effect on the date of the issue of this Bill of lading,

at Omega Chemical Site (Date) ~~Aug~~ 9-1 19 95 FROM 12504 E. Whittier, Whittier CA 90602

the property described below, in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned, and destined as shown below, which said company (the word company being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its own railroad, water line, highway route or routes, or within the territory of its highway operations, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed, as to each carrier of all or any of said property over all or any portion of said route to destination, and as to each party at any time interested in all or any of said property, that every service to be performed hereunder shall be subject to all the terms and conditions of the Uniform Domestic Straight Bill of Lading set forth (1) in the Uniform Freight Classification in effect on the date hereof, if this is a rail or rail-water shipment, or (2) in the applicable motor carrier classification or tariff if this is a motor carrier shipment. Shipper hereby certifies that he is familiar with all the terms and conditions of the said bill of lading, including those on the back thereof, set forth in the classification or tariff which governs the transportation of this shipment, and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns.

(Mail or street address for purposes of notification only.)

Consigned TO CF Motor Freight

On Collect on Delivery Shipments, the letters "COD" must appear before consignee's name or as otherwise provided in Item 430, Sec. 1.

Destination Hunter Davidson Street 3410 SE 20th Avenue City Portland County State OR 97202 Zip

Route Delivery Address★

(★To be filled in only when shipper desires and governing tariffs provide for d

Delivering Carrier CF Motor Freight Car or Vehicle Initials and

Collect on Delivery $ 0 And Remit to

Street City

Subject to Section 7 of conditions, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statement:
The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.

741-176553

PRO NO | CF | ◆ | CC | CF&F

FLF 29002-17 CIRCLE ONE DEST CODE

No. Packages	H.M.	Kind of Package, Description of Articles, Special Marks, and Exceptions	*Weight (Subject to Correction)	
1	X	Cylinder, Refrigerant Gas, N.O.S.	193 lb.	LTL
		(Dichlorodifluoromethane (R-12) And		Item 86150 Class 70
		Chlorodifluoromethane (R-22)), 2.2,		
		UN 1078 ; ERG #12	3rd Party Billing:	Bill to
		Cylinder Serial # PSMCO 1-58539	Consolidated Waste Industries	
		DOT 4BA300 CyL # NL14	Montclair	CA 91763

This is to certify that the above named materials are properly classified, described, packaged, marked and labeled, and are in proper condition for transportation according to the applicable regulations of the Department of Transportation.

the amount prepaid.)

Charges Advanced:

$

† "The fibre containers used for this shipment conform to the specifications set forth in the box maker's certificate thereon, and all other requirements of Rule 41 of the Uniform Freight Classification and Rule 5 of the National Motor Freight Classification."

† Shipper's imprint in lieu of stamp; not a part of bill of lading approved by the Interstate Commerce Commission.

*If the shipment moves between two ports by a carrier by water, the law requires that the bill of lading shall state whether it is carrier's or shipper's weight.
NOTE — Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property.

The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding per 9-1-95

Jim Harvesty Shipper, Per HLA Agent for OMEGA PRP Group (714) 556-7992

Permanent post-office address of shipper, 3 Hutton Centre #300, Santa Ana CA 92707

CFWY Dr. Lizzarelli ATTN: Dave Wright Agent

Per Hunter Davidson (503) 234-0477

1

961258/967660

3-PART STOCK FORM NO. B-3876

STRAIGHT BILL OF LADING— SHORT FORM

ORIGINAL – NOT NEGOTIABLE

Shipper's No. 1005

Carrier's No. CA -13209

Carrier's Name: Sims Welding

RECEIVED, subject to the classifications and lawfully filed tariffs in effect on the date of the issue of this Bill of lading,

at OMEGA CHEMICAL Site (Date) 9-1 19 95 FROM 12504 E. Whittier Whittier CA 90602

the property described below, in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned, and destined as shown below, which said company (the word company being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its own railroad, water line, highway route or routes, or within the territory of its highway operations, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed, as to each carrier of all or any of said property over all or any portion of said route to destination, and as to each party at any time interested in all or any of said property, that every service to be performed hereunder shall be subject to all the terms and conditions of the Uniform Domestic Straight Bill of Lading set forth (1) in the Uniform Freight Classification in effect on the date hereof, if this is a rail or rail-water shipment, or (2) in the applicable motor carrier classification or tariff if this is a motor carrier shipment. Shipper hereby certifies that he is familiar with all the terms and conditions of the said bill of lading, including those on the back thereof, set forth in the classification or tariff which governs the transportation of this shipment, and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns.

(Mail or street address for purposes of notification only.)

Consigned TO Sims Welding

On Collect on Delivery Shipments, the letters "COD" must appear before consignee's name or as otherwise provided in Item 430, Sec. 1.

Destination Sims Welding Street 18903 S. Main City Gardena County Los Angeles State CA Zip 90248

Route Direct Delivery Address ★

(★To be filled in only when shipper desires and governing tariffs provide for delivery thereat.)

Delivering Carrier Sims Welding's Car or Vehicle Initials and No.

Collect on Delivery $ 0 And Remit to

Street City State

No. Packages	H.M.	Kind of Package, Description of Articles, Special Marks, and Exceptions	*Weight (Subject to Correction)	Class or Rate	Check Column
1	X	Cylinder Argon, Compressed, 2.2, UN1006 ERG #12, Serial #12673, NL #6	Transferred to 1506		

*If the shipment moves between two ports by a carrier by water, the law requires that the bill of lading shall state whether it is carrier's or shipper's weight.

NOTE — Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property.

The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding per

Shipper, Per

Permanent post-office address of shipper.

Agent

Per

Subject to Section 7 of conditions, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statement:

The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.

(Signature of consignor.)

C. O. D. Charges to be Paid by ☐ Shipper ☐ Consignee

If charges are to be prepaid, write or stamp here, "To be Prepaid."

Received $ to apply in prepayment of the charges on the property described hereon.

Agent or Cashier

Per (The signature here acknowledges only the amount prepaid.)

Charges Advanced:

$

† "The fibre containers used for this shipment conform to the specifications set forth in the box maker's certificate thereon, and all other requirements of Rule 41 of the Uniform Freight Classification and Rule 5 of the National Motor Freight Classification."

† Shipper's imprint in lieu of stamp; not a part of bill of lading approved by the Interstate Commerce Commission.

1

STRAIGHT BILL OF LADING— SHORT FORM

ORIGINAL – NOT NEGOTIABLE

Shipper's No. 1006

Carrier's Name: Haz Mat Services

Carrier's No. N/A

RECEIVED, subject to the classifications and lawfully filed tariffs in effect on the date of the issue of this Bill of lading,

at Omega Chemical Site PRP Group (Date) 9-13 19 95 FROM 12504 E. Whittier Whittier CA 90602

the property described below, in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned, and destined as shown below, which said company (the word company being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its own railroad, water line, highway route or routes, or within the territory of its highway operations, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed, as to each carrier of all or any of said property over all or any portion of said route to destination, and as to each party at any time interested in all or any of said property, that every service to be performed hereunder shall be subject to all the terms and conditions of the Uniform Domestic Straight Bill of Lading set forth (1) in the Uniform Freight Classification in effect on the date hereof, if this is a rail or rail-water shipment, or (2) in the applicable motor carrier classification or tariff if this is a motor carrier shipment. Shipper hereby certifies that he is familiar with all the terms and conditions of the said bill of lading, including those on the back thereof, set forth in the classification or tariff which governs the transportation of this shipment, and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns.

(Mail or street address for purposes of notification only.)

Consigned TO United Refrigeration

On Collect on Delivery Shipments, the letters "COD" must appear before consignee's name or as otherwise provided in Item 430, Sec. 1.

Destination 16924 Marquardt Street Cerritos City

Los Angeles County CA State 90701 Zip

Route Direct Delivery Address ★

(★To be filled in only when shipper desires and governing tariffs provide for delivery thereat.)

Delivering Carrier Haz Mat Services Car or Vehicle Initials and No.

Collect on Delivery $ 0 And Remit to

Street City State

No. Packages	H.M.	Kind of Package, Description of Articles, Special Marks, and Exceptions	*Weight (Subject to Correction)	Class or Rate	Check Column
1	X	1 cyl. Chlorotrifluoromethane (R-13),	155 lb.	Class 70 86150	
		2.2, UN 1022			
		Serial # 1-2716 Sims Welding			
		This is to certify that the above named materials are properly classified, described, packaged, marked and labeled, and are in proper condition for transportation according to the applicable regulations of the Department of Transportation.			

*If the shipment moves between two ports by a carrier by water, the law requires that the bill of lading shall state whether it is carrier's or shipper's weight.
NOTE — Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property.

The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding per

Jim Hardesty Employed by Harding Lawson Associates, Agent
Jim Hardesty Shipper, Per for OMEGA Chemical Site PRP

Permanent post-office address of shipper. Harding Lawson Assoc., 3 Hutton Centre #300, Santa Ana CA 92707

Glen Achterhof Agent

Per United Refrigeration

310-926-6611

Subject to Section 7 of conditions, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statement:
The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.

(Signature of consignor.)

C. O. D. Charges to be Paid by ☐ Shipper ☐ Consignee

If charges are to be prepaid, write or stamp here, "To be Prepaid."

Received $ 0 to apply in prepayment of the charges on the property described hereon.

Agent or Cashier

Per
(The signature here acknowledges only the amount prepaid.)

Charges Advanced:

$ 0

† "The fibre containers used for this shipment conform to the specifications set forth in the box maker's certificate thereon, and all other requirements of Rule 41 of the Uniform Freight Classification and Rule 6 of the National Motor Freight Classification."
† Shipper's imprint in lieu of stamp; not a part of bill of lading approved by the Interstate Commerce Commission.

1

STRAIGHT BILL OF LADING— SHORT FORM ORIGINAL – NOT NEGOTIABLE Shipper's No. 1007

Carrier's Name: Haz Mat Services Carrier's No. N/A

RECEIVED, subject to the classifications and lawfully filed tariffs in effect on the date of the issue of this Bill of lading,

at Omega Chemical Site PRP Group (Date) 9-13 19 95 FROM 12504 E. Whittier Blvd, Whittier CA 90602

the property described below, in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned, and destined as shown below, which said company (the word company being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its own railroad, water line, highway route or routes, or within the territory of its highway operations, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed, as to each carrier of all or any of said property over all or any portion of said route to destination, and as to each party at any time interested in all or any of said property, that every service to be performed hereunder shall be subject to all the terms and conditions of the Uniform Domestic Straight Bill of Lading set forth (1) in the Uniform Freight Classification in effect on the date hereof, if this is a rail or rail-water shipment, or (2) in the applicable motor carrier classification or tariff if this is a motor carrier shipment. Shipper hereby certifies that he is familiar with all the terms and conditions of the said bill of lading, including those on the back thereof, set forth in the classification or tariff which governs the transportation of this shipment, and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns.

Consigned TO Matheson Gas Products (Mail or street address for purposes of notification only.)

On Collect on Delivery Shipments, the letters "COD" must appear before consignee's name or as otherwise provided in Item 430, Sec. 1.

Destination 8800 Utica Ave. Street Cucamonga City

San Bernardino County CA State 91730 Zip

Route Direct Delivery Address ★

(★To be filled in only when shipper desires and governing tariffs provide for delivery thereat.)

Delivering Carrier Haz Mat Services Car or Vehicle Initials and No.

Collect on Delivery $ 0 And Remit to

Street City State

Subject to Section 7 of conditions, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statement:

The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.

(Signature of consignor.)

C. O. D. Charges to be Paid by ☐ Shipper ☐ Consignee

If charges are to be prepaid, write or stamp here, "To be Prepaid."

N/A

Received $ 0 to apply in prepayment of the charges on the property described hereon.

Agent or Cashier

No. Packages	H.M.	Kind of Package, Description of Articles, Special Marks, and Exceptions	*Weight (Subject to Correction)	Class or Rate	Check Column
1	X	Fiberboard Box, ~~Refrigerated~~ Compressed Gases, N.O.S. (Tetrafluoromethane and Bromotrifluoromethane), 2.2, UN ~~1078~~ 1956	15 lb	CLASS 70 ITEM 86150	

This is to certify that the above named materials are properly classified, described, packaged, marked and labeled, and are in proper condition for transportation according to the applicable regulations of the Department of Transportation.

(Signature here acknowledges only amount prepaid.)

Charges Advanced: $ 0

The fibre containers used for this shipment conform to the specifications set forth in the box maker's certificate thereon, and all other requirements of Rule 41 of the Uniform Freight Classification and Rule 5 of the National Motor Freight Classification."

Shipper's imprint in lieu of stamp; not a part of bill of lading approved by the Interstate Commerce Commission.

*If the shipment moves between two ports by a carrier by water, the law requires that the bill of lading shall state whether it is carrier's or shipper's weight.

NOTE — Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property.

The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding

Jim Hardesty Employed by Harding Lawson Associates Agent for Shipper, Per Omega Chemical Site PRP Group

Agent

Permanent post-office address of shipper, Harding Lawson Associates, 3 Hutton Centre #300, Santa Ana CA 92707 Per Matheson Gas Products.

1

STRAIGHT BILL OF LADING— SHORT FORM

ORIGINAL – NOT NEGOTIABLE

Shipper's No. 1008

Carrier's Name: Conway Western Express

Carrier's No. CA-2806

RECEIVED, subject to the classifications and lawfully filed tariffs in effect on the date of the issue of this Bill of lading,

at Omega Chemical Site PRP Group (Date) 9-13 1995 FROM 12504. E. Whittier Blvd., Whittier CA 90602

the property described below, in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned, and destined as shown below, which said company (the word company being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its own railroad, water line, highway route or routes, or within the territory of its highway operations, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed, as to each carrier of all or any of said property over all or any portion of said route to destination, and as to each party at any time interested in all or any of said property, that every service to be performed hereunder shall be subject to all the terms and conditions of the Uniform Domestic Straight Bill of Lading set forth (1) in the Uniform Freight Classification in effect on the date hereof, if this is a rail or rail-water shipment, or (2) in the applicable motor carrier classification or tariff if this is a motor carrier shipment. Shipper hereby certifies that he is familiar with all the terms and conditions of the said bill of lading, including those on the back thereof, set forth in the classification or tariff which governs the transportation of this shipment, and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns.

(Mail or street address for purposes of notification only.)

Consigned TO Dupont

On Collect on Delivery Shipments, the letters "COD" must appear before consignee's name or as otherwise provided in Item 430, Sec. 1.

Destination 6000 Bridgehead Street Antioch City

County CA State 94509 Zip

Route Direct Delivery Address ★

(★To be filled in only when shipper desires and governing tariffs provide for delivery thereat.)

Delivering Carrier Conway Western Express Car or Vehicle Initials and No.

Collect on Delivery $ 0 And Remit to N/A

Street City State

No. Packages	H.M.	Kind of Package, Description of Articles, Special Marks, and Exceptions	*Weight (Subject to Correction)	Class or Rate	Check Column
1	X	1 Fiberboard box w/ NRC 260 / DOT 39	15 lb	CLASS 70 DFEM 86150	
		Chlorodifluoromethane (R-22), 2.2,			
		UN 1018 (Serial No WT 6224A)		Paid CK #661	

This is to certify that the above named materials are properly classified, described, packaged, marked and labeled, and are in proper condition for transportation according to the applicable regulations of the Department of Transportation.

SIS

Subject to Section 7 of conditions, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statement:

The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.

N/A

(Signature of consignor.)

C. O. D. Charges to be Paid by ☒ Shipper ☐ Consignee

If charges are to be prepaid, write or stamp here, "To be Prepaid."

Received $ 76.63 to apply in prepayment of the charges on the property described hereon.

Agent or Cashier

Per

(The signature here acknowledges only the amount prepaid.)

PRO NO. 624-929513

CC CW

CIRCLE ONE 28002-1G DEST CODE CWWE

*If the shipment moves between two ports by a carrier by water, the law requires that the bill of lading shall state whether it is carrier's or shipper's

NOTE — Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property.

The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding

Jim Hardesty employed by Harding Lawson Associates, Agent for

Jim Hardesty Shipper, Per OMEGA Chemical Site PRP

HARDING LAWSON

Permanent post-office address of shipper. 3 Hutton Center #300, Santa Ana CA 92707

ATTN. BOB NUNES 9/13/95 Agent

Per Dupont (510) 799-6371

1

Coleman Printing Companies, Inc. • Houston, Texas • (713)496-6599

RRCA

STRAIGHT BILL OF LADING
ORIGINAL - NOT NEGOTIABLE

☐ COLLECT
☒ PREPAID
☐ BILL TO: RRCA
5121 MARYLAND WAY
BRENTWOOD, TN 37027

DATE SHIPPED: 9-14-95 | VIA: | PRO #: 1009 | DATE DUE: 9-18-95

SHIP TO
COMPANY: Full Cycle Global
ADDRESS: 121 S. Norwood
CITY: Ft. Worth | STATE: TX | ZIP CODE: 76053
CONTACT: Paula Dye | PHONE NO.: (504) 644 5303

FROM
COMPANY: Omega Chemical Site PRP Group
ADDRESS: 12504 E. Whittier Blvd.
CITY: Whittier | STATE: CA | ZIP CODE: 90602
QUOTED RATE: $ 0.00 | JOB / REF. #:

HM*	NO. (UNIT)	CYLINDER SIZE	PRODUCT DESCRIPTION		HAZARD CLASS	DOT I.D.	DOT CLASS	PRODUCT WEIGHT	GROSS WEIGHT
			DICHLORODIFLUOROMETHANE (R-12)	☐ USED ☐ RECLAIMED	2.2	UN1028	70	26080	9-21-95
X	1	EUROTANK 4500G	CHLORODIFLUOROMETHANE (R-22)	☒ USED ☐ RECLAIMED	2.2	UN1018	70	~~33,650~~	51,340
			TETRAFLUOROETHANE (R-134a)	☐ USED ☐ RECLAIMED	2.2	UN1078	70		
			DICHLORODIFLUOROMETHANE/ DIFLUOROETHANE (R-500)	☐ USED ☐ RECLAIMED	2.2	UN2602	70		
			CHLORODIFLUOROMETHANE/ CHLOROPENTAFLUOROETHANE (R-502)	☐ USED ☐ RECLAIMED	2.2	UN1973	70		
			DICHLOROTETRAFLUOROETHANE (R-114)	☐ USED ☐ RECLAIMED	2.2	UN1958	70		
			OTHER (SPECIFY):	☐ USED ☐ RECLAIMED		UN1978			
			NON-REGULATED (RQ 5,000 LBS.) TRICHLOROFLUOROMETHANE (R-11)	☐ USED ☐ RECLAIMED	ORM-E	UN3082	70		
			DOT 51/1MOS AAR600						
			CARRIER: EUROTAILER (RRCA)						
			(504) 833-1033 (504) 833-1485 Fax						
			Vehicle ID: SECS 122139 3	Max. wt.	49510				

This is to certify that the above named materials are properly classified, described, packaged, marked, and labeled, and are in proper condition for transportation according to the applicable regulations of the Department of Transportation.

[signature] Signature

Received, subject to the classifications and lawfully filed tariffs in effect on the date of the issue of this Bill of Lading, the property described above and in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned, and destined, as indicated above which said Carrier (the word Carrier being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery of said destination. If on its route, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed as to each carrier of all or any of said property over all or any portion of said route to destination and as to each party at any time interested in all or any of said property, that every service to be performed hereunder shall be subject to all conditions not prohibited by law, whether printed or written, herein contained, including the conditions on the back hereof, which are hereby agreed to by the shipper and accepted for himself and assigns.

EMERGENCY CONTACT: 1-800-488-7722

FREIGHT CHARGES ARE PREPAID UNLESS MARKED COLLECT. CHECK BOX IF CHARGES ARE COLLECT ☐

TOTAL CHARGES $

DOT EMERGENCY RESPONSE PROCEDURES FOR REFRIGERANT GAS N.O.S.

POTENTIAL HAZARDS:

Fire or Explosion: Some of these materials may burn, but none of them ignites readily. Cylinder may explode in heat or fire.

Health Hazards: Vapors may cause dizziness or suffocation. Contact with liquid may cause frostbite. Fire may produce irritating or poisonous gases.

EMERGENCY ACTION:
- Keep unnecessary people away; isolate hazard area and deny entry.
- Stay upwind; keep out of low areas.
- Self-contained breathing apparatus (SCBA) and structural firefighter's protective clothing will provide limited protection.

In Case of Fire:
- For small fires, use dry chemical, CO2 or Halon.
- For large fires, use water spray, fog or standard foam.
- Move container from fire area if you can do so without risk.
- Cool containers that are exposed to flames with water from the side until well after fire is out.
- Stay away from ends of tanks.
- Withdraw immediately in case of rising sound from venting safety devide or any discoloration of tank due to fire.

Spill or Leak:
- Stop leak if you can do it without risk.

First Aid:
- Move victim to fresh air.
- Call for emergency medical care.
- If NOT breathing, give artificial respiration.
- If victim has difficulty breathing, give oxygen.

SHIPPER (FROM): [signature] EMPLOYED BY HLA, AGENT FOR OMEGA CHEMICAL SITE PRP GROUP — DATE: 9-14-95

CARRIER: — DATE:

CONSIGNEE (TO): [signature] — DATE: 9-18-95

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APPENDIX L

WIND LOG

Omega Chemical Site
Wind Log

Date	Average Wind Velocity (mph)	Max Wind Velocity (mph)	Predominant Direction
6/27/95	<1	4	West
6/28/95	<1	4	West
6/29/95	<1	<1	Variable
6/30/95	<1	5	Northwest
7/3/95	<1	5	West
7/4/95	2	5	West
7/5/95	<1	5	West
7/6/95	3	5	Northwest
7/7/95	3	5	Northwest
7/10/95	3	7	West
7/11/95	3	5	North
7/12/95	2	5	South
7/13/95	2	4	South-Southwest
7/14/95	3	5	West
7/17/95	2	4	South
7/18/95	2	3	South
7/19/95	2	3	West
7/20/95	2	3	Southwest
7/21/95	2	2	East
7/24/95	2	3	Northeast
7/25/95	2	3	Northeast
7/26/95	2	3	East
7/27/95	2	3	East-Northeast
7/28/95	2	3	East-Northeast
7/31/95	2	2	Northeast
8/1/95	2	3	East
8/2/95	2	3	East
8/3/95	2	2	Northeast
8/4/95	<1	2	Northwest
8/7/95	1	2	Northwest

Omega Chemical Site
Wind Log (continued)

Date	Average Wind Velocity (mph)	Max Wind Velocity (mph)	Predominant Direction
8/8/95	1	2	Northwest
8/9/95	1	1	Variable
8/10/95	1	1	Northeast
8/11/95	1	1	Variable
8/14/95	1	2	West
8/15/95	1	2	North
8/16/95	1	2	West
8/17/95	1	2	Variable to West
8/18/95	1	2	Northeast
8/21/95	2	3	West
8/22/95	1	2	West
8/23/95	1	2	Northwest
8/24/95	1	2	West
8/25/95	1	2	North
8/28/95	1	2	West
8/29/95	1	2	Northwest
8/30/95	1	2	Northwest
8/31/95	1	2	West
9/1/95	1	2	West
9/4/95	1	2	West
9/5/95	1	2	West
9/6/95	1	2	West
9/7/95	1	2	Northwest
9/8/95	1	2	West
9/11/95	1	2	West
9/12/95	1	2	Northwest
9/13/95	1	2	West
9/14/95	1	2	West

APPENDIX M

ANALYTICAL DATA - AMBIENT AIR

PHONE (714) 751-3210 FAX (714) 751-6414

2960 AIRWAY AVENUE, SUITE B-101 COSTA MESA, CALIFORNIA 92626

AAI RFS# : 9520201

August 17, 1995

Harding Lawson Associates
3 Hutton Centre Drive, Suite 200
Santa Ana, CA 92727

Project Name: Omega Chemical
Project # : 32026.04

Attention: Andrew Keller

Apollo Analytics Inc., has received the following sample(s):

Date Received	Quantity	Matrix
July 21, 1995	2	Air/Tedlar

The samples received were analyzed for volatile organics by GC/MS using EPA method TO-14.

The results of these analyses and the quality control are enclosed. The symbol for "less than" indicates a value below the reportable detection limit. If you have any questions please do not hesitate to call.

Robert Richardson
Laboratory Manager

VOLATILE ORGANIC ANALYSIS

CLIENT NAME:	Harding Lawson Associates	**CLIENT SAMPLE ID:**	EP-1
PROJECT #:	32026.04	**AAI RFS#**	9520201
PROJECT NAME:	Omega Chemical	**AAI ID#:**	9520201-001
MATRIX:	Air/Tedlar		
SAMPLE VOLUME:	0.5 L	**DATE SAMPLED:**	7/21/95
INITIAL PRESSURE:	1.00 psia	**DATE RECEIVED:**	7/21/95
FINAL PRESSURE:	1.00 psia	**DATE ANALYZED:**	7/29/95
PRES. DILUTION :	1.00		
DILUTION FACTOR:	1	**ANALYTICAL METHOD:**	EPA TO14 (GC/MS)

CAS NUMBER	COMPOUND	CONCENTRATION ug/m3	CONCENTRATION ppb(v)
74-87-3	Chloromethane	ND< 10	ND< 4.8
74-83-9	Bromomethane	ND< 10	ND< 2.6
75-01-04	Vinyl Chloride	ND< 10	ND< 3.9
75-00-3	Chloroethane	ND< 10	ND< 3.8
75-69-4	Freon 11	ND< 10	ND< 1.8
75-35-4	1,1-Dichloroethene	ND< 10	ND< 2.5
76-13-1	Freon 113	ND< 10	ND< 1.3
67-64-1	Acetone	32	13
75-09-2	Methylene Chloride	ND< 10	ND< 2.9
75-35-3	1,1-Dichloroethane	ND< 10	ND< 2.5
156-60-5	trans-1,2-Dichloroethene	ND< 10	ND< 2.5
156-59-2	cis-1,2-Dichloroethene	ND< 10	ND< 2.5
67-66-3	Chloroform	ND< 10	ND< 2.0
78-93-3	2-Butanone	145	49
71-55-6	1,1,1-Trichloroethane	ND< 10	ND< 1.8
56-23-5	Carbon Tetrachloride	ND< 10	ND< 1.6
71-43-2	Benzene	ND< 10	ND< 3.1
107-06-2	1,2-Dichloroethane	ND< 10	ND< 2.5
79-01-6	Trichloroethene	ND< 10	ND< 1.9
78-87-5	1,2-Dichloropropane	ND< 10	ND< 2.2
10061-02-6	trans-1,3-Dichloropropene	ND< 10	ND< 2.2
108-10-1	4-methyl-2-pentanone	580	140
108-88-3	Toluene	46	12
591-78-6	2-Hexanone	13	3.0
10061-01-5	cis-1,3-Dichloropropene	ND< 10	ND< 2.2
79-00-5	1,1,2-Trichloroethane	ND< 10	ND< 1.8
127-18-4	Tetrachloroethene	ND< 10	ND< 1.5
106-93-4	Ethylene Dibromide	ND< 10	ND< 1.3
108-90-7	Chlorobenzene	ND< 10	ND< 2.2
100-41-4	Ethylbenzene	ND< 10	ND< 2.3
1330-20-7	m,p-Xylene	19	4.0
95-47-6	o-Xylene	ND< 10	ND< 2.3
100-42-5	Styrene	ND< 10	ND< 2.3
79-34-5	1,1,2,2-Tetrachlorethane	ND< 10	ND< 1.5
108-67-8	1,3,5-Trimethyl Benzene	ND< 10	ND< 2.0
95-63-6	1,2,4-Trimethyl Benzene	ND< 10	ND< 2.0
541-73-1	1,3-Dichlorobenzene	ND< 10	ND< 1.7
106-46-7	1,4-Dichlorobenzene	ND< 10	ND< 1.7
100-44-7	Chlorotoluene	ND< 10	ND< 1.9
95-50-1	1,2-Dichlorobenzene	ND< 10	ND< 1.7
120-82-1	1,2,4-Trichlorobenzene	ND< 10	ND< 1.3
87-68-3	Hexachlorobutadiene	ND< 10	ND< 0.9

Surrogate Recovery	% Recovery	QC Limits
1,2-Dichloroethane-D4 (SS1)	104	70-130
Toluene-d8 (SS2)	85	70-130
4- Bromofluorobenzene (SS3)	91	70-130

ND- Not detected
TR - Trace

VOLATILE ORGANIC ANALYSIS

CLIENT NAME:	Harding Lawson Associates	**CLIENT SAMPLE ID:**	WP-1
PROJECT #:	32026.04	**AAI RFS#**	9520201
PROJECT NAME:	Omega Chemical	**AAI ID#:**	9520201-002
MATRIX:	Air/Tedlar		
SAMPLE VOLUME:	0.5 L	**DATE SAMPLED:**	7/21/95
INITIAL PRESSURE:	1.00 psia	**DATE RECEIVED:**	7/21/95
FINAL PRESSURE:	1.00 psia	**DATE ANALYZED:**	7/29/95
PRES. DILUTION :	1.00		
DILUTION FACTOR:	1	**ANALYTICAL METHOD:**	EPA TO14 (GC/MS)

CAS NUMBER	COMPOUND	CONCENTRATION ug/m3	CONCENTRATION ppb(v)
74-87-3	Chloromethane	ND < 10	ND < 4.8
74-83-9	Bromomethane	ND < 10	ND < 2.6
75-01-04	Vinyl Chloride	ND < 10	ND < 3.9
75-00-3	Chloroethane	ND < 10	ND < 3.8
75-69-4	Freon 11	ND < 10	ND < 1.8
75-35-4	1,1-Dichloroethene	ND < 10	ND < 2.5
76-13-1	Freon 113	ND < 10	ND < 1.3
67-64-1	Acetone	23	10
75-09-2	Methylene Chloride	1500	440
75-35-3	1,1-Dichloroethane	ND < 10	ND < 2.5
156-60-5	trans-1,2-Dichloroethene	ND < 10	ND < 2.5
156-59-2	cis-1,2-Dichloroethene	ND < 10	ND < 2.5
67-66-3	Chloroform	ND < 10	ND < 2.0
78-93-3	2-Butanone	42	14
71-55-6	1,1,1-Trichloroethane	110	20
56-23-5	Carbon Tetrachloride	ND < 10	ND < 1.6
71-43-2	Benzene	ND < 10	ND < 3.1
107-06-2	1,2-Dichloroethane	ND < 10	ND < 2.5
79-01-6	Trichloroethene	ND < 10	ND < 1.9
78-87-5	1,2-Dichloropropane	ND < 10	ND < 2.2
10061-02-6	trans-1,3-Dichloropropene	ND < 10	ND < 2.2
108-10-1	4-methyl-2-pentanone	44	11
108-88-3	Toluene	83	22
591-78-6	2-Hexanone	ND < 10	ND < 2.4
10061-01-5	cis-1,3-Dichloropropene	ND < 10	ND < 2.2
79-00-5	1,1,2-Trichloroethane	ND < 10	ND < 1.8
127-18-4	Tetrachloroethene	41	6.0
106-93-4	Ethylene Dibromide	ND < 10	ND < 1.3
108-90-7	Chlorobenzene	ND < 10	ND < 2.2
100-41-4	Ethylbenzene	10	2.3
1330-20-7	m,p-Xylene	31	7.0
95-47-6	o-Xylene	10	2.3
100-42-5	Styrene	ND < 10	ND < 2.3
79-34-5	1,1,2,2-Tetrachlorethane	ND < 10	ND < 1.5
108-67-8	1,3,5-Trimethyl Benzene	ND < 10	ND < 2.0
95-63-6	1,2,4-Trimethyl Benzene	ND < 10	ND < 2.0
541-73-1	1,3-Dichlorobenzene	ND < 10	ND < 1.7
106-46-7	1,4-Dichlorobenzene	ND < 10	ND < 1.7
100-44-7	Chlorotoluene	ND < 10	ND < 1.9
95-50-1	1,2-Dichlorobenzene	ND < 10	ND < 1.7
120-82-1	1,2,4-Trichlorobenzene	ND < 10	ND < 1.3
87-68-3	Hexachlorobutadiene	ND < 10	ND < 0.9

Surrogate Recovery	% Recovery	QC Limits
1,2-Dichloroethane-D4 (SS1)	81	70-130
Toluene-d8 (SS2)	94	70-130
4- Bromofluorobenzene (SS3)	74	70-130

ND- Not detected
TR - Trace

VOLATILE ORGANIC ANALYSIS

CLIENT NAME:	Harding Lawson Associates	**CLIENT SAMPLE ID:**	METHOD BLANK
PROJECT #:	32026.04	**AAI RFS#**	9520201
PROJECT NAME:	Omega Chemical	**AAI ID#:**	METHOD BLANK
MATRIX:	Air/Tedlar		
SAMPLE VOLUME:	0.5 L	**DATE SAMPLED:**	NA
INITIAL PRESSURE:	1.00 psia	**DATE RECEIVED:**	NA
FINAL PRESSURE:	1.00 psia	**DATE ANALYZED:**	7/29/95
PRES. DILUTION :	1.00		
DILUTION FACTOR:	1	**ANALYTICAL METHOD:**	EPA TO14 (GC/MS)

CAS NUMBER	COMPOUND	CONCENTRATION ug/m3	CONCENTRATION ppb(v)
74-87-3	Chloromethane	ND< 10	ND< 4.8
74-83-9	Bromomethane	ND< 10	ND< 2.6
75-01-04	Vinyl Chloride	ND< 10	ND< 3.9
75-00-3	Chloroethane	ND< 10	ND< 3.8
75-69-4	Freon 11	ND< 10	ND< 1.8
75-35-4	1,1-Dichloroethene	ND< 10	ND< 2.5
76-13-1	Freon 113	ND< 10	ND< 1.3
67-64-1	Acetone	ND< 10	ND< 4.2
75-09-2	Methylene Chloride	ND< 10	ND< 2.9
75-35-3	1,1-Dichloroethane	ND< 10	ND< 2.5
156-60-5	trans-1,2-Dichloroethene	ND< 10	ND< 2.5
156-59-2	cis-1,2-Dichloroethene	ND< 10	ND< 2.5
67-66-3	Chloroform	ND< 10	ND< 2.0
78-93-3	2-Butanone	ND< 10	ND< 3.4
71-55-6	1,1,1-Trichloroethane	ND< 10	ND< 1.8
56-23-5	Carbon Tetrachloride	ND< 10	ND< 1.6
71-43-2	Benzene	ND< 10	ND< 3.1
107-06-2	1,2-Dichloroethane	ND< 10	ND< 2.5
79-01-6	Trichloroethene	ND< 10	ND< 1.9
78-87-5	1,2-Dichloropropane	ND< 10	ND< 2.2
10061-02-6	trans-1,3-Dichloropropene	ND< 10	ND< 2.2
108-10-1	4-methyl-2-pentanone	ND< 10	ND< 2.4
108-88-3	Toluene	ND< 10	ND< 2.7
591-78-6	2-Hexanone	ND< 10	ND< 2.4
10061-01-5	cis-1,3-Dichloropropene	ND< 10	ND< 2.2
79-00-5	1,1,2-Trichloroethane	ND< 10	ND< 1.8
127-18-4	Tetrachloroethene	ND< 10	ND< 1.5
106-93-4	Ethylene Dibromide	ND< 10	ND< 1.3
108-90-7	Chlorobenzene	ND< 10	ND< 2.2
100-41-4	Ethylbenzene	ND< 10	ND< 2.3
1330-20-7	m,p-Xylene	ND< 10	ND< 2.3
95-47-6	o-Xylene	ND< 10	ND< 2.3
100-42-5	Styrene	ND< 10	ND< 2.3
79-34-5	1,1,2,2-Tetrachlorethane	ND< 10	ND< 1.5
108-67-8	1,3,5-Trimethyl Benzene	ND< 10	ND< 2.0
95-63-6	1,2,4-Trimethyl Benzene	ND< 10	ND< 2.0
541-73-1	1,3-Dichlorobenzene	ND< 10	ND< 1.7
106-46-7	1,4-Dichlorobenzene	ND< 10	ND< 1.7
100-44-7	Chlorotoluene	ND< 10	ND< 1.9
95-50-1	1,2-Dichlorobenzene	ND< 10	ND< 1.7
120-82-1	1,2,4-Trichlorobenzene	ND< 10	ND< 1.3
87-68-3	Hexachlorobutadiene	ND< 10	ND< 0.9

Surrogate Recovery	% Recovery	QC Limits
1,2-Dichloroethane-D4 (SS1)	88	70-130
Toluene-d8 (SS2)	115	70-130
4- Bromofluorobenzene (SS3)	70	70-130

ND- Not detected
TR - Trace

AAL # 9520201

H[illegible]g Lawson Associates
3[illegible]ing Oaks Drive, Suite 100
Thousand Oaks, CA 91361
(805) 494-7725 • (805) 494-8386 FAX

CHAIN OF [illegible]STODY FORM

Lab: Apollo Anal[illegible]cs

Samplers: JFC

Job Number: 32026.04

Name/Location: Omega Chemical/Whittier, Ca

Project Manager: Andrew Keller

Recorder: John Coffman (Signature Required)

	SOURCE CODE	MATRIX: Air	Water	Sediment	Soil	Oil	# CONTAINERS & PRESERV.: Unpres.	H_2SO_4	HNO_3	HCL	Ice	1-Summa	SAMPLE NUMBER OR LAB NUMBER: Yr	Wk	Seq	DATE: Yr	Mo	Day	Time	STATION DESCRIPTION/ NOTES	EPA 601/8010	EPA 602/8020	EPA 624/8240	EPA 625/8270	METALS	EPA 8015M/TPHg	EPA 8020/BTEX	EPA 8015M/TPHd,o	ADHS BLS-181	EPA T014
001	61	X											EP	-1		95	07	21	0700	Summa Canister										X
002	61	X											WP	-1		95	07	21	0705	" "										X

ANALYSIS REQUESTED

LAB NUMBER: Yr	Wk	Seq	DEPTH IN FEET	COL MTD CD	QA CODE	MISCELLANEOUS

CHAIN OF CUSTODY RECORD

RELINQUISHED BY: (Signature)	RECEIVED BY: (Signature)	DATE/TIME
Beth Wilcox 7/21/95	[signature]	7/21/95 10 AM
RELINQUISHED BY: (Signature)	RECEIVED BY: (Signature)	DATE/TIME
RELINQUISHED BY: (Signature)	RECEIVED BY: (Signature)	DATE/TIME
RELINQUISHED BY: (Signature)	RECEIVED BY: (Signature)	DATE/TIME
DISPATCHED BY: (Signature) DATE/TIME	RECEIVED FOR LAB BY: (Signature)	DATE/TIME

METHOD OF SHIPMENT

SAMPLE CONDITION WHEN RECEIVED BY THE LABORATORY

Laboratory Copy White | Project Office Copy Yellow | Field or Office Copy Pink

PHONE (714) 751-3210 FAX (714) 751-6414

2960 AIRWAY AVENUE, SUITE B-101 COSTA MESA, CALIFORNIA 92626

AAI RFS# : 9522003

August 17, 1995

Harding Lawson Associates
3 Hutton Centre Drive, Suite 200
Santa Ana, CA 92727

Project Name: Omega Chemical
Project # : 32026.04

Attention: Andrew Keller

Apollo Analytics Inc., has received the following sample(s):

Date Received	Quantity	Matrix
August 8, 1995	2	Air/Tedlar

The samples received were analyzed for volatile organics by GC/MS using EPA method TO-14.

The results of these analyses and the quality control are enclosed. The symbol for "less than" indicates a value below the reportable detection limit. If you have any questions please do not hesitate to call.

Robert Richardson

Robert Richardson
Laboratory Manager

VOLATILE ORGANIC ANALYSIS

CLIENT NAME:	Harding Lawson Associates	**CLIENT SAMPLE ID:**	EP-2
PROJECT #:	32026.04	**AAI RFS#**	9522003
PROJECT NAME:	Omega Chemical	**AAI ID#:**	9522003-001
MATRIX:	Air/Tedlar		
SAMPLE VOLUME:	0.5 L	**DATE SAMPLED:**	8/8/95
INITIAL PRESSURE:	1.00 psia	**DATE RECEIVED:**	8/8/95
FINAL PRESSURE:	1.00 psia	**DATE ANALYZED:**	8/10/95
PRES. DILUTION :	1.00		
DILUTION FACTOR:	1	**ANALYTICAL METHOD:**	EPA TO14 (GC/MS)

CAS NUMBER	COMPOUND	CONCENTRATION ug/m3	CONCENTRATION ppb(v)
74-87-3	Chloromethane	ND< 10	ND< 4.8
74-83-9	Bromomethane	ND< 10	ND< 2.6
75-01-04	Vinyl Chloride	ND< 10	ND< 3.9
75-00-3	Chloroethane	ND< 10	ND< 3.8
75-69-4	Freon 11	ND< 10	ND< 1.8
75-35-4	1,1-Dichloroethene	ND< 10	ND< 2.5
76-13-1	Freon 113	ND< 10	ND< 1.3
67-64-1	Acetone	13	6.0
75-09-2	Methylene Chloride	31	9.0
75-35-3	1,1-Dichloroethane	ND< 10	ND< 2.5
156-60-5	trans-1,2-Dichloroethene	ND< 10	ND< 2.5
156-59-2	cis-1,2-Dichloroethene	ND< 10	ND< 2.5
67-66-3	Chloroform	ND< 10	ND< 2.0
78-93-3	2-Butanone	ND< 10	ND< 3.4
71-55-6	1,1,1-Trichloroethane	ND< 10	ND< 1.8
56-23-5	Carbon Tetrachloride	ND< 10	ND< 1.6
71-43-2	Benzene	ND< 10	ND< 3.1
107-06-2	1,2-Dichloroethane	ND< 10	ND< 2.5
79-01-6	Trichloroethene	ND< 10	ND< 1.9
78-87-5	1,2-Dichloropropane	ND< 10	ND< 2.2
10061-02-6	trans-1,3-Dichloropropene	ND< 10	ND< 2.2
108-10-1	4-methyl-2-pentanone	ND< 10	ND< 2.4
108-88-3	Toluene	20	5.0
591-78-6	2-Hexanone	ND< 10	ND< 2.4
10061-01-5	cis-1,3-Dichloropropene	ND< 10	ND< 2.2
79-00-5	1,1,2-Trichloroethane	ND< 10	ND< 1.8
127-18-4	Tetrachloroethene	11	1.5
106-93-4	Ethylene Dibromide	ND< 10	ND< 1.3
108-90-7	Chlorobenzene	ND< 10	ND< 2.2
100-41-4	Ethylbenzene	ND< 10	ND< 2.3
1330-20-7	m,p-Xylene	17	4.0
95-47-6	o-Xylene	ND< 10	ND< 2.3
100-42-5	Styrene	ND< 10	ND< 2.3
79-34-5	1,1,2,2-Tetrachlorethane	ND< 10	ND< 1.5
108-67-8	1,3,5-Trimethyl Benzene	ND< 10	ND< 2.0
95-63-6	1,2,4-Trimethyl Benzene	81	17
541-73-1	1,3-Dichlorobenzene	ND< 10	ND< 1.7
106-46-7	1,4-Dichlorobenzene	ND< 10	ND< 1.7
100-44-7	Chlorotoluene	ND< 10	ND< 1.9
95-50-1	1,2-Dichlorobenzene	ND< 10	ND< 1.7
120-82-1	1,2,4-Trichlorobenzene	ND< 10	ND< 1.3
87-68-3	Hexachlorobutadiene	ND< 10	ND< 0.9

Surrogate Recovery	% Recovery	QC Limits
1,2-Dichloroethane-D4 (SS1)	110	70-130
Toluene-d8 (SS2)	105	70-130
4- Bromofluorobenzene (SS3)	106	70-130

ND- Not detected
TR - Trace

VOLATILE ORGANIC ANALYSIS

CLIENT NAME: Harding Lawson Associates
PROJECT #: 32026.04
PROJECT NAME: Omega Chemical
MATRIX: Air/Tedlar
SAMPLE VOLUME: 0.5 L
INITIAL PRESSURE: 1.00 psia
FINAL PRESSURE: 1.00 psia
PRES. DILUTION : 1.00
DILUTION FACTOR: 1

CLIENT SAMPLE ID: WP-2
AAI RFS# 9522003
AAI ID#: 9522003-002

DATE SAMPLED: 8/8/95
DATE RECEIVED: 8/8/95
DATE ANALYZED: 8/10/95

ANALYTICAL METHOD: EPA TO14 (GC/MS)

CAS NUMBER	COMPOUND	CONCENTRATION ug/m3	CONCENTRATION ppb(v)
74-87-3	Chloromethane	ND< 10	ND< 4.8
74-83-9	Bromomethane	ND< 10	ND< 2.6
75-01-04	Vinyl Chloride	ND< 10	ND< 3.9
75-00-3	Chloroethane	ND< 10	ND< 3.8
75-69-4	Freon 11	ND< 10	ND< 1.8
75-35-4	1,1-Dichloroethene	ND< 10	ND< 2.5
76-13-1	Freon 113	ND< 10	ND< 1.3
67-64-1	Acetone	10	4.0
75-09-2	Methylene Chloride	41	12
75-35-3	1,1-Dichloroethane	ND< 10	ND< 2.5
156-60-5	trans-1,2-Dichloroethene	ND< 10	ND< 2.5
156-59-2	cis-1,2-Dichloroethene	ND< 10	ND< 2.5
67-66-3	Chloroform	ND< 10	ND< 2.0
78-93-3	2-Butanone	ND< 10	ND< 3.4
71-55-6	1,1,1-Trichloroethane	27	5.0
56-23-5	Carbon Tetrachloride	ND< 10	ND< 1.6
71-43-2	Benzene	ND< 10	ND< 3.1
107-06-2	1,2-Dichloroethane	ND< 10	ND< 2.5
79-01-6	Trichloroethene	ND< 10	ND< 1.9
78-87-5	1,2-Dichloropropane	ND< 10	ND< 2.2
10061-02-6	trans-1,3-Dichloropropene	ND< 10	ND< 2.2
108-10-1	4-methyl-2-pentanone	ND< 10	ND< 2.4
108-88-3	Toluene	26	7.0
591-78-6	2-Hexanone	ND< 10	ND< 2.4
10061-01-5	cis-1,3-Dichloropropene	ND< 10	ND< 2.2
79-00-5	1,1,2-Trichloroethane	ND< 10	ND< 1.8
127-18-4	Tetrachloroethene	31	5.0
106-93-4	Ethylene Dibromide	ND< 10	ND< 1.3
108-90-7	Chlorobenzene	ND< 10	ND< 2.2
100-41-4	Ethylbenzene	ND< 10	ND< 2.3
1330-20-7	m,p-Xylene	16	4.0
95-47-6	o-Xylene	ND< 10	ND< 2.3
100-42-5	Styrene	ND< 10	ND< 2.3
79-34-5	1,1,2,2-Tetrachlorethane	ND< 10	ND< 1.5
108-67-8	1,3,5-Trimethyl Benzene	ND< 10	ND< 2.0
95-63-6	1,2,4-Trimethyl Benzene	ND< 10	ND< 2.0
541-73-1	1,3-Dichlorobenzene	ND< 10	ND< 1.7
106-46-7	1,4-Dichlorobenzene	ND< 10	ND< 1.7
100-44-7	Chlorotoluene	ND< 10	ND< 1.9
95-50-1	1,2-Dichlorobenzene	ND< 10	ND< 1.7
120-82-1	1,2,4-Trichlorobenzene	ND< 10	ND< 1.3
87-68-3	Hexachlorobutadiene	ND< 10	ND< 0.9

Surrogate Recovery	% Recovery	QC Limits
1,2-Dichloroethane-D4 (SS1)	81	70-130
Toluene-d8 (SS2)	116	70-130
4- Bromofluorobenzene (SS3)	85	70-130

ND- Not detected
TR - Trace

VOLATILE ORGANIC ANALYSIS

CLIENT NAME:	Harding Lawson Associates	**CLIENT SAMPLE ID:**	METHOD BLANK
PROJECT #:	32026.04	**AAI RFS#**	9522003
PROJECT NAME:	Omega Chemical	**AAI ID#:**	METHOD BLANK
MATRIX:	Air/Tedlar		
SAMPLE VOLUME:	0.5 L	**DATE SAMPLED:**	NA
INITIAL PRESSURE:	1.00 psia	**DATE RECEIVED:**	NA
FINAL PRESSURE:	1.00 psia	**DATE ANALYZED:**	8/10/95
PRES. DILUTION :	1.00		
DILUTION FACTOR:	1	**ANALYTICAL METHOD:**	EPA TO14 (GC/MS)

CAS NUMBER	COMPOUND	CONCENTRATION ug/m3	CONCENTRATION ppb(v)
74-87-3	Chloromethane	ND< 10	ND< 4.8
74-83-9	Bromomethane	ND< 10	ND< 2.6
75-01-04	Vinyl Chloride	ND< 10	ND< 3.9
75-00-3	Chloroethane	ND< 10	ND< 3.8
75-69-4	Freon 11	ND< 10	ND< 1.8
75-35-4	1,1-Dichloroethene	ND< 10	ND< 2.5
76-13-1	Freon 113	ND< 10	ND< 1.3
67-64-1	Acetone	ND< 10	ND< 4.2
75-09-2	Methylene Chloride	ND< 10	ND< 2.9
75-35-3	1,1-Dichloroethane	ND< 10	ND< 2.5
156-60-5	trans-1,2-Dichloroethene	ND< 10	ND< 2.5
156-59-2	cis-1,2-Dichloroethene	ND< 10	ND< 2.5
67-66-3	Chloroform	ND< 10	ND< 2.0
78-93-3	2-Butanone	ND< 10	ND< 3.4
71-55-6	1,1,1-Trichloroethane	ND< 10	ND< 1.8
56-23-5	Carbon Tetrachloride	ND< 10	ND< 1.6
71-43-2	Benzene	ND< 10	ND< 3.1
107-06-2	1,2-Dichloroethane	ND< 10	ND< 2.5
79-01-6	Trichloroethene	ND< 10	ND< 1.9
78-87-5	1,2-Dichloropropane	ND< 10	ND< 2.2
10061-02-6	trans-1,3-Dichloropropene	ND< 10	ND< 2.2
108-10-1	4-methyl-2-pentanone	ND< 10	ND< 2.4
108-88-3	Toluene	ND< 10	ND< 2.7
591-78-6	2-Hexanone	ND< 10	ND< 2.4
10061-01-5	cis-1,3-Dichloropropene	ND< 10	ND< 2.2
79-00-5	1,1,2-Trichloroethane	ND< 10	ND< 1.8
127-18-4	Tetrachloroethene	ND< 10	ND< 1.5
106-93-4	Ethylene Dibromide	ND< 10	ND< 1.3
108-90-7	Chlorobenzene	ND< 10	ND< 2.2
100-41-4	Ethylbenzene	ND< 10	ND< 2.3
1330-20-7	m,p-Xylene	ND< 10	ND< 2.3
95-47-6	o-Xylene	ND< 10	ND< 2.3
100-42-5	Styrene	ND< 10	ND< 2.3
79-34-5	1,1,2,2-Tetrachlorethane	ND< 10	ND< 1.5
108-67-8	1,3,5-Trimethyl Benzene	ND< 10	ND< 2.0
95-63-6	1,2,4-Trimethyl Benzene	ND< 10	ND< 2.0
541-73-1	1,3-Dichlorobenzene	ND< 10	ND< 1.7
106-46-7	1,4-Dichlorobenzene	ND< 10	ND< 1.7
100-44-7	Chlorotoluene	ND< 10	ND< 1.9
95-50-1	1,2-Dichlorobenzene	ND< 10	ND< 1.7
120-82-1	1,2,4-Trichlorobenzene	ND< 10	ND< 1.3
87-68-3	Hexachlorobutadiene	ND< 10	ND< 0.9

Surrogate Recovery	% Recovery	QC Limits
1,2-Dichloroethane-D4 (SS1)	102	70-130
Toluene-d8 (SS2)	118	70-130
4- Bromofluorobenzene (SS3)	93	70-130

ND- Not detected
TR - Trace

ALL 95 22005

H[illegible]g Lawson Associates
35[illegible]ng Oaks Drive, Suite 100
Thousand Oaks, CA 91361
(805) 494-7725 • (805) 494-8386 FAX

CHAIN OF [illegible]STODY FORM

Lab: Apollo An[illegible]ytics

Samplers: John Coffman

Job Number: 32026.04

Name/Location: Omega Chemical/Whittier

Project Manager: Andrew Keller

Recorder: John Coffman (Signature Required)

SOURCE CODE	MATRIX: Water	Sediment	Soil	Oil	Air	# CONTAINERS & PRESERV.: Unpres.	H_2SO_4	HNO_3	HCL	Ice	Summa	SAMPLE NUMBER OR LAB NUMBER: Yr	Wk	Seq	DATE: Yr	Mo	Day	Time	STATION DESCRIPTION/ NOTES	ANALYSIS REQUESTED: EPA 601/8010	EPA 602/8020	EPA 624/8240	EPA 625/8270	METALS	EPA 8015M/TPHg	EPA 8020/BTEX	EPA 8015M/TPHd,o	ADHS BLS-181	EPA T014
61					X						1	EP	-2		95	08	08	0600	Summa Canister (-001)										X
61					X						1	WP	-2		95	08	08	0600	Summa Canister (-002)										X

LAB NUMBER: Yr	Wk	Seq	DEPTH IN FEET	COL MTD CD	QA CODE	MISCELLANEOUS
						Analysis must be completed and faxed by 8/11/95 Fax (310) 907-9826 we need 2 more summas for 8/14/95

CHAIN OF CUSTODY RECORD

RELINQUISHED BY: (Signature)	RECEIVED BY: (Signature)	DATE/TIME
John Coffman	Bett Wilcox	8/8 10:45
Bett Wilcox	[illegible]	

DISPATCHED BY: (Signature) DATE/TIME

RECEIVED FOR LAB BY: (Signature) DATE/TIME

METHOD OF SHIPMENT

SAMPLE CONDITION WHEN RECEIVED BY THE LABORATORY

Laboratory Copy White | Project Office Copy Yellow | Field or Office Copy Pink

PHONE (714) 751-3210 FAX (714) 751-6414

2960 AIRWAY AVENUE, SUITE B-101 COSTA MESA, CALIFORNIA 92626

AAI RFS# : 9522701

August 17, 1995

Harding Lawson Associates
3 Hutton Centre Drive, Suite 200
Santa Ana, CA 92727

Project Name: Omega Chemical
Project # : 32026.04

Attention: Andrew Keller

Apollo Analytics Inc., has received the following sample(s):

Date Received	Quantity	Matrix
August 15, 1995	2	Air/Tedlar

The samples received were analyzed for volatile organics by GC/MS using EPA method TO-14. The samples were analyzed and faxed results were given to the client within a 24 hour time period.

The results of these analyses and the quality control are enclosed. The symbol for "less than" indicates a value below the reportable detection limit. If you have any questions please do not hesitate to call.

Robert Richardson
Laboratory Manager

VOLATILE ORGANIC ANALYSIS

CLIENT NAME:	Harding Lawson Associates	**CLIENT SAMPLE ID:**	EP-3
PROJECT #:	32026.04	**AAI RFS#**	9522701
PROJECT NAME:	Omega Chemical	**AAI ID#:**	9522701-001
MATRIX:	Air/Tedlar		
SAMPLE VOLUME:	0.5 L	**DATE SAMPLED:**	8/15/95
INITIAL PRESSURE:	1.00 psia	**DATE RECEIVED:**	8/15/95
FINAL PRESSURE:	1.00 psia	**DATE ANALYZED:**	8/15/95
PRES. DILUTION :	1.00		
DILUTION FACTOR:	1	**ANALYTICAL METHOD:**	EPA TO14 (GC/MS)

CAS NUMBER	COMPOUND	CONCENTRATION ug/m3	CONCENTRATION ppb(v)
74-87-3	Chloromethane	ND< 10	ND< 4.8
74-83-9	Bromomethane	ND< 10	ND< 2.6
75-01-04	Vinyl Chloride	ND< 10	ND< 3.9
75-00-3	Chloroethane	ND< 10	ND< 3.8
75-69-4	Freon 11	ND< 10	ND< 1.8
75-35-4	1,1-Dichloroethene	ND< 10	ND< 2.5
76-13-1	Freon 113	ND< 10	ND< 1.3
67-64-1	Acetone	21	8.8
75-09-2	Methylene Chloride	ND< 10	ND< 2.9
75-35-3	1,1-Dichloroethane	ND< 10	ND< 2.5
156-60-5	trans-1,2-Dichloroethene	ND< 10	ND< 2.5
156-59-2	cis-1,2-Dichloroethene	ND< 10	ND< 2.5
67-66-3	Chloroform	ND< 10	ND< 2.0
78-93-3	2-Butanone	19	6.3
71-55-6	1,1,1-Trichloroethane	ND< 10	ND< 1.8
56-23-5	Carbon Tetrachloride	ND< 10	ND< 1.6
71-43-2	Benzene	ND< 10	ND< 3.1
107-06-2	1,2-Dichloroethane	ND< 10	ND< 2.5
79-01-6	Trichloroethene	ND< 10	ND< 1.9
78-87-5	1,2-Dichloropropane	ND< 10	ND< 2.2
10061-02-6	trans-1,3-Dichloropropene	ND< 10	ND< 2.2
108-10-1	4-methyl-2-pentanone	36	8.7
108-88-3	Toluene	ND< 10	ND< 2.7
591-78-6	2-Hexanone	ND< 10	ND< 2.4
10061-01-5	cis-1,3-Dichloropropene	ND< 10	ND< 2.2
79-00-5	1,1,2-Trichloroethane	ND< 10	ND< 1.8
127-18-4	Tetrachloroethene	ND< 10	ND< 1.5
106-93-4	Ethylene Dibromide	ND< 10	ND< 1.3
108-90-7	Chlorobenzene	ND< 10	ND< 2.2
100-41-4	Ethylbenzene	ND< 10	ND< 2.3
1330-20-7	m,p-Xylene	ND< 10	ND< 2.3
95-47-6	o-Xylene	ND< 10	ND< 2.3
100-42-5	Styrene	ND< 10	ND< 2.3
79-34-5	1,1,2,2-Tetrachlorethane	ND< 10	ND< 1.5
108-67-8	1,3,5-Trimethyl Benzene	15	3.0
95-63-6	1,2,4-Trimethyl Benzene	82	17
541-73-1	1,3-Dichlorobenzene	ND< 10	ND< 1.7
106-46-7	1,4-Dichlorobenzene	ND< 10	ND< 1.7
100-44-7	Chlorotoluene	ND< 10	ND< 1.9
95-50-1	1,2-Dichlorobenzene	ND< 10	ND< 1.7
120-82-1	1,2,4-Trichlorobenzene	ND< 10	ND< 1.3
87-68-3	Hexachlorobutadiene	ND< 10	ND< 0.9

Surrogate Recovery	% Recovery	QC Limits
1,2-Dichloroethane-D4 (SS1)	111	70-130
Toluene-d8 (SS2)	88	70-130
4- Bromofluorobenzene (SS3)	113	70-130

ND- Not detected
TR - Trace

VOLATILE ORGANIC ANALYSIS

CLIENT NAME:	Harding Lawson Associates	**CLIENT SAMPLE ID:**	WP-3
PROJECT #:	32026.04	**AAI RFS#**	9522701
PROJECT NAME:	Omega Chemical	**AAI ID#:**	9522701-002
MATRIX:	Air/Tedlar		
SAMPLE VOLUME:	0.5 L	**DATE SAMPLED:**	8/15/95
INITIAL PRESSURE:	1.00 psia	**DATE RECEIVED:**	8/15/95
FINAL PRESSURE:	1.00 psia	**DATE ANALYZED:**	8/15/95
PRES. DILUTION :	1.00		
DILUTION FACTOR:	1	**ANALYTICAL METHOD:**	EPA TO14 (GC/MS)

CAS NUMBER	COMPOUND	CONCENTRATION ug/m3	CONCENTRATION ppb(v)
74-87-3	Chloromethane	ND < 10	ND < 4.8
74-83-9	Bromomethane	ND < 10	ND < 2.6
75-01-04	Vinyl Chloride	ND < 10	ND < 3.9
75-00-3	Chloroethane	ND < 10	ND < 3.8
75-69-4	Freon 11	ND < 10	ND < 1.8
75-35-4	1,1-Dichloroethene	ND < 10	ND < 2.5
76-13-1	Freon 113	ND < 10	ND < 1.3
67-64-1	Acetone	11	4.8
75-09-2	Methylene Chloride	11	3.3
75-35-3	1,1-Dichloroethane	ND < 10	ND < 2.5
156-60-5	trans-1,2-Dichloroethene	ND < 10	ND < 2.5
156-59-2	cis-1,2-Dichloroethene	ND < 10	ND < 2.5
67-66-3	Chloroform	ND < 10	ND < 2.0
78-93-3	2-Butanone	ND < 10	ND < 3.4
71-55-6	1,1,1-Trichloroethane	ND < 10	ND < 1.8
56-23-5	Carbon Tetrachloride	ND < 10	ND < 1.6
71-43-2	Benzene	ND < 10	ND < 3.1
107-06-2	1,2-Dichloroethane	ND < 10	ND < 2.5
79-01-6	Trichloroethene	ND < 10	ND < 1.9
78-87-5	1,2-Dichloropropane	ND < 10	ND < 2.2
10061-02-6	trans-1,3-Dichloropropene	ND < 10	ND < 2.2
108-10-1	4-methyl-2-pentanone	ND < 10	ND < 2.4
108-88-3	Toluene	ND < 10	ND < 2.7
591-78-6	2-Hexanone	ND < 10	ND < 2.4
10061-01-5	cis-1,3-Dichloropropene	ND < 10	ND < 2.2
79-00-5	1,1,2-Trichloroethane	ND < 10	ND < 1.8
127-18-4	Tetrachloroethene	11	1.6
106-93-4	Ethylene Dibromide	ND < 10	ND < 1.3
108-90-7	Chlorobenzene	ND < 10	ND < 2.2
100-41-4	Ethylbenzene	ND < 10	ND < 2.3
1330-20-7	m,p-Xylene	ND < 10	ND < 2.3
95-47-6	o-Xylene	ND < 10	ND < 2.3
100-42-5	Styrene	ND < 10	ND < 2.3
79-34-5	1,1,2,2-Tetrachlorethane	ND < 10	ND < 1.5
108-67-8	1,3,5-Trimethyl Benzene	ND < 10	ND < 2.0
95-63-6	1,2,4-Trimethyl Benzene	ND < 10	ND < 2.0
541-73-1	1,3-Dichlorobenzene	ND < 10	ND < 1.7
106-46-7	1,4-Dichlorobenzene	ND < 10	ND < 1.7
100-44-7	Chlorotoluene	ND < 10	ND < 1.9
95-50-1	1,2-Dichlorobenzene	ND < 10	ND < 1.7
120-82-1	1,2,4-Trichlorobenzene	ND < 10	ND < 1.3
87-68-3	Hexachlorobutadiene	ND < 10	ND < 0.9

Surrogate Recovery	% Recovery	QC Limits
1,2-Dichloroethane-D4 (SS1)	70	70-130
Toluene-d8 (SS2)	116	70-130
4- Bromofluorobenzene (SS3)	79	70-130

ND- Not detected
TR - Trace

VOLATILE ORGANIC ANALYSIS

CLIENT NAME:	Harding Lawson Associates	**CLIENT SAMPLE ID:**	METHOD BLANK
PROJECT #:	32026.04	**AAI RFS#**	9522701
PROJECT NAME:	Omega Chemical	**AAI ID#:**	METHOD BLANK
MATRIX:	Air/Tedlar		
SAMPLE VOLUME:	0.5 L	**DATE SAMPLED:**	NA
INITIAL PRESSURE:	1.00 psia	**DATE RECEIVED:**	NA
FINAL PRESSURE:	1.00 psia	**DATE ANALYZED:**	8/15/95
PRES. DILUTION :	1.00		
DILUTION FACTOR:	1	**ANALYTICAL METHOD:**	EPA TO14 (GC/MS)

CAS NUMBER	COMPOUND	CONCENTRATION ug/m3	CONCENTRATION ppb(v)
74-87-3	Chloromethane	ND< 10	ND< 4.8
74-83-9	Bromomethane	ND< 10	ND< 2.6
75-01-04	Vinyl Chloride	ND< 10	ND< 3.9
75-00-3	Chloroethane	ND< 10	ND< 3.8
75-69-4	Freon 11	ND< 10	ND< 1.8
75-35-4	1,1-Dichloroethene	ND< 10	ND< 2.5
76-13-1	Freon 113	ND< 10	ND< 1.3
67-64-1	Acetone	ND< 10	ND< 4.2
75-09-2	Methylene Chloride	ND< 10	ND< 2.9
75-35-3	1,1-Dichloroethane	ND< 10	ND< 2.5
156-60-5	trans-1,2-Dichloroethene	ND< 10	ND< 2.5
156-59-2	cis-1,2-Dichloroethene	ND< 10	ND< 2.5
67-66-3	Chloroform	ND< 10	ND< 2.0
78-93-3	2-Butanone	ND< 10	ND< 3.4
71-55-6	1,1,1-Trichloroethane	ND< 10	ND< 1.8
56-23-5	Carbon Tetrachloride	ND< 10	ND< 1.6
71-43-2	Benzene	ND< 10	ND< 3.1
107-06-2	1,2-Dichloroethane	ND< 10	ND< 2.5
79-01-6	Trichloroethene	ND< 10	ND< 1.9
78-87-5	1,2-Dichloropropane	ND< 10	ND< 2.2
10061-02-6	trans-1,3-Dichloropropene	ND< 10	ND< 2.2
108-10-1	4-methyl-2-pentanone	ND< 10	ND< 2.4
108-88-3	Toluene	ND< 10	ND< 2.7
591-78-6	2-Hexanone	ND< 10	ND< 2.4
10061-01-5	cis-1,3-Dichloropropene	ND< 10	ND< 2.2
79-00-5	1,1,2-Trichloroethane	ND< 10	ND< 1.8
127-18-4	Tetrachloroethene	ND< 10	ND< 1.5
106-93-4	Ethylene Dibromide	ND< 10	ND< 1.3
108-90-7	Chlorobenzene	ND< 10	ND< 2.2
100-41-4	Ethylbenzene	ND< 10	ND< 2.3
1330-20-7	m,p-Xylene	ND< 10	ND< 2.3
95-47-6	o-Xylene	ND< 10	ND< 2.3
100-42-5	Styrene	ND< 10	ND< 2.3
79-34-5	1,1,2,2-Tetrachlorethane	ND< 10	ND< 1.5
108-67-8	1,3,5-Trimethyl Benzene	ND< 10	ND< 2.0
95-63-6	1,2,4-Trimethyl Benzene	ND< 10	ND< 2.0
541-73-1	1,3-Dichlorobenzene	ND< 10	ND< 1.7
106-46-7	1,4-Dichlorobenzene	ND< 10	ND< 1.7
100-44-7	Chlorotoluene	ND< 10	ND< 1.9
95-50-1	1,2-Dichlorobenzene	ND< 10	ND< 1.7
120-82-1	1,2,4-Trichlorobenzene	ND< 10	ND< 1.3
87-68-3	Hexachlorobutadiene	ND< 10	ND< 0.9

Surrogate Recovery	% Recovery	QC Limits
1,2-Dichloroethane-D4 (SS1)	101	70-130
Toluene-d8 (SS2)	125	70-130
4- Bromofluorobenzene (SS3)	94	70-130

ND- Not detected
TR - Trace

AAL# = 9522701

Ha[illegible] Lawson Associates
351[illegible]g Oaks Drive, Suite 100
Thousand Oaks, CA 91361
(805) 494-7725 • (805) 494-8386 FAX

CHAIN OF [illegible]STODY FORM

Lab: Del Mar

Samplers: John Coffman

Job Number: 32026.04

Name/Location: Omega Chemical / Whittier

Project Manager: Andrew Keller

Recorder: John Coffman (Signature Required)

SOURCE CODE	MATRIX: Air	Water	Sediment	Soil	Oil	# CONTAINERS & PRESERV.: Unpres.	H_2SO_4	HNO_3	HCL	Ice	SAMPLE NUMBER OR LAB NUMBER: Yr	Wk	Seq	DATE: Yr	Mo	Day	Time	STATION DESCRIPTION/ NOTES	EPA 601/8010	EPA 602/8020	EPA 624/8240	EPA 625/8270	METALS	EPA 8015M/TPHg	EPA 8020/BTEX	EPA 8015M/TPHd,o	ADHS BLS-181	EPA T014
61	X					1					EP-3			95	08	15	0630	Summa Canister										X
61	X					↓					WP-3			95	08	15	0630	" "										X

ANALYSIS REQUESTED

LAB NUMBER: Yr	Wk	Seq	DEPTH IN FEET	COL MTD CD	QA CODE	MISCELLANEOUS
						Fax Results to
						Jim (310) 907-9826
						Andrew Keller
						(714) 662-3297
						24 Hr Rush Turnaround

CHAIN OF CUSTODY RECORD

RELINQUISHED BY: (Signature)	RECEIVED BY: (Signature)	DATE/TIME
John Coffman	Bett Wilcox	8/15/95 8:30
Bett Wilcox		

DISPATCHED BY: (Signature)	DATE/TIME	RECEIVED FOR LAB BY: (Signature)	DATE/TIME
		Bett	8/15/95 10AM

METHOD OF SHIPMENT

SAMPLE CONDITION WHEN RECEIVED BY THE LABORATORY

Laboratory Copy White | Project Office Copy Yellow | Field or Office Copy Pink