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August 30, 2007
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OVERNIGHT DELIVERY

Life Sciences Group: An HCP Company
c/o Project Management Advisors, Inc.
462 Stevens Avenue, Suite 106
Solana Beach, California 92075

Attention: Mr. Jeff Sobczyk

Subject: 3020 AND 3030 CALLAN ROAD
SAN DIEGO, CALIFORNIA
PHASE I ENVIRONMENTAL SITE ASSESSMENT

Dear Mr. Sobczyk:

In accordance with your request on behalf of Life Sciences Group: An HCP Company (the Client), we conducted a Phase I Environmental Site Assessment (ESA) of the above-referenced site (the Site). The Site is an approximately 5.03-acre property currently occupied by Cytori Therapeutics, Inc., a regenerative therapies research and development corporation. The Site is located approximately 600 feet northeast of the intersection of Callan Road and North Torrey Pines Place in the city and county of San Diego, California.

The following table presents a summary of our findings and opinions, including known or suspected recognized environmental conditions (RECs), historical RECs and de minimis environmental conditions (i.e., conditions that generally do not present a material risk of harm to public health or the environment).

Assessment Category	REC (Y/N)	Recommended Actions	Report Section
Hazardous Substances/Petroleum Products	N	NFA	2.1.1, 4.2, 4.3, 5.1.1, 5.3, 5.4, and 5.6
Hazardous Wastes	N	NFA	2.1.2, 4.2, 4.3, 5.1.1, and 5.3
Non-Hazardous Wastes	N	NFA	2.1.3
Aboveground/Underground Storage Tanks	N	NFA	2.1.4, 4.2, 4.3, 5.1.1, 5.3, and 5.5
Unidentified Substance Containers	N	NFA	2.1.5
Equipment Potentially Containing PCBs	N	DM	2.1.6
Wastewater Systems	N	NFA	2.1.7 and 5.3
Evidence of Releases	N	DM	2.1.8, 4.2, 4.3, 5.1.1, 5.3, and 5.4
Pools of Liquid, Pits, Ponds, Lagoons	N	NFA	2.1
Wells	N	NFA	2.1, 3.3, and 5.2
Other Site Issues	N	NFA	2.1.9, 4.3, and 5.3
Nearby Properties	N	NFA	2.3 and 5.1.3

Assessment Category	REC (Y/N)	Recommended Actions	Report Section
Historical Land Use – Site	N	PHREC	4.1, 4.2, and 4.3
Historical Land Use – Nearby Properties	N	NFA	4.1
Recommended Action: DM = De minimis environmental condition where additional activities should be conducted (specified in Section 7 below). NFA = No further action required at this time. PHREC = Potential historical REC where additional activities do not appear warranted at this time.			

Detailed information regarding pertinent issues identified during the Phase I ESA is provided in the accompanying report, along with our conclusions and recommendations. Please call if you have any questions.

Sincerely,

GEOCON CONSULTANTS, INC.

Erin T. Murray, REA I
Project Scientist

Jim Brake, PG
Senior Geologist

ETM:JFB:sc

(2) Addressee

PHASE I ENVIRONMENTAL SITE ASSESSMENT

1. INTRODUCTION

This report presents the results of a Phase I Environmental Site Assessment (ESA) of an approximately 5.03-acre parcel identified by County of San Diego Assessor's Parcel Number (APN) 340-010-44-00 (the Site), and known as Torrey Pines Corporate Center. The Site is located approximately 600 feet northeast of the intersection of Callan Road and North Torrey Pines Place in the city and county of San Diego, California. The Site is currently developed with a three-story, approximately 91,000-square-foot research and development (R&D) and biotech building occupied by Cytori Therapeutics, Inc. (Cytori), a regenerative therapies research/development corporation. The addresses associated with the site APN are 3020 and 3030 Callan Road. Cytori only identifies itself with 3020 Callan Road. Information provided by site representatives indicated that Cytori has occupied the upper floors of the building since approximately August 2005. Cytori reportedly moved into the remaining portions of the building in April 2006.

We prepared this report in accordance with the request of Mr. Jeff Sobczyk of Project Management Advisors, Inc. on behalf of Life Sciences Group: An HCP Company (the Client). It is our understanding that the Client intends to purchase the Site and that this Phase I ESA was requested as part of the due diligence process for this prospective transaction. Mr. Sobczyk indicated that there are no current plans to redevelop the Site. The following sections identify the purpose, the scope of work and limitations/exceptions associated with this Phase I ESA, and the location of the Site.

1.1 Purpose

The purpose of this Phase I ESA was to identify potential "recognized environmental conditions" (RECs) as defined by the American Society for Testing and Materials (ASTM) Designation E 1527-05 *Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process*. Section 1.1.1 of the ASTM Standard E 1527-05 defines the term "recognized environmental conditions" as *"the presence or likely presence of any hazardous substances or petroleum products on a property under conditions that indicate an existing release, a past release, or a material threat of a release of any hazardous substances or petroleum products into structures on the property or into the ground, ground water, or surface water of the property."* The term, as further defined by ASTM, *"is not intended to include de minimis conditions that generally do not present a threat to human health or the environment and that generally would not be the subject of an enforcement action if brought to the attention of appropriate governmental agencies."* Conditions determined to be de minimis are not RECs.

This Phase I ESA also was conducted to satisfy the requirements of 40 Code of Federal Regulations (CFR) Part 312 titled *Standards and Practices for All Appropriate Inquiries*, as required under Sections 101(35)(B)(ii) and (iii) of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). The purpose of conducting an All Appropriate Inquiries (AAI) investigation into the previous ownership and uses of a property is to meet the provisions necessary for the landowner, contiguous property owner, and/or bona fide prospective purchaser to qualify for certain landowner liability protections under CERCLA. To assist in understanding the terminology contained in this report, a list of terms associated with the above-referenced standard and regulation is provided in Appendix A.

The main components of this report, as specified by the referenced standards, and their objectives include the following:

- **Site Reconnaissance:** Site and adjacent property conditions were observed for indications of RECs at or near the Site. The site reconnaissance was performed for the Site and adjoining properties only and did not include moving onsite debris, vehicles, or other objects to observe the underlying ground surface. Offsite properties and features were viewed from the Site, nearby public right-of-ways, and via a drive-by reconnaissance of the surrounding area.
- **Physical Setting:** Public information and physical setting references were reviewed to obtain information concerning the topographic, geologic, and hydrogeologic characteristics of the Site and vicinity. Such information may be indicative of the direction and/or extent that a contaminant could migrate in the event of a spill or release.
- **Site History:** Historical references were consulted to develop a history of the previous uses of the Site and surrounding area in order to help identify the likelihood of past uses having led to RECs at or near the Site. Historical sources reviewed included historical aerial photographs, topographic maps, city directory listings, and site ownership and/or use information (as made available by the Client and other site representatives). In addition, we conducted interviews with persons who were reasonably expected to be knowledgeable about historical and/or current conditions at and uses of the Site.
- **Records Review:** Regulatory agency records were reviewed to help identify RECs at or potentially affecting the Site. We reviewed client-provided and publicly available federal, state, and local regulatory agency records pertaining to the Site.

1.2 Scope of Services/Exceptions

Our Proposal No. EP-2007-084 outlines the original scope of services proposed for this Phase I ESA. A copy of the proposal is provided as Appendix B. We performed the services outlined in the referenced document, with the exceptions identified below.

- A 50-year chain-of-title report pertaining to the Site was not provided by the Client or obtained by us at the request of the Client.

- Historical fire insurance maps (Sanborns) were not reviewed because no historical map coverage was available for the site vicinity. A copy of the Sanborn “No Maps Available” letter is presented as Appendix C.
- Per Cytori’s request we did not access or photograph the interior portions of the majority of the onsite laboratories due to security/confidentiality reasons and time constraints. When possible, we observed the laboratories through windows from adjacent hallways. As such, we were not able to observe the types, quantities, and conditions of chemical containers stored within the laboratories. Detailed information regarding the hazardous materials and wastes handled at the Site was provided by Ms. Jacqueline Hardt, an Industrial Hygienist II of Occupation Services, Inc. (OSI). OSI has reportedly retained been retained since June 2006 to provide health and safety consulting services for the Cytori facility. The information provided by OSI is discussed in Section 4.2. Due to the level of detail included in information provided by OSI, and because violations pertaining to unauthorized releases of hazardous substances have not been recorded by the County of San Diego Department of Environmental Health (DEH) for the Cytori facility, it is our opinion that this gap in reconnaissance does not present an environmental concern for the Site.

1.3 Site Location

The Site is located approximately 600 feet northeast of the intersection of Callan Road and North Torrey Pines Place in the city and county of San Diego, California. The approximate location of the Site is shown on the Vicinity Map presented as Figure 1.

2. SITE RECONNAISSANCE

Ms. Erin Murray of Geocon Consultants, Inc. (Geocon) conducted a reconnaissance of the Site and observed adjacent properties on August 21, 2007. Prior to the reconnaissance, Mr. Sobczyk provided Ms. Murray with information regarding the general characteristics of the Site, including a Property Condition Report and a Due Diligence Inspection Package prepared for the Site in August 2001 and 2007, respectively. During the reconnaissance, Ms. Murray was accompanied by Mr. Hand, as well as other property assessors.

On August 28, 2001, Ms. Murray returned to the Site to inspect equipment and portions of the property not included in the initial reconnaissance. Mr. Hand and Mr. J. Peter Amis, Director of Special Projects of Cytori, accompanied Ms. Murray during the additional reconnaissance activities. Observations noted during the site reconnaissance are summarized below, along with any limitations encountered during the reconnaissance activities.

2.1 Site Reconnaissance

The Site is an irregular-shaped parcel known as Torrey Pines Corporate Center. The eastern portion of the Site is developed with an approximately 91,000-square-foot building, currently used by Cytori for

R&D/biotech studies and office space . Landscaped areas and concrete-paved walkways surround the site building. The balance of the Site primarily consists of asphalt-paved parking spaces and driveways. Access to the Site is provided by a 35-foot-wide, 400-foot-long southeast-to-northwest trending driveway that intersects with Callan Road in the southernmost portion of the Site. The Site is equipped with electrical, telephone, municipal sewer and water, irrigation, and heating, ventilating, and air conditioning (HVAC) utility systems. Equipment and access covers for subsurface equipment associated with the utility systems were observed throughout the interior and exterior portions of the Site.

Topography at the Site slopes with decreasing relief from the western boundary of the property to the eastern boundary. The Site is graded into four terraces, with the easternmost terrace occupied by the site building, and the remaining terraces occupied by parking areas consisting of 253 spaces. The slopes between terraces are landscaped .

The structural components of the site building include a combination of steel-framing and reinforced concrete masonry unit (CMU) walls, on a concrete slab-on-grade foundation. The building consists of two independent, three-story structures joined by a full-height separation wall at its midpoint. The structure's first floor is below the exterior perimeter grade. The address 3020 Callan Road is associated with the southernmost structure and the address 3030 Callan Road is associated with the northernmost structure.

Equipment and improvements located just outside the northeastern portion of the site building include a diesel-fueled emergency backup generator (discussed in Section 2.1.4), an approximately 450-square-foot CMU building containing deionized (DI) water equipment (hereinafter referred to as the DI water shed) and a carbon dioxide system (discussed in Section 2.1.1), a CMU trash bin enclosure (discussed in Section 2.1.3), a plastic shed used to store biohazardous waste containers (discussed in Section 2.1.2), and a concrete-paved truck loading/unloading dock with a spring-loaded lift. Equipment reportedly associated with a hot water heating system connected to a vivarium located within the site building is present on the north side of the DI water shed.

The first floor of the site building includes a machine shop, a hazardous waste storage room (discussed in Section 2.1.2), a warehouse including a hazardous waste storage cage (discussed in Section 2.1.2), a vivarium, a cell bank, "materials" rooms, a "clean" room, a shipping room, an exercise facility, a cafeteria including a food preparation room (discussed in Section 2.1.7) and dining room, a histology laboratory, and office space. The machine shop contains mills which, as indicated by Mr. Hand, are used to cut parts for medical devices. The mills reportedly use small quantities of coolant and oil to operate (discussed in Section 2.1.2). Two hydraulic elevators are located in the northern portion of the site building and one hydraulic elevator is located in the southern portion of the site building (discussed

in Section 2.1.6). The second floor of the site building includes two terraces, an electronics laboratory, an information technology (IT) room, a computer server room, a device laboratory, a “main” laboratory with smaller adjacent laboratory space primarily used for storage, and office space. A bridge connects the parking area located on the west side of the site building to Cytori’s main lobby, which is also located on the second floor. The third floor of the site building primarily consists of office space. Restroom facilities are located on each of the building floors.

An approximately 1,815-square-foot CMU building containing HVAC equipment occupies the northwestern portion of the Site (hereinafter referred to as the mechanical equipment building). The HVAC equipment contained in the building includes a centrifugal chiller system and a cooling tower, as well as a natural gas-fired boiler. Mr. Hand indicated that a small amount of refrigerant is contained in the chiller equipment. Chilled water is pumped to chilled water fan coil units located within the site building to provide cool air. To heat the site building, hot water generated from the boiler is pumped to hot water fan coil units located within the site building. Mr. Hand reported that TRANE services the HVAC equipment contained in the mechanical equipment building on a quarterly basis. Additional air handling equipment is present on the east side of the site building. Potable hot water is reportedly provided by 50-gallon, natural gas-fired water heaters located within closets on the third floor of the site building.

The following table summarizes the observations made during the site reconnaissance regarding issues of potential environmental concern. Detailed information regarding pertinent issues identified during the site reconnaissance is provided, as appropriate, in the paragraphs following the table.

Issue of Potential Environmental Concern	Observed	Not Observed
Hazardous Substances/Petroleum Products	✓	
Hazardous Wastes	✓	
Non-hazardous Wastes	✓	
Aboveground/Underground Storage Tanks	✓	
Unidentified Substance Containers	✓	
Equipment Potentially Containing Polychlorinated Biphenyls	✓	
Wastewater Systems (drains/clarifiers/sumps)	✓	
Evidence of Releases (stains, odors, stressed vegetation)	✓	
Pools of Liquid, Pits, Ponds, Lagoons		✓
Wells		✓
Other Site Issues	✓	

2.1.1 Hazardous Substances/Petroleum Products

Information regarding the hazardous substances and petroleum products observed at the Site during the reconnaissance is presented in the table below.

Hazardous Substances/Petroleum Products				
Type of Material	Quantity/ Container Type	Storage Location	Stains/Leaks Observed	REC (Y/N)
Cooling system treatment solution	One 55-gallon plastic drum.	Concrete floor of mechanical equipment building.	No	N
Antifoulant solution	One 5-gallon plastic container.	Concrete floor of mechanical equipment building.	No	N
Water treatment microbiocide	One 5-gallon plastic container.	Concrete floor of mechanical equipment building.	No	N
Various cooling system treatment solutions	Three 5-gallon plastic containers (labeled Formula 1014-L, Formula 5100, and Formula 3338, respectively).	Concrete floor of mechanical equipment building.	No	N
Germicidal detergent complex	One 55-gallon plastic drum. Mr. Hand indicated that the detergent is used in cleaning the onsite mill equipment.	On top of a plastic pallet located within a room adjacent to the elevator equipment room in the northern portion of the first floor of the site building.	No	N
Cutting/grinding fluid	One 55-gallon plastic drum. Mr. Hand indicated that the fluid is used in the operation of the onsite mill equipment.	On top of a plastic pallet located within a room adjacent to the elevator equipment room in the northern portion of the first floor of the site building.	No	N
Synthetic lubricant	One 5-gallon plastic bucket.	Concrete flooring located within the hazardous waste storage room.	No	N
Sealing fluid	One 5-gallon plastic bucket.	Concrete flooring located within the hazardous waste storage room.	No	N
Coolant	One 5-gallon plastic bucket.	Concrete flooring located within the DI water shed.	No	N
Carbon dioxide	Six compressed gas cylinders.	Concrete flooring located within the DI water shed. Mr. Hand indicated that the cylinders are connected to a system which provides the gas to the various laboratories within the site building.	No	N
Propane	One compressed gas cylinder.	Concrete flooring located within the DI water shed.	No	N
Various flammable materials such as acetone, paint thinner, denatured alcohol, lubricant sprays, solvent cement, cutting fluid, epoxy remover, isopropyl alcohol, and PVC pipe cement.	Several retail-sized plastic and metal containers.	Stored within a metal storage cabinet, specifically made for the storage of flammable materials, located in the DI water shed.	No	N

Hazardous Substances/Petroleum Products				
Type of Material	Quantity/ Container Type	Storage Location	Stains/Leaks Observed	REC (Y/N)
Liquid nitrogen	Three approximately 57-gallon metal holding tanks, and other laboratory equipment containing small amounts of the material.	Each of the holding tanks was mounted on metal dollies. Two of the holding tanks and the liquid nitrogen-containing equipment were observed within rooms located in the central portion the first floor of the site building. One of the holding tanks was observed on the second floor of the site building, within the "equipment room" of the main laboratory.	No	N
Argon	Two compressed gas cylinders.	Mounted on a metal dolly located within the machine shop.	No	N
Nitrogen gas	Three compressed gas cylinders.	Stored in rooms located adjacent to the main laboratory on the second floor of the site building. One was mounted on a metal dolly and two were chained to a cabinet.	No	N

2.1.2 Hazardous Wastes

Information regarding the hazardous wastes observed at the Site is presented in the table below.

Hazardous Wastes				
Type of Material	Quantity/ Container Type	Storage Location	Stains/Leaks Observed	REC (Y/N)
Waste coolant and oil mixture (as identified by Mr. Hand) generated from the onsite mill equipment	Four unlabeled 55-gallon metal drums.	Stored on plastic pallets located within the hazardous waste storage room.	No	N
Biohazardous Sharps waste	Two approximately 10-gallon plastic biohazardous waste containers.	Within the plastic biohazardous waste storage shed located just northeast of the site building.	No	N

2.1.3 Non-Hazardous Wastes

Two trash bins were observed within the CMU enclosure located northeast of the site building. According to Mr. Hand, the bins contain municipal trash, which is picked up daily by a municipal

waste hauler. No evidence of unauthorized disposal of hazardous waste or petroleum products (unusual odors or staining) was observed in the vicinity of the trash bins at the time of our site survey.

2.1.4 Aboveground/Underground Storage Tanks

An emergency backup generator is present immediately northeast of the site building, just outside of the hazardous waste storage room. Reportedly, the generator is powered by diesel fuel and has an approximately 400 gallon capacity, secondarily contained diesel tank. The generator is stored on a concrete pad, which appeared to be in good condition with no evidence of cracks or corrosion. No evidence of spills or leaks was observed in the vicinity of the generator at the time of our site reconnaissance.

2.1.5 Unidentified Substance Containers

Two 15-gallon plastic drums and two 30-gallon plastic drums were observed on plastic pallets located within the biohazardous waste storage cage. The labels for the containers appeared to be either missing or unreadable due to the positioning of the containers. Mr. Hand could not provide any information regarding the contents of the containers. The containers appeared to be in good condition with no visual evidence of spillage or leakage.

2.1.6 Equipment Potentially Containing Polychlorinated Biphenyls

Information regarding equipment observed at the Site during the reconnaissance that utilizes hydraulic or dielectric fluid (e.g., transformers, elevator equipment, hydraulic lifts), which may contain polychlorinated biphenyls (PCBs), is presented in the following table.

Potential PCB-Containing Equipment Onsite					
Type of Equipment	Date Installed	Location	PCB Containing (Y/N)	Rationale	Stains/Leaks Observed (Y/N)
Three hydraulic elevator operating units	1983	Two units are located within an equipment room located on the first floor in the northern portion of the site building. One unit is located within an equipment room located on the first floor in the southern portion of the site building.	N	I	Y – Pooled hydraulic oil was observed in the metal base of the unit located in the southern portion of the site building and in the metal base of one of the two units located in the northern portion of the site building.

Potential PCB-Containing Equipment Onsite					
Type of Equipment	Date Installed	Location	PCB Containing (Y/N)	Rationale	Stains/Leaks Observed (Y/N)
Pad-mounted electrical transformer	1983	Immediately west of the site building.	N	I and U	N
Abbreviations/Notes: I = installation date (the manufacture of equipment containing PCBs was banned in 1977) U = utility company has stated that PCB transformers were never specified for distribution service					

2.1.7 Wastewater Systems

Floor drains reportedly used to capture water condensation generated from the onsite equipment are present within the hazardous waste storage room, adjacent to the vivarium water heater, within the DI water shed, and within the mechanical equipment building. Two floor drains are located beneath a sink in the food preparation room adjacent to the cafeteria. These floor drains are reportedly connected to the sanitary sewer system. A sewer drain is present at the southeastern terminus of the onsite access driveway. Storm water drains are present throughout the exterior portions of the Site. No visual evidence of unauthorized disposal of hazardous waste or petroleum products (unusual odors or staining) was observed in the vicinity of the drains at the time of our site survey.

Access covers to a two-stage grease trap are present in a small storage room adjacent to the food preparation located in the southern portion of the site building. According to Mr. Hand, water containing cooking oil is directed from the onsite food preparation room and cafeteria to the trap. The grease accumulated in the trap is reportedly emptied and properly disposed at an offsite location approximately every three months and the trap is serviced on a quarterly basis.

2.1.8 Evidence of Releases

We observed evidence of leaked oil and de minimis areas of staining on the concrete flooring beneath a mechanical vacuum pump located within the hazardous waste storage room. Absorbent material, some of which was saturated with oil, was observed beneath the pump. Mr. Hand indicated that the absorbent material was placed beneath the pump in an effort to capture oil from an ongoing leak. The concrete within the hazardous waste storage room appeared to be in good condition with no evidence of cracks or corrosion.

2.1.9 Other Site Issues

An approximately 12-inch-diameter metal vent tube is present on the west side of the site building, adjacent to the pad-mounted electrical transformer. Information obtained in preparation of this Phase I

ESA indicated that the vent pipe is most likely associated with a subsurface room previously used to store radioactive material by a former occupant of the Site known as S-Cubed, Inc. (S-Cubed), a developer and manufacturer of energy storage and power delivery equipment. The room was reportedly identified by S-Cubed as a “Neutron Gamma Range” room.

According to Mr. Amis, Cytori sealed off the room during tenant improvement activities conducted by Cytori from October 2005 to April 2006, making the room permanently inaccessible. The door to the room was previously located in the western wall of what is now a room identified by Cytori as “Controlled Environmental Area 5.” Mr. Amis indicated that he had accessed the room prior to the tenant improvement activities. Mr. Amis reported that the room was empty and that he did not observe any signage pertaining to radioactive equipment. Mr. Amis and Mr. Hand were unable to provide further information regarding the former radioactive storage room. See Sections 4.3 and 5.3 for further information regarding the former radioactive material storage area.

A general Site Plan illustrating the noted site features is included as Figure 2. Photographs taken during the site reconnaissance are presented in Appendix D.

2.2 Physical Limitations

In addition to the physical limitations previously discussed, vehicles parked throughout the three-tiered parking lot limited the observable portions of the ground surface in these portions of the Site. No other physical limitations (e.g., locked rooms, fenced areas) were encountered during the site reconnaissance. At the time of the site reconnaissance, the weather was sunny with a temperature of approximately 80 degrees Fahrenheit.

2.3 Offsite Observations

Observed and reported current uses of adjacent properties and surrounding areas are described in the table below.

Direction	Adjacent Properties	Surrounding Area
North	Torrey Pines Science Park office/laboratory development (11099 North Torrey Pines Road).	Commercial development; undeveloped land.
East	Undeveloped and naturally-vegetated land.	Undeveloped land; commercial/light-industrial development; Interstate 5 (I-5).
South	Undeveloped and naturally-vegetated land; Callan Road.	Commercial/light-industrial development.
West	Torrey Pines Science Park office/laboratory developments (11011-11085 North Torrey Pines Road).	North Torrey Pines Road; Torrey Pines Golf Course; Pacific Ocean.

3. PHYSICAL SETTING

The following sections include discussions of topographic, geologic and hydrogeologic conditions in the vicinity of the Site, based upon our document review and our visual reconnaissance of the Site and adjacent areas.

3.1 Topographic Features

Information concerning the topography and previous development of the Site and properties located in the site vicinity was obtained from a review of a U.S. Geological Survey (USGS) topographic map of the Del Mar, California quadrangle (USGS, 1975). According to the map and online sources, the Site elevation ranges from approximately 330 feet above Mean Sea Level (MSL) to 390 feet above MSL. Topography in the site vicinity appears to slope to the east-northeast, toward Soledad Valley. The Site is shown as vacant land covered with “scrub” (native vegetation).

The adjacent properties are depicted as undeveloped land. North Torrey Pines Road is illustrated as a “heavy-duty” road in its present configuration approximately $\frac{1}{8}$ mile west of the Site. Torrey Pines Golf Course is shown on the west side of North Torrey Pines Road. A water reservoir appears to have been located approximately $\frac{1}{4}$ mile northeast of the Site. Soledad Valley is shown approximately $\frac{3}{8}$ mile northeast of the Site. Tracks of the Atchison, Topeka, and Santa Fe (AT&SF) railway, I-5 (shown as a “heavy-duty” road), marshland, and commercial/light-industrial developments are depicted within the limits of Soledad Valley. Sewage disposal plants appear to have occupied properties located approximately $\frac{1}{2}$ mile southeast and northwest of the Site, respectively. The Pacific Ocean is depicted approximately $\frac{7}{8}$ mile west of the Site. The properties in the site vicinity are shown as supporting low to medium-density commercial/light-industrial development.

Topographic features depicted on the map are generally not representative of conditions observed during our site reconnaissance, as the current onsite improvements are not shown and elevations and topography have likely changed due to grading of the Site. In addition, several commercial/light-industrial improvements and roadways have been constructed at the adjacent and nearby properties since the date of the map. A reproduction of a portion of the USGS map is presented as Figure 3.

3.2 Geologic Conditions

The Site is located in the Peninsular Ranges geomorphic province of Southern California (Norris and Webb, 1990). This geomorphic province encompasses an area that extends 125 miles from the Transverse Ranges and the Los Angeles Basin south to the Mexican Border and beyond another 775 miles to the tip of Baja California. In general, the province consists of rugged mountains underlain by Mesozoic igneous and metamorphic rocks to the east, and a dissected coastal plain underlain by

Cenozoic sediments to the west. The province varies in width from approximately 30 to 100 miles, and is traversed by a group of faults and fault zones trending roughly northwest.

Geologic information was obtained from a map entitled *Geology of the Del Mar Quadrangle San Diego County, California*, Bulletin 200, California Division of Mines and Geology, prepared by Michael P. Kennedy and G.L. Peterson, and dated 1975. According to the map, the Site is underlain by nearshore deposits of the Lindavista Formation. Reportedly, the Lindavista Formation is predominantly composed of moderate reddish-brown interbedded sandstone and conglomerate (Kennedy, M.P. and Peterson, G.L., 1975).

3.3 Regional Groundwater Quality and Occurrence

Sources provided by the California Department of Water Resources (DWR) and the California State Water Resources Control Board (SWRCB) were reviewed for information pertaining to groundwater quality and occurrence in the vicinity of the Site. Based on these sources, the Site is located within the Miramar Reservoir Hydrologic Area (906.10) of the Penasquitos Hydrologic Unit (906.00) (California State Water Resources Control Board, 1994).

In the coastal portion of the Penasquitos Hydrologic Unit, the total dissolved solid (TDS) content of groundwater salinities ranges from 500 to 5,000 milligrams per liter (mg/l) (DWR, 1967). Although groundwater in the Miramar Reservoir Hydrologic Area has designated beneficial uses for municipal, agricultural, and industrial service supply purposes, these beneficial uses do not apply to the portion of the hydrologic area west of I-5, which includes the Site (SWRCB, 1994).

No DWR wells are located on the Site or on its nearby properties (DWR, 1999-2002). Based on knowledge of the hydrology in the site vicinity and information obtained from subsurface investigations conducted in the area (discussed in Section 5.3), groundwater beneath the Site is presumed to flow in a east-northeast direction at a depth of at least 80 feet below ground surface.

4. SITE HISTORY

We conducted a search for historical records regarding the Site and surrounding areas. This included a review of one or more of the following sources that were found to be both reasonably obtainable and useful for the purposes of this Phase I ESA: historical aerial photographs, historical fire insurance maps, historical city directories, building permits and plans, land title records, topographic maps, property tax records, zoning/land use records, interviews with property representatives, and reviews of prior environmental assessment reports/documents regarding the Site.

Based on our review of historical sources, the Site consisted of undeveloped and naturally-vegetated land from at least as early as 1953 to 1983, when the current improvements were constructed. The site building has since been used for R&D and office space by occupants including IRT Corporation (IRT), S-Cubed (currently a division of Maxwell Laboratories, Inc.), Nicholas Research Corporation, Diametrix Detectors, Inc., Biogen Idec, Inc. (Biogen Idec), and Cytori.

The following sections summarize information obtained from the historical sources utilized for this assessment, including publicly-available sources, interviews with site personnel, and reviews of environmental documents provided to us by the Client, if available.

4.1 Publicly-Available Information

Publicly-available historical records, including aerial photographs, topographic maps, and city directories were available for the Site and adjacent properties for selected years dating from 1953 to 2007. The following table presents a summary of information obtained from the sources used for this assessment. The city directory research was conducted on the current addresses associated with the Site, 3020 and 3030 Callan Road, as well as the street addresses associated with properties in the site vicinity. A copy of the city directory report is provided as Appendix E.

Year	Interpreted Use		Source
	Site	Adjacent and Nearby Properties	
1953	The Site appears to have consisted of undeveloped and naturally-vegetated land.	The adjacent properties to the north, east, and south appear to have consisted of undeveloped and naturally-vegetated land. Structures and crops apparently associated with a former U.S. Agricultural Experimental Station (as identified on topographic maps) were visible at the adjacent property to the west and a nearby property to the south. North Torrey Pines Road is visible to the west in its present configuration. A water reservoir appears to have been located approximately ¼ mile northeast of the Site. Tracks of the AT&SF railway were visible approximately ¾ mile northeast of the Site. The properties in the site vicinity appear to have supported low-density commercial development.	A

Year	Interpreted Use		Source
	Site	Adjacent and Nearby Properties	
1953	The Site is shown as vacant land covered with "scrub."	Structures apparently associated with a U.S. Agricultural Experimental Station are shown at the adjacent property to the west and a nearby property to the south. The remaining adjacent properties are depicted as undeveloped land. North Torrey Pines Road is illustrated as a "heavy-duty" road in its present configuration approximately ¼ mile west of the Site. A water reservoir appears to have been located approximately ¼ mile northeast of the Site. Soledad Valley is shown approximately ¾ mile northeast of the Site. Marshland and tracks of the AT&SF railway are depicted within the limits of Soledad Valley. A filtration plant appears to have occupied a property located approximately ½ mile southeast of the Site. The Pacific Ocean is depicted approximately ⅞ mile west of the Site. The properties in the site vicinity are shown as supporting low-density development.	T
1963	Similar to 1953 photograph.	Torrey Pines Golf Course is visible on the west side of North Torrey Pines Road. Apparent commercial/light-industrial developments are visible approximately ¾ mile southeast of the Site. All else similar to 1953 photograph.	A
1967	Similar to 1953 map.	The previously shown structures associated with the U.S. Agricultural Experimental Station are no longer depicted at the adjacent property to the west. Torrey Pines Golf Course is shown on the west side of North Torrey Pines Road. I-5 (shown as a "heavy-duty" road) and commercial/light-industrial developments are depicted within the limits of Soledad Valley. Sewage disposal plants appear to have occupied properties located approximately ½ mile southeast and northwest of the Site, respectively. The properties in the site vicinity are shown as supporting low to medium-density commercial/light-industrial development.	T
1974	Similar to 1963 photograph.	The previously observed structures and crops associated with the U.S. Agricultural Experimental Station are no longer visible at the adjacent property to the west. The current commercial/light-industrial development located approximately ¼ mile southwest of the Site is visible. Nearby properties to the south and southeast appear to have been graded. All else similar to 1963 photograph.	A
1975	Similar to 1967 map.	Additional commercial/light-industrial developments are shown in the site vicinity. All else similar to 1967 map.	T
1980	Similar to 1974 photograph.	Callan Road is visible in its present configuration. An unpaved pathway appears to have crossed the adjacent properties to the north and east. A portion of the Torrey Pines Science Park is visible at the adjacent property to the west. The current commercial/light-industrial developments located at the nearby properties to the northwest (replacing previously observed reservoir), east, and southeast appear to have been undergoing construction. All else similar to 1974 photograph.	A

Year	Interpreted Use		Source
	Site	Adjacent and Nearby Properties	
1980	Callan Road is not listed as an existing street.	NES	C
1983	Callan Road is not listed as an existing street.	NES	C
1985	3020 Callan Road – Not listed as an existing address. 3030 Callan Road – Irt Corp.	NES	C
1990	3020 Callan Road – S Cubed. 3030 Callan Road – Irt Corp.; Nicholas Research Corp.	NES	C
1990-91	The current improvements are visible at the Site.	The adjacent properties to the north and west, and the nearby properties to the southeast, east, and northwest appear developed as currently improved. The current hotel development located approximately ¼ mile southwest of the Site is visible. All else similar to 1980 photograph.	A
1994	The Site is coded as “house omission tint” (densely populated area).	Callan Road is illustrated as a “light-duty” road in its present configuration. The adjacent property to the west and the nearby properties northwest and south of the Site are coded as “house omission tint.” A portion of the Torrey Pines Science Park is shown at the adjacent property to the west. Increased commercial/light-industrial development is shown in the site vicinity. All else similar to 1975 map.	T
1995	The site addresses are not listed as existing addresses.	NES	C
2000	The site addresses are not listed as existing addresses.	NES	C
2002	Similar to 1990-91 photograph.	Additional lodging improvements are visible approximately ½ mile southwest of the Site. All else similar to 1990-91 photograph.	A
2005	Callan Road is not listed as an existing street.	NES	C
2007	Callan Road is not listed as an existing street.	NES	C
Abbreviations/Sources: A = aerial photographs C = city directories NES = no occupants likely to present an environmental concern to the Site were listed (based on tenant names) T = topographic maps			

4.2 Interviews

We interviewed Ms. Cindy Jacob, a representative of the current owner of the Site (Biodec, LLC), Mr. Amis, and Ms. Hardt regarding historical and/or current uses of the Site. The following paragraphs discuss the information provided by the site representatives.

Ms. Jacob

We provided Ms. Jacob with a questionnaire in order to obtain property background information from a representative of the current owner of the Site. A copy of the questionnaire completed by Ms. Jacob is presented in Appendix F. Based on Ms. Jacob’s answers, Biodec, LLC has owned the property since late 2001. Ms. Jacob believed that the site building was constructed in 2000, and that the building was previously used by IDEC Pharmaceuticals Corporation (current lessee of the Site and now known as

Biogen Idec) for R&D and office space from approximately March 2000 to October 2005. Ms. Jacob indicated that Cytori currently subleases the Site and has used the site building for similar purposes since approximately October 2005. Ms. Jacob was unaware of other tenants occupying the Site. Ms. Jacob was unable to provide additional information regarding the historical uses of the property.

Ms. Jacob was unaware of the current or previous existence of hazardous materials, hazardous wastes, underground storage tanks (USTs), and/or ASTs at the Site. In addition, Ms. Jacob was unaware of spills or other chemical releases that have affected the Site, or of previous environmental cleanup activities conducted at the Site. Ms. Jacob reported that small quantities of legal pesticides, herbicides, and/or insecticides are applied to the onsite flora as part of routine landscape maintenance activities. Ms. Jacob was not aware of any environmental cleanup liens recorded against the Site, any engineering controls (e.g., vapor barriers, venting systems) that have been required for the Site, or of any institutional controls (e.g., zoning restrictions, building permit restrictions, well drilling prohibitions) or other land use restrictions that are associated with the Site. Ms. Jacob indicated that she did not have any specialized knowledge or experience related to the property or nearby properties relevant to identifying conditions indicative of releases or threatened releases at the Site.

Mr. Amis

We provided Mr. Amis with a questionnaire in order to obtain property background information from a representative of the current tenant of the Site. A copy of the questionnaire completed by Mr. Amis is presented in Appendix F. Based on Mr. Amis's answers, Cytori has used the site building for R&D and office space for the past two years. Reportedly, the site building was previously used by Biogen Idec for office space. It was Mr. Amis's belief that the site building and mechanical equipment building were constructed approximately 28 years ago. Mr. Amis could not provide additional information regarding previous tenants occupying the site building or historical uses of the property.

Other than what was observed during our site reconnaissance, Mr. Amis was unaware of the current or previous existence of hazardous materials, hazardous wastes, USTs, and/or ASTs at the Site. In addition, Mr. Amis was unaware of spills or other chemical releases that have affected the Site, or of previous environmental cleanup activities conducted at the Site. Mr. Amis reported that small quantities of legal pesticides, herbicides, and/or insecticides are applied to the onsite flora as part of routine landscape maintenance activities. Mr. Amis was not aware of any environmental cleanup liens recorded against the Site, any engineering controls (e.g., vapor barriers, venting systems) that have been required for the Site, or of any institutional controls (e.g., zoning restrictions, building permit restrictions, well drilling prohibitions) or other land use restrictions that are associated with the Site. Mr. Amis indicated that he did have specialized knowledge or experience related to the property or nearby properties relevant to identifying conditions indicative of releases or threatened releases at the Site.

Ms. Hardt

According to Ms. Hardt, Cytori has occupied the Site since March 2006, and OSI has provided health and safety consulting services to Cytori since June 2006. Ms. Hardt was unaware of spills or other chemical releases that have affected the Site, or of previous environmental cleanup activities conducted at the Site. Ms. Hardt provided us with excerpts of a Hazardous Materials Business Plan (HMBP) on file for Cytori at the DEH, as well as chemical inventory, hazardous waste streams, and biological waste streams lists maintained for Cytori by OSI. The following paragraphs summarize the information provided by Ms. Hardt. Copies of the OSI-provided records are presented as Appendix G.

Per the instruction of the DEH, Cytori is required to disclose in their HMBP any hazardous material or hazardous waste that is handled at the facility in large quantities. The following table presents the hazardous materials/wastes listed in Cytori's current HMBP.

Hazardous Materials/Wastes Reported in HMBP		
Chemical Name	Average Daily Amount	Storage Container Type
Diesel fuel oil	395 gallons	AST
Argon	225 cubic feet	Tank inside building
Compressed nitrogen	600 cubic feet	Cylinder
Hydrotreated naphthenic oil solution	55 gallons	Drum
Heavy duty germicidal detergent complex	55 gallons	Drum
Makrolon 3158 thermoplastic polymer	1,650 pounds	Drum
Coolant waste	330 gallons	Drum
Nitrogen liquid	22,141 cubic feet	Tank inside building
Compressed carbon dioxide	3,059 cubic feet	Cylinder

The chemical inventory list provided by Ms. Hardt indicated that small quantities of approximately 264 different chemicals are handled within the onsite laboratories. See Appendix G for the complete list of chemicals.

The following table presents the hazardous wastes reportedly generated in small quantities at the Cytori facility, and their frequencies of disposal. According to Ms. Hardt, Cytori retains the services of GenTec Solutions for their chemical waste hauling needs.

Hazardous Waste Streams			
Chemical Waste Name	Storage Location	Average Disposal Amount	Frequency of Disposal
Solid toxic debris (non-halogenated) – mainly ethidium bromide/formalin contaminated	Hazardous waste storage cage	Two 55-gallon drums	Once per annual quarter

Hazardous Waste Streams			
Chemical Waste Name	Storage Location	Average Disposal Amount	Frequency of Disposal
Coolant waste	Hazardous waste storage room	275 gallons	Once per annual quarter
Non-halogenated liquid flammable wastes	Histology laboratory	10 gallons	Once per annual quarter
Solid metal filing recycled waste	Machine shop	Two 55-gallon drums	Biweekly
Solid/liquid "lab pack" waste	Onsite laboratories	Varies	Annually

The following table presents the biohazardous wastes reportedly generated at the Cytori facility, and their frequencies and methods of disposal. According to Ms. Hardt, Enserv West, LLC collects any biohazardous waste which must be autoclaved/incinerated on a weekly basis.

Biohazardous Waste Streams				
Medical Waste Type	Quantity (pounds/month)	Storage Container Type	Treatment Method	Name of Waste Hauler
Sharp waste (needles, syringes, and slides)	35	Sharps containers placed in 44-gallon drum	Autoclaved/incinerated offsite	Ensenv West, LLC
Non-sharp waste (articles containing fluid blood)	100	Red bags placed in 44-gallon drum	Autoclaved/incinerated offsite	Ensenv West, LLC
Solid wastes (cultures, lab waste, etc.)	NA	NA	NA	NA
Liquid wastes (cultures, urine, etc.)	1,000	5-gallon carboys	Bleach and empty into onsite sewer	NA
Trace chemotherapy waste	NA	NA	NA	NA
Contaminated animal carcasses	10	Frozen in red bags	Autoclaved/incinerated offsite	Ensenv West, LLC
Other – pathological waste (human fat)	650	5-gallon carboys	Autoclaved/incinerated offsite	Ensenv West, LLC
Medical solid waste (gloves, empty specimen containers, gauze with dried blood, and treated biohazardous waste)	600	Laboratory trash bags	Onsite trash	Municipal waste hauler

4.3 Prior Environmental Documents/Reports

In preparation of this Phase I ESA, we reviewed a draft report provided by Mr. Amis entitled *Report on ASTM Phase I Environmental Site Assessment, Callan Road Facility, San Diego, California*, prepared by Haley & Aldrich, Inc. (Haley & Aldrich), and dated September 30, 2005. Pertinent information contained in the referenced report is summarized below.

Report on ASTM Phase I Environmental Site Assessment, Callan Road Facility, San Diego, California, prepared by Haley & Aldrich, dated September 30, 2005

- At the time of the 2005 Phase I ESA, the Site was reportedly developed with the current improvements; however, the site building was unoccupied. Biogen Idec, a pharmaceutical biotechnology corporation, had vacated the premises in 2003, and the Site had been unoccupied since that time.
- With the exception of the current diesel-fueled generator and two 55-gallon drums labeled “lithium carbonate” located adjacent to the generator, no hazardous substance containers were observed by Haley & Aldrich at the time of their site reconnaissance. Staining, leaking, or cracked concrete was not observed in the area of the generator during Haley & Aldrich’s site visit. Haley & Aldrich considered the existence of the diesel-fueled generator at the Site a suspect environmental condition (SEC) with low potential for impact to the Site.

Haley & Aldrich observed an area of minor staining in one of the three onsite elevator shafts (not accessed/observed during our reconnaissance). Haley & Aldrich reportedly did not observe cracked concrete in any of the elevator equipment rooms or shafts.

- Historical sources reviewed for the assessment indicated that the Site consisted of undeveloped land from at least as early as 1953 to 1983, when the current improvements were constructed. Previous environmental reports reviewed by Haley & Aldrich to obtain historical information for the Site included Phase I ESAs prepared by ENVIRON Corporation (ENVIRON) in 1993, Douglas K. Eilar & Associates (Eilar & Associates) in 1996, and Professional Service Industries, Inc. (PSI) in 1998. The following bulleted items summarize the pertinent information contained in these reports.
 - IRT, an x-ray vision inspection systems and radiation services provider, developed the Site with its current improvements in 1983. IRT and a former subsidiary of IRT known as S-Cubed were the initial occupants of the site building. IRT reportedly used the site building for research and development of an x-ray scanning machine. S-Cubed was later sold to Maxwell Laboratories, Inc. IRT and Maxwell Laboratories, Inc. S-Cubed Division vacated the Site sometime between 1993 and 1994.
 - IRT stored radioactive materials inside a 12-inch-diameter, 6 to 8-foot-deep steel “well” containing insulating mineral oil located on the first floor of the site building. Reportedly, IRT was in compliance with the U.S. Nuclear Regulatory Agency and the state of California for storing radioactive materials and no violations had been recorded for the facility. Testing performed by IRT on the mineral oil did not reveal radioactive contamination.
 - S-Cubed stored radioactive materials (Californium-252 and Cobalt-60 sources) in a 20-foot-deep “well” containing insulating mineral oil located within a Neutron Gamma Range subsurface room. The room was apparently located beneath the approximate location of the current pad-mounted electrical transformer on the west side of the site building. The 1993 Phase I ESA indicated that a leak of approximately 70 gallons of insulating mineral oil resulted from the well. The leaked oil extended approximately 30 feet below the subsurface soil.

Haley & Aldrich considered this case involving an unauthorized release of mineral oil a historical REC (HREC) with low potential for impact to the Site. See Sections 5.1.1 and 5.3 for further information regarding this release.

- The 1996 Phase I ESA indicated that the wells were sealed and covered with concrete. Reportedly, the state of California cleared the Site for general use with respect to previous onsite radioactive materials handling activities and declared that there “should be no risk from these [radiation] sources.” Evidence of these wells was not observed during Haley & Aldrich’s site visit, nor during our site visit performed for this assessment.
- As stated in the 1998 Phase I ESA, representatives of the State of California Department of Health Services Radiological Health Branch reported that the Site has been “resolved of all radiological concerns as required by the State of California.”

Note – A Certificate of Non-Radioactivity, dated April 11, 1996, from the U.S. Nuclear Regulatory Commission for the Site, was reportedly provided to Haley & Aldrich prior to their site reconnaissance; however, a copy of the certificate was not included in their report.

Haley & Aldrich considered the previous radioactive material handling at the Site an HREC with low potential for impact to the Site.

As indicated by Biogen Idec personnel, Biogen Idec used the site building for office space and for temporary storage of unopened containers of chemicals (such as proteins and amino acids) from approximately 1994 to 2003. Biogen Idec personnel and city directory listings indicated that additional tenants of the Site prior to Biogen Idec’s occupancy included Diametrix Detectors, Inc. and Nichols Research Corporation.

- Federal, state, and local databases were searched for information pertaining to the Site and for properties within a maximum 1-mile radius of the Site. The listings were similar to those noted in a regulatory database report reviewed for this assessment (discussed in Sections 5.1.1, 5.1.2, and 5.1.3). Listings for the Site and several listings for properties located in the site vicinity were noted on various databases. Based on the interpreted distances of these properties from the Site, the nature of the databases on which the listings appeared, the direction of groundwater flow in the site vicinity, and/or the status of the cases, Haley & Aldrich indicated that there was a low likelihood that the facilities and their related incidents/releases represented an environmental concern to the Site.
- DEH records pertaining to general compliance issues for the Site recorded between the years 1989 to 2005 were provided to Haley & Aldrich. Of these records, those dating from 1995 to 2005 were provided for our review for this assessment, and are discussed in Section 5.3. Haley & Aldrich summarized the information provided in the DEH compliance records which were not provided for our review, as follows.

A letter dated 13 June 1986 from IRT to the DEH indicated that three drums of hazardous waste solids had been disposed of offsite.

A Compliance Inspection Report dated 17 January 1989 requested that IRT complete and submit a Hazardous Materials Business Plan.

A document dated 4 August 1989 indicated IRT stored the following chemicals on the subject site: flammables, explosives and unstables, compressed gases, hazardous wastes, oxidizers, reactives, radioactives, methyl ethyl ketone, pump oil, Kodak rapid fixer, 3-M developer, Kodak developer, acetone, cutting oil, methyl chloroform, methylene chloride, cleaners, toluene, cyclohexane, and ammonium hydroxide.

A Compliance Inspection Report for IRT dated 21 November 1991 indicated that hazardous waste manifests were not maintained onsite, hazardous waste containers (for spent fixers and developers) were missing labels, the Hazardous Materials Business Plan was not updated, and personnel training was not documented.

A Compliance Inspection Report dated 17 December 1993 stated that IRT's Hazardous Materials Business Plan had not been updated.

A letter from PWN Environmental stated that explosives waste (trinitroglycerin and 2,4,6-trinitrotoluene) were disposed of offsite, hazardous materials were removed from the subject site, and 16 containers of hazardous waste were disposed of offsite. These wastes and materials were associated with IRT.

A letter from IRT to DEH indicated that IRT and Diametrix Detectors, Inc. have vacated the property and all hazardous materials were removed from the subject site as of 7 February 1992. A document dated 26 June 1995 indicated that IRT had vacated the subject site, hazardous materials/wastes were removed from the subject site, and the subject site was inactivated from DEH HE-58 (Haley & Aldrich, Inc., 2005).

- Based on the findings of the 2005 Phase I ESA, Haley & Aldrich made the following conclusion:

This assessment has revealed no evidence of RECs in connection with Biogen Idec's activities at the subject site (Haley & Aldrich, Inc., 2005).

5. REGULATORY AGENCY RECORDS

Regulatory agency records pertaining to the site and relevant nearby properties were searched for information regarding environmental conditions which may potentially impact the Site. The sources for this information included a regulatory database search firm (Section 5.1) and local government agencies (Sections 5.2 to 5.6). The information requested from local government agencies was based on the site reconnaissance observations, historical research, and environmental database review. A summary of information obtained from the sources contacted is presented below. Based on information obtained through written requests to local government agencies, it was judged that interviews of regulatory officials would not provide any additional or meaningful information to this Phase I ESA.

5.1 Database Review

Track Info Services, LLC (Track Info), a regulatory database search firm, performed a search of federal, state, and local databases for the Site and surrounding areas. A reproduction of the report titled

Environmental FirstSearch Report, 3020 and 3030 Callan Road, San Diego, CA 92121, dated August 20, 2007, is presented as Appendix H. The following table lists databases that were searched and the number of listings (excluding non-geocoded (unmapped) sites).

Database Name	Search Radius (Mile)	Number of Listings
FEDERAL DATABASES		
NPL (Confirmed and proposed Superfund sites)	1	0
NPL Delisted (Delisted Superfund sites)	½	0
CERCLIS (Sites currently or formerly under review by the USEPA)	½	0
NFRAP (Archived CERCLIS sites)	½	0
RCRA COR ACT (RCRA facilities with reported violations and subject to corrective actions)	1	1
RCRA TSD (RCRA permitted treatment, storage, disposal facilities)	½	0
RCRA GEN (RCRA facilities that generate or transport hazardous waste)	¼	16
RCRA NLR (RCRA facilities no longer classified by the USEPA)	⅛	0
Federal IC/EC (Sites requiring engineering or institutional controls, and/or sites involved in Brownfield grant programs)	¼	0
ERNS (Database of emergency response actions)	⅛	0
Tribal Lands (Properties owned by American Indian Tribes)	1	0
STATE/TRIBAL DATABASES		
State/Tribal Sites (Sites known or suspected of being contaminated)	1	4
State Other Sites (Sites known or suspected of being contaminated)	¼	0
State Spills 90 (Sites that have reported spills, leaks, investigations, and cleanups)	⅛	0
State/Tribal SWL (Permitted as solid waste landfills, incinerators, or transfer stations)	½	0
State/Tribal LUST (Sites with confirmed or unconfirmed leaking USTs)	½	8
State/Tribal UST/AST (Sites with registered USTs or ASTs)	¼	2
State/Tribal EC (Properties requiring engineering controls)	¼	0
State/Tribal IC (Deed-restricted sites)	¼	0
State/Tribal VCP (Voluntary Cleanup Properties known or suspected of being contaminated)	½	0
State/Tribal Brownfields (Sites known or suspected of being contaminated)	½	0
LOCAL DATABASES		
State Permits (Properties in San Diego County that maintain records of hazardous materials/wastes)	¼	110

Information provided in the database report is summarized below. To assist in assessing whether releases from nearby properties are likely to have impacted the environmental integrity of the Site, we conducted research to ascertain the direction of groundwater flow in the vicinity of the Site. Based on local topography, the direction of groundwater flow in the site vicinity is assumed to be to the east-northeast (groundwater flow typically follows surface topography).

5.1.1 Site

The following discussion provides information regarding listings associated with the Site.

State Permits – DEH, Hazardous Materials Establishment (HE17) Permits List

This list identifies facilities that use hazardous materials or generate hazardous waste at quantities that require regulation by the DEH. These facilities report quantities of hazardous materials used and hazardous wastes generated and stored, for tracking purposes, and are subject to inspection by DEH officials. Listed properties are not necessarily indicative of facilities where a release of hazardous substances has occurred.

S-Cubed Torrey Pines, a previous occupant of the Site, was listed twice on the PERMITS database. The facility was described as an inactive biomedical/biotech company that previously generated hydrocarbon solvent waste. No violations were recorded for the facility. S-Cubed Torrey Pines was also listed on the Leaking Underground Storage Tank (LUST) database and is further discussed below.

Cytori was listed on the PERMITS database for handling hazardous materials and wastes similar to those discussed in Section 4.2. Violations were reportedly recorded for the facility in June 2006; however, details regarding the violations were not provided. Cytori did not appear on any database that reports unauthorized releases of hazardous substances. Based on that information, there is a low likelihood that this listing represents an environmental concern to the Site at the current time.

IDEC Pharmaceuticals Corporation (IDEC), a previous occupant of the Site and now known as Biogen Idec, was listed twice on the PERMITS database. The facility was described as a biomedical/biotech company that handled hazardous materials including ethyl alcohol, phosphoric acid, potassium hydroxide, sodium hydroxide, isopropyl alcohol, and glycine. The following violation was recorded for the facility on June 18, 1999: “Business plan inventory does not list all hazardous materials onsite in disclosable quantities.” IDEC did not appear on any database that reports unauthorized releases of hazardous substances. Based on that information, there is a low likelihood that these two listings represent an environmental concern to the Site at the current time.

RCRA GEN List

This database identifies United States Environmental Protection Agency (USEPA)-listed facilities that report generation of reportable quantities of hazardous waste under the Resource Conservation and Recovery Act (RCRA) program for the identification and tracking of hazardous waste. The list consists of properties that generate hazardous waste, and is not necessarily indicative of properties where a release of hazardous substances has occurred.

S-Cubed Torrey Pines was listed on the RCRA GEN database as a small-quantity generator (SQG) of hazardous waste. S-Cubed Torrey Pines was also listed on the LUST database and is further discussed below.

State/Tribal LUST List

The LUST list is maintained by the SWRCB and includes facilities with confirmed or unconfirmed leaking USTs. Also listed are facilities within a ½ mile of the Site that fall under the jurisdiction of the RWQCB or Local Oversight Program for unauthorized releases by the DEH (“County LUST”).

S-Cubed Torrey Pines was listed twice on the LUST for an unauthorized hazardous substance release case (DEH Case No. H23213-001) that reportedly involved a leaking UST discovered on June 6, 1991. The “soil only” was affected in the release. DEH Case No. H23213-001 was issued a “case closed” status on November 3, 1993. See Section 5.3 for additional details regarding DEH Case No. H23213-001.

5.1.2 Nearby Properties

Based on the database search summarized in Section 5.1, the following discussion provides information regarding properties reported to be located within an approximate 1-mile radius of the Site and the status of the listings associated with the properties.

State Permits – DEH, Hazardous Materials Establishment (HE17) Permits List

One hundred five listings appearing on this database were reported to be associated with properties located within ¼ mile of the Site. Fifty-eight of the listings pertained to the facilities located adjacent to the Site within the Torrey Pines Science Park. The 105 listings did not appear on any database that reports unauthorized releases of hazardous substances. Based on that information, there is a low likelihood that the listed facilities represent an environmental concern to the Site at the current time.

RCRA GEN List

Sixteen listings appearing on this database were reported to be associated with properties located within ¼ mile the Site. Six of the listings pertained to the facilities located adjacent to the Site within the Torrey Pines Science Park. The 16 listings did not appear on any database that reports unauthorized releases of hazardous substances. Based on that information, there is a low likelihood that the listed facilities represent an environmental concern to the Site at the current time.

State/Tribal UST/AST List

Information regarding USTs and ASTs registered with the SWRCB is provided on the agency’s UST and AST lists. Also listed are sites within ¼ mile of the Site that fall under the jurisdiction of the

DEH's UST program. The UST and AST lists consist of properties that have registered tanks, and are not necessarily indicative of facilities where a release of hazardous substances has occurred.

Two listings appearing on this database were reported to be associated with properties located within ¼ mile the Site. The two listings did not appear on any database that reports unauthorized releases of hazardous substances. Based on that information, there is a low likelihood that the listed facilities represent an environmental concern to the Site at the current time.

State/Tribal List

The State/Tribal list is maintained by the California Department of Toxic Substances Control (DTSC) and includes information about sites that are known to be contaminated with hazardous substances, as well as information on uncharacterized properties where further studies may reveal problems in regard to environmental issues of concern.

Four listings appearing on this database were reported to be associated with properties located within an approximate 1-mile radius of the Site. Based on the provided address information, each of the listed properties is interpreted to be located at least ⅛ mile from the Site. Based the distances of the properties in relation to the Site, there is a low likelihood that the listed facilities represent an environmental concern to the Site at the current time.

RCRA COR ACT List

The RCRA COR ACT list includes sites listed on the Resource Conservation and Recovery Information System (RCRIS) database. The RCRIS database consists of RCRA facilities with reported violations which are subject to corrective actions.

One listing appearing on this database was reported to be associated with a property interpreted to be located over ½ mile from the Site. Based on the distance of the property in relation to the Site, there is a low likelihood that the listed facility represents an environmental concern to the Site at the current time.

State/Tribal LUST List

The LUST list is maintained by the SWRCB and includes facilities with confirmed or unconfirmed leaking USTs. Also listed are facilities within a ½ mile of the Site that fall under the jurisdiction of the RWQCB or Local Oversight Program for unauthorized releases by the DEH ("County LUST"). Six listings pertaining to three facilities (two of the facilities were listed more than once), reported to be

located within ½ mile of the Site, appear on this list. Information regarding these facilities is summarized in the table below.

Facility Name & Address	Track Info Map ID	Distance from Site (miles)	Direction from Site	Groundwater Gradient	SAM Case No.	Comments	Environmental Concern	Rationale
Camacho Construction, Inc. 11321 Flintkote Avenue	41	0.27	NE	Downgradient	H23191-001	Involved release of a hazardous substance that affected soil only. Case is open.	N	D, G, and M
Health Science Properties 10933 North Torrey Pines Road	42	0.35*	SW	Upgradient	H02699-001 and -002	Case -001: Involved release of chlorinated hydrocarbons that affected soil only. Case is closed. Case -002: Involved release of a hazardous substance that affected soil only. Case is closed.	N	M and S
General Atomics 11222 Flintkote Avenue	43	0.36	NE	Downgradient	H34138-001	Involved a release of a hazardous substance that affected an undisclosed medium. Case is open.	N	D and G
Abbreviations/Notes: D = distance of facility from Site G = direction of groundwater flow M = medium affected (soil only) S = status of case								

*Note: Based on observations made during the site reconnaissance, we found that this facility is located approximately ⅓ mile southwest of the Site.

5.1.3 Non Geocoded (Unmapped) Sites

This portion of the regulatory database report identifies properties that have incomplete address information and could not be specifically plotted. Fifty-five non-geocoded properties were identified in the searched databases. Two of the listings pertained to the facilities located adjacent to the Site within the Torrey Pines Science Park. Based on the interpreted distances of the listed facilities in relation to the Site, and/or the nature of the cases associated with the listings, there is a low likelihood that the listed non-geocoded facilities present an environmental concern to the Site at the current time.

5.2 Water and Sewer Agencies

We contacted a representative of the City of San Diego Water Department to obtain information pertaining to the reported source of water and method of sewage disposal for the site vicinity, the location and depth of wells for the area, and any reported local drinking water contamination problems.

We were informed that water for the site vicinity is supplied from the Colorado River and the State of California Project, via the San Diego County Water Authority and Metropolitan Water District, and treated at the Miramar Filtration Plant. In addition, the plant representative was not aware of reported drinking water contamination problems or of municipal drinking water wells onsite or in the near vicinity. Municipal sewage in the area is treated at the Point Loma Wastewater Treatment Plant, which is owned and operated by the City of San Diego Metropolitan Wastewater Department.

5.3 County of San Diego Department of Environmental Health

We submitted a request to review DEH records pertaining to hazardous wastes, hazardous materials, and USTs on file for the current street addresses and APN associated with the Site, 3020 and 3030 Callan Road and 340-010-44-00, respectively. The following paragraphs summarize the pertinent information provided in the DEH records on file for the previous and current occupants of the Site. Copies of the DEH records are presented in Appendix I.

IDEC/Biogen Idec

Hazardous Materials Questionnaires were submitted on September 9, 1996 and July 26, 2001 for IDEC. The questionnaires indicated that hazardous substances, such as compressed gases, flammable liquids, oxidizers, toxic materials, and corrosive materials, were handled at the facility; however, no USTs were used or installed. A letter sent to the DEH from IDEC on May 17, 1999 indicated that an IDEC employee discharged between 2 and 3 gallons of ethanol/water solution into an onsite storm drain on May 13, 1999. No injuries reportedly occurred as a result of this event, and no adverse environmental impacts were expected. A form sent to the DEH from IDEC on March 3, 2001 indicated that no carcinogens or reproductive toxins were being stored at the facility at that time. A letter sent to the DEH from Biogen Idec (formerly known as IDEC) on September 13, 2004 served to notify the DEH that all hazardous materials were removed from the facility as of September 13, 2004.

We reviewed Compliance Inspection Reports (CIRs) submitted for IDEC/Biogen Idec dating from March 10, 1997 to October 15, 2004. The following bulleted items include the pertinent information provided in the CIRs.

- No violations pertaining to hazardous substance releases were noted in the CIRs.
- During a new site inspection performed on March 10, 1997, a DEH inspector noted that a hazardous materials warehouse was located at the Site, and that the facility did not generate hazardous or biohazardous wastes.
- A DEH inspector noted that all hazardous materials were removed from the facility during an inactivation inspection performed for Biogen Idec on October 15, 2004.

Cytori Therapeutics

A Hazardous Materials Questionnaire was submitted on September 8, 2005 for Cytori. The questionnaire indicated that hazardous substances, such as compressed gases, flammable liquids, organic peroxides, oxidizers, cryogenics, toxic materials, and corrosive materials, were handled at the facility; however, no USTs were used or installed. A Business Owner/Operator Identification form, a Unified Program Facility Permit Application, and a Hazardous Materials Business Plan Certification Statement were sent to the DEH for Cytori on March 14, 2006. Information provided on the forms indicated that hazardous substances were handled at the facility; however, no USTs or aboveground petroleum storage tanks were used or installed. A new site inspection was performed at the Cytori facility on June 2, 2006. No violations pertaining to hazardous substance releases were noted in the CIR. A Medical Waste Management Plan dated July 31, 2006 indicated that Cytori generated biohazardous wastes including Sharps waste, non-sharp waste, solids, liquids, trace chemotherapy waste, and contaminated animal carcasses. A form sent to the DEH from Cytori on December 11, 2006 indicated carcinogens/reproductive toxins including 2-acetylaminofluorene, formaldehyde (gas), toluene, and trypan blue were handled at the facility. A Regulated Substance Disclaimer Information Form sent to the DEH from Cytori on December 11, 2006 indicated that regulated substances including allyl alcohol, formaldehyde (solution), hydrogen chloride, sodium azide, and hydrochloric acid were handled below their threshold quantities.

DEH Case No. H23213-001

Information provided by the DEH indicated that an unauthorized release of mineral oil was discovered at the former S-Cubed facility (3020 Callan Road) on May 15, 1991. Details regarding the release and a subsequent contamination analysis were summarized in a report entitled *Fate and Transport Evaluation of Mineral Oil Release*, prepared by Camp Dresser & McKee, Inc. (CDM), and dated March 11, 1993. Pertinent information provided in the 1993 report and a DEH Site Assessment Case Closure Summary is discussed in the following bulleted items.

- A room located on the first floor of the site building was used for the storage of radiation source tubes, which were used in the course of S-Cubed's "business of custom testing equipment." Information provided in the 1993 report and other information obtained in preparation of this Phase I ESA indicated that this room is located below the ground in the approximate location of the onsite pad-mounted electrical transformer on the west side of the site building. Cytori reportedly sealed off the room as part of recent building improvement activities, making the room inaccessible.
- Ten small-diameter, 20-foot long radiation source tubes were stored in a 12-inch-diameter, 20-foot-long steel containment vessel; the upper end of which reportedly extended a few inches above the concrete foundation. The tubes contained radioactive sources including Californium 252 and Cobalt 60. Comments made by a DEH representative in the Site Assessment Case Closure Summary indicated that the vessel was "one of several" vertically oriented tanks.

Information indicating that other vessels containing radiation source tubes were used by S-Cubed was not found in preparation of this Phase I ESA. We did not observe evidence of the upper portion of this, or any other containment vessel during our site reconnaissance.

- The tubes were surrounded by mineral oil for radiation shielding. On May 15, 1991, the S-Cubed staff noted abnormally high radiation readings and it was found that the mineral oil contained in the vessel had dropped approximately 10 to 20 inches. It was estimated that approximately 80 gallons of mineral oil was leaked into the surrounding soil within one to two days of this observations.
- The DEH was notified of the release on May 16, 1991; however, the event was incorrectly reportedly as an unauthorized UST release case. The DEH notified the California Regional Water Quality Control Board, San Diego Region (RWQCB) of the release.
- A Radiation Physicist of Maxwell Laboratories, Inc. analyzed the remaining oil in the vessel and found that the oil had not been “activated” by the radiation sources. Therefore, there was no risk in nearby substances becoming radioactive.
- S-Cubed removed the radiation source tubes and the mineral oil from the vessel, and backfilled the emptied vessel with clean sand.
- Based on subsurface investigations performed at the facility located approximately ¼ mile southwest of the Site at 10933 North Torrey Pines Road, depth to groundwater at the Site was estimated to be at least 80 feet below ground surface.
- CDM calculated the volume of soil containing mineral oil to be approximately 9 cubic yards and estimated that the mineral oil penetrated to a maximum depth of 33 feet below ground surface. However, notes made by a DEH representative on the report indicated that it was their belief that a maximum depth of penetration of approximately 59 feet below ground surface was a more accurate estimate. Given the calculated maximum depth of penetration of the mineral oil and the estimated depth to groundwater in the area, it was CDM’s opinion that there was a low likelihood that the groundwater at the Site had been impacted as a result of the mineral oil release.
- According to representatives of the DEH and RWQCB, “the contaminant is USP grade mineral oil which should not contain impurities above trace since it is designed to be used by people on skin and can be ingested for treating gastrointestinal distress.” Analysis of the mineral oil in the vessel indicated that it was not “activated.” As indicated by CDM and supported by the DEH, even if the oil was activated, the radiogenic daughters from the radiation sources would have reached stability within two years. For these reasons, the DEH and RWQCB concurred with CDM’s finding that the release of mineral oil would not pose a health risk to life or the environmental at the Site. As such, the 9 cubic yards of soil containing mineral oil was left in place and the case was awarded a “closed” status on November 1, 1993.

Based on the nature and “closed” status of DEH Case No. H23213-001, it is our opinion that there is a low likelihood that the unauthorized release of mineral oil presents an environmental concern to the Site at the current time.

5.4 City of San Diego Fire Department

We requested public records from the City of San Diego Fire Department (SDFD) for information pertaining to hazardous wastes, hazardous materials, and USTs on file for the current street addresses associated with the Site. Records provided by the SDFD included a permit application submitted on November 18, 2005 for Cytori. The application was for the use of carbon dioxide as part of a carbon dioxide gas system. Based on observations made during the site reconnaissance, this permit appears to be associated with the carbon dioxide tanks currently stored within the DI water shed. An additional permit application was submitted on August 11, 2006 for Cytori. The application was for the use of three liquid nitrogen ASTs; two with 240-liter capacities and one with a 217-liter capacity. Based on observations made during the site reconnaissance, this permit appears to be associated with the liquid nitrogen storage tanks currently stored within the site building. Copies of the SDFD records are presented in Appendix I.

5.5 County of San Diego Air Pollution Control District

We contacted the County of San Diego Air Pollution Control District (APCD) to obtain information pertaining to permits to operate APCD-regulated equipment and notices of violation on file for the street addresses currently associated with the Site. A copy of the permit to operate the current diesel-fueled generator located in the northeastern portion of the Site was provided by the APCD. The permit application was submitted for Cytori on February 5, 2007, and was approved on October 22, 2005. A copy of the APCD record is presented in Appendix J.

5.6 County of San Diego Department of Agriculture, Weights and Measures

We contacted the County of San Diego Department of Agriculture, Weights and Measures for information regarding pesticide use records on file for the current APN associated with the Site. The Department maintains such records for approximately four years. According to Department personnel, no pesticide use records were found for the Site for the years 2004 through 2007. Correspondence from the Department is presented in Appendix J.

6. FINDINGS

Based on the results of this Phase I ESA, the following table presents a summary of findings and opinions associated with this Phase I ESA performed for the Site, including known or suspect RECs, historical RECs, and de minimis environmental conditions. Detailed information regarding the recommended actions identified in the table is presented in Section 7.

Assessment Category	REC (Y/N)	Recommended Actions	Report Section
Hazardous Substances/Petroleum Products	N	NFA	2.1.1, 4.2, 4.3, 5.1.1, 5.3, 5.4, and 5.6
Hazardous Wastes	N	NFA	2.1.2, 4.2, 4.3, 5.1.1, and 5.3
Non-Hazardous Wastes	N	NFA	2.1.3
Aboveground/Underground Storage Tanks	N	NFA	2.1.4, 4.2, 4.3, 5.1.1, 5.3, and 5.5
Unidentified Substance Containers	N	NFA	2.1.5
Equipment Potentially Containing PCBs	N	DM	2.1.6
Wastewater Systems	N	NFA	2.1.7 and 5.3
Evidence of Releases	N	DM	2.1.8, 4.2, 4.3, 5.1.1, 5.3, and 5.4
Pools of Liquid, Pits, Ponds, Lagoons	N	NFA	2.1
Wells	N	NFA	2.1, 3.3, and 5.2
Other Site Issues	N	NFA	2.1.9, 4.3, and 5.3
Nearby Properties	N	NFA	2.3 and 5.1.3
Historical Land Use – Site	N	PHREC	4.1, 4.2, and 4.3
Historical Land Use – Nearby Properties	N	NFA	4.1
Recommended Action: DM = De minimis environmental condition where additional activities should be conducted (specified in Section 7 below). NFA = No further action required at this time. PHREC = Potential historical REC where additional activities do not appear warranted at this time.			

7. OPINIONS, CONCLUSIONS, AND RECOMMENDATIONS

The following sections summarize our opinions and conclusions and our recommendations with regard to environmental issues associated with the Site.

7.1 Opinions and Conclusions

We have performed a Phase I ESA, in conformance with the scope and limitations of ASTM E 1527-05, of the approximately 5.03-acre parcel known as Torrey Pines Corporate Center and located in the city and county of San Diego, California. Any exceptions to, or deletions from, this practice are described in Section 1.2 of this report. This assessment has revealed no evidence of current RECs in connection with the Site. Please note the potential historical RECs and de minimis conditions identified during the research conducted for this Phase I ESA.

- Potential historical RECs were identified at the Site as a result of the following activities:
 - IRT and S-Cubed, tenants of the Site from approximately 1983 to sometime between 1993 and 1994, stored and used radioactive materials during their tenancy. Based on information obtained in preparation of this Phase I ESA, the radioactive sources previously located at the Site were properly decommissioned when IRT and S-Cubed vacated the property. Information indicating that radioactive materials currently exist at the Site was not found. Based on this information, we believe that the fact that radioactive materials were formerly stored and used at the Site does not present an environmental concern to the Site at the current time.

- Radiation source tubes reportedly used by S-Cubed were previously stored in a 20-foot-long vessel located beneath the ground surface on the west side of the site building. The tubes were surrounded by mineral oil for radiation shielding. An unauthorized release of approximately 80 gallons of the mineral oil was discovered in May 1991, saturating approximately 9 cubic yards of the surrounding soil down to a maximum depth of approximately 59 feet below ground surface (DEH Case No. H23213-001).

Because groundwater beneath the Site was calculated to be at least 80 feet below ground surface, it was not considered likely that the groundwater at the Site had been impacted as a result of the mineral oil release. According to representatives of the DEH and RWQCB, "the contaminant is USP grade mineral oil which should not contain impurities above trace since it is designed to be used by people on skin and can be ingested for treating gastrointestinal distress." Analysis of the mineral oil in the vessel indicated that it was not "activated" (i.e., the leaked oil did not cause the surrounding materials to be radioactive). For these reasons, the DEH and RWQCB concurred that the release of mineral oil would not pose a health risk to life or the environment at the Site. As such, the 9 cubic yards of soil containing mineral oil was left in place and the case was awarded a "closed" status in November 1993. Based on the nature and "closed" status of DEH Case No. H23213-001, it is our opinion that the unauthorized release of mineral oil does not present an environmental concern to the Site at the current time.

- We observed pooled hydraulic fluid in the metal bases of two of the onsite elevator equipment units. Stained concrete and absorbent material saturated with oil was observed beneath a vacuum pump located within the hazardous waste storage room. Better housekeeping practices should be instituted at the Site to prevent leaks from onsite equipment.

7.2 Recommendations

It is the Environmental Professional's opinion that all appropriate inquiry has been conducted, in accordance with *ASTM Standard E 1527-05* and *40 CFR Part 312*, into the current/previous environmental condition of the Site, and that conditions indicative of significant releases or threatened releases of hazardous substances on, at, in or to the Site are not associated with the Site at the current time. Further, it is the opinion of the Environmental Professional that the data gaps identified in Section 1.2 did not affect the ability of the Environmental Professional to render this opinion. Based on the above information, it is the Environmental Professional's opinion that, at the current time, additional environmental assessment of the Site is not necessary.

8. LIMITATIONS

The conclusions presented in this report are based upon reasonable visual observations made at the site and research of available materials within the scope and budget of the contract. The information presented is relevant to the dates of our site visit and should not be relied upon to represent conditions at later dates. The opinions expressed herein are based on our experience with similar studies and information obtained

during our effort. If additional information becomes available, we request the opportunity to review the information and modify our opinions, if necessary.

The visual observations we made were limited to accessed portions of the Site and the contiguous sites. Subsurface exploration, soil and groundwater sampling, and analytical laboratory testing were not within the scope of this study. In addition, this study did not include a 50-year chain-of-title review or a review of fire insurance maps. We conducted the Phase I ESA at the Site expressly and solely for Life Sciences Group: An HCP Company. Any reliance upon the information, conclusions, or recommendations contained in this report for purposes other than the transfer of the subject property shall be at the sole liability of the party undertaking such use.

Our services have been conducted using the degree of care and skill ordinarily exercised, under similar circumstances, by environmental sciences consultants practicing in this or similar localities. No other warranty, expressed or implied, is made as to the professional opinions presented in this report. We are not responsible for the conclusions, opinions, or recommendations made by others based on this information.

This report was compiled based partially on information supplied to us from outside sources, other information that is in the public domain, and visual observations made at the property. The conclusions and recommendations herein are based solely on the information we obtained in compiling the report. We make no warranty as to the accuracy of statements made by others which may be contained in the report, nor are any other warranties or guarantees, express or implied, included or intended by the report except that it has been prepared in accordance with the current generally accepted practices and standards consistent with the level of care and skill exercised under similar circumstances by other professional consultants or firms performing the same or similar services. This report is intended to be used by the party authorizing the audit for the transfer of the property assessed. None of the work performed hereunder shall constitute or be represented as a legal opinion of any kind or nature, but shall be a representation of findings of fact from records examined.

This evaluation does not address the presence of the following conditions unless specifically stated otherwise:

- Radon, electromagnetic fields, asbestos, lead-containing paint, mold, burn ash, lead in drinking water, methane gas, and wetlands;
- Chemical compounds which naturally occur in the environment;
- Commonly used household cleaning products, building materials, and consumables that may be hazardous; and
- Contaminants or contaminant concentrations that are not currently a concern but may be under future regulatory standards.

9. REFERENCES

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1980 Aerial photograph (source/photograph no.: AMI-SD-80-10061).
1990-91 Aerial photograph (source/photograph no.: AMI-SD-90-91-12679).
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- United States Geological Survey. (1967). *Del Mar, California 7.5' Quadrangle (Scale:1:24,000)*. Photorevised 1975.

10. QUALIFICATIONS

Jim Brake states the following:

I declare that, to the best of my professional knowledge and belief, I meet the definition of Environmental Professional as defined in Section 312.10 of 40 CFR Part 312. I have the specific qualifications based on education, training, and experience, to assess a property of the nature, history, and setting of the subject property. I have developed and performed all the appropriate inquiries in conformance with the standards and practices set forth in 40 CFR Part 312.

Jim Brake
Senior Geologist

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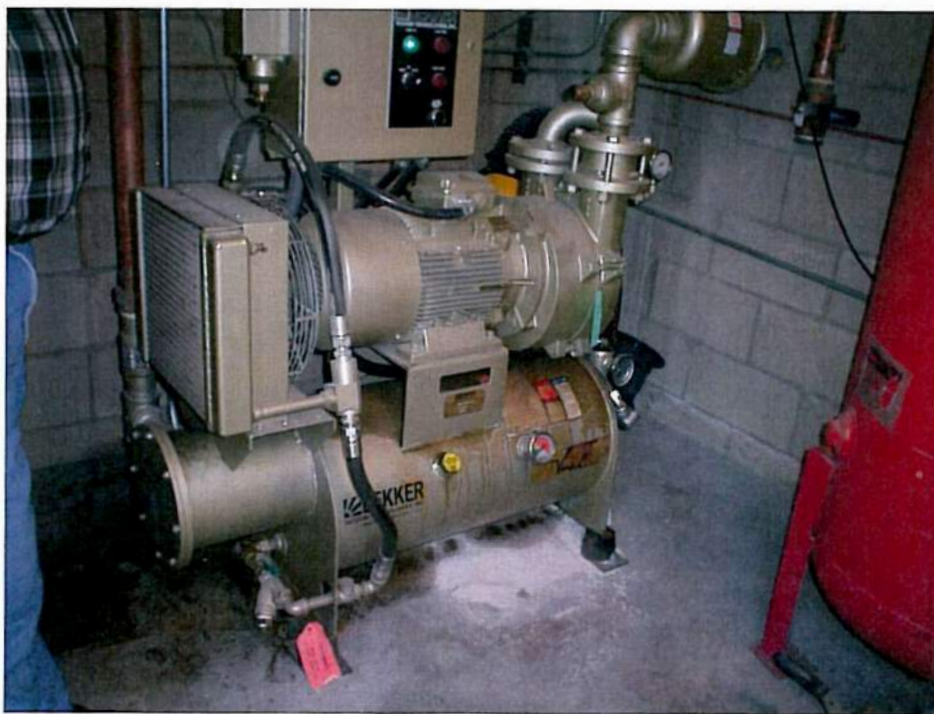
1. Vicinity Map
2. Site Plan
3. Topographic Map

Appendixes:

- A. List of Terms
- B. Phase I ESA Proposal No. EP-2007-084
- C. Sanborn "No Maps Available" Letter
- D. Site Photographs
- E. City Directory Report
- F. Owner and Tenant Interview Questionnaires
- G. Cytori Hazardous Materials Business Plan (Excerpts) and Chemical Inventory Lists
- H. Regulatory Database Report
- I. Agency Records
- J. Agency Correspondence



Photograph #3
Empty drums and drums containing waste oil and coolant within the hazardous waste storage room located on first floor of the site building.



Photograph #4
Vacuum pump located within the hazardous waste storage room.

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3020 AND 3030 CALLAN ROAD
SAN DIEGO, CALIFORNIA

PROJECT NO. 09763-06-01



Photograph #5

Biohazardous waste storage shed located immediately northeast of the site building.



Photograph #6

**Equipment within the deionized (DI) water shed
located in the northeastern portion of the Site.**

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Photograph #7
Carbon dioxide cylinders located within the DI water shed.



Photograph #8
Flammable hazardous materials storage cabinet located within the DI water shed.

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Photograph #9
Interior view of the machine shop located on the first floor of the site building.



Photograph #10
Interior view of the warehouse located adjacent to the machine shop.

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Photograph #11
Hazardous waste storage cage located within the warehouse.



Photograph #12
Histology laboratory located on the first floor of the site building.

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Photograph #13
Office space located on the third floor of the site building.



Photograph #14
Drums containing germicidal detergent complex and cutting and grinding fluid stored on the first floor of the site building.

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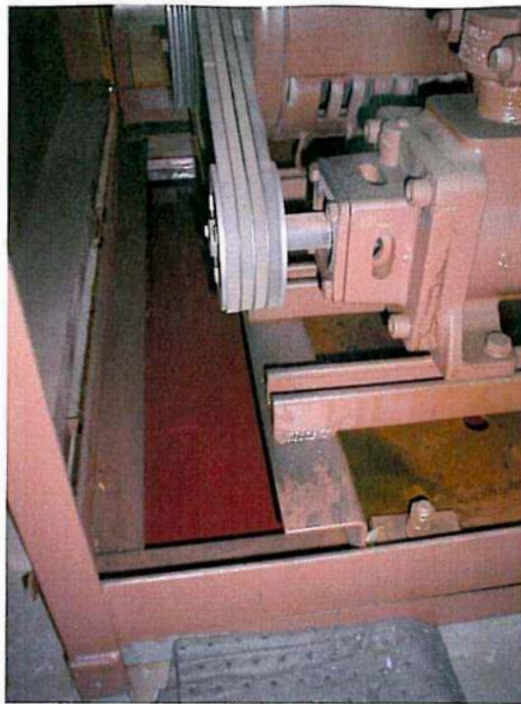
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SITE PHOTOGRAPHS

3020 AND 3030 CALLAN ROAD
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Photograph #15
Pooled oil located at the base of elevator equipment located in the southern portion of the first floor of the site building.



Photograph #16
Pooled oil located at the base of elevator equipment located in the northern portion of the first floor of the site building.

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Photograph #17
Compressed nitrogen cylinder located within the main science laboratory on the second floor of the site building.



Photograph #18
57-gallon liquid nitrogen storage tank located within the equipment room of the main science laboratory.

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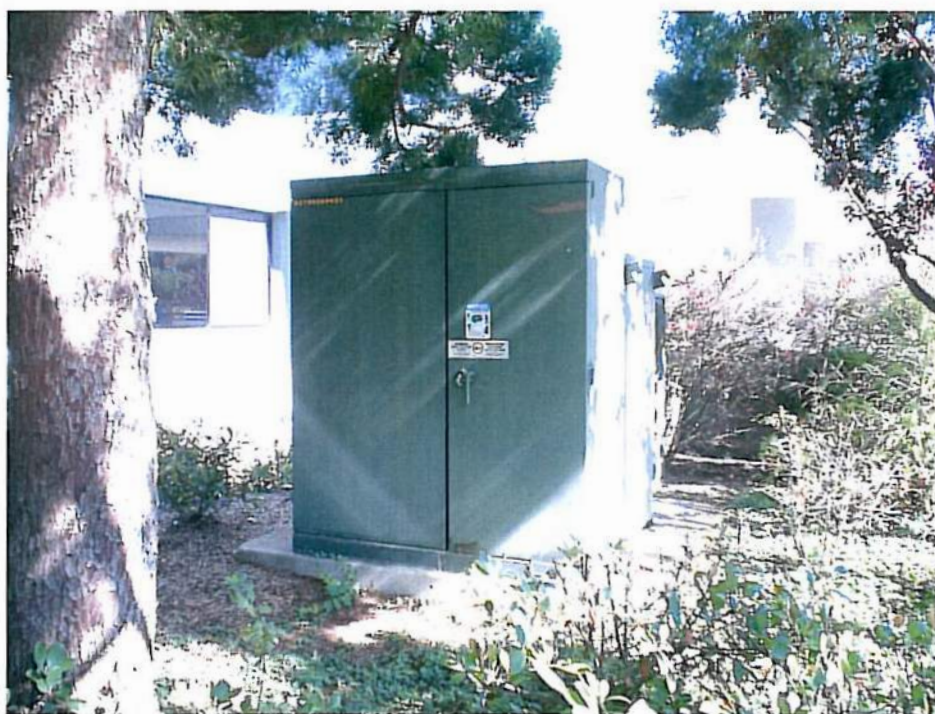
SITE PHOTOGRAPHS

**3020 AND 3030 CALLAN ROAD
 SAN DIEGO, CALIFORNIA**

PROJECT NO. 09763-06-01



Photograph #19
Grease trap access covers adjacent to the food preparation room located on the first floor of the site building.



Photograph #20
Pad-mounted electrical transformer located on the west side of the site building.

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SAN DIEGO, CALIFORNIA**

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Photograph #21
Eastern elevation of the mechanical equipment
building located in the northwestern portion of the Site.



Photograph #22
Interior view of the mechanical equipment building.

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3020 AND 3030 CALLAN ROAD
SAN DIEGO, CALIFORNIA

PROJECT NO. 09763-06-01



Photograph #23
Containers of antifoulant solution and water treatment microbiocide located within the mechanical equipment building.



Photograph #24
Containers of cooling system treatment chemicals located within the mechanical equipment building.

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SITE PHOTOGRAPHS

**3020 AND 3030 CALLAN ROAD
 SAN DIEGO, CALIFORNIA**

PROJECT NO. 09763-06-01



Photograph #25
Adjacent property to the north: office/laboratory development
(11099 North Torrey Pines Road) located within Torrey Pines Science Park.



Photograph #26
Adjacent property to the east: undeveloped land.

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3020 AND 3030 CALLAN ROAD
SAN DIEGO, CALIFORNIA

PROJECT NO. 09763-06-01



Photograph #27
Adjacent property to the south: undeveloped land.



Photograph #28
**Adjacent property to the west – office/laboratory developments
 (11011-11085 North Torrey Pines Road) located within Torrey Pines Science Park.**

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**3020 AND 3030 CALLAN ROAD
 SAN DIEGO, CALIFORNIA**

PROJECT NO. 09763-06-01

APPENDIX



E



Prepared for: Erin Murray - Geocon Consultants, Inc.

Client Job No/Name: 097630601

TIS Log No: 23854

Target Address:

3020, 3030 Callan Road

San Diego, CA 92121

August 27, 2007

DISCLAIMER

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Track Info Services City Directory Report

Notes:

- Target address is in bold, the next lowest address on the same side of the street is to the left and the next highest address on the same side of the street is to the right.
- The next lowest and highest addresses for the same side of the street as the target may or may not be adjacent, they are the closest listed in the source consulted.
- Occupant names and statements such as 'Vacant', 'No info' and 'Under constr' are verbatim.
- Occupant names are listed once per address although they may be listed multiple times in the directory.
- A forward slash between names indicates multiple companies listed under same main company.
- Previous refers to source and entries listed above what is being read.
- The source used is cited in the row above referenced address and occupant.

APPENDIX

F

**PROPERTY BACKGROUND INFORMATION QUESTIONNAIRE FOR PROPERTY
OWNER, OCCUPANT, OR REPRESENTATIVE**

- 1) Describe the current uses of the Property. How long has the property been used for these purposes, and how long have you occupied the Property?

Research and Development, General Office.

owned since 3rd Qtr 2001

- 2) Describe the past uses, owners, and operators of the Property.

Built in 2000 - previously occupied by IDEC Pharm.

Subleased currently to Cytari - similar uses

- 3) List the existing structures on the property and their age.

2 - 3 level buildings - one level sub-grade - built 2000

- 4) Utilities including electricity, natural gas, water, sewer, and trash removal are provided to the Property by which utility/companies

Water > City of San Diego

Sewer

Electricity SD G&E

Natural Gas?

Trash - Tenet resp.

- 5) Have the Property or adjoining properties been used for industrial activities including the following? (Please note that an adjoining property is a property that is next to your Property, even if it is across the street).

Gasoline Station	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Printing Facility	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Metal Plating Manufacturing	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Landfill	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Motor Repair Facility	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Dry Cleaners	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Junkyard	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Waste Treatment	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Storage, Disposal, or Recycling Facility	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No

Describe other industrial activities, if any.

N/A

PROPERTY BACKGROUND INFORMATION QUESTIONNAIRE FOR PROPERTY
OWNER, OCCUPANT, OR REPRESENTATIVE

- 17) Do fill pipes, vent pipes, or access ways indicating the presence of underground storage tanks exist on the Property?
[] Yes ☒ No [] Unknown
- 18) Have fill pipes or vent pipes which may indicate the presence of an underground storage tank been removed from the Property?
[] Yes [] No ☒ Unknown
- 19) Are floor drains stained with anything other than water in any area on the Property?
[] Yes ☒ No [] Unknown
- 20) Do floor drains on the Property emit foul odors?
[] Yes ☒ No [] Unknown
- 21) Is the Property served by private well or non-public water source?
[] Yes ☒ No [] Unknown
- 22) Are contaminants known to exist in any private well or non-public water system serving the Property?
[] Yes ☒ No [] Unknown
- 23) Does the Property discharge wastewater, other than domestic wastewater or storm water, into the sewer?
[] Yes [] No ☒ Unknown
- 24) Other than permission for domestic hookup, have any city, county, or local permits for wastewater discharge been issued to the Property?
[] Yes [] No ☒ Unknown
- 25) Does a septic tank exist, or has one existed previously at the Property?
[] Yes ☒ No [] Unknown
- 26) Do cesspools or cisterns currently exist on the Property?
[] Yes ☒ No [] Unknown
- 27) Have cesspools or cisterns previously existed on the Property?
[] Yes [] No ☒ Unknown
- 28) Other than storm water, does the Property discharge waste water onto the neighboring Property?
[] Yes ☒ No [] Unknown
- 29) Is there a transformer or capacitor that may contain PCBs on the Property?
[] Yes [] No ☒ Unknown

PROPERTY BACKGROUND INFORMATION QUESTIONNAIRE FOR PROPERTY
OWNER, OCCUPANT, OR REPRESENTATIVE

41) Do you have any specialized knowledge or experience related to the Property or near-by properties, including the knowledge of the chemicals and processes used by this type of business?

☐ Yes ☒ No ☐ Unknown

42) Based in your knowledge or experience related to the Property, are there any obvious indicators that point to the presence or likely presence of contamination at the Property?

☐ Yes ☒ No ☐ Unknown

43) If the purchase price of the Property was below fair market value, did this occur because contamination was/is known or believed to be present at the Property?

☐ Yes ☒ No ☐ N/A

Cynthia Jacob
NAME (IN PRINT)

8/21/07
DATE

[Signature]
SIGNATURE

☐ Owner ☐ Occupant ☒ Owner Representative

PROPERTY ADDRESS:

3070/3030 Callan Road, San Diego

APPENDIX

G



SAN DIEGO COUNTY
DEPARTMENT OF ENVIRONMENTAL HEALTH - CUPA
HAZARDOUS MATERIALS DIVISION
P.O. BOX 129261, SAN DIEGO, CA 92112-9261
(619) 338-2222 FAX (619) 338-2377
1-800-253-9933

____/____/____
Date Submitted

HAZARDOUS MATERIALS INVENTORY - CHEMICAL DESCRIPTION

(One page per material per building or area)

☒ ADD

☐ DELETE

☐ REVISE

200

Page 1 of 3

I. FACILITY INFORMATION

BUSINESS NAME (Same as FACILITY NAME or DBA - Doing Business As)

Cytori Therapeutics, Inc.

3

CHEMICAL LOCATION

SEE SITE MAP/PLAN

201

CHEMICAL LOCATION CONFIDENTIAL

EPCRA

☐ YES ☒ NO

202

FACILITY ID #

3

7

0

0

0

0

0

0

0

0

0

0

0

0

0

0

0

0

0

0

0

0

0

0

0

0

0

0

0

MAP# (optional)

203

GRID# (optional)

204

NOT USED

NOT USED

I. CHEMICAL INFORMATION

CHEMICAL NAME

Diesel Oil

205

TRADE SECRET

☐ YES ☒ NO

206

If Subject to EPCRA, refer to instructions

COMMON NAME

Diesel Fuel Oil

207

EHS*

☐ YES ☒ NO

208

CAS#

68334-30-5

209

*If EHS is "Yes", all amounts below must be in lbs.

FIRE CODE HAZARD CLASSES (Complete if required by CUPA)

210

NOT REQUIRED BY SAN DIEGO COUNTY

HAZARDOUS MATERIAL
TYPE (Check one item only)

☒ a. PURE

☐ b. MIXTURE

☐ c. WASTE

211

RADIOACTIVE ☐ Yes ☒ No

212

CURIES

213

PHYSICAL STATE
(Check one item only)

☐ a. SOLID

☒ b. LIQUID

☐ c. GAS

214

LARGEST CONTAINER 500

215

FED HAZARD CATEGORIES

☐ a. FIRE

☐ b. REACTIVE

☒ c. PRESSURE RELEASE

☐ d. ACUTE HEALTH

☐ e. CHRONIC HEALTH

216

AVERAGE DAILY AMOUNT

217

MAXIMUM DAILY AMOUNT

218

ANNUAL WASTE AMOUNT

219

STATE WASTE CODE

220

395

395

UNITS*

☒ a. GALLONS

☐ b. CUBIC FEET

☐ c. POUNDS

☐ d. TONS

221

DAYS ON SITE:

222

(Check one item only) * If EHS, amount must be in pounds.

365

STORAGE
CONTAINER

☒ a. ABOVE GROUND TANK

☐ e. PLASTIC/NONMETALLIC DRUM

☐ i. FIBER DRUM

☐ m. GLASS BOTTLE

☐ q. RAIL CAR

☐ b. UNDERGROUND TANK

☐ f. CAN

☐ j. BAG

☐ n. PLASTIC BOTTLE

☐ r. OTHER

☐ c. TANK INSIDE BUILDING

☐ g. CARBOY

☐ k. BOX

☐ o. TOTE BIN

☐ d. STEEL DRUM

☐ h. SILO

☐ l. CYLINDER

☐ p. TANK WAGON

223

STORAGE PRESSURE

☒ a. AMBIENT

☐ b. ABOVE AMBIENT

☐ c. BELOW AMBIENT

224

STORAGE TEMPERATURE

☐ a. AMBIENT

☐ b. ABOVE AMBIENT

☐ c. BELOW AMBIENT

☒ d. CRYOGENIC

225

%WT

HAZARDOUS COMPONENT (For mixture or waste only)

EHS

CAS #

1

226

227

☐ Yes ☒ No

228

229

2

230

231

☐ Yes ☐ No

232

233

3

234

235

☐ Yes ☐ No

236

237

4

238

239

☐ Yes ☐ No

240

241

5

242

243

☐ Yes ☐ No

244

245

ADDITIONAL LOCALLY COLLECTED INFORMATION

246

☐ CHECK THIS BOX IF THIS HAZARDOUS MATERIAL IS A TOXIC GAS THAT HAS A THRESHOLD LIMIT CONCENTRATION (TLV) ≤ 10 ppm.
THIS HAZARDOUS MATERIAL MUST BE INVENTORIED IN ANY QUANTITY.

☐ CHECK THIS BOX IF THIS HAZARDOUS MATERIAL IS SUBJECT TO RMP REQUIREMENTS AND/OR CAL/ARP REQUIREMENTS



SAN DIEGO COUNTY
DEPARTMENT OF ENVIRONMENTAL HEALTH - CUPA
HAZARDOUS MATERIALS DIVISION
P.O. BOX 129261, SAN DIEGO, CA 92112-9261
(619) 338-2222 FAX (619) 338-2377
1-800-253-9933

Date Submitted

HAZARDOUS MATERIALS INVENTORY - CHEMICAL DESCRIPTION

(One page per material per building or area)

<input checked="" type="checkbox"/> ADD		<input type="checkbox"/> DELETE		<input type="checkbox"/> REVISE		200		Page 1 of 3	
I. FACILITY INFORMATION									
BUSINESS NAME (Same as FACILITY NAME or DBA - Doing Business As) 3									
Argon									
CHEMICAL LOCATION 201						CHEMICAL LOCATION CONFIDENTIAL 202			
SEE SITE MAP/PLAN						EPCRA <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO			
FACILITY ID #		3	7	0	0	0	MAP# (optional) 203		GRID# (optional) 204
							NOT USED		NOT USED
II. CHEMICAL INFORMATION									
CHEMICAL NAME 205						TRADE SECRET <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO 206			
Argon						If Subject to EPCRA, refer to instructions			
COMMON NAME 207						EHS* <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO 208			
Argon									
CAS# 209						*If EHS is "Yes", all amounts below must be in lbs.			
7440-37-1									
FIRE CODE HAZARD CLASSES (Complete if required by CUPA) 210									
NOT REQUIRED BY SAN DIEGO COUNTY									
HAZARDOUS MATERIAL TYPE (Check one item only) 211						RADIOACTIVE <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No 212		CURIES 213	
<input checked="" type="checkbox"/> a. PURE <input type="checkbox"/> b. MIXTURE <input type="checkbox"/> c. WASTE									
PHYSICAL STATE (Check one item only) 214						LARGEST CONTAINER 225 215			
<input type="checkbox"/> a. SOLID <input type="checkbox"/> b. LIQUID <input checked="" type="checkbox"/> c. GAS									
FED HAZARD CATEGORIES <input type="checkbox"/> a. FIRE <input type="checkbox"/> b. REACTIVE <input checked="" type="checkbox"/> c. PRESSURE RELEASE <input type="checkbox"/> d. ACUTE HEALTH <input type="checkbox"/> e. CHRONIC HEALTH 216									
AVERAGE DAILY AMOUNT 217		MAXIMUM DAILY AMOUNT 218		ANNUAL WASTE AMOUNT 219		STATE WASTE CODE 220			
225		450							
UNITS* (Check one item only) * If EHS, amount must be in pounds. 221						DAYS ON SITE: 222			
<input type="checkbox"/> a. GALLONS <input checked="" type="checkbox"/> b. CUBIC FEET <input type="checkbox"/> c. POUNDS <input type="checkbox"/> d. TONS						365			
STORAGE CONTAINER		<input type="checkbox"/> a. ABOVE GROUND TANK <input type="checkbox"/> e. PLASTIC/NONMETALLIC DRUM <input type="checkbox"/> i. FIBER DRUM <input checked="" type="checkbox"/> m. GLASS BOTTLE <input type="checkbox"/> q. RAIL CAR		<input type="checkbox"/> b. UNDERGROUND TANK <input type="checkbox"/> f. CAN <input type="checkbox"/> j. BAG <input type="checkbox"/> n. PLASTIC BOTTLE <input type="checkbox"/> r. OTHER		<input checked="" type="checkbox"/> c. TANK INSIDE BUILDING <input type="checkbox"/> g. CARBOY <input type="checkbox"/> k. BOX <input type="checkbox"/> o. TOTE BIN		<input type="checkbox"/> d. STEEL DRUM <input type="checkbox"/> h. SILO <input type="checkbox"/> l. CYLINDER <input type="checkbox"/> p. TANK WAGON 223	
STORAGE PRESSURE <input type="checkbox"/> a. AMBIENT <input checked="" type="checkbox"/> b. ABOVE AMBIENT <input type="checkbox"/> c. BELOW AMBIENT 224									
STORAGE TEMPERATURE <input checked="" type="checkbox"/> a. AMBIENT <input type="checkbox"/> b. ABOVE AMBIENT <input type="checkbox"/> c. BELOW AMBIENT <input type="checkbox"/> d. CRYOGENIC 225									
%WT 226		HAZARDOUS COMPONENT (For mixture or waste only) 227				EHS 228		CAS # 229	
1						<input type="checkbox"/> Yes <input type="checkbox"/> No			
2						<input type="checkbox"/> Yes <input type="checkbox"/> No			
3						<input type="checkbox"/> Yes <input type="checkbox"/> No			
4						<input type="checkbox"/> Yes <input type="checkbox"/> No			
5						<input type="checkbox"/> Yes <input type="checkbox"/> No			
ADDITIONAL LOCALLY COLLECTED INFORMATION 246									
<input type="checkbox"/> CHECK THIS BOX IF THIS HAZARDOUS MATERIAL IS A TOXIC GAS THAT HAS A THRESHOLD LIMIT CONCENTRATION (TLV) ≤ 10 ppm. THIS HAZARDOUS MATERIAL MUST BE INVENTORIED IN ANY QUANTITY.									
<input type="checkbox"/> CHECK THIS BOX IF THIS HAZARDOUS MATERIAL IS SUBJECT TO RMP REQUIREMENTS AND/OR CAL/ARP REQUIREMENTS									



SAN DIEGO COUNTY
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HAZARDOUS MATERIALS DIVISION
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1-800-253-9933

____/____/____
Date Submitted

HAZARDOUS MATERIALS INVENTORY - CHEMICAL DESCRIPTION

(One page per material per building or area)

<input checked="" type="checkbox"/> ADD		<input type="checkbox"/> DELETE		<input type="checkbox"/> REVISE		200		Page 3 of 10							
I. FACILITY INFORMATION															
BUSINESS NAME (Same as FACILITY NAME or DBA - Doing Business As) 3 Cytori Therapeutics, Inc.															
CHEMICAL LOCATION 201 <i>SEE SITE MAP/PLAN</i>						CHEMICAL LOCATION CONFIDENTIAL EPCRA 202 <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO									
FACILITY ID #		3	7	0	0	0	2	0	5	9	7	8	1	MAP# (optional) 203 <i>NOT USED</i>	GRID# (optional) 204 <i>NOT USED</i>
I. CHEMICAL INFORMATION															
CHEMICAL NAME 205 Nitrogen, Compressed						TRADE SECRET 206 <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO <small>If Subject to EPCRA, refer to instructions</small>									
COMMON NAME 207 Nitrogen, Compressed						EHS* 208 <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO									
CAS# 209 7727-37-9						*If EHS is "Yes", all amounts below must be in lbs.									
FIRE CODE HAZARD CLASSES (Complete if required by CUPA) 210 <i>NOT REQUIRED BY SAN DIEGO COUNTY</i>															
HAZARDOUS MATERIAL TYPE (Check one item only) 211 <input checked="" type="checkbox"/> a. PURE <input type="checkbox"/> b. MIXTURE <input type="checkbox"/> c. WASTE						RADIOACTIVE <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No 212		CURIES 213							
PHYSICAL STATE (Check one item only) 214 <input type="checkbox"/> a. SOLID <input type="checkbox"/> b. LIQUID <input checked="" type="checkbox"/> c. GAS						LARGEST CONTAINER 300 215									
FED HAZARD CATEGORIES <input type="checkbox"/> a. FIRE <input type="checkbox"/> b. REACTIVE <input checked="" type="checkbox"/> c. PRESSURE RELEASE <input type="checkbox"/> d. ACUTE HEALTH <input type="checkbox"/> e. CHRONIC HEALTH 216															
AVERAGE DAILY AMOUNT 217 600			MAXIMUM DAILY AMOUNT 218 600			ANNUAL WASTE AMOUNT 219		STATE WASTE CODE 220							
UNITS* (Check one item only) * If EHS, amount must be in pounds. 221 <input type="checkbox"/> a. GALLONS <input checked="" type="checkbox"/> b. CUBIC FEET <input type="checkbox"/> c. POUNDS <input type="checkbox"/> d. TONS						DAYS ON SITE: 222 365									
STORAGE CONTAINER 223 <input type="checkbox"/> a. ABOVE GROUND TANK <input type="checkbox"/> e. PLASTIC/NONMETALLIC DRUM <input type="checkbox"/> i. FIBER DRUM <input type="checkbox"/> m. GLASS BOTTLE <input type="checkbox"/> q. RAIL CAR <input type="checkbox"/> b. UNDERGROUND TANK <input type="checkbox"/> f. CAN <input type="checkbox"/> j. BAG <input type="checkbox"/> n. PLASTIC BOTTLE <input type="checkbox"/> r. OTHER <input type="checkbox"/> c. TANK INSIDE BUILDING <input type="checkbox"/> g. CARBOY <input type="checkbox"/> k. BOX <input type="checkbox"/> o. TOTE BIN <input type="checkbox"/> d. STEEL DRUM <input type="checkbox"/> h. SILO <input checked="" type="checkbox"/> l. CYLINDER <input type="checkbox"/> p. TANK WAGON															
STORAGE PRESSURE 224 <input type="checkbox"/> a. AMBIENT <input checked="" type="checkbox"/> b. ABOVE AMBIENT <input type="checkbox"/> c. BELOW AMBIENT															
STORAGE TEMPERATURE 225 <input checked="" type="checkbox"/> a. AMBIENT <input type="checkbox"/> b. ABOVE AMBIENT <input type="checkbox"/> c. BELOW AMBIENT <input type="checkbox"/> d. CRYOGENIC															
%WT 226		HAZARDOUS COMPONENT (For mixture or waste only) 227				EHS 228		CAS # 229							
1						<input type="checkbox"/> Yes <input type="checkbox"/> No									
2						<input type="checkbox"/> Yes <input type="checkbox"/> No									
3						<input type="checkbox"/> Yes <input type="checkbox"/> No									
4						<input type="checkbox"/> Yes <input type="checkbox"/> No									
5						<input type="checkbox"/> Yes <input type="checkbox"/> No									
ADDITIONAL LOCALLY COLLECTED INFORMATION 246															
<input type="checkbox"/> CHECK THIS BOX IF THIS HAZARDOUS MATERIAL IS A TOXIC GAS THAT HAS A THRESHOLD LIMIT VALUE (TLV) ≤ 10 ppm. THIS HAZARDOUS MATERIAL MUST BE INVENTORIED IN ANY QUANTITY.															
<input type="checkbox"/> CHECK THIS BOX IF THIS HAZARDOUS MATERIAL IS SUBJECT TO RMP REQUIREMENTS AND/OR CAL/ARP REQUIREMENTS															



SAN DIEGO COUNTY
DEPARTMENT OF ENVIRONMENTAL HEALTH - CUPA
HAZARDOUS MATERIALS DIVISION
P.O. BOX 129261, SAN DIEGO, CA 92112-9261
(619) 338-2222 FAX (619) 338-2377
1-800-253-9933

/ /
Date Submitted

HAZARDOUS MATERIALS INVENTORY - CHEMICAL DESCRIPTION

(One page per material per building or area)

<input checked="" type="checkbox"/> ADD		<input type="checkbox"/> DELETE		<input type="checkbox"/> REVISE		200		Page 5 of 10	
I. FACILITY INFORMATION									
BUSINESS NAME (Same as FACILITY NAME or DBA - Doing Business As)								3	
Cytori Therapeutics, Inc.									
CHEMICAL LOCATION								201	
SEE SITE MAP/PLAN								202	
FACILITY ID #								203	
3 7 0 0 0 2 0 5 9 7 8								204	
MAP# (optional)								204	
NOT USED								NOT USED	
I. CHEMICAL INFORMATION									
CHEMICAL NAME								205	
Hydrotreated Naphthenic Oil Solution								206	
COMMON NAME								207	
Cutter EXP HW (Spartan Chemical Company)								208	
CAS#								209	
Mixture								209	
FIRE CODE HAZARD CLASSES (Complete if required by CUPA)								210	
NOT REQUIRED BY SAN DIEGO COUNTY									
HAZARDOUS MATERIAL TYPE (Check one item only)								211	
<input type="checkbox"/> a. PURE <input checked="" type="checkbox"/> b. MIXTURE <input type="checkbox"/> c. WASTE								212	
RADIOACTIVE <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No								213	
CURIES									
PHYSICAL STATE (Check one item only)								214	
<input type="checkbox"/> a. SOLID <input checked="" type="checkbox"/> b. LIQUID <input type="checkbox"/> c. GAS								215	
LARGEST CONTAINER 55									
FED HAZARD CATEGORIES								216	
<input type="checkbox"/> a. FIRE <input type="checkbox"/> b. REACTIVE <input type="checkbox"/> c. PRESSURE RELEASE <input checked="" type="checkbox"/> d. ACUTE HEALTH <input type="checkbox"/> e. CHRONIC HEALTH									
AVERAGE DAILY AMOUNT								217	
55								218	
MAXIMUM DAILY AMOUNT								219	
110								220	
ANNUAL WASTE AMOUNT								221	
STATE WASTE CODE								222	
UNITS* <input checked="" type="checkbox"/> a. GALLONS <input type="checkbox"/> b. CUBIC FEET <input type="checkbox"/> c. POUNDS <input type="checkbox"/> d. TONS								223	
(Check one item only) * If EHS, amount must be in pounds.								365	
STORAGE CONTAINER								224	
<input type="checkbox"/> a. ABOVE GROUND TANK <input checked="" type="checkbox"/> e. PLASTIC/NONMETALLIC DRUM <input type="checkbox"/> i. FIBER DRUM <input type="checkbox"/> m. GLASS BOTTLE <input type="checkbox"/> q. RAIL CAR								225	
<input type="checkbox"/> b. UNDERGROUND TANK <input type="checkbox"/> f. CAN <input type="checkbox"/> j. BAG <input type="checkbox"/> n. PLASTIC BOTTLE <input type="checkbox"/> r. OTHER								226	
<input type="checkbox"/> c. TANK INSIDE BUILDING <input type="checkbox"/> g. CARBOY <input type="checkbox"/> k. BOX <input type="checkbox"/> o. TOTE BIN								227	
<input type="checkbox"/> d. STEEL DRUM <input type="checkbox"/> h. SILO <input type="checkbox"/> l. CYLINDER <input type="checkbox"/> p. TANK WAGON								228	
STORAGE PRESSURE								229	
<input checked="" type="checkbox"/> a. AMBIENT <input type="checkbox"/> b. ABOVE AMBIENT <input type="checkbox"/> c. BELOW AMBIENT								230	
STORAGE TEMPERATURE								231	
<input checked="" type="checkbox"/> a. AMBIENT <input type="checkbox"/> b. ABOVE AMBIENT <input type="checkbox"/> c. BELOW AMBIENT <input type="checkbox"/> d. CRYOGENIC								232	
%WT		HAZARDOUS COMPONENT (For mixture or waste only)				EHS		CAS #	
1 25.%		Hydrotreated Naphthenic Oil				<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		64742-52-5	
2 25.%		Hydrotreated Naphthenic Oil				<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		64742-53-6	
3 20.%		Chlorinated Paraffin				<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		63449-39-8	
4 10.%		Potassium Carboxylate				<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Proprietary	
5 20.%		Other				<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Mixture	
ADDITIONAL LOCALLY COLLECTED INFORMATION									
<input type="checkbox"/> CHECK THIS BOX IF THIS HAZARDOUS MATERIAL IS A TOXIC GAS THAT HAS A THRESHOLD LIMIT VALUE (TLV) ≤ 10 ppm. THIS HAZARDOUS MATERIAL MUST BE INVENTORIED IN ANY QUANTITY.									
<input type="checkbox"/> CHECK THIS BOX IF THIS HAZARDOUS MATERIAL IS SUBJECT TO RMP REQUIREMENTS AND/OR CAL/ARP REQUIREMENTS									



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Date Submitted

HAZARDOUS MATERIALS INVENTORY - CHEMICAL DESCRIPTION

(One page per material per building or area)

☒ ADD

☐ DELETE

☐ REVISE

200

Page 6 of 10

I. FACILITY INFORMATION

BUSINESS NAME (Same as FACILITY NAME or DBA - Doing Business As)

Cytori Therapeutics, Inc.

CHEMICAL LOCATION

SEE SITE MAP/PLAN

CHEMICAL LOCATION CONFIDENTIAL
EPCRA ☐ YES ☒ NO

FACILITY ID #

3

7

0

0

0

2

0

5

9

7

8

MAP# (optional)

NOT USED

GRID# (optional)

NOT USED

I. CHEMICAL INFORMATION

CHEMICAL NAME

Heavy Duty Germicidal Detergent Complex

TRADE SECRET ☐ YES ☒ NO

If Subject to EPCRA, refer to instructions

COMMON NAME

The Cleaner (Spartan Chemical Company)

EHS*

☐ YES ☒ NO

CAS#

Mixture

*If EHS is "Yes", all amounts below must be in lbs.

FIRE CODE HAZARD CLASSES (Complete if required by CUPA)

NOT REQUIRED BY SAN DIEGO COUNTY

HAZARDOUS MATERIAL
TYPE (Check one item only)

☐ a. PURE ☒ b. MIXTURE ☐ c. WASTE

RADIOACTIVE ☐ Yes ☒ No

CURIES

PHYSICAL STATE
(Check one item only)

☐ a. SOLID ☒ b. LIQUID ☐ c. GAS

LARGEST CONTAINER SS

FED HAZARD CATEGORIES ☐ a. FIRE ☐ b. REACTIVE ☐ c. PRESSURE RELEASE

☒ d. ACUTE HEALTH ☐ e. CHRONIC HEALTH

AVERAGE DAILY AMOUNT

55

MAXIMUM DAILY AMOUNT

110

ANNUAL WASTE AMOUNT

STATE WASTE CODE

UNITS*

(Check one item only) * If EHS, amount must be in pounds

☒ a. GALLONS ☐ b. CUBIC FEET ☐ c. POUNDS ☐ d. TONS

DAYS ON SITE:

365

STORAGE
CONTAINER

☐ a. ABOVE GROUND TANK ☒ e. PLASTIC/NONMETALLIC DRUM ☐ i. FIBER DRUM ☐ m. GLASS BOTTLE ☐ q. RAIL CAR
☐ b. UNDERGROUND TANK ☐ f. CAN ☐ j. BAG ☐ n. PLASTIC BOTTLE ☐ r. OTHER
☐ c. TANK INSIDE BUILDING ☐ g. CARBOY ☐ k. BOX ☐ o. TOTE BIN
☐ d. STEEL DRUM ☐ h. SILO ☐ l. CYLINDER ☐ p. TANK WAGON

STORAGE PRESSURE

☒ a. AMBIENT ☐ b. ABOVE AMBIENT ☐ c. BELOW AMBIENT

STORAGE TEMPERATURE

☒ a. AMBIENT ☐ b. ABOVE AMBIENT ☐ c. BELOW AMBIENT ☐ d. CRYOGENIC

%WT

HAZARDOUS COMPONENT (For mixture or waste only)

EHS

CAS #

1 10.0%

Nonyl Phenol Ethoxylate

☐ Yes ☒ No

9016-45-9

2 5.0%

Sodium Metasilicate

☐ Yes ☒ No

6834-92-0

3 5.0%

Alkyl Dimethyl Benzyl Ammonium Chloride

☐ Yes ☒ No

68424-85-1

4 5.0%

Tetrasodium Ethylene Diaminetetraacetate

☐ Yes ☒ No

64-02-8

5

☐ Yes ☐ No

ADDITIONAL LOCALLY COLLECTED INFORMATION

☐ CHECK THIS BOX IF THIS HAZARDOUS MATERIAL IS A TOXIC GAS THAT HAS A THRESHOLD LIMIT VALUE (TLV) ≤ 10 ppm.
THIS HAZARDOUS MATERIAL MUST BE INVENTORIED IN ANY QUANTITY.

☐ CHECK THIS BOX IF THIS HAZARDOUS MATERIAL IS SUBJECT TO RMP REQUIREMENTS AND/OR CAL/ARP REQUIREMENTS



SAN DIEGO COUNTY
DEPARTMENT OF ENVIRONMENTAL HEALTH - CUPA
HAZARDOUS MATERIALS DIVISION
P.O. BOX 129261, SAN DIEGO, CA 92112-9261
(619) 338-2222 FAX (619) 338-2377
1-800-253-9933

____/____/____
Date Submitted

HAZARDOUS MATERIALS INVENTORY - CHEMICAL DESCRIPTION

(One page per material per building or area)

☒ ADD

☐ DELETE

☐ REVISE

200

Page 7 of 10

I. FACILITY INFORMATION

BUSINESS NAME (Same as FACILITY NAME or DBA - Doing Business As)

Cytori Therapeutics, Inc.

CHEMICAL LOCATION

SEE SITE MAP/PLAN

201

CHEMICAL LOCATION CONFIDENTIAL
EPCRA

☐ YES ☒ NO

3

FACILITY ID #

3 7 0 0 0

2 0 5 9 7 8

MAP# (optional)

203

GRID# (optional)

204

NOT USED

NOT USED

I. CHEMICAL INFORMATION

CHEMICAL NAME

Makrolon 3158 Thermoplastic Polymer

COMMON NAME

Makrolon 3158 Beads (Bayer)

CAS#

Mixture

205

TRADE SECRET

☐ YES ☒ NO

If Subject to EPCRA, refer to instructions

207

EHS*

☐ YES ☒ NO

209

*If EHS is "Yes", all amounts below must be in lbs.

FIRE CODE HAZARD CLASSES (Complete if required by CUPA)

210

NOT REQUIRED BY SAN DIEGO COUNTY

HAZARDOUS MATERIAL
TYPE (Check one item only)

☐ a. PURE ☒ b. MIXTURE ☐ c. WASTE

211

RADIOACTIVE ☐ Yes ☒ No

CURIES

213

PHYSICAL STATE
(Check one item only)

☒ a. SOLID ☐ b. LIQUID ☐ c. GAS

214

LARGEST CONTAINER 1650

215

FED HAZARD CATEGORIES

☐ a. FIRE ☐ b. REACTIVE ☐ c. PRESSURE RELEASE

☒ d. ACUTE HEALTH

☐ e. CHRONIC HEALTH

216

AVERAGE DAILY AMOUNT

MAXIMUM DAILY AMOUNT

ANNUAL WASTE AMOUNT

STATE WASTE CODE

1650

1650

UNITS*

☐ a. GALLONS

☐ b. CUBIC FEET

☒ c. POUNDS

☐ d. TONS

DAYS ON SITE:

365

STORAGE
CONTAINER

☐ a. ABOVE GROUND TANK
☐ b. UNDERGROUND TANK
☐ c. TANK INSIDE BUILDING
☐ d. STEEL DRUM

☒ e. PLASTIC/NONMETALLIC DRUM
☐ f. CAN
☐ g. CARBOY
☐ h. SILO

☐ i. FIBER DRUM
☐ j. BAG
☐ k. BOX
☐ l. CYLINDER

☐ m. GLASS BOTTLE
☐ n. PLASTIC BOTTLE
☐ o. TOTE BIN
☐ p. TANK WAGON

☐ q. RAIL CAR
☐ r. OTHER

223

STORAGE PRESSURE

☒ a. AMBIENT

☐ b. ABOVE AMBIENT

☐ c. BELOW AMBIENT

224

STORAGE TEMPERATURE

☒ a. AMBIENT

☐ b. ABOVE AMBIENT

☐ c. BELOW AMBIENT

☐ d. CRYOGENIC

225

%WT

HAZARDOUS COMPONENT (For mixture or waste only)

EHS

CAS #

1 5

Titanium Dioxide

☐ Yes ☐ No

13463-67-6

2

☐ Yes ☐ No

3

☐ Yes ☐ No

4

☐ Yes ☐ No

5

☐ Yes ☐ No

ADDITIONAL LOCALLY COLLECTED INFORMATION

☐ CHECK THIS BOX IF THIS HAZARDOUS MATERIAL IS A TOXIC GAS THAT HAS A THRESHOLD LIMIT VALUE (TLV) ≤ 10 ppm.
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HAZARDOUS MATERIALS INVENTORY - CHEMICAL DESCRIPTION

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☐ DELETE

☐ REVISE

200

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I. FACILITY INFORMATION

BUSINESS NAME (Same as FACILITY NAME or DBA - Doing Business As)

Cytori Therapeutics, Inc.

CHEMICAL LOCATION

SEE SITE MAP/PLAN

201

CHEMICAL LOCATION CONFIDENTIAL

EPCRA

☐ YES ☒ NO

3

FACILITY ID #

3

7

0

0

0

2

0

5

9

7

8

MAP# (optional)

203

GRID# (optional)

204

NOT USED

NOT USED

I. CHEMICAL INFORMATION

CHEMICAL NAME

20% Cutter EXP HW, 5% Mobil Vactra Oil No.2, 75% Water

COMMON NAME

Coolant Waste

CAS#

Mixture

TRADE SECRET

☐ YES ☒ NO

If Subject to EPCRA, refer to instructions

EHS*

☐ YES ☒ NO

*If EHS is "Yes", all amounts below must be in lbs.

FIRE CODE HAZARD CLASSES (Complete if required by CUPA)

NOT REQUIRED BY SAN DIEGO COUNTY

HAZARDOUS MATERIAL
TYPE (Check one item only)

☐ a PURE

☐ b MIXTURE

☒ c WASTE

211

RADIOACTIVE ☐ Yes ☒ No

212

CURIES

PHYSICAL STATE
(Check one item only)

☐ a SOLID

☒ b LIQUID

☐ c GAS

214

LARGEST CONTAINER 55

215

FED HAZARD CATEGORIES

☐ a FIRE

☐ b REACTIVE

☐ c PRESSURE RELEASE

☒ d ACUTE HEALTH

☐ e CHRONIC HEALTH

216

AVERAGE DAILY AMOUNT

217

MAXIMUM DAILY AMOUNT

218

ANNUAL WASTE AMOUNT

219

STATE WASTE CODE

220

330

440

1500

223

UNITS*

(Check one item only) * If EHS, amount must be in pounds

☒ a GALLONS

☐ b CUBIC FEET

☐ c POUNDS

☐ d TONS

221

DAYS ON SITE:

365

222

STORAGE
CONTAINER

☐ a ABOVE GROUND TANK

☐ c PLASTIC/NONMETALLIC DRUM

☐ i FIBER DRUM

☐ m GLASS BOTTLE

☐ q RAIL CAR

☐ b UNDERGROUND TANK

☐ f CAN

☐ j BAG

☐ n PLASTIC BOTTLE

☐ r OTHER

☐ c TANK INSIDE BUILDING

☐ g CARBOY

☐ k BOX

☐ o TOTE BIN

223

☒ d STEEL DRUM

☐ h SILO

☐ l CYLINDER

☐ p TANK WAGON

STORAGE PRESSURE

☒ a AMBIENT

☐ b ABOVE AMBIENT

☐ c BELOW AMBIENT

224

STORAGE TEMPERATURE

☒ a AMBIENT

☐ b ABOVE AMBIENT

☐ c BELOW AMBIENT

☐ d CRYOGENIC

225

%WT

HAZARDOUS COMPONENT (For mixture or waste only)

EHS

CAS #

1 20.0%

Cutter EXP HW (Spartan Chemical Company)

☐ Yes ☒ No

Mixture

2 5.0%

Mobil Vactra No.2

☐ Yes ☒ No

Mixture

3 75.0%

Water

☐ Yes ☒ No

7732-18-5

4

☐ Yes ☐ No

5

☐ Yes ☐ No

ADDITIONAL LOCALLY COLLECTED INFORMATION

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HAZARDOUS MATERIALS INVENTORY - CHEMICAL DESCRIPTION

(One page per material per building or area)

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☐ DELETE

☒ REVISE

200

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I. FACILITY INFORMATION

BUSINESS NAME (Same as FACILITY NAME or DBA - Doing Business As)

3

Cytori Therapeutics, Inc.

CHEMICAL LOCATION

201

CHEMICAL LOCATION CONFIDENTIAL
EPCRA ☐ YES ☒ NO

202

SEE SITE MAP/PLAN

FACILITY ID #

3

7

0

0

0

2

0

5

9

7

8

MAP# (optional)

203

GRID# (optional)

204

NOT USED

NOT USED

I. CHEMICAL INFORMATION

CHEMICAL NAME

205

Nitrogen, Liquid

TRADE SECRET ☐ YES ☒ NO

206

If Subject to EPCRA, refer to instructions

COMMON NAME

207

Nitrogen, Liquid

EHS* ☐ YES ☒ NO

208

CAS#

209

7727-37-9

*If EHS is "Yes", all amounts below must be in lbs.

FIRE CODE HAZARD CLASSES (Complete if required by CUPA)

210

NOT REQUIRED BY SAN DIEGO COUNTY

HAZARDOUS MATERIAL
TYPE (Check one item only)

211

☒ a. PURE

☐ b. MIXTURE

☐ c. WASTE

RADIOACTIVE ☐ Yes ☒ No

CURIES

212

PHYSICAL STATE
(Check one item only)

214

☐ a. SOLID

☐ b. LIQUID

☒ c. GAS

LARGEST CONTAINER 5535

215

FED HAZARD CATEGORIES

☐ a. FIRE

☐ b. REACTIVE

☒ c. PRESSURE RELEASE

☐ d. ACUTE HEALTH

☐ e. CHRONIC HEALTH

216

AVERAGE DAILY AMOUNT

217

22141

MAXIMUM DAILY AMOUNT

218

22141

ANNUAL WASTE AMOUNT

219

STATE WASTE CODE

220

UNITS*

☐ a. GALLONS

☒ b. CUBIC FEET

☐ c. POUNDS

☐ d. TONS

221

(Check one item only) * If EHS, amount must be in pounds

DAYS ON SITE:

222

365

STORAGE
CONTAINER

☐ a. ABOVE GROUND TANK

☐ e. PLASTIC/NONMETALLIC DRUM

☐ i. FIBER DRUM

☐ m. GLASS BOTTLE

☐ q. RAIL CAR

☐ b. UNDERGROUND TANK

☐ f. CAN

☐ j. BAG

☐ n. PLASTIC BOTTLE

☐ r. OTHER

☒ c. TANK INSIDE BUILDING

☐ g. CARBOY

☐ k. BOX

☐ o. TOTE BIN

☐ d. STEEL DRUM

☐ h. SILO

☐ l. CYLINDER

☐ p. TANK WAGON

223

STORAGE PRESSURE

☐ a. AMBIENT

☒ b. ABOVE AMBIENT

☐ c. BELOW AMBIENT

224

STORAGE TEMPERATURE

☐ a. AMBIENT

☐ b. ABOVE AMBIENT

☐ c. BELOW AMBIENT

☒ d. CRYOGENIC

225

%WT

HAZARDOUS COMPONENT (For mixture or waste only)

EHS

CAS #

1

226

227

☐ Yes ☐ No

228

229

2

230

231

☐ Yes ☐ No

232

233

3

234

235

☐ Yes ☐ No

236

237

4

238

239

☐ Yes ☐ No

240

241

5

242

243

☐ Yes ☐ No

244

245

ADDITIONAL LOCALLY COLLECTED INFORMATION

246

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HAZARDOUS MATERIALS INVENTORY - CHEMICAL DESCRIPTION

(One page per material per building or area)

☐ ADD

☐ DELETE

☒ REVISE

200

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I. FACILITY INFORMATION

BUSINESS NAME (Same as FACILITY NAME or DBA - Doing Business As)

Cytori Therapeutics, Inc.

CHEMICAL LOCATION

SEE SITE MAP/PLAN

201

CHEMICAL LOCATION CONFIDENTIAL
EPCRA ☐ YES ☒ NO

202

FACILITY ID #

3

7

0

0

0

2

0

5

9

7

8

MAP# (optional)

203

NOT USED

GRID# (optional)

204

NOT USED

I. CHEMICAL INFORMATION

CHEMICAL NAME

Carbon Dio xide, Compressed

COMMON NAME

Carbon Dioxide, Compressed

CAS#

124-38-9

205

TRADE SECRET ☐ YES ☒ NO

206

If Subject to EPCRA, refer to instructions

207

EHS*

☐ YES ☒ NO

208

209

*If EHS is "Yes", all amounts below must be in lbs.

FIRE CODE HAZARD CLASSES (Complete if required by CUPA)

210

NOT REQUIRED BY SAN DIEGO COUNTY

HAZARDOUS MATERIAL
TYPE (Check one item only)

☒ a. PURE

☐ b. MIXTURE

☐ c. WASTE

211

RADIOACTIVE ☐ Yes ☒ No

212

CURIES

213

PHYSICAL STATE

(Check one item only)

☐ a. SOLID

☐ b. LIQUID

☒ c. GAS

214

LARGEST CONTAINER 437

215

FEED HAZARD CATEGORIES

☐ a. FIRE

☐ b. REACTIVE

☒ c. PRESSURE RELEASE

☐ d. ACUTE HEALTH

☐ e. CHRONIC HEALTH

216

AVERAGE DAILY AMOUNT

217

3059

MAXIMUM DAILY AMOUNT

218

3059

ANNUAL WASTE AMOUNT

219

STATE WASTE CODE

220

UNITS*

(Check one item only) * If EHS, amount must be in pounds.

☐ a. GALLONS

☒ b. CUBIC FEET

☐ c. POUNDS

☐ d. TONS

221

DAYS ON SITE:

365

222

STORAGE
CONTAINER

☐ a. ABOVE GROUND TANK

☐ b. UNDERGROUND TANK

☐ c. TANK INSIDE BUILDING

☐ d. STEEL DRUM

☐ e. PLASTIC/NONMETALLIC DRUM

☐ f. CAN

☐ g. CARBOY

☐ h. SILO

☐ i. FIBER DRUM

☐ j. BAG

☐ k. BOX

☒ l. CYLINDER

☐ m. GLASS BOTTLE

☐ n. PLASTIC BOTTLE

☐ o. TOTE BIN

☐ p. TANK WAGON

☐ q. RAIL CAR

☐ r. OTHER

223

STORAGE PRESSURE

☐ a. AMBIENT

☒ b. ABOVE AMBIENT

☐ c. BELOW AMBIENT

224

STORAGE TEMPERATURE

☒ a. AMBIENT

☐ b. ABOVE AMBIENT

☐ c. BELOW AMBIENT

☐ d. CRYOGENIC

225

%WT

HAZARDOUS COMPONENT (For mixture or waste only)

EHS

CAS #

226

227

228

229

1

☐ Yes ☐ No

230

231

232

233

2

☐ Yes ☐ No

234

235

236

237

3

☐ Yes ☐ No

238

239

240

241

4

☐ Yes ☐ No

242

243

244

245

5

☐ Yes ☐ No

ADDITIONAL LOCALLY COLLECTED INFORMATION

246

☐ CHECK THIS BOX IF THIS HAZARDOUS MATERIAL IS A TOXIC GAS THAT HAS A THRESHOLD LIMIT VALUE (TLV) ≤ 10 ppm.
THIS HAZARDOUS MATERIAL MUST BE INVENTORIED IN ANY QUANTITY.

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Cytori Therapeutics Chemical Inventory – 3020 Callan Road, San Diego, CA, 92121, April 2007

Cname	CAS#	Qun	Unit	Loc	Sub Location
1,2-PROPANEDIOL	57-55-6	500	ml	3020 Callan RdBldg2CA1	BIOLOGIC MAIN LAB
10% BUFFERED FORMALIN	50-00-0	1	L	3020 Callan RdBldg2CA1	BIOLOGIC MAIN LAB
10X TAE BUFFER LIQUID	77-86-1	4	L	3020 Callan RdBldg2CA1	BIOLOGIC MAIN LAB
2,3,5-Triphenyl Tetrazolium Chloride	298-96-4	25	gram	3020 Callan RdBldg2CA1	HISTOLOGY LAB
2-ACETAMIDOFLUORENE	53-96-3	5	gram	3020 Callan RdBldg2CA1	BIOLOGIC MAIN LAB
2-BUTANONE	78-93-3	1	L	3020 Callan RdBldg2CA1	HISTOLOGY FLAM CABINET
2-MERCAPTOETHANOL REAGENT GRADE	60-24-2	100	ml	3020 Callan RdBldg2CA1	BIOLOGIC HOOD
2-Methylbutane	78-78-4	500	ml	3020 Callan RdBldg2CA1	HISTOLOGY FLAM CABINET
2-PROPANOL	67-63-0	1	L	3020 Callan RdBldg2CA1	HISTOLOGY FLAM CABINET
3-ISOBUTYL-1-METHYLXANTHINE	28822-58-4	1	gram	3020 Callan RdBldg2CA1	BIOLOGIC BENCH
3M SCOTCH GRIP 4693H	110-82-7	148	ml	3030CallanRdoutsideShed	MACHINE SHOP SHED
4-(DIMETHYLAMINO)BENZALDEHYDE	100-10-7	100	gram	3020 Callan RdBldg2CA1	BIOLOGIC CHEM STORAGE
4',6-Diamidino-2-phenylindole dihydrochloride	28718-90-3	5	mg	3020 Callan RdBldg2CA1	HISTOLOGY LAB
4-AMINOPHENYLMERCURIC ACETATE	6283-24-5	25	gram	3020 Callan RdBldg2CA1	BIOLOGIC MAIN LAB
5-BROMO-2'-DEOXYURIDINE	59-14-3	50	mg	3020 Callan RdBldg2CA1	HISTOLOGY LAB
5-Fluorouracil	51-21-8	1	gram	3020 Callan RdBldg2CA1	BIOLOGIC REFER #4
70% ISOPROPYL ALCOHOL	67-63-0	20	L	3030 Callan RdBldg1CA1	VIVARIUM
8-HYDROXYQUINOLINE, 99%	148-24-3	100	gram	3020 Callan RdBldg2CA1	BIOLOGIC BENCH
Acetic Acid Glacial	64-19-7	500	ml	3020 Callan RdBldg2CA1	HISTOLOGY LAB
Acetone	67-64-1	4	L	3030CallanRdoutsideShed	MACHINE SHOP SHED
ACETYLCHOLINE BROMIDE	66-23-9	100	gram	3020 Callan RdBldg2CA1	BIOLOGIC MAIN LAB
Acetylcholine Chloride	60-31-1	25	gram	3020 Callan RdBldg2CA1	BIOLOGIC MAIN LAB
Acetylcholine Iodide	2260-50-6	5	gram	3020 Callan RdBldg2CA1	BIOLOGIC MAIN LAB
ACRIDINE ORANGE	10127-02-3	10	mg	3020 Callan RdBldg2CA1	2015 LAB
ADENOSINE	58-61-7	25	gram	3020 Callan RdBldg2CA1	BIOLOGIC CHEM STORAGE
Agarose	9012-36-6	5	gram	3020 Callan RdBldg2CA1	BIOLOGIC MAIN LAB
ALCIAN BLUE	123439-83-8	10	gram	3020 Callan RdBldg2CA1	HISTOLOGY LAB
ALCIAN BLUE 8GX	75881-23-1	10	gram	3020 Callan RdBldg2CA1	BIOLOGIC BENCH
ALCIAN BLUE SOLUTION, 1%	64-19-7	100	ml	3020 Callan RdBldg2CA1	HISTOLOGY LAB

Cytori Therapeutics Chemical Inventory – 3020 Callan Road, San Diego, CA, 92121, April 2007

ALCOHOL WIPES		0.052				
		8	G	3020 Callan RdBldg2CA1	BIOLOGIC MAIN LAB	
ALCOHOLIC HEMATOXYLIN, 5%	67-56-1	250	ml	3020 Callan RdBldg2CA1	HISTOLOGY LAB	
ALCOHOLIC SAFFRON SOL'N	64-17-5	100	ml	3020 Callan RdBldg2CA1	HISTOLOGY LAB	
Alginic Acid	9005-32-7	500	ml	3020 Callan RdBldg2CA1	BIOLOGIC MAIN LAB	
Alginic Acid, Sodium Salt	9005-38-3	500	gram	3020 Callan RdBldg2CA1	BIOLOGIC MAIN LAB	
Alizarin Red S	130-22-3	25	gram	3020 Callan RdBldg2CA1	BIOLOGIC MAIN LAB	
ALKALINE ALCOHOL (with ammonium hydroxide)	64-17-5	500	ml	3020 Callan RdBldg2CA1	HISTOLOGY FLAM CABINET	
ALLOPURINOL	315-30-0	25	gram	3020 Callan RdBldg2CA1	BIOLOGIC MAIN LAB	
ALLYL ALCOHOL	107-18-6	5	ml	3020 Callan RdBldg2CA1	BIOLOGIC FLAM CABINET	
AMMONIUM ACETATE	631-61-8	500	gram	3020 Callan RdBldg2CA1	BIOLOGIC COOLER	
AMMONIUM HYDROXIDE, 28.0-30.0%	1336-21-6	500	ml	3020 Callan RdBldg2CA1	BIOLOGIC BASES	
ANILINE BLUE SOLUTION	28631-66-5	250	ml	3020 Callan RdBldg2CA1	HISTOLOGY LAB	
ARGON	7440-37-1	100	C	3030 Callan RdBldg1CA1	MACHINE SHOP	
AZOCASEIN	102110-74-7	1	gram	3020 Callan RdBldg2CA1	BIOLOGIC MAIN LAB	
AZURE B	531-55-5	5	gram	3020 Callan RdBldg2CA1	HISTOLOGY LAB	
BETADINE SOLUTION	25655-41-8	500	ml	3030 Callan RdBldg1CA1	VIVARIUM	
BIEBRICH SCARLET	4196-99-0	250	ml	3020 Callan RdBldg2CA1	HISTOLOGY LAB	
BIO-RAD DC PROTEIN ASSAY REAGENT A	7664-38-2	250	ml	3020 Callan RdBldg2CA1	BIOLOGIC BENCH	
BIO-RAD DC PROTEIN ASSAY REAGENT B	7664-38-2	1	L	3020 Callan RdBldg2CA1	BIOLOGIC BENCH	
BIO-RAD PROTEIN ASSAY (DYE REAGENT CONCENTRATE)	67-56-1	450	ml	3020 Callan RdBldg2CA1	BIOLOGIC COOLER	
BLEACH (SODIUM HYPOCHLORITE)	7681-52-9	4	L	3030 Callan RdBldg1CA1	VIVARIUM	
BLOOD GAS MIXTURE CYLINDERS (95% OXYGEN/ 5% CO2)	7782-44-7	251	C	3020 Callan RdBldg2CA1	HAZWASTE CAGE	
BLUING REAGENT	67-56-1	4	L	3020 Callan RdBldg2CA1	HISTOLOGY FLAM CABINET	
B-NAD PHOSPHATE, REDUCED FORM, TRISODIUM, REAGENT	2646-71-1	1	mg	3020 Callan RdBldg2CA1	BIOLOGIC MAIN LAB	
BOSTIK ANTI-SIEZE AND LUBRICATING COMPOUND	1314-13-2	118	ml	3030CallanRdoutsideShed	MACHINE SHOP SHED	
BOUIN'S SOLUTION	88-89-1	500	ml	3020 Callan RdBldg2CA1	BIOLOGIC ACIDS	
Bovine Serum Albumin (Fract V)	9048-46-8	100	gram	3020 Callan RdBldg2CA1	BIOLOGIC COOLER	

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BRIJ 35	9002-92-0	500	gram	3020 Callan RdBldg2CA1	BIOLOGIC CHEM STORAGE
Brilliant blue	3844-45-9	5	gram	3020 Callan RdBldg2CA1	BIOLOGIC CHEM STORAGE
BUFFER BLT LYSIS (BUFFER)	1310-73-2	220	ml	3020 Callan RdBldg2CA1	BIOLOGIC MAIN LAB
Buffer Soultion (PH 10.00) Blue		500	ml	3020 Callan RdBldg2CA1	BIOLOGIC MAIN LAB
BUTYL ALCOHOL	71-36-3	500	ml	3020 Callan RdBldg2CA1	BIOLOGIC FLAM CABINET
BUTYLATED HYDROXYANISOLE	25013-16-5	100	gram	3020 Callan RdBldg2CA1	BIOLOGIC CHEM STORAGE
Calcium acetate	62-54-4	100	gram	3020 Callan RdBldg2CA1	BIOLOGIC CHEM STORAGE
CALCIUM CARBONATE	471-34-1	100	gram	3020 Callan RdBldg2CA1	BIOLOGIC CHEM STORAGE
CALCIUM CHLORIDE, ANHYDROUS	10043-52-4	100	gram	3020 Callan RdBldg2CA1	BIOLOGIC CHEM STORAGE
CARBON DIOXIDE	124-38-9	437	C	3020 Callan RdBldg2CA1	2ND FLOOR LABS
CARBON TETRACHLORIDE	56-23-5	100	ml	3020 Callan RdBldg2CA1	BIOLOGIC MAIN LAB
CARBOXYMETHYL CELLULOSE, SODIUM SALT	9004-32-4	1	Kg	3020 Callan RdBldg2CA1	HISTOLOGY LAB
CARRAGEENAN IOTA	9062-07-1	25	gram	3020 Callan RdBldg2CA1	HISTOLOGY LAB
CARRAGEENAN, TYPE II	9062-07-1	500	gram	3020 Callan RdBldg2CA1	HISTOLOGY LAB
CELESTINE BLUE	1562-90-9	5	gram	3020 Callan RdBldg2CA1	HISTOLOGY LAB
CHLORAMINE-T, ACS, 98%	7080-50-4	100	gram	3020 Callan RdBldg2CA1	BIOLOGIC CHEM STORAGE
Chloroform	67-66-3	1	L	3020 Callan RdBldg2CA1	2016 FLAM CABINET
CIS-4-HYDROXY-L-PROLINE	618-27-9	50	mg	3020 Callan RdBldg2CA1	BIOLOGIC CHEM STORAGE
Citric Acid, Anhydrous	77-92-9	1	Kg	3020 Callan RdBldg2CA1	HISTOLOGY LAB
CITRIC ACID, TRISODIUM SALT	68-04-2	1	Kg	3020 Callan RdBldg2CA1	BIOLOGIC CHEM STORAGE
CLARIFIER 2	64-19-7	4	L	3020 Callan RdBldg2CA1	HISTOLOGY LAB
CLIDOX-S ACTIVATOR	7758-19-2	4	L	3030 Callan RdBldg1CA1	VIVARIUM
COLLAGEN	9007-34-5	5	mg	3020 Callan RdBldg2CA1	BIOLOGIC REFER #4
CONTACT CLEANER & LUBRICANT	110-54-3	340	ml	3030CallanRdoutsideShed	MACHINE SHOP SHED
CRYSTAL VIOLET, CERTIFIED	548-62-9	25	gram	3020 Callan RdBldg2CA1	HISTOLOGY LAB
CYTOSEAL 280, MOUNTING MEDIUM	108-88-3	118	ml	3020 Callan RdBldg2CA1	HISTOLOGY FLAM CABINET
CYTOSEAL 60	108-88-3	118	ml	3020 Callan RdBldg2CA1	HISTOLOGY FLAM CABINET
D-(+)-BIOTIN	58-85-5	1	gram	3020 Callan RdBldg2CA1	BIOLOGIC CHEM STORAGE
D-(+)-Glucose	50-99-7	1	Kg	3020 Callan RdBldg2CA1	BIOLOGIC CHEM STORAGE

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D-(+)-RAFFINOSE PENTAHYDRATE, >= 98%	17629-30-0	100	gram	3020 Callan RdBldg2CA1	BIOLOGIC CHEM STORAGE
DENATURED ALCOHOL	64-17-5	4	L	3030CallanRdoutsideShed	MACHINE SHOP SHED
DEOXYCHOLIC ACID, SODIUM SALT	302-95-4	25	gram	3020 Callan RdBldg2CA1	BIOLOGIC CHEM STORAGE
DEPC, DIETHYL PYROCARBONATE	1609-47-8	100	ml	3020 Callan RdBldg2CA1	2016 LAB
Dexamethasone	50-02-2	100	mg	3020 Callan RdBldg2CA1	BIOLOGIC COOLER
DIESEL FUEL	68476-30-2	1485	L	3020CallanRdoutside	OUTSIDE
DIETHYL PYROCARBONATE	1609-47-8	100	ml	3020 Callan RdBldg2CA1	BIOLOGIC MAIN LAB
Diethylamine	109-89-7	250	ml	3020 Callan RdBldg2CA1	BIOLOGIC FLAM CABINET
dimethyl sulfoxide	67-68-5	500	ml	3020 Callan RdBldg2CA1	BIOLOGIC CHEM STORAGE
DIRECT RED 80	2610-10-8	25	gram	3020 Callan RdBldg2CA1	HISTOLOGY LAB
D-MANNITOL	69-65-8	250	gram	3020 Callan RdBldg2CA1	BIOLOGIC CHEM STORAGE
DNASE I RECOMBINANT	9048-46-8	10	mg	3020 Callan RdBldg2CA1	BIOLOGIC COOLER
DOTTIE HANDI FOAM	115-10-6	10	C	3030CallanRdoutsideShed	MACHINE SHOP SHED
DRY GRAPHITE FILM LUBRICANT	67-63-0	312	ml	3030CallanRdoutsideShed	MACHINE SHOP SHED
EIA GRADE REAGENT GELATIN	9000-70-8	200	gram	3020 Callan RdBldg2CA1	BIOLOGIC CHEM STORAGE
EOSIN B DISODIUM SALT	548-24-3	25	gram	3020 Callan RdBldg2CA1	BIOLOGIC BENCH
EOSIN Y	17372-87-1	473	ml	3020 Callan RdBldg2CA1	HISTOLOGY FLAM CABINET
EPOXY REMOVER	75-09-2	1	L	3030CallanRdoutsideShed	MACHINE SHOP SHED
ETHANOL	64-17-5	1	L	3020 Callan RdBldg2CA1	2016 FLAM CABINET
ETHIDIUM BROMIDE	1239-45-8	10	mg	3020 Callan RdBldg2CA1	2015 LAB
ETHYL ACETATE	141-78-6	1	L	3020 Callan RdBldg2CA1	BIOLOGIC FLAM CABINET
ETHYL ALCOHOL	64-17-5	1	L	3020 Callan RdBldg2CA1	HISTOLOGY FLAM CABINET
ETHYLENE GLYCOL	107-21-1	1	L	3020 Callan RdBldg2CA1	BIOLOGIC CHEM STORAGE
ETHYLENE GLYCOL-BIS(B-AMINOETHYL ETHER)-N,N,N',N'-TETRAACETIC ACID	67-42-5	10	gram	3020 Callan RdBldg2CA1	BIOLOGIC CHEM STORAGE
ETHYLENE GLYCOL-BIS-N,N,N,N,- TETRAAECTIC ACID	13368-13-3	50	gram	3020 Callan RdBldg2CA1	BIOLOGIC CHEM STORAGE
ETHYLENEDIAMINETETRAACETIC ACID (EDTA)	60-00-4	500	gram	3020 Callan RdBldg2CA1	BIOLOGIC CHEM STORAGE
Evans Blue	314-13-6	25	gram	3020 Callan RdBldg2CA1	BIOLOGIC CHEM STORAGE
FAST GREEN FCF	2353-45-9	5	gram	3020 Callan RdBldg2CA1	HISTOLOGY LAB

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FERRIC CHLORIDE, 10% AQUEOUS SOLUTION	10025-77-1	500	ml	3020 Callan RdBldg2CA1	HISTOLOGY LAB
FLUORESCEIN DIACETATE	596-09-8	5	gram	3020 Callan RdBldg2CA1	HISTOLOGY LAB
FOOD GRADE MACHINE OIL	64742-96-7	340	ml	3030CallanRdoutsideShed	MACHINE SHOP SHED
FORKSKOLIN	66575-29-9	10	mg	3020 Callan RdBldg2CA1	BIOLOGIC CHEM STORAGE
FORMAMIDE, 99+%	75-12-7	500	ml	3020 Callan RdBldg2CA1	BIOLOGIC CHEM STORAGE
FORMIC ACID	64-18-6	1	L	3020 Callan RdBldg2CA1	HISTOLOGY LAB
Gelatin	9000-70-8	100	gram	3020 Callan RdBldg2CA1	BIOLOGIC CHEM STORAGE
GELATIN (TELOSTEAN GELATIN)	9000-70-8	500	gram	3020 Callan RdBldg2CA1	BIOLOGIC CHEM STORAGE
GELCODE BLUE STAIN REAGENT	7423-31-6	500	ml	3020 Callan RdBldg2CA1	BIOLOGIC BENCH
GLUTARALDEHYDE SOLUTION	111-30-8	10	ml	3020 Callan RdBldg2CA1	BIOLOGIC MAIN LAB
GLYCEROL	56-81-5	1	L	3020 Callan RdBldg2CA1	BIOLOGIC CHEM STORAGE
GLYCEROL 2-PHOSPHATE DISODIUM SALT HYDRATE	819-83-0	10	gram	3020 Callan RdBldg2CA1	BIOLOGIC CHEM STORAGE
GLYCINE	56-40-6	250	gram	3020 Callan RdBldg2CA1	HISTOLOGY LAB
Gum arabic	9000-01-5	500	gram	3020 Callan RdBldg2CA1	HISTOLOGY LAB
HEMATOXYLIN	517-28-2	473	ml	3020 Callan RdBldg2CA1	BIOLOGIC MAIN LAB
HEMATOXYLIN (GILL III FORMULA)	517-28-2	1	L	3020 Callan RdBldg2CA1	BIOLOGIC MAIN LAB
HEMOGLOBIN, HUMAN	9008-02-0	25	gram	3020 Callan RdBldg2CA1	BIOLOGIC REFER #4
HEPARIN, SODIUM SALT	9041-08-1	1	mg	3020 Callan RdBldg2CA1	BIOLOGIC CHEM STORAGE
HEPES, BUFFER POWDER	7365-45-9	100	gram	3020 Callan RdBldg2CA1	BIOLOGIC CHEM STORAGE
HEPES, Sodium Salt	75277-39-3	500	gram	3020 Callan RdBldg2CA1	BIOLOGIC CHEM STORAGE
HOECHST 33258	23491-45-4	100	mg	3020 Callan RdBldg2CA1	2016 LAB
HYDROCHLORIC ACID, CERT. A.C.S. PLUS	7647-01-0	500	ml	3020 Callan RdBldg2CA1	BIOLOGIC ACIDS
HYDROCORTISONE, 98%	50-23-7	1	gram	3020 Callan RdBldg2CA1	BIOLOGIC MAIN LAB
HYDROGEN PEROXIDE 30%	7722-84-1	100	ml	3020 Callan RdBldg2CA1	BIOLOGIC BENCH
HYDROXYETHYL STARCH	9005-27-0	250	gram	3020 Callan RdBldg2CA1	BIOLOGIC CHEM STORAGE
Igepal CA-630	9036-19-5	5	ml	3020 Callan RdBldg2CA1	BIOLOGIC MAIN LAB
INDOMETHACIN	53-86-1	5	gram	3020 Callan RdBldg2CA1	BIOLOGIC CHEM STORAGE
IODINE SOLUTION	7553-56-2	500	ml	3030 Callan RdBldg1CA1	VIVARIUM
IPS WELD-ON 4052	78-93-3	473	ml	3030CallanRdoutsideShed	MACHINE SHOP SHED

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IPS WELD-ON CLEAR CEMENT	108-88-3	20	ml	3030CallanRdoutsideShed	MACHINE SHOP SHED
ISOFLUORANE, USP	26675-46-7	250	ml	3030 Callan RdBldg1CA1	VIVARIUM
ISOPROPANOL	67-63-0	500	ml	3020 Callan RdBldg2CA1	BIOLOGIC BENCH
JB WELD INDUSTRIAL COLD WELD	25068-38-6	100	gram	3030CallanRdoutsideShed	MACHINE SHOP SHED
L-4-HYDROXYPROLINE	51-35-4	25	gram	3020 Callan RdBldg2CA1	BIOLOGIC CHEM STORAGE
LACTOBIONIC ACID	96-82-2	100	gram	3020 Callan RdBldg2CA1	BIOLOGIC CHEM STORAGE
L-ASCORBIC ACID (VITAMIN C)	50-81-7	100	gram	3020 Callan RdBldg2CA1	BIOLOGIC MAIN LAB
L-ASCORBIC ACID 2-PHOSPHATE	84309-23-9	5	gram	3020 Callan RdBldg2CA1	BIOLOGIC MAIN LAB
LERNER-1 HEMATOXYLIN (SINGLE STRENGTH)	107-21-1	473	ml	3020 Callan RdBldg2CA1	HISTOLOGY LAB
L-GLUTAMINE	56-85-9	100	ml	3020 Callan RdBldg2CA1	BIOLOGIC COOLER
L-GLUTATHIONE	70-18-8	25	gram	3020 Callan RdBldg2CA1	BIOLOGIC CHEM STORAGE
LIGHT GREEN SOLUTION, 0.2%	5141-20-8	500	ml	3020 Callan RdBldg2CA1	HISTOLOGY LAB
LIQUID NITROGEN	7727-37-9	5536	C	3020 Callan RdBldg2CA1	CELL BANK
LIQUI-NOX		1	L	3020 Callan RdBldg2CA1	HISTOLOGY LAB
LOCTITE 271 ADHESIVE		100	ml	3030CallanRdoutsideShed	MACHINE SHOP SHED
L-Proline	147-85-3	25	gram	3020 Callan RdBldg2CA1	BIOLOGIC COOLER
L-PROLINE(PRO)	16652-71-4	25	gram	3020 Callan RdBldg2CA1	BIOLOGIC BENCH
LPS RUST INHIBITOR	64742-89-8	312	ml	3030CallanRdoutsideShed	MACHINE SHOP SHED
MAGNESIUM CHLORIDE ANHYDROUS	7786-30-3	100	gram	3020 Callan RdBldg2CA1	BIOLOGIC CHEM STORAGE
MAGNESIUM CHLORIDE HEXAHYDRATE, 99%, A.C.S. REAGENT	7791-18-6	100	gram	3020 Callan RdBldg2CA1	HISTOLOGY LAB
Magnesium Chloride, Hexahydrate	7791-18-6	500	gram	3020 Callan RdBldg2CA1	BIOLOGIC CHEM STORAGE
MAGNESIUM SULFATE, ANHYDROUS, POWDER	7487-88-9	500	gram	3020 Callan RdBldg2CA1	BIOLOGIC CHEM STORAGE
MAYER'S HEMATOXYLIN SOLUTION	107-21-1	500	ml	3020 Callan RdBldg2CA1	HISTOLOGY LAB
METHANOL	67-56-1	4	L	3020 Callan RdBldg2CA1	HISTOLOGY FLAM CABINET
Methyl Green	7114-03-6	25	gram	3020 Callan RdBldg2CA1	HISTOLOGY LAB
METHYLENE BLUE	7220-79-3	25	gram	3020 Callan RdBldg2CA1	HISTOLOGY LAB
MINERAL OIL	8042-47-5	473	ml	3020 Callan RdBldg2CA1	BIOLOGIC MAIN LAB
MITOMYCIN C FROM STREPTOMYCES CAESPITOSUS	50-07-7	2	mg	3020 Callan RdBldg2CA1	BIOLOGIC REFER #4

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MOLD RELEASE (CONCENTRATE)	67-63-0	118	ml	3020 Callan RdBldg2CA1	HISTOLOGY LAB
N,N-DIMETHYLFORMAMIDE, (DMF), 99+%	68-12-2	500	ml	3020 Callan RdBldg2CA1	BIOLOGIC CHEM STORAGE
Nile red	7385-67-3	25	mg	3020 Callan RdBldg2CA1	BIOLOGIC CHEM STORAGE
Nitrogen	7727-37-9	300	C	3020 Callan RdBldg2CA1	2017 LAB
NONIDET NP-40	9036-19-5	500	ml	3020 Callan RdBldg2CA1	BIOLOGIC BENCH
N-PROPANOL	71-23-8	500	ml	3020 Callan RdBldg2CA1	BIOLOGIC FLAM CABINET
		0.258			
O.C.T. COMPOUND	9002-89-5	42	Lbs	3020 Callan RdBldg2CA1	HISTOLOGY LAB
O-CRESOLPHTHALEIN	596-27-0	5	gram	3020 Callan RdBldg2CA1	BIOLOGIC BENCH
Oil red O	14288-70-1	10	gram	3020 Callan RdBldg2CA1	BIOLOGIC BENCH
OIL RED O ELECTROPHORESIS	1320-06-5	10	gram	3020 Callan RdBldg2CA1	HISTOLOGY LAB
ORCEIN, 0.2% IN ACID ALCOHOL	64-17-5	250	ml	3020 Callan RdBldg2CA1	HISTOLOGY LAB
OSMIUM TETROXIDE 4% AQ SOLUTION	20816-12-0	20	ml	3020 Callan RdBldg2CA1	HISTOLOGY LAB
OXYGEN	7782-44-7	25	C	3030 Callan RdBldg1CA1	VIVARIUM
PAINT THINNER	8052-41-3	4	L	3030CallanRdoutsideShed	MACHINE SHOP SHED
PARAFORMALDEHYDE	30525-89-4	500	gram	3020 Callan RdBldg2CA1	BIOLOGIC CHEM STORAGE
PECTIN	900-69-5	500	gram	3020 Callan RdBldg2CA1	HISTOLOGY LAB
PERCHLORIC ACID	7601-90-3	100	ml	3020 Callan RdBldg2CA1	BIOLOGIC ACIDS
PERIODIC ACID	10450-60-9	100	gram	3020 Callan RdBldg2CA1	HISTOLOGY LAB
PH 4.00 BUFFER SOLUTION RED	877-24-7	500	ml	3020 Callan RdBldg2CA1	BIOLOGIC MAIN LAB
PH 7.00 BUFFER SOLUTION YELLOW	7778-77-0	500	ml	3020 Callan RdBldg2CA1	BIOLOGIC MAIN LAB
PHOSPHOMOLYBDIC ACID	51429-74-4	250	ml	3020 Callan RdBldg2CA1	HISTOLOGY LAB
PHOSPHOMOLYBDIC ACID-ORANGE G	12026-57-2	250	ml	3020 Callan RdBldg2CA1	HISTOLOGY LAB
PHOSPHOTUNGSTIC ACID	51312-42-6	100	gram	3020 Callan RdBldg2CA1	HISTOLOGY LAB
PHOSPHOTUNGSTIC ACID	51312-42-6	250	ml	3020 Callan RdBldg2CA1	HISTOLOGY LAB
PICRIC ACID SOLUTION	88-89-1	1	L	3020 Callan RdBldg2CA1	HISTOLOGY FLAM CABINET
PKH26 RED FLUORESCENT CELL LINKER KIT	64-17-5	5	ml	3020 Callan RdBldg2CA1	BIOLOGIC FLAM CABINET
POLYETHYLENE GLYCOL	25322-68-3	500	gram	3020 Callan RdBldg2CA1	BIOLOGIC CHEM STORAGE
POLYGALACTURONIC ACID SODIUM SALT	9049-37-0	100	gram	3020 Callan RdBldg2CA1	HISTOLOGY LAB
PONCEAU-ACID FUCHSIN SOLUTION	64-17-5	100	ml	3020 Callan RdBldg2CA1	HISTOLOGY LAB

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POTASSIUM CHLORIDE	7447-40-7	500	gram	3020 Callan RdBldg2CA1	HISTOLOGY LAB
POTASSIUM CYANIDE, 97%	151-50-8	25	gram	3020 Callan RdBldg2CA1	BIOLOGIC MAIN LAB
Potassium Ferricyanide, 99+% ACS Reagent	13746-66-2	500	gram	3020 Callan RdBldg2CA1	BIOLOGIC CHEM STORAGE
Potassium ferrocyanide	14459-95-1	500	gram	3020 Callan RdBldg2CA1	BIOLOGIC CHEM STORAGE
POTASSIUM HYDROGEN PHOSPHATE TRIHYDRATE	16788-57-1	500	gram	3020 Callan RdBldg2CA1	HISTOLOGY LAB
POTASSIUM HYDROXIDE	1310-58-3	1	Kg	3020 Callan RdBldg2CA1	BIOLOGIC CHEM STORAGE
POTASSIUM PHOSPHATE MONOBASIC, ANHYDROUS	7778-77-0	1	Kg	3020 Callan RdBldg2CA1	BIOLOGIC CHEM STORAGE
POTASSIUM SULFATE	7778-80-5	500	gram	3020 Callan RdBldg2CA1	HISTOLOGY LAB
POTASSIUM THIOCYANATE	333-20-0	500	gram	3020 Callan RdBldg2CA1	BIOLOGIC CHEM STORAGE
PROPANE	74-98-6	283	C	3030CallanRdoutsideShed	MACHINE SHOP SHED
PRO-PAR CLEARANT	29387-86-8	40	L	3020 Callan RdBldg2CA1	HISTOLOGY FLAM CABINET
PRO-SOFT DEHYDRANT	71-23-8	4	L	3020 Callan RdBldg2CA1	HISTOLOGY FLAM CABINET
PROTEASE INHIBITOR COCKTAIL		2	ml	3020 Callan RdBldg2CA1	BIOLOGIC COOLER
QUICK START BRADFORD DYE REAGENT, 1X	64-17-5	1	L	3020 Callan RdBldg2CA1	BIOLOGIC REFER #1
Rapamycin	53123-88-9	1	mg	3020 Callan RdBldg2CA1	BIOLOGIC REFER #4
REAGENT ALCOHOL (HPLC GRADE)	64-17-5	4	L	3020 Callan RdBldg2CA1	HISTOLOGY FLAM CABINET
RED HOT BLUE GLUE	78-93-3	473	ml	3030CallanRdoutsideShed	MACHINE SHOP SHED
RE-LI-ON CUTTING & TAPPING FLUID	64742-47-8	118	ml	3030CallanRdoutsideShed	MACHINE SHOP SHED
Retinoic acid	302-79-4	100	mg	3020 Callan RdBldg2CA1	BIOLOGIC CHEM STORAGE
RNASEZAP SOLUTION	9001-99-4	250	ml	3020 Callan RdBldg2CA1	BIOLOGIC MAIN LAB
Roccal-D Plus	8001-54-5	4	L	3030 Callan RdBldg1CA1	VIVARIUM
SAFRANIN O	477-73-6	25	gram	3020 Callan RdBldg2CA1	HISTOLOGY LAB
SAPONIN (FROM QUILLAJA BARK)	8047-15-2	10	gram	3020 Callan RdBldg2CA1	BIOLOGIC CHEM STORAGE
SILVER NITRATE	7761-88-8	25	gram	3020 Callan RdBldg2CA1	BIOLOGIC BENCH
SODIUM ACETATE TRIHYDRATE CRYSTAL	126-96-5	500	gram	3020 Callan RdBldg2CA1	BIOLOGIC CHEM STORAGE
SODIUM AZIDE	26628-22-8	25	gram	3020 Callan RdBldg2CA1	BIOLOGIC MAIN LAB
SODIUM BICARBONATE	144-55-8	500	gram	3020 Callan RdBldg2CA1	HISTOLOGY LAB
SODIUM BOROHYDRIDE	16940-66-2	25	gram	3020 Callan RdBldg2CA1	HISTOLOGY LAB
SODIUM CARBONATE	497-19-8	500	gram	3020 Callan RdBldg2CA1	BIOLOGIC CHEM STORAGE

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SODIUM CHLORIDE	7647-14-5	500	gram	3020 Callan RdBldg2CA1	BIOLOGIC CHEM STORAGE
SODIUM CITRATE TRIBASIC DIHYDRATE	6132-04-3	1	Kg	3020 Callan RdBldg2CA1	HISTOLOGY LAB
SODIUM CITRATE, DIHYDRATE	6132-04-3	500	gram	3020 Callan RdBldg2CA1	BIOLOGIC CHEM STORAGE
Sodium Dodecyl Sulfate (SDS)	151-21-3	100	gram	3020 Callan RdBldg2CA1	BIOLOGIC CHEM STORAGE
SODIUM HYDROXIDE, REAGENT ACS, PELLETS, 97+%	1310-73-2	500	gram	3020 Callan RdBldg2CA1	BIOLOGIC CHEM STORAGE
SODIUM META-BISULFITE, 99%	7631-90-5	500	gram	3020 Callan RdBldg2CA1	BIOLOGIC CHEM STORAGE
SODIUM PHOSPHATE DIBASIC ANHYDROUS	7558-79-4	500	gram	3020 Callan RdBldg2CA1	BIOLOGIC CHEM STORAGE
SODIUM PHOSPHATE MONOBASIC ANHYDROUS	7558-80-7	500	gram	3020 Callan RdBldg2CA1	BIOLOGIC CHEM STORAGE
SODIUM SULFATE	7757-82-6	500	gram	3020 Callan RdBldg2CA1	HISTOLOGY LAB
SODIUM THIOSULFATE ANHYDROUS	540-72-7	500	gram	3020 Callan RdBldg2CA1	BIOLOGIC CHEM STORAGE
SPARKLEEN 1 DETERGENT	7487-88-9	3	Lb	3020 Callan RdBldg2CA1	HISTOLOGY LAB
STS-ACID WASH	7647-01-0	15	G	3030 Callan RdBldg1CA1	VIVARIUM
SUCROSE	57-50-1	1	Kg	3020 Callan RdBldg2CA1	BIOLOGIC CHEM STORAGE
SUDAN BLACK B	4197-25-5	25	gram	3020 Callan RdBldg2CA1	HISTOLOGY LAB
TAPMATIC CUTTING FLUID	64742-47-8	473	ml	3030CallanRdoutsideShed	MACHINE SHOP SHED
TERGITOL TYPE NP-40	127087-87-0	500	ml	3020 Callan RdBldg2CA1	BIOLOGIC CHEM STORAGE
THIMEROSAL	54-64-8	1	gram	3020 Callan RdBldg2CA1	BIOLOGIC MAIN LAB
TOLUENE	108-88-3	500	ml	3020 Callan RdBldg2CA1	BIOLOGIC FLAM CABINET
Toluidine Blue O	92-31-9	25	gram	3020 Callan RdBldg2CA1	HISTOLOGY LAB
TRIS BASE	77-86-1	1	Kg	3020 Callan RdBldg2CA1	BIOLOGIC CHEM STORAGE
TRIS GLYCINE TRANSFER BUFFER	77-86-1	500	ml	3020 Callan RdBldg2CA1	BIOLOGIC MAIN LAB
Tris Hydrochloride	1185-53-1	500	gram	3020 Callan RdBldg2CA1	2016 LAB
Tris Hydroxymethyl Aminomethane hydrochloride	1185-53-1	1	Kg	3020 Callan RdBldg2CA1	BIOLOGIC CHEM STORAGE
TRITON X-100, PROTEIN GRADE	9002-93-1	100	ml	3020 Callan RdBldg2CA1	BIOLOGIC BENCH
Triton-X-100 (Electrophoresis grade)	9002-93-1	100	ml	3020 Callan RdBldg2CA1	BIOLOGIC CHEM STORAGE
TRIZOL REAGENT	108-95-2	100	ml	3020 Callan RdBldg2CA1	2016 LAB
TROGLITAZONE	97322-87-7	5	gram	3020 Callan RdBldg2CA1	BIOLOGIC CHEM STORAGE
TRYPAN BLUE	72-57-1	100	ml	3020 Callan RdBldg2CA1	2015 LAB
TWEEN 20 ENZYME GRADE	9005-64-5	25	ml	3020 Callan RdBldg2CA1	BIOLOGIC MAIN LAB

Cytori Therapeutics Chemical Inventory – 3020 Callan Road, San Diego, CA, 92121, April 2007

UREA	57-13-6	1	Kg	3020 Callan RdBldg2CA1	BIOLOGIC CHEM STORAGE
VALPROIC ACID SODIUM SALT	1069-66-5	25	gram	3020 Callan RdBldg2CA1	BIOLOGIC CHEM STORAGE
VITAMIN E ACETATE, 96%	7695-91-2	100	gram	3020 Callan RdBldg2CA1	HISTOLOGY LAB
WD-40		473	ml	3030CallanRdoutsideShed	MACHINE SHOP SHED
WEIGERT'S IRON HEMATOXYLIN B	517-28-2	500	ml	3020 Callan RdBldg2CA1	HISTOLOGY LAB
XYLENES	1330-20-7	4	L	3020 Callan RdBldg2CA1	HISTOLOGY FLAM CABINET
ZEP 2000 PENETRATING GREASE	110-54-3	340	ml	3030CallanRdoutsideShed	MACHINE SHOP SHED

Cytori Therapeutics 3020 Callan Road, San Diego, CA, 92121 Chemical Waste Streams 2007

Location	Name of Hazardous Chemical or Mixed Chemicals to be Disposed Of	Form (Solid, Liquid or Gas)	Size of Container	Number of Containers	Frequency
Hazardous Waste Cage in Warehouse	Toxic debris (non halogenated) mainly ethidium bromide/formalin contaminated	Solid	Consolidate 3 x 30 gallon drums into 2 x 55 gallon drums		Once a Quarter
Hazardous Waste Shed by Diesel Generator	Coolant Waste - 75% D.I. water, 20% Cutter HW (spartan chemicals) and 5% way oil (Mobile Vactra No.2)	Liquid	55 gallons	5	Once a Quarter
Histology Laboratory	Non-halogenated flammable	Liquid	10 gallon	1	Once a Quarter
Machine Shop	Metal filing recycled waste	Solid	55 gallon	2	Biweekly
Laboratory	Lab Pack	Various	Varied	Various	Annually

Chemical Waste Hauler: GenTec Solutions (619) 579-4032

Cytori Therapeutics 3020 Callan Road, San Diego, CA, 92121 Biological Waste Streams 2007

<u>MEDICAL WASTE TYPE</u>	QUANTITY (lbs/month)	STORAGE (container type)	TREATMENT METHOD	ON- SITE	OFF- SITE	HAULER NAME*
<i>BIOHAZARDOUS WASTE</i> Sharp Waste Needles/syringes/slides	35	Sharps Containers Placed in 44 Gallon Drum	Autoclaved/Incinerated		✓	Ensenv West LLC
Non-sharp Waste Articles containing Fluid Blood (gauze, bandages, tubing, etc.)	100	Red Bags Placed in 44 Gallon Drum	Autoclaved/Incinerated		✓	Ensenv West LLC
Solids (cultures, lab waste, etc.)	NA	NA	NA	NA	NA	NA
Liquids (cultures, urine, etc.)	1000	5 Gallon Carboys	Bleach and Sewer	✓		NA
Trace chemotherapy waste	NA	NA	NA	NA	NA	NA
Contaminated animal carcasses	10	Frozen in Red Bags	Autoclaved/Incinerated		✓	Ensenv West LLC
Other - Pathological Waste (Human Fat)	650	5 Gallon Carboys	Autoclaved/Incinerated		✓	Ensenv West LLC
<i>MEDICAL SOLID WASTE</i> Gloves, empty specimen containers, gauze with dry blood, treated biohazardous waste	600	Laboratory Trash Bags	Trash	✓	NA	Waste Mgmt.

- Hauled by Ensenv weekly
- Accumulated in outside shed

APPENDIX

I



No SAM

City of San Diego
Building Inspection DepartmentH0002 (12)
✓ H00021 (12)

Hazardous Materials Questionnaire

Business Name IDEC Pharmaceuticals	Contact Person Mark Thompson	Telephone 550-8670
Mailing Address 11011 Torreyana Road	City San Diego	State CA
Project Address 3030 Callan Road	City San Diego	State CA
	Zip 92121	Zip 92121
	Plan File # A106713-96	Permit #

PART I: CITY OF SAN DIEGO FIRE DEPARTMENT - HAZARDOUS MATERIALS MANAGEMENT DIVISION: OCCUPANCY CLASSIFICATION

Indicate, by circling the item, whether your business will or did process or store any of the following hazardous materials. If any of the items are checked off, applicant must contact the Fire Department Hazardous Materials Management Division, 1222 First Ave., San Diego, CA 92101 - 4th Floor - Telephone (619) 236-6883 (except item #15).

- | | | |
|-------------------------------------|----------------------------------|-------------------------------------|
| 1. Explosives or Blasting Agents | 6. Oxidizers | 11. Highly Toxic or Toxic Materials |
| 2. Compressed Gases | 7. Pyrophorics | 12. Radioactives |
| 3. Flammable or Combustible Liquids | 8. Unstable (reactive) Materials | 13. Corrosives |
| 4. Flammable Solids | 9. Water-Reactives | 14. Other Health Hazards |
| 5. Organic Peroxides | 10. Cryogenics | 15. None of These Items |

PART II: COUNTY OF SAN DIEGO HEALTH DEPARTMENT - HAZARDOUS MATERIALS MANAGEMENT DIVISION: CONTINGENCY PLAN REVIEW

If the answer to any of the questions is yes, applicant must contact the County of San Diego Health Department Hazardous Materials Management Division, 1225 Imperial Avenue, 3rd floor, San Diego, CA 92138. Telephone (619) 338-2222 prior to the issuance of a building permit.

- YES NO (FEE MAY BE REQUIRED)
- ☒ ☐ Is your business type listed on the reverse side of this form?
 - ☒ ☐ Will your business dispose of Hazardous Substances or Medical Wastes in any amount?
 - ☒ ☐ Will your business store, or handle Hazardous Substances in quantities equal to or greater than 55 gallons, 500 pounds or 200 cubic feet or carcinogens/reproductive toxins in any quantity?
 - ☐ ☒ Will your business use an existing, or install an underground storage tank?
 - ☒ ☐ Will your business store, use or handle carcinogens, reproductive toxins, or Acutely Hazardous Materials?
 - ☐ ☐ For Demolition Permits Only: Does the building or structure for which this demolition permit is requested contain any friable asbestos?

OFFICE USE ONLY

☐ AMPP Exempt

Date Initials

☐ AMPP Required

Date Initials

☐ AMPP Completed

Date Initials

PART III: SAN DIEGO AIR POLLUTION CONTROL DISTRICT

If the answer to any of the questions is yes, applicant must contact the Air Pollution Control District, 9150 Chesapeake Drive, San Diego, CA 92113. Telephone (619) 654-3307 prior to the issuance of a building permit.

- YES NO
- ☐ ☒ Will the intended occupant install or use any of the equipment listed on the Listing of Air Pollution Control District Permit Categories, on the reverse side of this form.
 - ☐ ☒ (ANSWER ONLY IF THE ANSWER TO QUESTION 1 IS YES.) Will the subject facility be located within 1,000 feet of the outer boundary of a school (K thru 12) as listed in the current Directory of School and Community College Districts, published by the San Diego County Office of Education and the current California Private School Directory, compiled in accordance with provisions of Education Code Section 33150.
 - ☐ ☐ For Demolition Permits Only: Does the building or structure for which this demolition permit is requested contain any friable asbestos?

Briefly Describe Nature of the Intended Business Activity: Return it for new tenant. Warehouse only - no mfg.

Warehouse for storage of research and pharmaceutical manufacturing supplies.

Name of Owner or Authorized Agent:

Mark Thompson, IDEC Pharmaceuticals

Signature of Owner or Authorized Agent: I declare under penalty of perjury that to the best of my knowledge and belief the responses made herein are true and correct.

Date: 9/9/96

DO NOT WRITE BELOW THIS LINE

FIRE DEPARTMENT OCCUPANCY CLASSIFICATION: S1/B

BY: [Signature] Date: 30 SEPT 96

EXEMPT FROM PERMIT REQUIREMENTS COUNTY HMMD	APCD	APPROVED FOR BUILDING PERMIT BUT NOT FOR OCCUPANCY COUNTY HMMD	APCD	APPROVED FOR OCCUPANCY COUNTY HMMD	APCD

HMMD permit not required for no mfg.



COUNTY OF SAN DIEGO

3/11
3/12 R

Page 1 of 1

EST. NO. H 00021
DATE 3-10-97
TIME START 11:15 END
BUS. CODE K67
SPECIALIST Scott Weldon
CONTACT Mark Thompson
TITLE Safety Manager
PHONE 550-8670

COMPLIANCE INSPECTION REPORT

BUSINESS NAME IDEC Pharmaceutical
ADDRESS 3030 Callan Road
CITY/ZIP San Diego CA 92121

On the above date an inspection of your business/facility was conducted in order to determine compliance with the California Health and Safety Code (H&S) Chapters 6.5, 6.7, 6.95; Titles 19, 22 and 23 of the California Code of Regulations (CCR); and the San Diego County Code (SDCC). The following remarks are intended to provide guidance to correct the violations noted on the attached violation report.

Office Use Only

New Site Inspection MAR 19 1997

No violations were observed during the time of inspection

Remarks:

1. A current hazardous materials business plan was approved on this date.
2. Employee training documentation for the employees working at Callan Road is on file at the Torreyana facility, and was reviewed during inspection.
3. This site is a hazardous materials warehouse. No hazardous or biohazardous wastes are generated at this site.

Signature of Business Representative

3-10-97

Date Signed

Health & Safety Associates
Title

Department of Environmental Health, Hazardous Materials Management Division, P.O. Box 85261, San Diego, CA, 92186-5261

(619) 338-2222



COUNTY OF SAN DIEGO

Page 1 of 1

EST. NO. H 00021
DATE 3-18-98
TIME START 7:18 END 10:00
BUS. CODE K67
SPECIALIST Scott Weldon
CONTACT Mark Thompson
TITLE Safety Manager
PHONE 550-8670

COMPLIANCE INSPECTION REPORT

BUSINESS NAME IDEC Pharmaceuticals
ADDRESS 3030 Callan Road
CITY/ZIP San Diego CA 92121

On the above date an inspection of your business/facility was conducted in order to determine compliance with the California Health and Safety Code (H&S) Chapters 6.5, 6.7, 6.95; Titles 19, 22 and 23 of the California Code of Regulations (CCR); and the San Diego County Code (SDCC). The following remarks are intended to provide guidance to correct the violations noted on the attached violation report.

Office Use Only

Routine Inspection

MAR 30 1998

P: 4/27/98 cis

No violations were observed at the time of inspection

Remarks:

1. A current Business Plan is on file at the site
2. Remember to update employee training for 1998.

Mark Thompson

Signature of Business Representative

3/18/98

Date Signed

Manager CHHS

Title

Department of Environmental Health, Hazardous Materials Management Division, P.O. Box 85261, San Diego, CA, 92186-5261

(619) 338-2222

File
H00021
PN

11011 Torreyana Road
San Diego, CA 92121
19-550-8500 • FAX 619-550-8750

IDEC

Pharmaceuticals Corporation

05/17/99

RECEIVED

MAY 19 10 34 AM '99

ENVIRONMENTAL
HEALTH SERVICES

Revised
5/28/99

Mr. Peter Neubauer
County of San Diego
Department of Environmental Health, HMMD
1225 Imperial Avenue
P.O. Box 129261
San Diego CA 92112-9261

Dear Peter,

This letter constitutes written follow-up regarding an incident during which an employee of IDEC Pharmaceuticals discharged between 2 and 3 gallons of a 20% Ethanol/80% water solution to a storm drain. This incident occurred at 3030 Callan Road, San Diego CA., 92121 at approximately 1 p.m. on 5/13/99. No injuries occurred as a result of the release, and no adverse environmental impact is expected. ✓

Following discovery of this event a phone call was made to your office on 5/14/99 in accordance with the requirements for verbal notification within 24 hours following any release. In addition to notifying your agency, IDEC contacted the offices of the City of San Diego Storm Water Program, and the Governor's Office of Emergency Services. Written notification will be submitted to all agencies that received verbal notification. ✓

IDEC is currently investigating this incident to determine why the employee was unaware of the restrictions on use of the storm drain for disposal of waste liquids. IDEC has had storm water pollution prevention plan in effect for its primary site of operations at 11011 Torreyana Road since 1994, and employee training is carried out on a periodic basis. At a minimum, follow-up to this incident will involve a review of our current storm water plan and refresher training for the responsible parties. ✓

I anticipate that additional correspondence between IDEC and your agency may be required in order to closeout this incident. This correspondence will also address the observations made during your most recent inspection on 5/13/99 with Mark Thompson. I may be contacted at (619) 550-8695, Monday through Friday, 9- 5 P.M.

Sincerely,

Marty King

Marty King
Sr. Associate
Environmental Health and Safety



COUNTY OF SAN DIEGO

Page 1 of 2

EST. NO. H 06021
DATE June 18, 1999
TIME START 10:40 END 12:30
BUS. CODE K67
SPECIALIST P. Newbaker
CONTACT Mark Thompson
TITLE Safety Manager
PHONE 459-0822

COMPLIANCE INSPECTION REPORT

BUSINESS NAME Idec Pharmaceuticals
ADDRESS 3030 Callan Road
CITY/ZIP San Diego 92121

On the above date an inspection of your business/facility was conducted in order to determine compliance with the California Health and Safety Code (H&S) Chapters 6.5, 6.7, 6.95; Titles 19, 22 and 23 of the California Code of Regulations (CCR); and the San Diego County Code (SDCC). The following remarks are intended to provide guidance to correct the violations noted on the attached violation report.

Office Use Only

Routine inspection

JUN 25 1999

FILE
7-1-99

1. Observation: Hazardous Material inventory has not been updated.
Corrective action: Within 5 days, submit an updated inventory for this site.
Either mail or fax 694-3705 atten: Peter Newbaker

2. Hazardous Material Business Plan onsite

Mark Thompson
Signature of Business Representative

6/18/99
Date Signed

Sr. Manager EH&S
Title

Department of Environmental Health, Hazardous Materials Management Division, P.O. Box 129261, San Diego, CA, 92112-9261

(619) 338-2222



COUNTY OF SAN DIEGO

COMPLIANCE INSPECTION REPORT

EST. NUMBER H 00021

DATE 6/18/99

PAGE 2 OF 2

BUSINESS ADDRESS: 3030 Callan Road San Diego 92121

VIOLATION REPORT: The items checked below refer to specific section numbers of Titles 19/22/23 of the California Code of Regulations (CCR), Chapters 6.5, 6.7, 6.95 of the Health and Safety Code (HSC), and/or the San Diego County Code (SDCC).

I HAZARDOUS WASTE REQUIREMENTS:

RECORD KEEPING

- ☐ Health Permit not obtained SDCC 68.905
- ☐ No EPA Identification Number 66262.12
- ☐ Waste Manifests/Receipts not on-site for 3 years 66262.40
- ☐ Manifest not properly completed 66262.23
- ☐ Manifest copy not sent to DTSC 66262.23
- ☐ TSDF signed-manifest not on-site 66262.40
- ☐ Biennial report not sent to DTSC 66262.41
- ☐ LDR Documentation not available 66268.7
- ☐ Exception Rpt. not filed with DTSC 66262.42
- ☐ Operating TSDF without authorization 25201

V0108 W
V0105 W
V0118 W

V0120 W
V0115 W
V0121 W
V0122 W
V0123 W
V0116 W
V0124 W

STORAGE AND HANDLING

- ☐ Waste stored longer than 90, 180, or 270 days 66262.34
- ☐ Failure to clean up hazwaste off of floor surface 66262.10b
- ☐ Waste container missing/improperly labeled 66262.34
- ☐ Haz Materials not properly labeled 25124
- ☐ Waste container not kept closed 66265.173
- ☐ Waste container in poor condition 66265.171
- ☐ Waste container(s) not properly managed 66265.173
- ☐ Damaged container not repackaged 66265.171
- ☐ Container incompatible with waste 66265.172
- ☐ Incompatibles in the same container 66265.177
- ☐ Incompatibles not stored separately 66265.177
- ☐ Ignitable Waste less than 50 feet 66265.176
- ☐ Ignitable Waste not grounded 66265.31
- ☐ Storage area not inspected weekly 66265.174

V0221 W
V0313 W
V0222 W
V0223 W
V0202 W
V0205 W
V0210 W
V0226 W
V0207 W
V0224 W
V0213 W
V0214 W
V0215 W
V0216 W

DISPOSAL AND TRANSPORTATION

- ☐ Unauth. disposal of waste to 25189.5
- ☐ Waste determination not made 66262.11
- ☐ Unlawful transport of haz. waste 25163
- ☐ Waste transported without manifest 66262.20
- ☐ Extremely Haz Waste Permit not obtained 25205.7

V0313 W
V0319 W
V0315 W
V0316 W
V0317 W

TRAINING, CONTINGENCY PLAN & EMERGENCY PROCEDURES

- ☐ Training records unavailable 66265.16
- ☐ Training program not adequate 66265.16
- ☐ Facility not designed to minimize release 66265.31
- ☐ Spill control equip not available 66265.32
- ☐ Aisle space is obstructed 66265.35
- ☐ Contingency plan not prepared and/or on file 66265.51, 66265.53

V0405 W
V0406 W
V0501 W
V0508 W
V0509 W
V0609 W

MISCELLANEOUS

- ☐ Waste oil contaminated 25250.7
- ☐ Used oil filters improperly managed 66266.130
- ☐ Damaged batteries improperly managed 66266.81
- ☐ Facility has failed to notify local CUPA and DTSC of onsite treatment of hazardous waste (tiered permitting)
- ☐ Onsite treatment of waste without authorization 25201

V0225 W
V0701 W
V0702 W

V0125 W
V0125 W

III HAZARDOUS MATERIALS BUSINESS PLAN REQUIREMENTS:

RECORD KEEPING

- ☐ Health Permit not obtained SDCC 68.1105
- ☐ Business Plan not established/implemented 25503.5
- ☐ Business Plan not submitted to HMMD 25505
- ☐ Business Plan not amended 25505
- ☐ Personnel Training Records not available 19 CCR 2732

V2001 W
V2002 W
V2007 W
V2003 W
V2302 W

RELEASE REPORTING

- ☐ Failure to report a release/threatened release 25507

V2008 W

II UNDERGROUND STORAGE TANK (UST) REQUIREMENTS:

GENERAL UST REQUIREMENTS

- ☐ Health Permit not obtained 68.1005, 25284
- ☐ Repair/modify/close permit not obtained 68.1005
- ☐ UST Permit Application not submitted 25286(a)
- ☐ Operating permit conditions violated 2712
- ☐ Failed to notify HMMD of changes 25284
- ☐ No owner/operator agreement 25284
- ☐ No records of financial coverage 25292.2
- ☐ No maint/monit/calib records available 2712(b), 2641(j)
- ☐ Monitoring Equip. not tested annually 2630, 2641

V3002 T
V3007 T
V3010 T
V3011 T
V3012 T
V3005 T
V3013 T
V3001 T
V3003 T

MONITORING REQUIREMENTS (SINGLE WALL)

- ☐ Leak Detection Method does not meet performance standards 2643
- ☐ Integrity test not conducted 25292
- ☐ Copy of tank test not submitted to HMMD within 30 days 2643
- ☐ Manual tank gauging (<2000 gal) 2645 not done properly
- ☐ Reconciliation not done properly 2646
- ☐ Reconciliation not approved for facility 2646
- ☐ Dispenser meter(s) not calib annually 2646
- ☐ Improper liquid measurements 2646
- ☐ Stick in poor condition 2646
- ☐ Improper monthly reconciliation 2646
- ☐ Failed to report excessive variation 2646
- ☐ Pressurized Product Piping Leak Device not tested annually 25292
- ☐ No written monitoring procedure 2641
- ☐ No written emergency response plan 2641
- ☐ SIR reporting incorrectly done 2646.1

V3014 T
V3015 T
V3016 T
V3017 T
V3018 T
V3019 T
V3020 T
V3021 T
V3022 T
V3023 T
V3024 T
V3025 T
V3027 T
V3027 T
V3004 T

MONITORING REQUIREMENTS (DOUBLE WALL)

- ☐ Monitoring system not functional 2632
- ☐ No written monitoring procedure 2632
- ☐ Written emergency response plan not available 2632
- ☐ Spill/Overfill equip. not maintained or installed 2635

V3026 T
V3027 T
V3028 T
V3029 T

RELEASE REPORTING

- ☐ Failure to report an unauthorized release 25295
- ☐ Release record log not available 2651, 2650
- ☐ No leak report/investigation/action 2652

V3009 T
V3030 T
V3031 T

CLOSURE

- ☐ Temporary closure req. not completed 2671
- ☐ Unused tank not properly closed 25298
- ☐ Permanent closure req. not completed 2672
- ☐ Failed to apply for temporary closure 25298

V3006 T
V3032 T
V3033 T
V3008 T

BUSINESS PLAN ELEMENTS

- ☐ Emergency Response Plan inadequate 25504
- ☐ Emergency Contacts not provided/current 25509
- ☒ Personnel Training Program inadequate 25504
- ☒ Inventory is incomplete 25504
- ☐ Site Map is not sufficient 25509
- ☐ Acutely Haz. Mat. not registered 25533

V2201 W
V2203 W

V2301 W
V2005 W
V2202 W
V2009 W

ALL VIOLATIONS MUST BE CORRECTED. PLEASE CALL (619) 338-2222 OR YOUR INSPECTOR IF YOU HAVE ANY QUESTIONS.

Mark Thompson
ESTABLISHMENT REPRESENTATIVE6/18/99
DATE SIGNEDS. Manager EHS
TITLE

Department of Environmental Health, Hazardous Materials Management Division, P. O. Box 129261, San Diego, CA 92112-9261



COUNTY OF SAN DIEGO

COMPLIANCE INSPECTION REPORT

PAGE 1 OF 1
EST. NO. H 00021
DATE 2/14/01
TIME START 9:40am END 10:35am
BUS. CODE K27
SPECIALIST Hart
CONTACT Rick Graham
TITLE Safety Assoc.
PHONE 858-431-8500

BUSINESS NAME IDEC Pharmaceuticals
ADDRESS 3030 Callan Rd
CITY/ZIP San Diego 92121

On the above date, an inspection of your business/facility was conducted in order to determine compliance with the California Health and Safety Code (H&S) Chapters 6.5, 6.7, 6.95; Titles 19, 22 and 23 of the California Code of Regulations (CCR); and the San Diego County Code (SDCC). The following remarks are intended to provide guidance to correct the violations noted on the attached violation report.

- Routine Inspection -

APR 16 2001

Office Use Only

Remarks:

- 1) Please submit an updated inventory and annual carcinogen report within 10 days.
- 2) Triennial Certification of Hazardous Materials Business Plan completed.
- 3) Health permit current; a new copy is being sent from DEH.
- 4) Training records for all employees located at Science Park address.

- No Violations Observed -

Signature of Business Representative

Date Signed

Title

Department of Environmental Health, Hazardous Materials Division, P.O. Box 129261, San Diego, CA 92112-9261; (619) 338-2222

H FILE #: 00021

DATE: 3/03/01

**SAN DIEGO COUNTY DEPARTMENT OF ENVIRONMENTAL HEALTH
HAZARDOUS MATERIALS MANAGEMENT DIVISION
Annual Carcinogen and Reproductive Toxin Reporting List**

Business Name: IDEC Pharmaceuticals

Business Address: 3030 Callan Road; San Diego, CA 92121

Business Owner or Operator: Publicly Held Corporation

[illegible]

Prepared by M Thompson
IDEC E,H&S

To file 100-21



City of San Diego
Planning and Development Review
Information and Application Services
1222 First Ave., MS-301
San Diego, CA 92101

THE CITY OF SAN DIEGO

Appointments (619) 446-5300, Information (619) 446-5000

Hazardous Materials Questionnaire

BP 3/8/01

PART I: City of San Diego Planning and Development Review - Fire Hazardous Materials Plan Check - Occupancy Classification

Business Name <u>Idec Pharmaceuticals</u>	Contact Person <u>Mark Thompson</u>	Telephone <u>858-431-8822</u>
Mailing Address <u>3030 Callan Road</u>	City <u>SD</u>	State <u>CA</u>
Project Address <u>3030 Callan Road</u>	City <u>SD</u>	State <u>CA</u>
Zip <u>92121</u>	Zip <u>92121</u>	Plan File # <u>A109454-01</u>
Permit #		

Will your business use, store or dispense any of the following hazardous materials? If any of the items is circled (except item 15), a San Diego Fire Department Hazardous Materials Information Sheet (form FPB-500) must be submitted with your project for review to: Planning & Development Review, Fire Hazardous Materials Plan Review, 1222 First Avenue, 4th floor, San Diego, CA 92101 (619) 446-5438.

- | | | |
|---|----------------------------------|-------------------------------------|
| 1. Explosives or Blasting agents | 6. Oxidizers | 11. Highly Toxic or Toxic Materials |
| 2. Compressed Gases | 7. Pyrophorics | 12. Radioactives |
| 3. Flammable or Combustible Liquids <u>diesel</u> | 8. Unstable (Reactive) Materials | 13. Corrosives |
| 4. Flammable Solids | 9. Water-Reactives | 14. Other Health Hazards |
| 5. Organic Peroxides | 10. Cryogenics | 15. None of These Items |

PART II: San Diego County Department of Environmental Health - Hazardous Materials Division (HMD):

If the answer to any of the questions on this form is yes, applicant must contact the County of San Diego Hazardous Materials Division, 1225 Imperial Avenue, 3rd floor, San Diego, CA 92101, telephone (619) 338-2222, prior to the issuance of a building permit.

- Yes No diesel tank - 393 gal Expected occup: 11-1501
- ☒ ☐ Is your business type listed on the reverse side of this form?
 - ☒ ☐ Will your business dispose of Hazardous Substances or Medical Wastes in any amount?
 - ☒ ☐ Will your business store or handle Hazardous Substances in quantities equal to or greater than 55 gallons, 500 pounds, 200 cubic feet or carcinogens/reproductive toxins in any quantity?
 - ☐ ☒ Will your business use an existing or install an underground storage tank?
 - ☐ ☒ Will your business store, use or handle Regulated Substances (CalARP)?
 - ☐ ☒ Will your business use or install a Hazardous Waste Tank System (Title 22, Article 10)?

OFFICE USE ONLY

H# _____
BP DATE 7/25/01
SAM _____
APCD _____

PART III: San Diego Air Pollution Control District

If the answer to any of the questions on this form is yes, applicant must contact the Air Pollution Control District, 9150 Chesapeake Drive, San Diego, CA 92123, telephone (858) 650-4550, prior to the issuance of a building permit.

- Yes No
- ☒ ☐ Will the intended occupant install or use any of the equipment listed on the Listing of Air Pollution Control District Permit Categories reverse side of this form?
 - ☐ ☒ (Answer only if the answer to question 1 is yes) Will the subject facility be located within 1,000 feet of the outer boundary of a school (K through 12) as listed in the current Directory of School and Community College Districts published by the San Diego County Office of Education and the current California Private School Directory compiled in accordance with provisions of Education Code Section 33190?
 - ☐ ☒ Does the building or structure for which this demolition permit is requested contain any friable asbestos?

OFFICE USE ONLY

☐ Cal ARP Exempt

Date _____ Initials _____

☐ Cal ARP Required

Date _____ Initials _____

☐ Cal ARP Completed

Date _____ Initials _____

Briefly describe business activity and proposed project:

Stand by Generator

Name of Owner or Authorized Agent

Mark Thompson

Signature of Owner or Authorized Agent

[Signature]

Date

7/25/01

I declare under penalty of perjury that to the best of my knowledge and belief the responses made herein are true and correct.

FOR OFFICIAL USE ONLY: FIRE DEPARTMENT OCCUPANCY CLASSIFICATION:

By:

Date:

EXEMPT OR NO FURTHER INFORMATION REQUIRED COUNTY HMD	APCD	RELEASED FOR BUILDING PERMIT BUT NOT FOR OCCUPANCY COUNTY HMD	REVIEWED AC INITIALS 7/31/01 DATE APCD No. 976831	RELEASED FOR OCCUPANCY COUNTY HMD	REVIEWED Wash INITIALS 9-24-01 DATE HMD
---	------	--	--	--------------------------------------	--

This information is available in alternative formats for persons with disabilities.

To request this information in alternative format, call (619) 446-5446 or (800) 735-2929 (TT)

Be sure to see us on the World Wide Web at www.ci.san-diego.ca.us/development-services

DS-3163 (01-01)



COUNTY OF SAN DIEGO

COMPLIANCE INSPECTION REPORT

BUSINESS NAME IDEC Pharmaceuticals
ADDRESS 3030 Callan Rd
CITY/ZIP San Diego 92121

PAGE 1 OF 1 DATE 5/14/02
PERMIT # 00021
TIME START 12:30 END 1:20
BUS. CODE K67
SPECIALIST Hart
INSPECTION CONTACT/TITLE
Rick Graham
PHONE: (858) 431-8500

On the above date, an inspection of your business/facility was conducted in order to determine compliance with the California Health and Safety Code (HSC) Chapters 6.5, 6.7, 6.95; Titles 19, 22 and 23 of the California Code of Regulations (CCR); and the San Diego County Code (SDCC). The following remarks are intended to provide guidance to correct the violations noted on the attached violation report.

Y N/A

JUL 01 2002

Y N/A

- | | |
|--|--|
| <input checked="" type="checkbox"/> <input type="checkbox"/> Unified Facility Permit current and available | <input checked="" type="checkbox"/> <input type="checkbox"/> Permit Expires on: <u>5/31/03</u> |
| <input checked="" type="checkbox"/> <input type="checkbox"/> Hazardous Materials Business Plan available | <input checked="" type="checkbox"/> <input type="checkbox"/> Contingency Plan available |
| <input checked="" type="checkbox"/> <input type="checkbox"/> Employee Training is adequate | <input checked="" type="checkbox"/> <input type="checkbox"/> Employee Training records available |
| <input type="checkbox"/> <input checked="" type="checkbox"/> Waste disposal records available for review | <input type="checkbox"/> <input checked="" type="checkbox"/> Waste containers kept closed |
| <input type="checkbox"/> <input type="checkbox"/> Emergency contacts current <input checked="" type="checkbox"/> Updated today | <input type="checkbox"/> <input checked="" type="checkbox"/> Waste containers kept labeled |
| <input type="checkbox"/> <input type="checkbox"/> Chemical inventory current <input checked="" type="checkbox"/> Updated today | <input type="checkbox"/> <input checked="" type="checkbox"/> Waste containers in good condition |

Remarks:

- 1) No hazardous waste generated on site.
- 2) Employee safety training records and Hazardous materials Business Plan on site
- 3) Health permit current and on site.

☐ This is an annual certification that the Hazardous Materials Business Plan (inventory, emergency contacts, emergency response plan, and employee training plan) is current and includes all the information required in the HSC and is maintained at the site where hazardous materials are stored.

Initials of
Business
Representative

Signature of Business Representative

Date Signed

Title

Department of Environmental Health, Hazardous Materials Division, P.O. Box 129261, San Diego, CA 92112-9261; (619) 338-2222; sdcdch.org



COUNTY OF SAN DIEGO

COMPLIANCE INSPECTION REPORT

BUSINESS NAME IDEC Pharm.
ADDRESS 3030 Callan Rd
CITY/ZIP San Diego 92124

PAGE 1 OF 1 DATE 11/21/03
PERMIT # 100021
TIME START 12:10 END 1:30
BUS. CODE K67
SPECIALIST Hunt
INSPECTION CONTACT/TITLE
Rick Graham / Safety Assoc
PHONE: (858) 431-8500

prsd. 1/29/04 Sinfante

On the above date, an inspection of your business/facility was conducted in order to determine compliance with the California Health and Safety Code (HSC) Chapters 6.5, 6.7, 6.95; Titles 19, 22 and 23 of the California Code of Regulations (CCR); and the San Diego County Code (SDCC). The following remarks are intended to provide guidance to correct the violations noted on the attached violation report.

Y N/A

- | | | |
|-------------------------------------|-------------------------------------|--|
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | Unified Program Facility Permit current and available |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | Hazardous Materials Business Plan available |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | Employee Training is adequate |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | Waste disposal records available for review |
| <input type="checkbox"/> | <input type="checkbox"/> | Emergency contacts current <input checked="" type="checkbox"/> Updated today |
| <input type="checkbox"/> | <input type="checkbox"/> | Chemical inventory current <input checked="" type="checkbox"/> Updated today |

Y N/A

- | | | |
|-------------------------------------|-------------------------------------|-------------------------------------|
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | Permit Expires on: <u>5/31/04</u> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | Contingency Plan available |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | Employee Training records available |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | Waste containers kept closed |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | Waste containers kept labeled |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | Waste containers in good condition |

Routine Inspection

DEC 18 2003

Remarks:

1) Please update and maintain onsite, a current emergency response plan page for your Hazardous Materials Business Plan.

☒ This is an annual certification that the Hazardous Materials Business Plan (inventory, emergency contacts, emergency response plan, and employee training plan) is current and includes all the information required in the H&SC and is maintained at the site where hazardous materials are stored.

Initials of
Business
Representative

Rick Graham
Signature of Business Representative

11-21-03
Date Signed

ASSOCIATE II EHS
Title

Department of Environmental Health, Hazardous Materials Division, P.O. Box 129261, San Diego, CA 92112-9261; (619) 338-2222; sdcdeh.org

biogen idec

RECEIVED

2004 SEP 14 AM 8 47

D. E. H.
MAILROOM

September 13, 2004

County of San Diego
Department of Environmental Health
Hazardous Materials Division
P.O. Box 129261
San Diego, CA 92112-9261

Via Facsimile: 619.338.2377

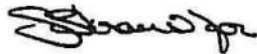
Attn: Veronica

RE: Biogen Idec, 3010 Callan Rd., La Jolla, CA 92121
Establishment Number 100021
Notification of Hazardous Material Removal

Dear DEH Representative:

This letter serves to notify the San Diego County Department of Environmental Health that all hazardous materials from the above mentioned facility have been removed as of September 13, 2004. We understand an inspector will like to visit the facility to verify the site status. Please contact me at 760.231.2491 to schedule such a visit. Thank you.

Sincerely,



Joseph R. Hess
EHS Manager

C. Jennifer L. Kraus, MPH, PhD
GECCo, Inc.



COUNTY OF SAN DIEGO

COMPLIANCE INSPECTION REPORT

BUSINESS NAME BIOGEN Idec
 ADDRESS 3010 CALLAN RD
 CITY/ZIP SD 92121

PAGE 1 OF 1 DATE 10/15/04
 PERMIT # 160021
 TIME START 930 END 1045
 BUS. CODE K67
 SPECIALIST HANN
 INSPECTION CONTACT/TITLE Jennifer Kraus, Marty King
 PHONE: (858) 401-5588

On the above date, an inspection of your business/facility was conducted in order to determine compliance with the California Health and Safety Code (HSC) Chapters 6.5, 6.7, 6.95; Titles 19, 22 and 23 of the California Code of Regulations (CCR); and the San Diego County Code (SDCC). The following remarks are intended to provide guidance to correct the violations noted on the attached violation report.

NOTE: Reinspection fees will be charged if additional inspections are required to determine compliance.

Y	N/A		Y	N/A	
<input type="checkbox"/>	<input type="checkbox"/>	Unified Program Facility Permit current and available	<input type="checkbox"/>	<input type="checkbox"/>	Permit Expires on: <u>1 / 1</u>
<input type="checkbox"/>	<input type="checkbox"/>	Hazardous Materials Business Plan available	<input type="checkbox"/>	<input type="checkbox"/>	Contingency Plan available
<input type="checkbox"/>	<input type="checkbox"/>	Employee Training is adequate	<input type="checkbox"/>	<input type="checkbox"/>	Employee Training records available
<input type="checkbox"/>	<input type="checkbox"/>	Waste disposal records available for review	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Waste containers kept closed
<input type="checkbox"/>	<input type="checkbox"/>	Emergency contacts current <input type="checkbox"/> Updated today	<input type="checkbox"/>	<input type="checkbox"/>	Waste containers kept labeled
<input type="checkbox"/>	<input type="checkbox"/>	Chemical inventory current <input type="checkbox"/> Updated today	<input type="checkbox"/>	<input type="checkbox"/>	Waste containers in good condition
<input type="checkbox"/>	<input type="checkbox"/> All violations noted on this compliance inspection report were corrected during this inspection.				

INACTIVATION INSPECTION

County (HMD) received notification from Biogen Idec - Joseph Hess stating this site no longer has hazardous materials. (on 11) Met w/ Jennifer Kraus (Consultant) and Marty King (Biogen Idec EHS) for walk-through - all hazardous materials have been removed. Biogen Idec has/is moving out. There is a diesel emergency generator on-site that will stay w/ building owner. Owner should be notified that a permit will be required. Burman Real Estate Services is contact - Brian Cooper (858) 558-5676
 PM Realty - Melissa Chester - 1010 2nd Ave Ste #2250
 SD 92101

☐ This is an annual certification that the Hazardous Materials Business Plan (inventory, emergency contacts, emergency response plan, and employee training plan) is current and includes all the information required in the H&SC and is maintained at the site where hazardous materials are stored.

Initials of Business Representative

[Signature]
 Signature of Business Representative

10/15/04
 Date Signed

GEICO, Inc.
 Title of Business Representative

Department of Environmental Health, Hazardous Materials Division, P.O. Box 129261, San Diego, CA 92112-9261; (619) 338-2222; sdcdch.org



City of San Diego
Development Services
Information and Application Services
1222 First Ave., MS-301
San Diego, CA 92101
Appointments (619) 446-5300, Information (619) 446-5000

Expedite # 155²⁵

Track # 172B
Conf. # 004340

CK. 023113
#351

Hazardous Materials Questionnaire

20597B HV20-3286

PART I: City of San Diego Development Services, Fire/Hazardous Materials Plan/Check, Occupancy Classification

Business Name Cytos Therapeutics Inc	Contact Person Kevin Hickok	Telephone 858 458-0900 Ext 35
Mailing Address 3020 Callan Road	City San Diego	State CA
	Zip 92121	Plan File #
Project Address 3020 Callan Road	City San Diego	State CA
	Zip 92121	Permit # APN# 240-010-44

Will your business use, store or dispense any of the following hazardous materials? If any of the items is circled (except item 15), a San Diego Fire Department Hazardous Materials Information Sheet (form FPB-500) must be submitted with your project for review to: Development Services, Fire Hazardous Materials Plan Review, 1222 First Avenue, 4th floor, San Diego, CA 92101 (619) 446-5440

- | | | |
|-------------------------------------|----------------------------------|-------------------------------------|
| 1. Explosives or Blasting agents | 6. Oxidizers | 11. Highly Toxic or Toxic Materials |
| 2. Compressed Gases | 7. Pyrophorics | 12. Radioactives |
| 3. Flammable or Combustible Liquids | 8. Unstable (Reactive) Materials | 13. Corrosives |
| 4. Flammable Solids | 9. Water-Reactives | 14. Other Health Hazards |
| 5. Organic Peroxides | 10. Cryogenics | 15. None of These Items |

PART II: San Diego County Department of Environmental Health - Hazardous Materials Division (HMD)

If the answer to any of the questions on this form is yes, applicant must contact the County of San Diego Hazardous Materials Division, 1225 Imperial Avenue, 3rd floor, San Diego, CA 92101, telephone (619) 338-2222 prior to the issuance of a building permit.

Yes No

- ☒ ☐ Is your business type listed on the reverse side of this form?
- ☐ ☐ Will your business dispose of Hazardous Substances or Medical Wastes in any amount?
- ☐ ☒ Will your business store or handle Hazardous Substances in quantities equal to or greater than 55 gallons, 500 pounds, 200 cubic feet or carcinogens/reproductive toxins in any quantity?
- ☐ ☒ Will your business use an existing or install an underground storage tank?
- ☐ ☒ Will your business store, use or handle Regulated Substances (CalARP)?
- ☐ ☒ Will your business use or install a Hazardous Waste Tank System (Title 22, Article 10)?

OFFICE USE ONLY	
DATE	INITIALS
BPD	
SAM	
APCD	

PART III: San Diego Air Pollution Control District

If the answer to any of the questions on this form is yes, applicant must contact the Air Pollution Control District, 9150 Chesapeake Drive, San Diego, CA 92123, telephone (619) 650-4550 prior to the issuance of a building permit.

Yes No

- ☒ ☐ Will the intended occupant install or use any of the equipment listed on the Listing of Air Pollution Control District Permit Categories reverse side of this form?
- ☐ ☐ (Answer only if the answer to question 1 is yes) Will the subject facility be located within 1,000 feet of the outer boundary of a school (K through 12) as listed in the current Directory of School and Community College Districts published by the San Diego County Office of Education and the current California Private School Directory compiled in accordance with provisions of Education Code Section 33190?
- ☐ ☒ Does the building or structure for which this demolition permit is requested contain any friable asbestos?

OFFICE USE ONLY	
<input type="checkbox"/> Cal ARP Exempt	
DATE	INITIALS
<input type="checkbox"/> Cal ARP Required	
DATE	INITIALS
<input type="checkbox"/> Cal ARP Completed	
DATE	INITIALS

Briefly describe business activity and proposed project:

Cellular Therapeutic Research & Development Laboratories

Name of Owner or Authorized Agent

Signature of Owner or Authorized Agent

Date

J. Peter Amis

J. Peter Amis

9/8/05
9/8/05

I declare under penalty of perjury that to the best of my knowledge and belief the responses made herein are true and correct.

FOR OFFICIAL USE ONLY: FIRE DEPARTMENT OCCUPANCY CLASSIFICATION:

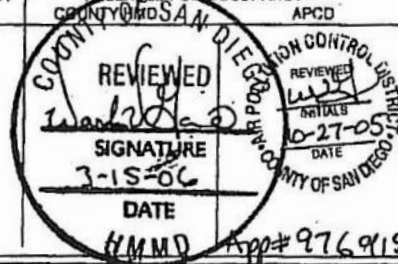
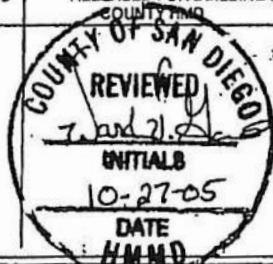
By:

Date:

EXEMPT OR NO FURTHER INFORMATION REQUIRED
COUNTY HMD APCD

RELEASED FOR BUILDING PERMIT BUT NOT FOR OCCUPANCY
COUNTY HMD APCD

RELEASED FOR OCCUPANCY
COUNTY HMD APCD



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Be sure to see us on the World Wide Web at www.ci-san-diego.ca.us/development-services
DS-3163 (06-01)



SAN DIEGO COUNTY
DEPARTMENT OF ENVIRONMENTAL HEALTH - CUPA
HAZARDOUS MATERIALS DIVISION
P.O. BOX 129261, SAN DIEGO, CA 92112-9261
(619) 338-2222 FAX (619) 338-2377
1-800-253-9933

BUSINESS OWNER/OPERATOR IDENTIFICATION

I. IDENTIFICATION														
FACILITY ID#	3	7	0	0	0	20	5	9	7	8	BEGINNING DATE	100	ENDING DATE	101
BUSINESS NAME (Same as FACILITY NAME or DBA - Doing Business As)											BUSINESS PHONE			102
Cytori Therapeutics, Inc.											(858) 458-9900 x 458-0900			102
BUSINESS SITE ADDRESS														103
3020/3030 Callan Road														103
CITY										104	CA	ZIP CODE	105	
San Diego										104	CA	92121-	105	
DUN & BRADSTREET										106	SIC CODE (4 digit #)	107		
111029179										106	8731	107		
COUNTY														108
San Diego														108
BUSINESS OPERATOR NAME											109	BUSINESS OPERATOR PHONE	110	
Peter Amis											109	(858) 458-0900 x	110	
II. BUSINESS OWNER														
OWNER NAME											111	OWNER PHONE	112	
Christopher Calhoun (CED)											111	(858) 458-0900 x	112	
OWNER MAILING ADDRESS														113
3020 Callan Road														113
CITY										114	STATE	115	ZIP CODE	116
San Diego										114	CA	115	92121-	116
III. ENVIRONMENTAL CONTACT														
CONTACT NAME											117	CONTACT PHONE	118	
Donna Harclerode											117	(858) 458-9900 x	118	
CONTACT MAILING ADDRESS														119
3030 Callan Road														119
CITY										120	STATE	121	ZIP CODE	122
San Diego										120	CA	121	92121-	122
IV. EMERGENCY CONTACTS														
-PRIMARY-											-SECONDARY-			
NAME											123	NAME	128	
Peter Amis											123	Kevin Hick Donna Harclerode	128	
TITLE											124	TITLE	129	
Director of Special Projects											124	Research Laboratories Manager Ass	129	
BUSINESS PHONE											125	BUSINESS PHONE	130	
(858) 458-0900 x											125	(858) 458-0900 x 5416	130	
24-HOUR PHONE											126	24-HOUR PHONE	131	
											126		131	
											127	PAGER #	132	
											127		132	
ADDITIONAL LOCALLY COLLECTED INFORMATION:														
E-MAIL: *														
E-MAIL: *														
* This information is optional and will remain confidential. Complete if you want to receive periodic program updates from HMD.														
ALWAYS SUBMIT A COPY OF THIS COMPLETED PAGE WITH SUBMITTAL OF ANY OTHER UNIFIED PROGRAM CONSOLIDATED FORM.														
Certification: Based on my inquiry of those individuals responsible for obtaining the information, I certify under penalty of law that I have personally examined and am familiar with the information submitted and believe the information is true, accurate, and complete.														
SIGNATURE OF OWNER/OPERATOR OR DESIGNATED REPRESENTATIVE											134	NAME OF DOCUMENT PREPARER	135	
[Signature]											134	Patrick Phelan - Onyx Environmental	135	
NAME OF SIGNER (print)											136	TITLE OF SIGNER	137	
Peter Amis											136	Director of Special Projects	137	



SAN DIEGO COUNTY
DEPARTMENT OF ENVIRONMENTAL HEALTH - CUPA
HAZARDOUS MATERIALS DIVISION
P.O. BOX 129261, SAN DIEGO, CA 92112-9261
(619) 338-2222 FAX (619) 338-2377
1-800-253-9933

BUSINESS ACTIVITIES

Page ____ of ____

I. FACILITY IDENTIFICATION

FACILITY ID #	3	7	0	0	0	2	0	5	9	7	8	EPA ID # (Hazardous Waste Only)	2
---------------	---	---	---	---	---	---	---	---	---	---	---	---------------------------------	---

BUSINESS NAME (Same as Facility Name of DBA-Doing Business As)	Cytari Therapeutics Inc	3
--	-------------------------	---

II. ACTIVITIES DECLARATION

**NOTE: If you check YES to any part of this list,
please submit the Business Owner/Operator Identification page (OES Form 2730).**

Does your facility... If Yes, please complete these pages of the UPCF.

A. HAZARDOUS MATERIALS

Have on site (for any purpose) hazardous materials at or above 55 gallons for liquids, 500 pounds for solids, or 200 cubic feet for compressed gases (include liquids in ASTs and USTs); or the applicable Federal threshold quantity for an extremely hazardous substance specified in 40 CFR Part 355, Appendix A or B; or handle radiological materials in quantities for which an emergency plan is required pursuant to 10 CFR Parts 30, 40 or 70?	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	4	HAZARDOUS MATERIALS INVENTORY - CHEMICAL DESCRIPTION (OES 2731)
---	---	---	--

B. UNDERGROUND STORAGE TANKS (USTs)

Own or operate underground storage tanks?	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	5	UST FACILITY (Formerly SWRCB Form A)
Intend to upgrade existing or install new USTs?	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	6	UST TANK (one page per tank) (Formerly Form B)
			UST FACILITY
			UST TANK (one per tank)
			UST INSTALLATION - CERTIFICATE OF COMPLIANCE (one page per tank) (Formerly Form C)
			UST TANK (closure portion - one page per tank)
Need to report closing a UST?	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	7	

C. ABOVE GROUND PETROLEUM STORAGE TANKS (ASTs)

Own or operate ASTs above these thresholds: —any tank capacity is greater than 660 gallons, or —the total capacity for the facility is greater than 1,320 gallons?	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	8	NO FORM REQUIRED TO CUPAs
--	---	---	---------------------------

D. HAZARDOUS WASTE

Generate hazardous waste?	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	9	EPA ID NUMBER - provide at the top of this page
Recycle more than 100 kg/month of excluded or exempted recyclable materials (per HSC 25143.2)?	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	10	RECYCLABLE MATERIALS REPORT (one per recycler)
Treat hazardous waste on site?	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	11	ONSITE HAZARDOUS WASTE TREATMENT - FACILITY (Formerly DTSC Form 1772)
			ONSITE HAZARDOUS WASTE TREATMENT - UNIT (one page per unit) (Formerly DTSC Forms 1772 A, B, C, D and L)
Treatment subject to financial assurance requirements (for Permit by Rule and Conditional Authorization)?	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	12	CERTIFICATION OF FINANCIAL ASSURANCE (Formerly DTSC Form 1232)
Consolidate hazardous waste generated at a remote site?	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	13	REMOTE WASTE / CONSOLIDATION SITE ANNUAL NOTIFICATION (Formerly DTSC Form 1196)
Need to report the closure/removal of a tank that was classified as hazardous waste and cleaned onsite?	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	14	HAZARDOUS WASTE TANK CLOSURE CERTIFICATION (Formerly DTSC Form 1249)

E. LOCAL REQUIREMENTS

Generate <200 lbs/month of Medical/Biohazardous Waste?	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	
Generate ≥200 lbs/month of Medical/Biohazardous Waste?	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	
Generate ≥200 lbs/month of Medical/Biohazardous Waste and treat any amount of medical waste	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	
Handle Toxic gases with threshold limit concentration (TLV) # 10 ppm in any quantity?	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	



UPF Permit#: 205978

DATE INSPECTED: 2 Jan 06 *SA*

UNIFIED PROGRAM FACILITY PERMIT APPLICATION

- ☒ This business or service is required to obtain a Unified Program Facility Permit from the San Diego County Department of Environmental Health. I answered "yes" to one or more of the questions on the "Business Activities" form.

Date assumed business ownership at this location: 8/22/2006

This permit does not excuse any owner or operator from complying with all applicable federal, state, county or local laws, ordinances or regulations. The owner or operator is required to determine if another permit or approval from any other agency or department is necessary. The County, by issuing this permit, does not relinquish its right to enforce any violation of law.

- ☐ I have determined that this business or service does not require a Unified Program Facility Permit from the San Diego County Department of Environmental Health.

I declare under penalty of perjury that to the best of my knowledge and belief the statements made herein are correct and true. I consent to all necessary inspections allowed by law and incidental to the issuance of required permit(s) and the operation of this business.

Signature: *Peter Amis*

Title: DIRECTOR OF SPECIAL PROJECTS

Printed Name: PETER AMIS

Date: 3/14/2006

Type of Business:
R&D / Manf. of Medical Devices

Phone #: (858) 458-9900

Please complete the business information on the following page and return this application to the San Diego County Department of Environmental Health at:

SAN DIEGO COUNTY
DEPARTMENT OF ENVIRONMENTAL HEALTH
HAZARDOUS MATERIALS DIVISION
P.O. BOX 129261
SAN DIEGO CA 92112-9261

If a San Diego County Unified Program Facility Permit is required for your business or service a representative of this Department will contact your business. Permit fees will be determined from the contact and a billing statement will be mailed.

NOTE: If you do not use hazardous materials, generate hazardous waste, or have underground storage tanks you are still required to return this form.

A representative of the San Diego County Department of Environmental Health may contact you to verify the information provided on this application.



SAN DIEGO COUNTY
DEPARTMENT OF ENVIRONMENTAL HEALTH - CUPA
HAZARDOUS MATERIALS DIVISION
P.O. BOX 129261, SAN DIEGO, CA 92112-9261
(619) 338-2222 FAX (619) 338-2377
1-800-253-9933

**HAZARDOUS MATERIALS BUSINESS PLAN
CERTIFICATION STATEMENT**

The California Health & Safety Code (H&SC), Division 20, Chapter 6.95, Section 25505 provides for the following:

The San Diego County, Department of Environmental Health, Hazardous Materials Division (HMD), as the administering agency, requires a business that handles hazardous materials to submit the hazardous materials inventory, a list of emergency contacts, and a site plan. In lieu of a complete Hazardous Materials Business Plan (HMBP), only after the initial submittal of a complete HMBP. The business must certify that a complete HMBP has been prepared and is maintained at the site where the hazardous materials are stored. A complete HMBP includes the items to be submitted to the HMD and an Emergency Response Plan and Employee Training Plan, as established in H&SC Section 25504. The business must also annually certify that the HMBP is current and maintained on site. See Back for instructions and further clarification.

I. IDENTIFICATION

FACILITY ID#	3	7	0	0	0	2	0	5	9	7	8
BUSINESS NAME (Same as FACILITY NAME or DBA - Doing Business As)											
Cytori Therapeutics, Inc.											
BUSINESS SITE ADDRESS											
3020/3030 Callan Rd.											
CITY						CA		ZIP CODE			
San Diego								92121			

II. CERTIFICATION STATEMENT

Check only one of the following boxes:

INITIAL CERTIFICATION:

- ☒ This is to certify (H&SC Section 25505(e)(1)) that a complete HMBP, which includes the hazardous materials inventory, a list of emergency contacts, a site plan, emergency response plan, and employee training plan, has been prepared and is maintained at the site where the hazardous materials are stored.

ANNUAL CERTIFICATION:

- ☐ This is an annual certification (H&SC Section 25505(d)&(e)(2)) that the HMBP, which includes the hazardous materials inventory, a list of emergency contacts, a site plan, emergency response plan, and employee training plan, is current and includes all the information required in H&SC Section 25504, and 25509, and is maintained at the site where the hazardous materials are stored. Attached are changes to the hazardous materials inventory and/or list of emergency contacts. For site map revisions, submit only the pages that have a change or revision and attach to this certification.

CERTIFICATION OF CHANGES/REVISIONS:

- ☐ This is to certify that the HMBP has been reviewed (H&SC Section 25505(c) & 25510) and all necessary changes/revisions have been made. The HMBP is current and is maintained at the site where the hazardous materials are stored. Attached are changes to the hazardous materials inventory and/or list of emergency contacts. For site map revisions, submit only the pages that have a change or revision and attach to this certification.

AS AN AUTHORIZED REPRESENTATIVE, I CERTIFY UNDER THE PENALTY OF LAW, THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED AND BELIEVE THE INFORMATION IS TRUE, ACCURATE, AND COMPLETE.

SIGNATURE OF OWNER/OPERATOR OR DESIGNATED REPRESENTATIVE	DATE
<i>Peter Amis</i>	3/14/2006
NAME OF SIGNER (print)	TITLE OF SIGNER
Peter Amis	Director of Special Projects



ENTERED AUG 08 2006

COUNTY OF SAN DIEGO

COMPLIANCE INSPECTION REPORT

BUSINESS NAME Cytovir Therapeutics Inc
ADDRESS 3020 Callan Rd
CITY/ZIP SD 92121

PAGE 1 OF 1 DATE 2 JUN 06
PERMIT # 205978
TIME START 200 END 400
BUS. CODE K67
SPECIALIST Hahn
INSPECTION CONTACT/TITLE Donna Harclerode
PHONE: (858) 458-0900

On the above date, an inspection of your business/facility was conducted in order to determine compliance with the California Health and Safety Code (HSC) Chapters 6.5, 6.7, 6.95; Titles 19, 22 and 23 of the California Code of Regulations (CCR); and the San Diego County Code (SDCC). The following remarks are intended to provide guidance to correct the violations noted on the attached violation report.

NOTE: Reinspection fees will be charged if additional inspections are required to determine compliance.

Y	N/A		Y	N/A	
<input type="checkbox"/>	<input type="checkbox"/>	Unified Program Facility Permit current and available	<input type="checkbox"/>	<input type="checkbox"/>	Permit Expires on: <u>1/1</u>
<input type="checkbox"/>	<input type="checkbox"/>	Hazardous Materials Business Plan available	<input type="checkbox"/>	<input type="checkbox"/>	Contingency Plan available
<input type="checkbox"/>	<input type="checkbox"/>	Employee Training is adequate	<input type="checkbox"/>	<input type="checkbox"/>	Employee Training records available
<input type="checkbox"/>	<input type="checkbox"/>	Waste disposal records available for review	<input type="checkbox"/>	<input type="checkbox"/>	Waste containers kept closed
<input type="checkbox"/>	<input type="checkbox"/>	Emergency contacts current <input type="checkbox"/> Updated today	<input type="checkbox"/>	<input type="checkbox"/>	Waste containers kept labeled
<input type="checkbox"/>	<input type="checkbox"/>	Chemical inventory current <input type="checkbox"/> Updated today	<input type="checkbox"/>	<input type="checkbox"/>	Waste containers in good condition

NEW SITE INSPECTION

RECEIVED JUL 13 2006

Compliance Inspection - New Site Inspection conducted with Donna Harclerode, Peter Amis, & Mike Hard.

Permit Application and Hazardous Materials Business Plan submitted & reviewed on this day.

Generates Lithium, solvent + oil waste.

REMARKS:

- Ensure all hazardous waste labels have correct information
- Business manages all biohazardous waste as medical waste, generates 7200 lbs/month & is a large quantity generator - annual inspection frequency.
- Complete Medical Waste Management Plan within 30 days and submit ATTN: HAHN @ 858.694.3705 (fax)
- Ensure Medical Waste Storage has correct wording - specialist will send correct wording
- Specialist will send info for proper (option) for liquid medical waste disposal.

☐ This is an annual certification that the Hazardous Materials Business Plan (inventory, emergency contacts, emergency response plan, and employee training plan) is current and includes all the information required in the H&SC and is maintained at the site where hazardous materials are stored.

Initials of Business Representative

D Harclerode
Signature of Business Representative

06/02/06
Date Signed

Scientist - Safety
Title of Business Representative

Department of Environmental Health, Hazardous Materials Division, P.O. Box 129261, San Diego, CA 92112-9261
Phone: (619) 338-2222 Fax: (619) 338-2137 1-800-253-9933 <http://www.sdcounty.ca.gov/deh/hmd/index.html>

DATE 6/10/06

RECEIVED

06 AUG 7 AM 11 41

OFFICE USE ONLY

H 205978

MEDICAL WASTE MANAGEMENT PLAN

Business Name: Cytos Therapeutics, Inc. Type of Business: U. E. H. MAJOR Practice; Biotech R&D / Manf.Site Address: 3020-3030 Callan Rd. San Diego, CA Zip: 92121 Phone: 858-458-0900Contact Person: Donna Harckrode Title: Lab/EHS Manager24 Hour Emergency Phone: (800) 572-2964

GENERATION AND STORAGE OF BIOHAZARDOUS WASTE:

Describe below the type and quantity of biohazardous waste generated and managed at this facility. SEE SAMPLE PLAN AND ATTACHMENT FOR DEFINITION OF TERMS USED IN THIS PLAN

MEDICAL WASTE TYPE	QUANTITY (lbs/month)	STORAGE (container type)	TREATMENT METHOD	ON- SITE	OFF- SITE	HAULER NAME*
BIOHAZARDOUS WASTE Sharp Waste Needles/syringes/slides	100	44-gal drum	incineration		X	Inertec Medical Services
Non-sharp Waste Articles containing Fluid Blood (gauze, bandages, tubing, etc.)	50	44-gal drum	incineration		X	Inertec Medical Services
Solids (cultures, lab waste, etc.)	—	N/A	N/A	—	—	N/A
Liquids (urine, etc.)	800	5-gal carboy	incineration		X	Inertec Medical Services
Trace chemotherapy waste	—	N/A	N/A	—	—	N/A
Contaminated animal carcasses	30	44-gal drum	incineration		X	Inertec Medical Services
Other	—	N/A	N/A	—	—	N/A
MEDICAL SOLID WASTE Gloves, empty specimen containers, gauze with dry blood, treated biohazardous waste	N/A		N/A	N/A	N/A	

* If applicable, attach a copy of biohazardous waste hauler contract or Limited Quantity Hauler exemption.

Biohazardous WASTE STORAGE LOCATION: [Please check the appropriate box(es)].

Biohazardous Waste: ☐ Inside establishment in secured area ☒ Outside in posted, secure area
 Medical Solid Waste: ☐ Inside establishment ☐ Outside in Locked/secured dumpster

PERSONNEL TRAINING:

All personnel handling biohazardous waste have been trained in all aspects of this management plan. Training includes the legal definition of biohazardous waste, separation and proper storage, transportation, treatment, and disposal of biohazardous waste. Documentation for completed employee training will be kept onsite.

CERTIFICATION STATEMENT:

I certify that the above management plan is complete and accurate, and that this business will adhere to all aspects of the plan. I further understand that any violation of this plan or any applicable law or regulation may result in legal action.

SIGNATURE OF RESPONSIBLE PERSON

Donna Harckrode

NAME OF RESPONSIBLE PERSON (please print or type)

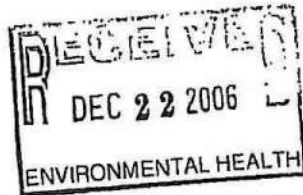
TITLE

Scientist

DATE

DISTRIBUTION: WHITE - RETURN TO IHMD
YELLOW - BUSINESS RETAINS

205978



December 11, 2006

Manon Manschue
County of San Diego
Department of Health Services
Hazardous Materials Management Division
P.O. Box 129261
San Diego, CA 92112-9261

RE: Cytori Therapeutics' Annual Carcinogen Report and Updated Cal/Arp

Dear Ms. Manschue

Enclosed, please find Cytori Therapeutics' Annual Carcinogen Report and updated Cal/Arp report for our location at 3020 Callan Road, San Diego, CA 92121. If you have any further questions, please contact myself at (858) 458-0900 or alternatively contact our Health and Safety Specialist, Jacqui Hardt from Occupational Services, Inc. on (619) 518-1360.

Sincerely,
Cytori Therapeutics, Inc.

A handwritten signature in cursive script, appearing to read "Donna Harclerode".

Ms. Donna Harclerode
Scientist
3020 Callan Road, San Diego, CA, 92121

SAN DIEGO COUNTY DEPARTMENT OF ENVIRONMENTAL HEALTH
HAZARDOUS MATERIALS MANAGEMENT DIVISION
Annual Carcinogen and Reproductive Toxin Reporting List

Business Name: Cytori TherapeuticsBusiness Address: 3020 Callan Road, San Diego, CA 92121Business Owner or Operator: Donna Harclerode

Please complete the following by entering the chemical name in the chemical name column and then place a check / in the quantity column that most closely estimates the amount on hand. If measure by volume, check the appropriate gallon column(s). If measured by weight, check the appropriate pound column(s). If the chemical is a trade secret, you should check the trade secret box. For example, if you have one pint of benzene you would write benzene in the chemical name column and place a check in the <1 gallon column. (PLEASE NOTE: the symbol < means less than).

Chemical Name	<1 gallon	<1 pound	<10 gallons	<10 pounds	<55 gallons	<500 pounds	Trade Secret
2-Acetylaminofluorene			√				
Formaldehyde (gas)	√						
Toluene	√						
Trypan Blue	√						

San Diego County Hazardous Materials Management Division
REGULATED SUBSTANCE DISCLAIMER INFORMATION FORM

This form is to be completed by facilities that no longer handle regulated substances and by facilities that have reduced their usage of a regulated substance below threshold quantity in a process. Facilities that no longer handle regulated substances or have reduced their usage of regulated substances within a process will not be required to prepare a Risk Management Plan.

Date Submitted: 12/11/06 Health Permit H: 205978

Facility Name: Cytori Therapeutics

Facility Site Address: 3020 Callan Road, San Diego, CA 92121

Facility Mailing Address: Same As Above

Facility Phone Number: (858) 458-0900

Facility Contact Person: Donna Harclerode

I. The following regulated substances are no longer handled at the above site:

NA

II. The following regulated substances are handled below their threshold quantities:

Regulated Substance	Process (include storage as process)	Amount Handled in the Process
Allyl Alcohol	Scientific Research & Development	<1 lb
Formaldehyde (solution)	Scientific Research & Development	<1 lb
Hydrogen Chloride (anhydrous)	Scientific Research & Development	<1 lb
Sodium Azide	Scientific Research & Development	<1 lb
Hydrochloric Acid (37% or greater)	Scientific Research & Development	<1 lb



County of San Diego

J. WILLIAM COX, M.D., Ph.D.
DIRECTOR
(619) 236-2237

DEPARTMENT OF HEALTH SERVICES

1700 PACIFIC HIGHWAY, SAN DIEGO, CALIFORNIA 92101-2417

STEVEN A. ESCOBOZA
ASSISTANT DIRECTOR
(619) 236-7633

ENVIRONMENTAL HEALTH SERVICES
HAZARDOUS MATERIALS MANAGEMENT DIVISION
P. O. BOX 85261
SAN DIEGO, CA 92138-5261
(619) 338-2222

Date May 17, 1991

OFFICIAL NOTICE

S-Cubed
3020 Callan Road
San Diego, CA 92121
Attn: Richard Sobilo

RE: UNAUTHORIZED RELEASE #T 2027 /H 23213-001
3020 Callan Road, San Diego 92121

Dear Mr. Sobilo:

Information provided to this Department by Diane Masunaga indicates that the underground hazardous substance storage facility at the location referenced above has experienced an Unauthorized Release (leak). The conditions created by the Unauthorized Release must be reported and corrected in accordance with the California Health and Safety Code (H&SC) Chapters 6.5 and 6.7 and the California Code of Regulations (CCR), Titles 22 and 23. It is the underground storage tank owner's/operator's responsibility to:

1. Take immediate action to prevent further unauthorized release;
2. Determine the extent and impact of the unauthorized release;
3. Submit a written Unauthorized Release Report to this Department within five working days of receipt of this Notice;
4. Complete and submit within five workdays the enclosed State Water Resources Control Board's (SWRCB) "Underground Storage Tank Unauthorized Release (Leak)/Contamination Site Report";
5. Submit supplemental reports as required to update the initial report; and
6. Complete any site mitigation (cleanup) required.
7. Please note Item G (on the reverse side) concerning responsibility for payment for staff time expended on the investigation.

The Unauthorized Release Report must address all six elements listed on the reverse side of this Official Notice, to the extent of the best information known at this time. Additional information and responsibilities are also listed. Subsequent site characterization and mitigation actions will be determined upon evaluation of the written report and consultation with the Regional Water Quality Control Board and other appropriate regulatory agencies.

Please call me at (619) 338-2207 if you have any questions regarding this Official Notice.

Sincerely,

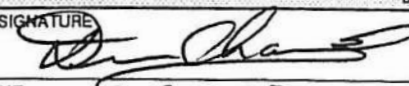
Mary Peters
Hazardous Materials Specialist

Enclosure

cc: RWQCB

LOCAL

UNDERGROUND STORAGE TANK UNAUTHORIZED RELEASE (LEAK) / CONTAMINATION SITE REPORT

EMERGENCY <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO		HAS STATE OFFICE OF EMERGENCY SERVICES REPORT BEEN FILED? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO		FOR LOCAL AGENCY USE ONLY I HEREBY CERTIFY THAT I HAVE DISTRIBUTED THIS INFORMATION ACCORDING TO THE DISTRIBUTION SHOWN ON THE INSTRUCTION SHEET ON THE BACK PAGE OF THIS FORM.	
REPORT DATE 05/22/91		CASE # _____		SIGNED _____ DATE _____	
REPORTED BY	NAME OF INDIVIDUAL FILING REPORT DEAN CHARLES		PHONE (619) 576-7639		SIGNATURE 
	REPRESENTING <input type="checkbox"/> LOCAL AGENCY <input checked="" type="checkbox"/> OWNER/OPERATOR <input type="checkbox"/> REGIONAL BOARD <input type="checkbox"/> OTHER		COMPANY OR AGENCY NAME S-CUBED DIVISION OF MAXWELL LABORATORIES, INC.		
	ADDRESS 8888 BALBOA AVE. SAN DIEGO CA 92123				
RESPONSIBLE PARTY	NAME TCW REALTY FUND II HOLDING COMPANY		CONTACT PERSON UNK.		PHONE (813) 683-4200
	ADDRESS 400 SOUTH HOPE ST. SUITE 400 LOS ANGELES CA 90071-2899				
SITE LOCATION	FACILITY NAME (IF APPLICABLE) S-CUBED TORREY PINES		OPERATOR DR. KERRY DANCE, PRESIDENT		PHONE (619) 453-0060
	ADDRESS 3020 CALLAN RD. SAN DIEGO		SAN DIEGO 92121		
	CROSS STREET NORTH TORREY PINES RD.				
IMPLEMENTING AGENCIES	LOCAL AGENCY HMMH		AGENCY NAME SDCDHS/EHS		CONTACT PERSON _____
	REGIONAL BOARD RWQCB, SAN DIEGO REGION		PHONE ()		
SUBSTANCES INVOLVED	(1) NAME WHITE MINERAL OIL, U.S.P.		CASRN 8042-47-5		QUANTITY LOST (GALLONS) < 100 <input type="checkbox"/> UNKNOWN
	(2) N/A <input type="checkbox"/> UNKNOWN				
DISCOVERY/ABATEMENT	DATE DISCOVERED 05/15/91		HOW DISCOVERED <input type="checkbox"/> TANK TEST <input checked="" type="checkbox"/> INVENTORY CONTROL <input type="checkbox"/> SUBSURFACE MONITORING <input type="checkbox"/> NUISANCE CONDITIONS		
	DATE DISCHARGE BEGAN _____ <input checked="" type="checkbox"/> UNKNOWN		METHOD USED TO STOP DISCHARGE (CHECK ALL THAT APPLY) <input type="checkbox"/> REMOVE CONTENTS <input type="checkbox"/> CLOSE TANK & REMOVE <input type="checkbox"/> REPAIR PIPING		
	HAS DISCHARGE BEEN STOPPED? <input type="checkbox"/> YES <input type="checkbox"/> NO IF YES, DATE _____		<input type="checkbox"/> REPAIR TANK <input type="checkbox"/> CLOSE TANK & FILL IN PLACE <input type="checkbox"/> CHANGE PROCEDURE		
SOURCE/CAUSE	SOURCE OF DISCHARGE <input checked="" type="checkbox"/> TANK LEAK <input type="checkbox"/> UNKNOWN <input type="checkbox"/> PIPING LEAK <input type="checkbox"/> OTHER		CAUSE(S) <input type="checkbox"/> OVERFILL <input type="checkbox"/> RUPTURE/FAILURE <input type="checkbox"/> SPILL <input checked="" type="checkbox"/> UNKNOWN <input type="checkbox"/> CORROSION <input type="checkbox"/> OTHER		
	CASE TYPE <input type="checkbox"/> UNDETERMINED <input type="checkbox"/> SOIL ONLY <input type="checkbox"/> GROUNDWATER <input type="checkbox"/> DRINKING WATER - (CHECK ONLY IF WATER WELLS HAVE ACTUALLY BEEN AFFECTED)				
CURRENT STATUS	CHECK ONE ONLY <input type="checkbox"/> NO ACTION TAKEN <input type="checkbox"/> PRELIMINARY SITE ASSESSMENT WORKPLAN SUBMITTED <input type="checkbox"/> POLLUTION CHARACTERIZATION				
	<input type="checkbox"/> LEAK BEING CONFIRMED <input type="checkbox"/> PRELIMINARY SITE ASSESSMENT UNDERWAY <input type="checkbox"/> POST CLEANUP MONITORING IN PROGRESS				
REMEDIAL ACTION	<input type="checkbox"/> REMEDIATION PLAN <input type="checkbox"/> CASE CLOSED (CLEANUP COMPLETED OR UNNECESSARY) <input type="checkbox"/> CLEANUP UNDERWAY				
	CHECK APPROPRIATE ACTION(S) <input type="checkbox"/> CAP SITE (CD) <input type="checkbox"/> EXCAVATE & DISPOSE (ED) <input type="checkbox"/> REMOVE FREE PRODUCT (FP) <input type="checkbox"/> ENHANCED BIO DEGRADATION (IT)				
COMMENTS	<input type="checkbox"/> CONTAINMENT BARRIER (CB) <input type="checkbox"/> EXCAVATE & TREAT (ET) <input type="checkbox"/> PUMP & TREAT GROUNDWATER (GT) <input type="checkbox"/> REPLACE SUPPLY (RS)				
	<input type="checkbox"/> VACUUM EXTRACT (VE) <input type="checkbox"/> NO ACTION REQUIRED (NA) <input type="checkbox"/> TREATMENT AT HOOKUP (HU) <input type="checkbox"/> VENT SOIL (VS)				
IT IS UNKNOWN AS TO WHETHER THE DISCHARGE HAS STOPPED, THE LEAK LOCATION IS NOT KNOWN, HENCE WE DO NOT KNOW WHETHER THE OIL LEVEL HAS DROPPED SUFFICIENTLY. THE "TANK" IS A TUBE 12" DIA - X 20' DEEP.					



County of San Diego

J. WILLIAM COX, M.D., Ph.D.
DIRECTOR
STEVEN A. ESCOBOZA
ASSISTANT DIRECTOR

DEPARTMENT OF HEALTH SERVICES
ENVIRONMENTAL HEALTH SERVICES

OFFICE OF THE DEPUTY DIRECTOR
P.O. BOX 85261
SAN DIEGO, CA 92186-5261
(619) 338-2211
Fax #: 338-2174

HAZARDOUS MATERIALS MANAGEMENT DIVISION
P. O. BOX 85261
SAN DIEGO, CA 92186-5261
(619) 338-2222

July 2, 1991

OFFICIAL NOTICE

Mr. Dean Charles
Maxwell Laboratories
8888 Balboa Avenue
San Diego, CA 92123

Dear Mr. Charles:

RE: MINERAL OIL CONTAMINATION, S-CUBED TORREY PINES,
3020 CALLAN ROAD, SAN DIEGO, CA 92121, HMMD CASE # H23213-001

Information provided to this Department by S-Cubed indicates that the site referenced above has experienced a release of mineral oil to the soil and/or ground water. The conditions created by the release may pose a threat to public health and the surrounding environment. The following corrective action shall be addressed to the satisfaction of this Department and the Regional Water Quality Control Board (RWQCB):

- 1) Take immediate action to prevent the further release of the contaminant(s) to the environment, and to protect public health and safety.
- 2) Fully determine the horizontal and vertical extent of contamination in the soil and ground water and determine current or potential adverse impacts to public health and to the environment.
- 3) Complete any site mitigation (clean-up) as required by this Department and the RWQCB.

This Department understands that a workplan including all pertinent activities performed to date is forthcoming no later than July 12, 1991. Please address all correspondence to this Department and a copy to the RWQCB.

Additionally, a comprehensive site assessment and remediation report should be submitted upon completion of assessment and mitigation activities. Any additional site characterization and

Mr. Dean Charles

2

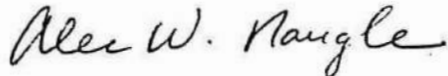
July 2, 1991

mitigation actions will be determined upon evaluation of the written report and consultation with the RWQCB and other appropriate regulatory agencies.

Please be advised that the responsible party is subject to billing for staff time expended on the contaminated site investigation. Currently the rate is \$80.00 per hour.

If you have any questions regarding this Official Notice, please call me at (619) 338-2373.

Sincerely,



ALEC W. NAUGLE, Hazardous Materials Specialist
Hazardous Materials Management Division

AWN:cmc

Enclosure

cc: James Munch, RWQCB
TCW Realty Fund II Holding Company

July 11, 1991

JUL 12 3 41 PM '91

ENVIRONMENTAL
HEALTH SERVICES

Alec Naugle
County of San Diego DHS/EHS
Hazardous Materials Management Division
P.O. Box 85261
San Diego, CA 92138-5261

re: Unauthorized Release from Source Containment Vessel ("Vessel"), HMMD Case # H23213-001

Dear Alec:

As outlined in the meeting held at the S-Cubed Division ("S-Cubed") of Maxwell Laboratories, Inc. ("Maxwell") at 8:00 am on Thursday, June 27, 1991, the purpose of this letter is to describe in detail the events which have occurred to date with respect to the unauthorized release of U.S.P. mineral oil from subject vessel at our facility located at 3020 Callan Road, San Diego, California 92121, to delineate the actions we propose to take in the future regarding repair of subject vessel and assessment/mitigation of subject site, and to provide a schedule of these proposed actions.

Events to Date

The following events have occurred, in chronological order.

- On May 15, 1991, Radiation Safety Officer Rich Sobilo detected abnormally high radiation readings in the cell, atop the vessel. Subsequent measurements of the oil level revealed that an apparent leak of oil had occurred as indicated by a falling oil level.
- On May 16, 1991, Facility Environmental Coordinator Diane Masunaga telephoned Larry Bodenheimer of HMMD staff and made notification that an apparent release of oil from subject vessel had occurred.
- On May 22, 1991, S-Cubed received an official notice from HMMD on form HM-9074 listing Mary Peters as the specialist who was assigned the case.
- On May 22, 1991, I completed a written report of the unauthorized release on form HSC 05, believing at that time, that the vessel might be an underground storage tank ("UST") pursuant to state law.
- On May 24, 1991, Mary Peters and I spoke at length about the circumstances regarding the site. She expressed uncertainty about whether the vessel was regulated under state UST laws or whether state radiation standards took precedence.
- On June 05, 1991, a meeting was held at S-Cubed. Potential methods of storage were discussed. The oil level was determined to have stabilized at 71 inches above the bottom of the vessel.
- On June 24, 1991, Ken Calvert of HMMD called to discuss the issue. He informed me that the vessel was pre-empted from regulation as a UST by State Radiologic Health Standards. The release of oil was however, considered to be an unauthorized release subject to assessment/mitigation under the direction of the California Regional Water Quality Control Board - San Diego Region

("RWQCB"). HMMD would service the case on behalf of RWQCB. A meeting would be scheduled between the respective parties.

- On June 27, 1991, Jim Munch representing RWQCB, Alec Naugle representing HMMD, and Dean Charles, Kerry Dance, Bob LaFrenz, Larry Longden, Diane Masunaga and Rich Sobilo representing Maxwell/S-Cubed met at the subject site to discuss the various issues. The subject site was viewed. Our proposed actions will be discussed in succeeding paragraphs.
- On July 02, 1991, the ^{252}Cf source material was transferred to interim storage in an adjacent dry, underground storage vessel. This vessel employs borated polyethylene and lead shielding, above ground.
- On July 09, 1991, a tube that extended to within 1 inch of the bottom was inserted into the vessel. A vacuum was applied to the container into which the oil would flow, and 1 gallon of oil was withdrawn. No trace of water was present in this sample.

Current Site Summary

At the present time, the oil level has stabilized 71 inches above the bottom of the vessel. This level coincides with the normal storage location of the ^{252}Cf . Our opinion is that the radiation and heat produced by the ^{252}Cf accelerated corrosion at this location, eventually causing the vessel, which is constructed of mild steel, to leak and ensuigly release oil. Calculations indicate that 72 gallons of oil has been released into the fill material surrounding the vessel. As indicated above, the ^{252}Cf has been transferred to an interim storage location. The ^{60}Co continues to be stored at the bottom of the vessel. One gallon of the oil remaining in the vessel has been bailed from within 1 inch of the bottom and found to be free of any traces of water.

Proposed Actions and Schedule - Assessment, Mitigation, Repairs

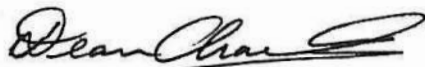
- A lead cask to provide interim storage for the ^{60}Co was ordered on July 01, 1991. The ^{60}Co will be moved to interim storage on or before July 30, 1991, pending on-time delivery of said cask.
- ✓ • The remaining oil will be pumped out of the vessel, further inspected for water, and stored in a drum on or before August 02, 1991.
- ✓ • The concrete shielding plug located in the access tube atop the test cell and preventing vertical access to the internal support cage/source carrier ("internals") will be removed on or before August 06, 1991.
- ✓ • The internals will be removed on or before August 07, 1991. They will be stored in a secured location on the roof of the building and shielded such that occupants of said building will not be exposed to unacceptable levels of radiation.
- ✓ • The existing steel vessel casing will be examined with a television camera on or before August 09, 1991 in an attempt to assess the extent of the damage and to understand the cause of failure.
- ✓ • A hole will be drilled in the bottom of the vessel on or before August 12, 1991. This hole (ostensibly) will permit several activities to take place, depending on their respective applicability:
 - 1) Any liquid which might flow into the bottom of the vessel, acting as a sump, will be inspected for the presence of water. The presence of water, indicative of a possible hydraulic connection

to a perched saturated zone or aquifer, would be considered a negative influence and will require re-assessment of subsequent proposed actions.

- 2) Any oil, as indicated above, flowing into the vessel acting as a sump, will be collected and recovered as a mitigation measure.
 - 3) If oil does not readily flow into the vessel, or if the amount recovered is significantly less than the amount released as determined, a vacuum will be applied to the vessel in an attempt to draw the oil into the vessel for recovery.
- Assuming that the above mitigation measures are sufficiently effective, a sleeve will be installed in the vessel on or before September 13, 1991 to re-commission the facility.
 - The internals will be re-configured and re-loaded on or before September 16, 1991. Continuing use of the facility will employ a dry shielding method consisting of lead shot and borated polyethylene beads. The lower portion of the source vessel will be air-filled space. A tube will extend to the bottom of the sleeve to confirm during routine maintenance that the integrity of the sleeve is intact.

Such is the extent of the events and proposed actions as we envision them at this time. Copies of the as-built blueprints have been ordered from the architects and are due to be delivered in the next few days. They will be dispatched to you immediately when available. Should anything change significantly, we will notify you of the particulars. If you have any questions or I can provide any clarification or further information, do not hesitate to call me at 576-7639.

Very Truly Yours,
MAXWELL LABORATORIES, INC.



Dean Charles
Environmental Specialist

Enclosure (1): MSDS for subject oil.

cc: James Munch
California Regional Water Quality Control Board
San Diego Region
9771 Clairemont Mesa Boulevard, Suite B
San Diego, CA 92124-1331

Witco**MATERIAL SAFETY DATA SHEET**PRODUCT Kaydol White Mineral OilHAZARD RATING
4 - EXTREME
3 - HIGH
2 - MODERATE
1 - SLIGHT
0 - INSIGNIFICANT

Toxicity

SECTION I

WITCO MANUFACTURING DIVISION OR SUBSIDIARY

1 Sonneborn Division

ADDRESS (NUMBER, STREET, CITY, STATE, ZIP CODE)

2 P.O. Box 336, Petrolia, PA, 16050P.O. Box 308Gretna, LA, 70054

CHEMICAL NAME OR FAMILY

3 White Mineral Oil, USP

FORMULA

A mix of liquid hydro-
carbons refined from petroleum.EMERGENCY TELEPHONE (504)
MANUFACTURER 366-7281
1 412 756-2210
CHEM TRAC 1-800-424-9300**SECTION II - CHEMICAL AND PHYSICAL PROPERTIES****CHEMICAL****PHYSICAL**

HAZARDOUS DECOMPOSITION PRODUCTS

4 Upon combustion, CO₂ and CO are generated.

COMPATIBILITY (KEEP AWAY FROM)

5 Keep away from flame, heat (150°F max.), and strong oxidizing agents.

LIST ALL TOXIC AND HAZARDOUS INGREDIENTS

None

SECTION III - FIRE AND EXPLOSION DATA

SPECIAL FIRE FIGHTING PROCEDURES

Self-contained breathing apparatus is recommended for firefighters. Water-spray must be used with caution to prevent spread of flames.

USUAL FIRE AND EXPLOSION HAZARDS

None

FLASH POINT (METHOD USED)

ASTM D-92
26 >176 °C >350 °F

FLAMMABLE LIMITS %

NDA

27 LOWER UPPER

EXTINGUISHING AGENTS

☒ DRYCHEMICAL ☒ CO₂
☒ WATERSPRAY ☒ FOAM
☒ WATERFOG ☒ SAND/EARTH
 28 ☐ OTHER

FORM

8 Viscous liquid

ODOR

9 None

APPEARANCE

10 Colorless liquid

COLOR

11 None

SPECIFIC GRAVITY

12 (WATER = 1) <1.0 @ 15°C

BOILING PT.

IBP >230 °C
>450 °F

13 MELTING PT.

NA °C

14 NA °F

SOLUBILITY
IN WATERAT 25 °C Negligible15 % VOLATILE
(BY WT %)16 N17 @ 25°C

EVAP. RATE

17 N17 @ 25°C

VAPOR PRESSURE

18 (mm Hg at 20 °C) <.5mmVAPOR DENSITY
(AIR = 1)19 NA

pH AS IS

20 NA

pH 1

21 NASTRONG ACID ☐STRONG BASE ☐STABLE ☒UNSTABLE ☐22 NA

VISCOSITY

23 <100

9111 100 OR >

AT 100 °F

24 CAS #8042-47-525 NA26 NA27 NA28 NA29 NA30 NA31 NA32 NA33 NA34 NA35 NA36 NA37 NA38 NA39 NA**SECTION IV - HEALTH HAZARD DATA**

PERMISSIBLE CONCENTRATIONS (AIR)

29 See Section IX - COMMENTS.

EFFECTS OF OVEREXPOSURE

NDA

TOXICOLOGICAL PROPERTIES

NDA

EMERGENCY FIRST AID PROCEDURES

EYES - Flush with water. If irritation exists consult a physician.

33 SKIN CONTACT - NA

34 INHALATION - NA

IF SWALLOWED - Call a physician.

NA = NOT APPLICABLE

NDA = NO DATA AVAILABLE

< = LESS THAN

> = MORE THAN

Witco MATERIAL SAFETY DATA SHEET

PRODUCT Kaydol

SECTION V - SPECIAL PROTECTION INFORMATION

VENTILATION TYPE REQUIRED (LOCAL, MECHANICAL, SPECIAL)

PROTECTIVE GLOVES

30 None

EYE PROTECTION

39 Chemical splash goggles

39 OTHER PROTECTIVE EQUIPMENT

40 None

SECTION VI - HANDLING OF SPILLS OR LEAKS

PROCEDURES FOR CLEAN-UP

Shut off leak, dike up spills, absorb with inert material such as sand, earth or vermiculite. Sweep up and dispose of in accordance with Federal, State and local regulations.

41 WASTE DISPOSAL

Use methods consistent with Federal, State and local regulations.

SECTION VII - SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE

Avoid heat (150°F max.), flame and oxidizing agents.

SECTION VIII - TRANSPORTATION DATA

44 UNREGULATED BY D.O.T. <input checked="" type="checkbox"/>	U.S. D.O.T. PROPER SHIPPING NAME	
47 NA		
45 REGULATED BY D.O.T. <input type="checkbox"/>	U.S. D.O.T. HAZARD CLASS	I.D. NUMBER
48 NA	49 NA	
46 TRANSPORTATION EMERGENCY INFORMATION	50 NA	51 NA
	FREIGHT CLASSIFICATION	
CHEM TREC	52 Petroleum Oil NO1BN	
1-(800) 424-8300	SPECIAL TRANSPORTATION NOTES	
53 NA		

SECTION IX - COMMENTS

This product is a fully refined white mineral oil meeting the requirements of the United States Pharmacopeia XXII as well as the requirements of the Food and Drug Administration as per CFR 172.878. If used in applications where a mist may be generated, observe a TWA/PEL of 5 mg/m³ of mineral oil mist (OSHA and ACGIH).

SIGNATURE Alexander Coutras

TITLE Manager, Regulatory Affairs

Tel: (212) 605-3911

REVISION DATE Jan. 4, 1990

SENT TO ATTN: _____

DATE _____

SUPERSEDES April 21, 1989

We believe the statements, technical information and recommendations contained herein are reliable, but they are given without warranty or guarantee of any kind, express or implied, and we assume no responsibility for any loss, damage, or expense, direct or consequential, arising out of their use.



April 08, 1993

RECEIVED

8888 Balboa Avenue, San Diego, CA 92123-1506

APR 12 1 45 PM '93

Mr. Steve Durham
County of San Diego DHS/EHS
Hazardous Materials Management Division
P.O. Box 85261
San Diego, CA 92138-5261

ENVIRONMENTAL
HEALTH SERVICES

re: Unauthorized Release from Source Containment Vessel at Maxwell Laboratories, Inc. ("Maxwell"),
S-Cubed Div./Torrey Pines, 3020 Callan Road, San Diego, CA 92121, HMMD Case # H23213-001

Dear Mr. Durham:

Enclosed herewith is an original signed copy of the Fate and Transport Evaluation prepared by Camp Dresser & McKee relating to subject release. This evaluation has been prepared pursuant to my conversation with Alec Naugle in February, 1992 requiring Maxwell to evaluate the threat of subject release to the waters of the state of California. My understanding is that you have been handling the case since Alec's departure.

As supported in the enclosed Fate and Transport Evaluation, Maxwell believes that subject release has been stabilized in the surrounding soil and will have no impact on groundwater, which occurs more than 137 feet below the maximum penetration of the U.S.P. mineral oil so released. Considering the foregoing, subject release may be concluded to threaten neither the public health nor the waters of the State. Your determination of no further action required and closure on the case is hereby requested. A letter confirming closure is respectfully solicited.

If you have any questions or I can provide further information, do not hesitate to call me at 576-7639.

Very Truly Yours,
MAXWELL LABORATORIES, INC.

Dean Charles
Environmental Specialist

Enclosure (1 copy): Fate and Transport Evaluation

cc: Corey Walsh
California Regional Water Quality Control Board
San Diego Region
9771 Clairemont Mesa Boulevard, Suite B
San Diego, CA 92124-1331

***FATE AND TRANSPORT EVALUATION
OF MINERAL OIL RELEASE***

***3020 Callan Road
San Diego, CA***

Prepared for

MAXWELL LABORATORIES, S-CUBED DIV.
8888 Balboa Ave.
San Diego, CA 92123

Prepared by

CAMP DRESSER & McKEE INC.
1925 Palomar Oaks Way, Suite 300
Carlsbad, CA 92008

March 11, 1993

CONTACT: LORI DANIEL

1.0 BACKGROUND

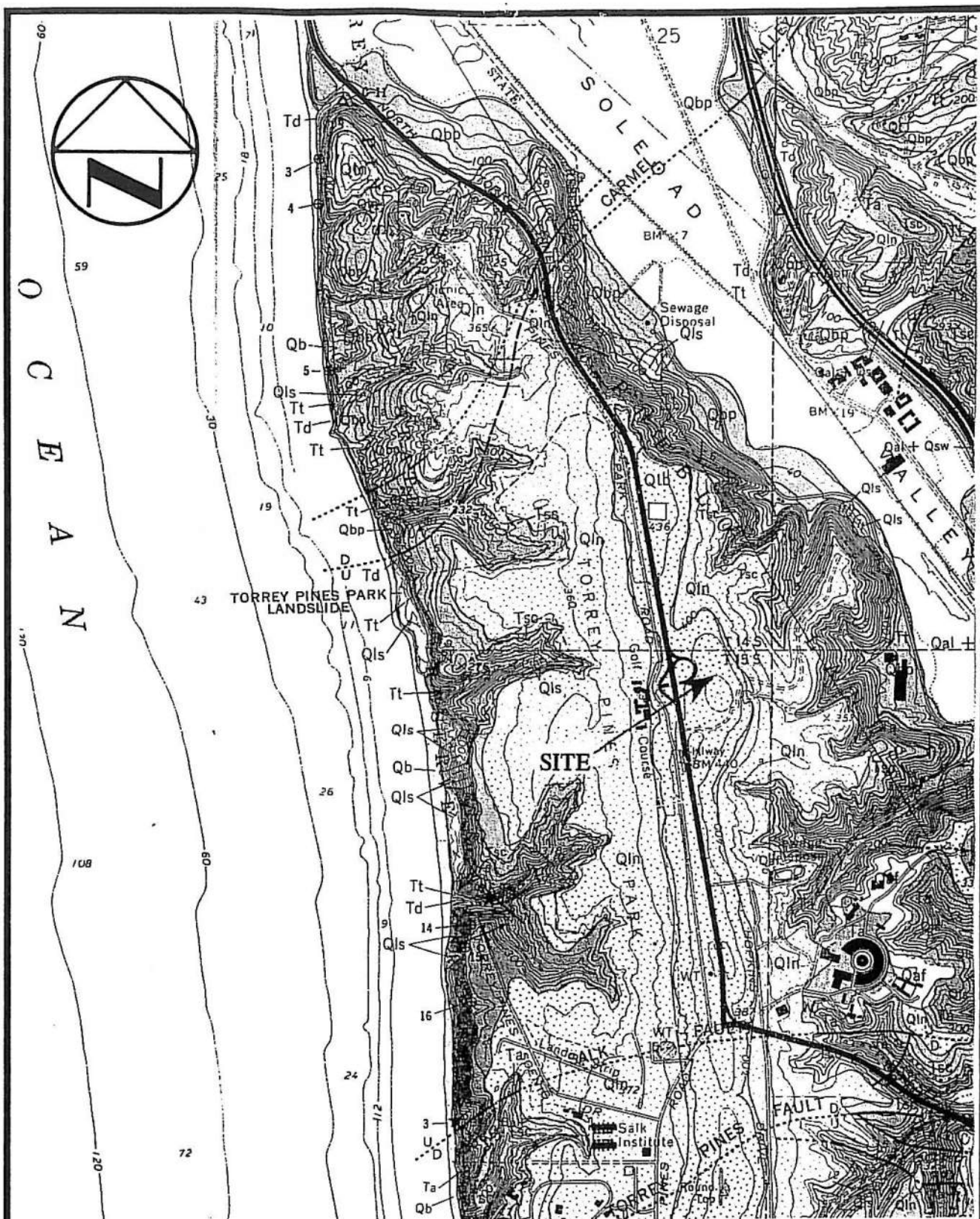
Maxwell Laboratories', S-Cubed Division (S-Cubed's) Torrey Pines facility is located at 3020 Callan Road in San Diego, California (see Figure 1, Location Map). On the first floor of the north wing is a room dedicated to the storage of radiation source tubes used in the course of S-Cubed's business of custom testing equipment. Ten small-diameter, 20-foot long radiation source tubes were stored underground in a 12-inch-diameter steel pipe source-containment vessel a little more than 20 feet in length. The upper end of the pipe extends a few inches above the concrete floor (a 4-inch-thick reinforced concrete slab with 6 x 6 - #10/10 steel reinforcement). Four of the source tubes contained neutron sources (Californium), two contained Cobalt 60 and the remaining four were empty. The source tubes were surrounded by mineral oil in the vessel for radiation shielding. The normal mineral oil level in the vessel was maintained at 2 inches or so below the top of the vessel. Monthly visual inspections were made of the vessel and radiation readings were frequently taken in the room to assure that no fugitive emissions were occurring.

On May 15, 1991, abnormally high radiation readings were observed at the top of the vessel, and upon examination, it was found that the mineral oil bath was not visible at the top of the casing. S-Cubed estimates that the release of the mineral oil occurred within one to two days of the observation. Ten (10) to twenty (20) inches of mineral oil were added to the vessel, and the level immediately began to fall. Subsequent measurements showed that the oil level in the vessel remained constant at about 6 feet above the bottom of the vessel. Because the location of the radiation sources within the source tubes was about 6 feet from the bottom of the radiation source tubes, S-Cubed felt that the emissions may have accelerated corrosion of the vessel wall where the leakage occurred.

On May 16, 1991, the unauthorized release of the mineral oil (a regulated substance) was erroneously reported to the San Diego County Department of Health Services, Hazardous Materials Management Division (HMMD) as an unauthorized underground tank release leak. HMMD reportedly notified the California Regional Water Quality Control Board, San Diego Region (RWQCB) of the release. The vessel is regulated under the radiologic health standards of the State Department of Health Services, Radiologic Health Branch. On May 22, 1991, S-Cubed sent a written report of the release to HMMD.

S-Cubed removed the radiation source tubes and the supporting racks and fixtures and placed them in another suitable facility at the site. At the suggestion of RWQCB, S-Cubed removed all of the oil from the vessel and bored a small hole through the bottom to determine if any free mineral oil existed outside the vessel at that point. No oil or other free liquids were found. As a result of the storage of the source rods, the surrounding soils around the vessel were activated by exposure to a neutron flux. S-Cubed has determined that Scandium⁴⁶ is the longest lived transmutation product whose half-life is 83 days. A radioisotope decays to essentially background in nine half-lives. Thus, no intrusive sampling or remedial work was undertaken

yes



Source: Geology of the Del Mar Quadrangle, San Diego, CA, CDMG, 1975, Scale 1:24000

CDM

environmental engineers, scientists,
planners, & management consultants

SITE LOCATION MAP
MAXWELL LABORATORIES, S-CUBED DIVISON
CALLAN ROAD FACILITY
San Diego, CA

1

Figure No.

because perennial groundwater was believed to exist over 80 feet from the ground surface in this vicinity. S-Cubed backfilled the emptied vessel with clean sand.

2.0 SCOPE OF WORK

According to a meeting record between Alec Naugle of HMMD and Jim Munch of the RWQCB on September 26, 1991, "the contaminant is USP grade mineral oil which should not contain impurities above trace since it is designed to be used by people on skin and can be ingested for treating gastrointestinal distress." In addition, they agreed that they were "Fairly certain of the quantity lost to the soil (~60 gallons)."

Camp Dresser & McKee Inc. (CDM) was engaged to prepare a non-rigorous analysis of the fate and transport of the mineral oil in the subsurface soils. According to a conversation with Alec Naugle, Jim Munch and he required the following issues to be addressed:

1. State the soil type and porosity, and estimate the depth to groundwater at this site.
2. Demonstrate that no free product exists at the water table.
3. Provide some form of calculation to indicate the extent of the impact of mineral oil, the maximum volume of impacted soil, and support the conclusion that free product on the groundwater is unlikely.
4. Determine the size of the hole through which the leak occurred and the amount of time required for the release to occur.

He further stated that no drilling or intrusive sampling was indicated.

3.0 QUANTITY OF RELEASE

According to S-Cubed, on May 15, 1991, 10 to 20 inches of mineral oil were added to the storage vessel and immediately began to fall. Subsequent testing showed that at 6 feet above the bottom of the vessel, the oil level remained static. From this information, the following estimate has been developed:

1. For a 12-inch diameter pipe, the gross volume contained per foot of length is 0.785 cubic foot, or 5.87 gallons.
2. The gross volume in a pipe length of 14 feet (20 feet minus 6 feet) is 82.2 gallons.

3. The additional gross volume in a 10-inch depth is 4.89 gallons. The additional gross volume in a 20-inch depth is 9.79 gallons.
4. The maximum gross volume of oil lost then not counting the space occupied by the source rods, is approximately 87 to 92 gallons.
5. The source rods are about 0.5 inch in diameter, and there are 10. The volume of the rods is 0.0273 cubic foot each, or 0.27 cubic foot or 2.04 gallons total in all. The supporting racks and fixtures are assumed to occupy a similar space.
6. The net estimate of volume released is then, from 83 to 88 gallons. This is a maximum range. A lower quantity would actually be released due to the adsorption of oil on the surface area of the rods, the fixtures, and the interior of the vessel.

4.0 SITE GEOLOGY

A review of published information on the geology beneath the site was performed to determine physical properties of the soil for estimating the extent of the mineral oil release at the site. The following geologic descriptions of the formations underlying the site within 300 feet of the surface are summarized from Kennedy (1975).

The Lindavista Formation is exposed in the cliffs adjacent to the site and occurs from approximately the surface to 140 feet beneath the site (between 300 and 440 feet in elevation). It is composed of nearshore marine and nonmarine interbedded medium-grained sandstone and conglomerate. The characteristic color of this formation is moderate reddish-brown, attributable to its hematite cement which makes it relatively resistant. According to Todd (1980), porosity of a medium-grained sandstone is about 37%; hydraulic conductivity is about 10.3 feet/day.

Understanding that the hematite cement has reduced the porosity and hydraulic conductivity, a porosity of about 25% is assumed, with a hydraulic conductivity of about 2.8 feet/day.

The Lindavista Formation is underlain by the Scripps Formation which consists of pale yellowish brown medium-grained sandstone with occasional cobble conglomerate interbeds. This formation is approximately 40 feet in thickness (between 260 and 300 feet in elevation) and occurs from about 140 to 180 feet in depth beneath the site. Porosity and hydraulic conductivity of the Scripps Formation are likely similar to those of the Lindavista Formation.

Stratigraphically below the Scripps Formation is the Ardath Shale. The Ardath Shale is weakly fissile olive-gray shale with 25% or less expansive claystone. This formation is between 180 and 340 feet beneath the site (260 to 100 feet in elevation) and is relatively impermeable. According to Todd (1980), the porosity of shale is 6%. The hydraulic conductivity should be similar to clay unless it has interconnecting fractures. The hydraulic conductivity of clay, according to Todd, is 6.7×10^{-5} feet/day.

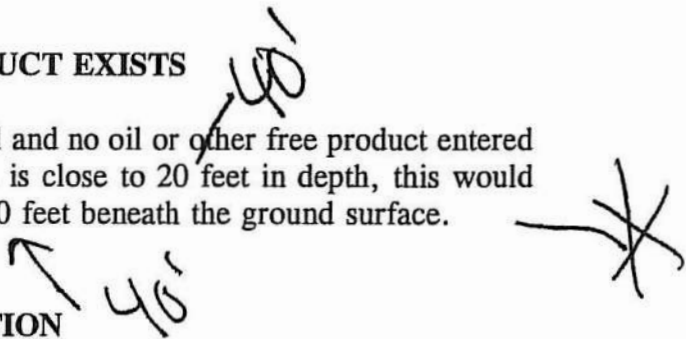
5.0 DEPTH TO GROUNDWATER

The site is at approximately 440 feet MSL in elevation and only 4000 feet east of the ocean. Assuming a maximum groundwater gradient of 25 feet/mile, groundwater should occur at a depth of more than 390 feet beneath the surface (50 feet MSL). However, there are no nearby groundwater wells that help define the depth to groundwater beneath the site. According to the subsurface geology described above, it is likely that water that groundwater percolates from the surface and migrates to the Ardath Shale and is perched there. Springs near the contact of the Ardath Shale and Scripps Formation are likely prevalent in the sea cliffs exposed along the beach to the west of the site.

Woodward-Clyde Consultants (January 1992) estimated the groundwater elevation to be about 270 MSL (170 feet beneath the surface of S-Cubed's site) at the adjacent Calbiochem site on Callan Road. This would place groundwater 10 feet above the Ardath and Scripps contact, and seems to fit subsurface geologic conditions. Groundwater must be deeper than 80 feet as it has not been encountered in any borings drilled at the Calbiochem site which were drilled to a maximum depth of 80 feet. However, perched water was encountered at 11 feet in depth in one of the more than eleven borings drilled deeper than 11 feet at the Calbiochem site. That boring was converted to a monitoring well in October 1987 and destroyed in November 1988.

6.0 DEMONSTRATION THAT NO FREE PRODUCT EXISTS

S-Cubed drilled a hole through the bottom of the vessel and no oil or other free product entered the emptied vessel. Because the bottom of the vessel is close to 20 feet in depth, this would indicate the mineral oil did not migrate greater than 20 feet beneath the ground surface.



7.0 EXTENT OF MINERAL-OIL CONTAMINATION

The following estimate is based on conservative assumptions and thus, yields *maximum* values for the extent of contamination.

7.1 Size of Opening in the Vessel

When steel pipe corrodes, pitting of the metal occurs and ultimately, failure occurs. Because it has been estimated that discharge occurred in a day or two in the S-Cubed vessel, a discharge period of 24 hours was used to estimate the maximum size of the opening in the vessel from which the leak occurred at a depth of 14 feet below the surface.

For discharge under a falling head, the time of discharge for a cylinder with a vertical axis and a constant cross-sectional area is given by the following relationship¹,

$$t = \frac{2A (\Delta h)^{0.5}}{C_a (2g)^{0.5}}, \text{ where}$$

t = time of mineral oil discharge, 86,400 seconds (24 hours)

Δh = change in head, 14 feet

A = cylinder cross-sectional area, 0.785 square foot

a = area of discharge orifice, square feet

C = orifice coefficient of discharge, 0.6

g = gravitational constant, 32.2 feet/second/second

The orifice coefficient is not significantly impacted by a submerged discharge.

The area of the discharge orifice, a, can then be calculated from the following relationship:

$$a = \frac{2A (\Delta h)^{0.5}}{Ct (2g)^{0.5}} = 1.4 \times 10^{-5} \text{ square feet}$$

Solving for the diameter of the opening (orifice), d,

$$d = \frac{(\frac{4a}{\pi})^{0.5}}{(\pi)^{0.5}} = 0.00422 \text{ foot or } 0.051 \text{ inch}$$

The maximum volume of 88 gallons is about 12 cubic feet. To check the calculated maximum diameter of the hole through which the release occurred, and to determine the maximum volume of mineral oil that could have been released, the following flow equation for an orifice was used:

$$Q = C_a (2gh)^{0.5}, \text{ where}$$

Q = mineral oil discharged, cubic feet/second

C = orifice coefficient, 0.6

h = average discharge head = $\frac{14 \text{ ft}}{2} = 7 \text{ feet}$

$Q = 0.6 (1.4 \times 10^{-5}) (32.2 \times 2 \times 7)^{0.5}$

Q = 0.0001783 cubic feet/second

Q = 15.0 cubic feet (112 gallons)/24 hours

1. Handbook of Hydraulics, Sixth Edition, Ernest F. Brater and Horace Williams King, 1982, McGraw-Hill Book Company, p 4-5, 4-6.

7.2 Volume of Contaminated Soil

Using 15 cubic feet as the volume of mineral oil discharged, the volume of impacted soil can be estimated.

From Section 4.0, the value selected for the porosity of the soil surrounding the vessel is 0.25. Field capacity is described as that liquid content in a porous medium which can be retained against the force of gravity. For this formation, the field capacity is estimated to be on the order of 25% of the porosity².

The volume of soil required to contain the 15 cubic feet of mineral oil, is

$$\frac{15 \text{ cubic feet}}{(0.25)(0.25)} = 240 \text{ cubic feet (approx.)}$$

The forces which act on the released mineral oil are the varying pressure head in the vessel, gravity and capillarity. From the description of the formation in Section 4.0, the hydraulic conductivity of the formation with respect to water is estimated to be on the order of 1×10^{-3} cm/sec or 2.8 feet/24-hour day.

The point of release has been estimated to be at a 14-foot pressure head and diminishes via discharge to essentially zero, with a midpoint value of 7 feet.

From the value selected for the hydraulic conductivity, it is estimated that the minimum spread of the mineral oil at the release point is a 2-foot radius circle around the vessel.

The cross-sectional area of a 4-foot diameter circle is 12.56 square feet. The depth required to meet the calculated volume of 240 cubic feet of soil to contain the oil at field capacity is $240/12.56 = 19$ feet.

In order to confirm this calculation, another reference³ offers, "Residual saturation capacity of soil is generally about one-third that of its water holding capacity." Immobilization of a certain mass of hydrocarbon is dependent on soil porosity and physical characteristics of the product. According to American Petroleum Institute (1972), the volume of soil required to immobilize a volume of liquid hydrocarbon can be estimated as follows:

2. Applied Hydrogeology, Second Edition, C. W Fetter, 1988, Macmillan Publishing Company, p. 80, 89-96.

3. Restoration of Petroleum - Contaminated Aquifers, Stephen M. Testa and Duane L. Winegardner, 1921, Lewis Publishers, Inc., p. 51-54.

$$V_s = \frac{0.2 V_{hc}}{P(RS)}, \text{ where}$$

V_s = volume of soil, cubic yards

V_{hc} = volume of discharged hydrocarbon,
barrels 15 cubic feet = 2.66 barrels

P = soil porosity, 0.25

RS = residual saturation, 0.33

From this,

$$V_s = \frac{0.2 (2.66)}{(0.25)(0.33)} = 6.46 \text{ cubic yards} = 175 \text{ cubic feet}$$

From this calculation, it appears that the previously calculated volume of soil, 240 cubic feet, is conservative. Using 175 cubic feet as the required volume of soil to contain 15 cubic feet of the mineral oil, the depth of penetration is $175/12.56 = 13.9$ feet.

Therefore, ignoring the surface tension, viscosity and hydraulic conductivity of mineral oil with respect to water, the estimated maximum depth of penetration of the mineral oil is 19 feet below the release point or 33 feet below ground surface.

As described in Section 6.0, S-Cubed drilled a hole through the bottom of the vessel and found no free liquids. This would seem to confirm that the calculations are of an appropriate order of magnitude.

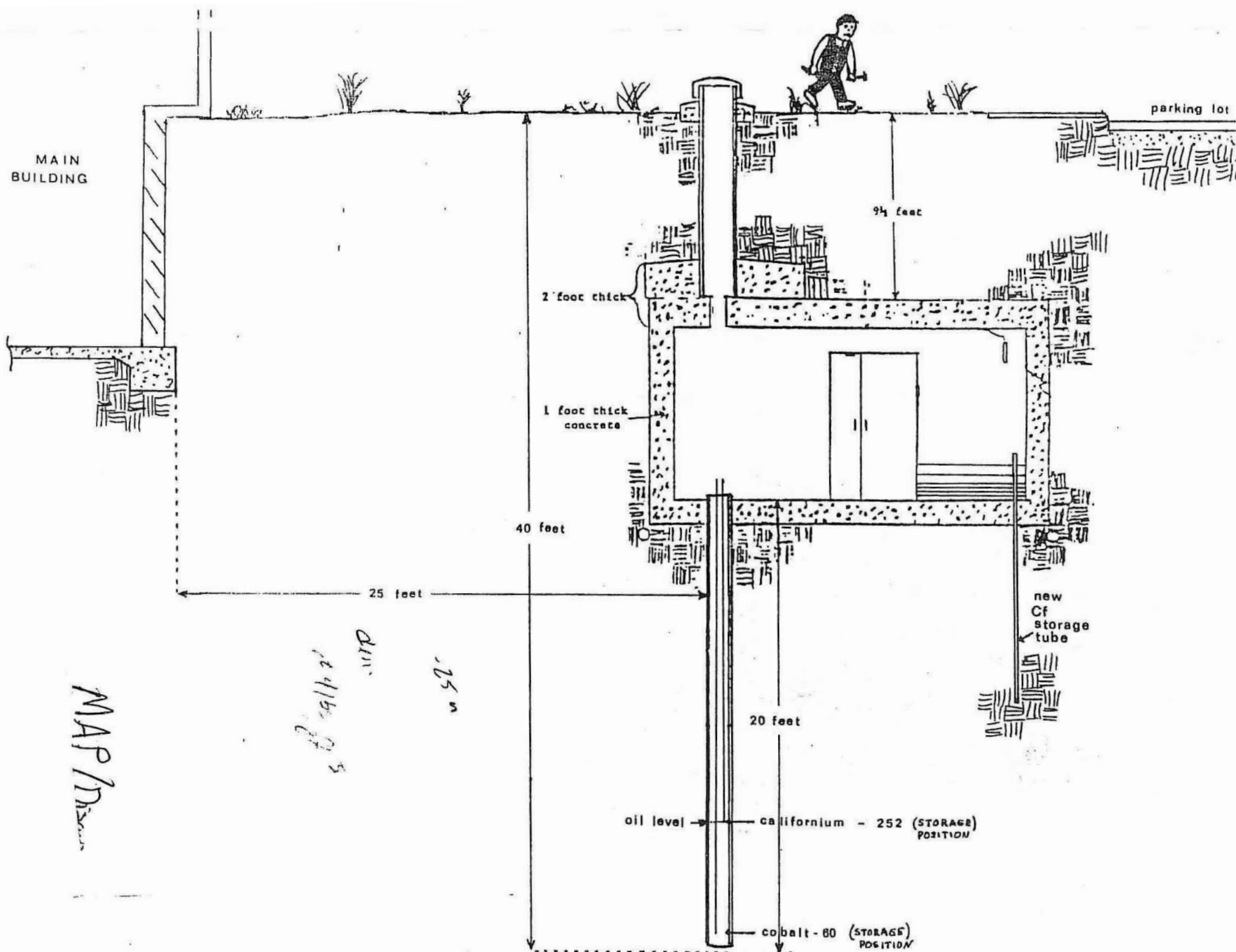
8.0 IMPACT OF MINERAL OIL ON GROUNDWATER

From Section 5.0, the elevation of the groundwater is between 50 and 270 feet above sea level, 170 to 390 feet below the ground surface. The released oil is located beneath the concrete slab of a commercial building, so the likelihood of significant infiltration from precipitation or irrigation is very low. Given the calculated maximum depth of penetration of the mineral oil at 33 feet below ground surface, there should be no impact on groundwater which likely occurs more than 137 feet below the contaminated soil.

9.0 REFERENCES

Kennedy, Michael P., 1975, Geology of the Del Mar Quadrangle, San Diego, California, in California Division of Mines and Geology, 1975, Geology of the San Diego Metropolitan Area, California: in California Division of Mines and Geology Bulletin 200, Sacramento, California.

Woodward-Clyde Consultants, August 10, 1989, Site Plan, Calbiochem Facility: San Diego, California.



OFFICE OF THE DEPUTY DIRECTOR
P. O. BOX 85261
SAN DIEGO, CA 92186-5261
(619) 338-2222
Fax #: 338-2174

SITE ASSESSMENT AND MITIGATION DIVISION
P. O. BOX 85261
SAN DIEGO, CA 92138-5261
(619) 338-2222

November 1, 1993

Dean Charles
Maxwell Labs
8888 Balboa Ave
San Diego, CA 92123-1506

Dear Mr. Charles:

RE: **UNAUTHORIZED RELEASE H23213 (T75)**
RELEASE OF OIL AT 3020 CALLAN RD, SAN DIEGO

The site remediation information submitted to this agency by (CDM) summarizing the site characterization and mitigation activities at the above referenced location has been reviewed. With the provision that the information provided to this agency was accurate and representative of existing conditions, it is the position of this office that **no further action is required at this time.**

This information has also been discussed with staff of the Regional Water Quality Control Board (RWQCB). Based on the information submitted and current requirements, the RWQCB concurs with the determination of this agency that no further action is required at this time.

Please be advised that this letter does not relieve you of any liability under the California Health and Safety Code or Water Code for past, present, or future operations at the site. Nor does it relieve you of the responsibility to clean up existing, additional or previously unidentified conditions at the site which cause or threaten to cause pollution or nuisance or otherwise pose a threat to water quality or public health.

Additionally, be advised that changes in the present or proposed use of the site may require further site characterization and mitigation activity. It is the property owner's responsibility to notify this agency of any changes in report content, future contamination findings, or site usage.

Thank you for your efforts in resolving this matter. Please contact Steven Durham, of the Site Assessment and Mitigation Division, at (619) 338-2373, if you require additional assistance.

Sincerely,

CHUCK PRYATEL, Division Manager
Site Assessment and Mitigation Division

CP:

SITE ASSESSMENT CASE CLOSURE SUMMARY

EHS FILE NUMBER: H23213-001/T75

CASE NAME: S-CUBED

SITE/FACILITY ADDRESS: 3020 CALLAN RD, SAN DIEGO, CA

RESPONSIBLE PARTY: MAXWELL LABORATORIES
8888 BALBOA AVE, SAN DIEGO, CA 92123

CONTACT PERSON: DEAN CHARLES PHONE: (619) 279-5100
MAXWELL LABORATORIES

DATE: November 1, 1993

EHS STAFF: Steven Durham

EVALUATION OF SITE ASSESSMENT

TYPE/CAUSE OF RELEASE: On May 15, 1991, an unauthorized release of mineral oil was reported to the HMMD. The unauthorized release was from a (one of several) vertically oriented tank (12" x 20'), which was dedicated to storing radiation source tubes. The radioactive sources were identified as Californium 252 and Cobalt 60. The source tubes were surrounded by mineral oil in the tanks for radiation shielding.

QUANTITY OF RELEASE: 80 gallons
VOLUME OF SOIL CONTAMINATED: 9 cubic yards (estimated by saturation)
CONSULTANT REPORTS ON FILE: Camp Dresser McKee
Fate & Transport Evaluation of Mineral Oil Release (3/93)
FULL DELINEATION ACHIEVED? Yes
OFF SITE IMPACTS? No
BENEFICIAL USE GROUND WATER? ~~Yes~~ No *John*
GROUND WATER IMPACTED? No
KNOWN PUBLIC HEALTH THREATS? No
CONCURRENCE WITH RWQCB STAFF: N/A (Soils Only Case)
CONCURRENCE WITH EHS SUPERVISOR: John Menatti *John* **DATE:**
CONCURRENCE WITH EHS HYDROGEOLOGIST: Kevin Heaton *KimH* **DATE:** 11/3/93

REMEDIATION AND DISPOSAL

TYPE OF REMEDIATION USED AT SITE: None

VOLUME/CONCENTRATION OF CONTAMINATED SOIL REMAINING ONSITE:

CDM estimates (w/ SAM concurrence) that 9 cubic yards of soil remain in-situ. Mineral Oil is 100%, USP Grade (approved for human application and consumption).

ADDITIONAL COMMENTS

The RWQCB and SAM concurred that a release of Mineral Oil would not pose a health risk to life or the environment in this location. However, it was agreed that Mineral Oil may pose a threat to life if it was activated by the radiation source (Californium 252), a neutron-emitter (has enough energy to make nearby substances radioactive, hence the term "activated").

Analysis of oil remaining in the tank, by the Radiation Physicist from Maxwell Labs, indicated the oil was **not activated**.

A review of the Fate & Transport study indicated that the oil (even though USP Grade) had little potential to migrate to the water table in consideration of geologic conditions. Further, even if the oil were activated, the radiogenic daughters would have reached stability within two years (May 1993). The consultant concluded that there was no risk to life and health from this release.



THE CITY OF SAN DIEGO

August 23, 2007

GeoCon Consulting, Inc.
6970 Flanders Drive
San Diego, CA 92121

Dear Erin Murray:

I am responding to your request for records on hazardous materials for site assessment on addresses listed below:

3020 & 3030 Callan Road

Records were found for hazardous materials (i.e. aboveground or underground tank permits). For information regarding current chemical inventories, please contact:

County of San Diego
Department of Environmental Health
1255 Imperial Ave, San Diego, CA 92101

If you have any questions, please contact me at (619) 533-4477.

Sincerely,

Maricela Barba
Fire Prevention Bureau
mbarba@sandiego.gov



Fire Prevention Bureau

Fire-Rescue Department • 1010 Second Avenue, Suite 300 • San Diego, CA 92101
Tel (619) 533-4400 Fax (619) 544-6806

App Dt...: 11 18 05 Rec Dt: 11 18 05 Rec Time: 07:00 Issue Dt:
App Name: CYTORI THERAPEUTICS Bus Name: CYTORI
App Addr: 3030 CALLAN ROAD
App City: SAN DIEGO St: CA Zip: 92121 Ph: ()
C O N T R A C T O R
 tr Name: Bus Name: UNIVERSAL MECH.
 ctr Addr: 10955 VISTA SORRENTO LIC:198069
 ctr City: SAN DIEGO St: CA Zip: 92130 Ph: (619) 685 39
J O B S I T E
 St-Num -Fr Dr ---Street Name or Landmark---- Sfx P/D --Unit-- L/MK
 Addr: 3030 CALLAN RD
 ip : 92121 Sub Occ: CYTORI Parcel: 340 010 44 00 Max Occ:
 ocation: CO2 GAS SYS. Ph: (858) 458 09
E V E N T
 rom Dt: Time: Bond: FD Appr: City Mgr: Consec Days:
 o Dt...: Time: WK/H: Aft Bus: Standbys: 0
F I R E W O R K S
 PD Lic: Shells : 0 Oper1 Lic: Name:
 pt Dt: Max Sze: Oper2 Lic: Name:
 Salutes: 0 Oper3 Lic: Name:
FUNCTION => 2-Occupancy 4-Inspection 5-Activity 6-Tanks PA1-

Application => TA 060180

FILE: 97000681 013

Address : 3030 CALLAN RD
Bus Name: CYTORI THERAPEUTICS
Appl Bus: CYTORI

CYTORI
Owner: PETER AMIS (X-5252)
Contr:

A/M/D	Seq	I/R	Capacity	----Liquid-----	AG	Supply	----Distance to--
001	I		50	CO2	UG	-Source-	Building Prop Li
					AG	INT.PRES	0 3

FUNCTION => 2-Occupancy 4-Inspection 5-Activity 6-Permit PA1-

App Dt.: 08 11 06 Rec Dt: 08 11 06 Rec Time: 08:00 Issue Dt:
 App Name: CYTORI THERAPEUTICS Bus Name: CYTORI THERAPEUTICS
 App Addr: 3020 CALLAN ROAD
 App City: SAN DIEGO St: CA Zip: 92121 Ph: ()
 C O N T R A C T O R
 Ctr Name: PETER AMIS Bus Name: CYTORI THERAPEUTICS
 Ctr Addr: 3020 CALLAN ROAD IN-HOUSE
 Ctr City: SAN DIEGO St: CA Zip: 92121 Ph: (858) 336 92
 J O B S I T E
 St-Num -Fr Dr ---Street Name or Landmark---- Sfx P/D --Unit-- L/MK
 Addr: 3020 CALLAN RD
 Zip: 92121 Sub Occ: CYTORI Parcel: 340 010 44 00 Max Occ:
 Location: LN2 SYSTEMS INSIDE BLDG. Ph: (858) 458 09
 E V E N T
 From Dt: Time: Bond: FD Appr: City Mgr: Consec Days:
 To Dt.: Time: WK/H: Aft Bus: Standbys: 0
 F I R E W O R K S
 PD Lic: Shells : 0 Oper1 Lic: Name:
 Exp Dt: Max Size: Oper2 Lic: Name:
 Salutes: 0 Oper3 Lic: Name:
 FUNCTION => 2-Occupancy 4-Inspection 5-Activity 6-Tanks PA1-

Application => TA 070047

FILE: 91009527 019

CYTORI

Address : 3020 CALLAN RD

Bus Name: CYTORI THERAPEUTICS

Owner: PETER AMIS (X-5252)

Appl Bus: CYTORI THERAPEUTICS

Contr: PETER AMIS

A/M/D	Seq	I/R	Capacity	----Liquid----	AG	Supply	----Distance to--
					UG	-Source-	Building Prop Li
	001	I	240	LN2	AG	PRESSURE	0
	002	I	240	LN2	AG	PRESSURE	0
	003	I	217	LN2	AG	PRESSURE	0

FUNCTION => 2-Occupancy 4-Inspection 5-Activity 6-Permit

PA1-

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PO DISPLAY FORM

PO: 976915
ID: 8055 A
BEC: 12828
RENEWAL
PO
ACTIVE
RENEWAL
STATIONARY

Date: 01-Mar-2008
Fees: \$109.00
Recvd: \$109.00
Recvd On: 05-Feb-2007
Due by:
Printed:
Remarks

Date Aprvd: 22-Oct-2005
Date Creatd: 16-Jan-2007
Date Mailed: 07-Feb-2007
To Retire?:
Retired:
S_Test?: N
Freqncy: N

Comments:

ATCM PERMIT PRINT 10/05

DBA: CYTORI THERAPEUTICS
LOC: DIR OF SPECIAL PROJ AMIS PETER

3020 CALLAN RD
SAN DIEGO CA 921210000
8584580900

EMERGENCY STANDBY ENGINE: PERKINS DIESEL ENGINE, MODEL 1006TA, S/N 119602/02
216 BHP, EPA TIER 1 CERTIFIED OF ENGINE FAMILY NUMBER 1PKXL05.9YJ1, DRIVING
A 125 KW GENERATOR. (983686 10/05) (976915-CCN-2/02)
17CCR93115SJE10/05

Document Name: untitled

(Display)

PC DISPLAY FORM

FE: 34C01

RULES: 1200

69.4.1

INSP:

ANN

PO

976915

8055 A

20-Jul-2007

ANN

PO

976915

8055 A

24-Sep-2004

28693

ENGINE OPERATION FOR MAINTENANCE AND TESTING PURPOSES SHALL NOT EXCEED 30 HOURS PER CALENDAR YEAR. (17 CCR 93115) (ATCM REPORTABLE)

28412

THIS ENGINE SHALL ONLY USE CARB DIESEL FUEL. (RULE 69.4.1, 17 CCR 93115)

28413

VISIBLE EMISSIONS INCLUDING CRANK CASE SMOKE SHALL COMPLY WITH AIR POLLUTION CONTROL DISTRICT RULE 50. (RULE 50)

28414

THE EQUIPMENT DESCRIBED ABOVE SHALL NOT CAUSE OR CONTRIBUTE TO A PUBLIC NUISANCE. (RULE 51)

28415

THIS ENGINE SHALL NOT OPERATE FOR NON-EMERGENCY USE DURING THE FOLLOWING PERIODS, AS APPLICABLE:

(A) WHENEVER THERE IS ANY SCHOOL SPONSORED ACTIVITY, IF ENGINE IS LOCATED ON SCHOOL GROUNDS OR

(B) BETWEEN 7:30AM AND 3:30PM ON DAYS WHEN SCHOOL IS IN SESSION, IF THE ENGINE IS LOCATED WITHIN 500 FEET OF, BUT NOT ON, SCHOOL GROUNDS. THIS CONDITION SHALL NOT APPLY TO AN ENGINE LOCATED AT OR NEAR ANY SCHOOL

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PO DISPLAY FORM

28415

GROUNDS THAT ALSO SERVE AS THE STUDENTS' PLACE OF RESIDENCE. (17 CCR 93115) (ATCM REPORTABLE)

28560

ENGINE OPERATION IN RESPONSE TO NOTIFICATION OF AN IMPENDING ROTATING OUTAGE, SHALL BE SUBJECT TO ALL THE FOLLOWING RESTRICTIONS:

(A) THE UTILITY DISTRIBUTION COMPANY HAS ORDERED ROTATING OUTAGES IN THE CONTROL AREA WHERE THE ENGINE IS LOCATED.

(B) THE ENGINE IS OPERATED NO MORE THAN 30 MINUTES PRIOR TO THE TIME WHEN THE UTILITY DISTRIBUTION COMPANY OFFICIALLY FORECASTS A ROTATING OUTAGE IN THE CITED CONTROL AREA, AND

(C) THE ENGINE OPERATION IS TERMINATED IMMEDIATELY AFTER THE UTILITY DISTRIBUTION COMPANY ADVISES THAT A ROTATING OUTAGE IS NO LONGER IN EFFECT.

THIS CONDITION SHALL NOT APPLY TO ENGINES OPERATING PURSUANT TO THE ROLLING BLACKOUT REDUCTION PROGRAM AS DEFINED IN 17 CCR 93115 AND OPERATING IN ACCORDANCE WITH 17 CCR 93115 (E) (2) (F). (17CCR93115) (ATCM REPORTABLE)

28419

A NON-RESETTABLE ENGINE HOUR METER SHALL BE INSTALLED ON THIS ENGINE, MAINTAINED IN GOOD WORKING ORDER, AND USED FOR RECORDING ENGINE OPERATION HOURS. IF A METER IS REPLACED, THE AIR POLLUTION CONTROL DISTRICT'S COMPLIANCE DIVISION SHALL BE NOTIFIED IN WRITING WITHIN 10 CALENDAR DAYS. THE WRITTEN NOTIFICATION SHALL INCLUDE THE FOLLOWING INFORMATION:

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28419

(A) OLD METER'S HOUR READING

(B) REPLACEMENT METER'S MANUFACTURER NAME, MODEL AND SERIAL NUMBER IF AVAILABLE AND CURRENT HOUR READING ON REPLACEMENT METER

(C) COPY OF RECEIPT OF NEW METER OR OF INSTALLATION WORK ORDER.

A COPY OF THE METER REPLACEMENT NOTIFICATION SHALL BE MAINTAINED ONSITE AND MADE AVAILABLE TO THE AIR POLLUTION CONTROL DISTRICT UPON REQUEST.

(RULE 69.4.1, 17 CCR 93115)

28417

THE OWNER OR OPERATOR OF THIS ENGINE SHALL CONDUCT PERIODIC MAINTENANCE OF THE ENGINE AND ADD-ON CONTROL EQUIPMENT, IF ANY, AS RECOMMENDED BY THE

Document Name: untitled

ENGINE AND CONTROL EQUIPMENT MANUFACTURERS OR AS SPECIFIED BY THE ENGINE SERVICING COMPANY'S MAINTENANCE PROCEDURES. THE PERIODIC MAINTENANCE SHALL BE CONDUCTED AT LEAST ONCE EACH CALENDAR YEAR. (RULE 69.4.1)

28420

THE OWNER OR OPERATOR OF THE ENGINE SHALL MAINTAIN THE FOLLOWING RECORDS ON SITE FOR AT LEAST THE SAME PERIOD OF TIME AS THE ENGINE TO WHICH THE RECORDS APPLY IS LOCATED AT THE SITE:

- (A) DOCUMENTATION SHALL BE MAINTAINED IDENTIFYING THE FUEL AS CARB DIESEL.
- (B) MANUAL OF RECOMMENDED MAINTENANCE PROVIDED BY THE MANUFACTURER, OR MAINTENANCE PROCEDURES SPECIFIED BY THE ENGINE SERVICING COMPANY; AND

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28420

- (C) RECORDS OF ANNUAL ENGINE MAINTENANCE INCLUDING DATE THE MAINTENANCE WAS PERFORMED.

THESE RECORDS SHALL BE MADE AVAILABLE TO THE AIR POLLUTION CONTROL DISTRICT UPON REQUEST. (RULE 69.4.1) (17 CCR 93115)

28421

THE OWNER OR OPERATOR OF THIS ENGINE SHALL MAINTAIN A MONTHLY OPERATING LOG CONTAINING, AT A MINIMUM, THE FOLLOWING:

- (A) DATES AND TIMES OF ENGINE OPERATION WHETHER THE OPERATION WAS MAINTENANCE AND TESTING PURPOSES OR EMERGENCY USE; AND THE NATURE OF THE EMERGENCY, IF KNOWN;
- (B) HOURS OF OPERATION FOR ALL USES OTHER THAN THOSE SPECIFIED ABOVE AND IDENTIFICATION OF THE NATURE OF THAT USE.

(RULE 69.4.1, 17 CCR 93115)

28422

THE OWNER OR OPERATOR SHALL DOCUMENT FUEL USE THROUGH THE RETENTION OF FUEL PURCHASE RECORDS THAT ACCOUNT FOR ALL FUEL USED IN THE ENGINE AND ALL FUEL PURCHASED FOR USE IN THE ENGINE, AND, AT A MINIMUM, CONTAIN THE FOLLOWING INFORMATION:

- (A) AMOUNT OF FUEL PURCHASED
- (B) DATE WHEN THE FUEL WAS PURCHASED
- (C) SIGNATURE OF OWNER OR OPERATOR OR REPRESENTATIVE OF OWNER OR OPERATOR WHO RECEIVED THE FUEL.

(Display)

PO DISPLAY FORM

28422

- (D) SIGNATURE OF FUEL PROVIDER INDICATING FUEL WAS DELIVERED; AND
- (E) AMOUNT OF FUEL ADDED TO THE ENGINE TANK.

(17 CCR 93115)

28423

ALL OPERATIONAL AND MAINTENANCE LOGS AND FUEL USE AND TYPE AND PURCHASE RECORDS REQUIRED BY THIS PERMIT SHALL BE KEPT FOR A MINIMUM OF 36 MONTHS FROM THEIR DATE OF CREATION UNLESS OTHERWISE INDICATED BY THE CONDITIONS OF THIS PERMIT. THE RECORDS SHALL BE MAINTAINED ONSITE FOR A MINIMUM OF 24 MONTHS FROM THEIR DATE OF CREATION. RECORDS FOR THE LAST 24 MONTHS OF OPERATIONS SHALL BE MADE AVAILABLE TO THE AIR POLLUTION CONTROL DISTRICT UPON REQUEST. RECORDS FOR OPERATION FOR THE LAST 25 TO 36 MONTHS SHALL BE MADE AVAILABLE TO THE AIR POLLUTION CONTROL DISTRICT WITHIN 5 WORKING DAYS OF REQUEST. (69.4.1, 17 CCR 93115)

28424

THE PERMITTEE SHALL NOTIFY THE AIR POLLUTION CONTROL DISTRICT COMPLIANCE DIVISION IMMEDIATELY UPON DETECTION OF ANY VIOLATION OF A CONDITION IDENTIFIED AS "ATCM REPORTABLE". SUCH VIOLATIONS SHALL BE SUBJECT TO AIR POLLUTION CONTROL DISTRICT COMPLIANCE ACTION. (17 CCR 93115)

APPENDIX

J



ROBERT G. ATKINS

AGRICULTURAL COMMISSIONER/
SEALER OF WEIGHTS AND
MEASURES

County of San Diego

DEPARTMENT OF AGRICULTURE WEIGHTS AND MEASURES
5555 Overland Avenue, Suite 3101, San Diego, CA 92123-1256
<http://www.sdcawm.org>

AGRICULTURE
(858) 694-2739
FAX (858) 505-7048

WEIGHTS & MEASURES
(858) 694-2778
FAX (858) 505-6484

August 21, 2007

ERIN MURRAY
GEOCON
6970 FLANDERS DRIVE
SAN DIEGO, CA 92121-2974

REQUEST FOR PUBLIC INFORMATION NUMBER: 07-RP0166

Dear Ms. Murray,

In response to your request, pesticide use records for 2004 through 2007 were reviewed and no pesticide records for the site requested was located.

Please note our records reflect pesticides used in agricultural settings. No other pesticide uses are required to be reported by site. Therefore, our records only include sites where an agricultural commodity was produced at the site in the last four years, and where pesticide use was reported to this department. Our records do not include information on pesticides used in urban settings.

If you need to determine the presence or absence of pesticide residues at a location, you should contact an approved lab. We can provide a list of approved labs, which would provide such a service.

Sincerely,

LISA LEONDIS
Deputy Ag Commissioner/Sealer

LL: tmt

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