DOCKETED	
Docket Number:	22-SPPE-02
Project Title:	San Jose Data Center 04
TN #:	245981
Document Title:	San Jose Data Center 04 - SPPE Application - Appendix F, Part V
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UNIFIED PROGRAM CONSOLIDATED	FORM
ONSITE TIERED PERMITTING	

PERMIT BY RULE (PBR) PAGE WASTE AND TREATMENT PROCESS COMBINATIONS

	606.			1.	(One page per treatment un	nt. Check an	inat apply)
	ID# NS-1	Facility ID#		1.		Page	of
1. Aq □ a.	ueous wastes containing hexavalent chromium ma Reduction of hexavalent chromium to trivalent chro both pH and addition of the reducing agent are auto	mium with sodium bisulfite, sodium	ss: metabis	sulfite, sodium thiosulf	àte, ferrous sulfate, ferrous sulfide	or sulfur dioxid	630. e provided
2. Aq ☐ a. ☐ b. ☐ c. ☐ d. ☐ e. ☐ f.	ueous wastes containing metals listed in Title 22, C pH adjustment or neutralization. Precipitation or crystallization. Phase separation by filtration, centrifugation or grav Ion exchange. Reverse osmosis. Metallic replacement.		fluorid g h. i. j. k. 1.	Plating the metal ont Electrodialysis Electrowinning or el	o an electrode.	us types of react	tions.
	ueous wastes with total organic carbon less than 10 40 may be treated by the following technologies:: Phase separation by filtration, centrifugation or grav Adsorption. Distillation. Biological processes conducted in tanks or contained Photodegradation using ultraviolet light, with or wi Air stripping or steam stripping.	vity settling, but excluding super criti	cal fluid	l extraction. anisms.			Method
	ndges, dusts, solid metal objects and metal working treated by the following technologies: Chemical stabilization using silicates and/or cemen Physical processes which change only the physical Drying to remove water. Separation based on differences in physical propert	titious types of reactions. properties of the waste such as grind	ing, shre	,		and/or fluoride	e salts may
5. Alu □ a. □ b.	um, gypsum, lime, sulfur or phosphate sludges may Chemical stabilization using silicates and/or cemen Drying to remove water.		ologies:	Phase separation by	filtration, centrifugation or gravity	settling.	
	•	titious types of reactions.		for special waste class	ification in Section 66261.122 m:	ay be treated by	/ the
teci a.	•	· · ·	-		filtration, centrifugation or gravity		ng
8. Ino ⊠a.	organic acid or alkaline wastes may be treated by t pH adjustment or neutralization.	he following technology:					· .
tec □ a.	ils contaminated with metals listed in Title 22, CCI hnologies: Chemical stabilization using silicates and/or cemen Screening to separate components based on size.		_	Bioaccumulative Toxi Magnetic separation		the following	
□ a. □ b. □ c. □ d.	Neutralization.	vity settling, but excluding super crities such as size, magnetism or densit	ical fluic y.	l extraction.	following technologies:		
spe and apj a.	ntainers of 110 gallons or less capacity which are r ecified in Title 40 of the Code of Federal Regulatio d which are not excluded from regulation may be t plicable requirements. Rinsing with a suitable liquid capable of dissolving Physical processes such as crushing, shredding, gri is first rinsed and the rinseate is removed from the	ns, section 261.7 or inner liners ren reated by the following technologie or removing the hazardous constitue nding or puncturing, that change only	noved fr es provi nts whic	com empty containers ded the treated conta ch the container held.	that once held hazardous waste iners and rinseate are managed i	or hazardous r in compliance v	naterial vith
1 2. Μι □ a.	ulti-component resins may be treated by the follow Mixing the resin components in accordance with th						
	waste stream technology combination certified by r rmit by Rule. Certified Technology Number		n 25200	.1.5 of the Health and	l Safety Code as appropriate for	authorization u	nder

	HAZARI	A CONSOLIDATED FORM DOUS WASTE	
ONSITE HAZARDOUS	WASTE TRE	ATMENT NOTIFICATI	ON – UNIT PAGE
			(One page and attachments per unit)
			Page of
FACILITY ID#		 BUSINESS NAME (Same as FACILITY NA Lumileds Lighting, U.S. LLC 	ME or DBA – Doing Business As) 3.
	I. TREA	TMENT UNIT	
UNIT ID# 606.	UNIT TYPE/TIER	607. NUMBER OF TANKS 608.	NUMBER OF CONTAINERS/ 609. TREATMENT AREAS
MPU-1	□ a. CESQT □ b. CESW	8	
UNIT NAME 610.	□ c. CA	MONTHLY TREATMENT 611. VOLUME	UNIT OF MEASURE 612.
Metals Precipitation Unit - 1	🖾 d. PBR	990,000 (max of 6 5,500 gallon batch treaments per day)	🗋 a. Pounds 🛛 b. Gallons
	e. CEL		
SPECIFIC WASTE TYPE TREATED (narrative) Aqueous wastes with metals, specifically a	arsenic and fluoride sa	lts	613.
TREATMENT PROCESS DESCRIPTION (narrativ Chemical precipitation in batch treatments separation of precipitate and clear water b	using lime followed b		
offsite. (NOTE: For each treatment unit, complete and attac	h the appropriate Waste and	Treatment Process Combinations page.)	
II. BASIS F	OR NOT NEEDING	FEDERAL PERMIT (Check all that a	apply)
a. The treated waste is not a hazardous w (California-only waste).	vaste under federal law	f. Treatment in an accumulation tank on 1,000 kg/month generators and 180 cd 1,000 kg/month.	
b. Treated in waste water treatment units (tar publicly owned treatment works (POTW)/sev NPDES permit.		g. Recyclable materials are reclaimed to	recover silver or other precious metals.
c. Treatment in elementary neutralization units.		h. Empty container rinsing and/or treatm	nent.
d. Treatment in a totally enclosed treatment faci	lity.	i. Other (specify below)	
e. Federal conditionally exempt small quantity kg., approximately 27 gallons, or less of haza month).			
III. RESID	UALS MANAGEMI	ENT DESCRIPTION (Check all that a	oply)
☐ a. Discharge non-hazardous aqueous waste to P	OTW or sewer.	Residual hazardous waste hauled offsite by	a registered hauler. 616
b. Discharge non-hazardous aqueous waste unde	er a NPDES permit.	☐ d. Offsite recycling ☐ e. Thermal treatment	
C. Dispose of non-hazardous solid waste residue	s at an offsite location.	 ☑ f. Disposal to land □ g. Further treatment □ h. Other method of disposal (describe between the second sec	elow)
GEOONDA BY COMPANY DI COMPANY DI COMPANY			617.
SECONDARY CONTAINMENT INSTALLATION	DATE (In required)		017.

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	UN	IFIED PROGRAM CON ONSITE TIERED F			RM		
	Р	ERMIT BY RUL	E (F	PBR) PAG	E		
	WASTE	AND TREATMENT PR	OCE	SS COMBIN	(One page per treatment u	init. Check all	that apply)
IINIT	606. ID# MPU-1	Facility ID#		1.		Page	of
	ueous wastes containing hexavalent chromium ma Reduction of hexavalent chromium to trivalent chro	y be treated by the following process	is: metabis	ulfite, sodium thiosul	fate, ferrous sulfate, ferrous sulfid		630.
□ a. 2. Ao	both pH and addition of the reducing agent are auto queous wastes containing metals listed in Title 22, (fluorid	e salts may be treate	ed by the following technologies:	:	
⊠ a. ⊠ b. ⊠ c. □ d. □ e. □ f.	pH adjustment or neutralization. Precipitation or crystallization. Phase separation by filtration, centrifugation or gra Ion exchange. Reverse osmosis. Metallic replacement.		□ g. □ h. □ i. □ j. □ k. □ l.	Plating the metal on Electrodialysis Electrowinning or e	to an electrode.		ctions.
		vity settling, but excluding super critic	cal fluid	extraction.			A Method
	udges, dusts, solid metal objects and metal working treated by the following technologies: Chemical stabilization using silicates and/or cemen Physical processes which change only the physical Drying to remove water. Separation based on differences in physical property	titious types of reactions. properties of the waste such as grindi	ng, shre			2) and/or fluoric	de salts may
5. Al □ a. □ b.	um, gypsum, lime, sulfur or phosphate sludges ma Chemical stabilization using silicates and/or cemer Drying to remove water.		logies: □ c.	Phase separation by	filtration, centrifugation or gravit	y settling.	
	astes identified in Title 22, CCR, Section 66261.120 llowing technologies: Chemical stabilization using silicates and/or cemer Drying to remove water. Phase separation by filtration, centrifugation or gra Screening to separate components based on size. Separation based on differences in physical propert	titious types of reactions. vity settling.		or special waste clas	sification in Section 66261.122 π	nay be treated b	oy the
teo □ a.	astes, except asbestos, which have been classified b chnologies: Chemical stabilization using silicates and/or cemer				filtration, centrifugation or gravit		ving
□ b. 8. In □ a.	Drying to remove water. organic acid or alkaline wastes may be treated by the pH adjustment or neutralization.	the following technology:	<u> </u>		1.		
9. So teo □ a.	ils contaminated with metals listed in Title 22, CC chnologies: Chemical stabilization using silicates and/or cemer			Gioaccumulative Tox Magnetic separation		y the following	
□ b. 10. Us □ a. □ b. □ c. □ d. □ e. □ f.	sed oil, unrefined oil waste, mixed oil, oil mixed with Phase separation by filtration, centrifugation or gra Distillation. Neutralization. Separation based on differences in physical proper	vity settling, but excluding super criti ties such as size, magnetism or density	cal fluid y.	l extraction.	following technologies:		
sp an ap □ a.	ontainers of 110 gallons or less capacity which are ecified in Title 40 of the Code of Federal Regulation do which are not excluded from regulation may be pplicable requirements. Rinsing with a suitable liquid capable of dissolving Physical processes such as crushing, shredding, gri is first rinsed and the rinseate is removed from the	ns, section 261.7 or inner liners ren treated by the following technologie ; or removing the hazardous constitue nding or puncturing, that change only	noved fr s providents which	om empty container ded the treated container th the container held.	s that once held hazardous wast ainers and rinseate are managed	te or hazardous I in compliance	material with
🗖 a.	-	e manufacturer's instructions.					
	waste stream technology combination certified by ermit by Rule. Certified Technology Number				d Safety Code as appropriate fo	r authorization	under
_							



CERTIFICATION

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to ensure that qualified personnel properly gather and evaluate the information submitted. Based upon my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment for knowing violations.

I certify that the hazardous waste tank systems <u>(the acid rinse waste treatment system, the hydrofluoric acid waste treatment system, and the solvent waste accumulation system)</u> at Agilent Technologies have sufficient structural integrity, are compatible with the wastes, and are acceptable for transferring, accumulating, and treating hazardous wastes.

There were no significant cracks, leaks, or corrosion visible during the tank system examination. The tanks and secondary containment are suitably designed to achieve the tank design and operating requirements described in Title 22 of the California Code of Regulations, Section 66265.192 (22 CCR 66265.192). This report is being conditionally certified by the professional engineer due to the Limitations listed in Section 1.1 of the report (i.e., flow conditons, inaccessiblity, etc.). The certification is based on the following:

- 1. A visual examination of the tank systems and piping on March 14, 2005 and May 17, 2005.
- 2. Interviews with the facility technicians responsible for maintaining the tank systems.
- 3. Ultrasonic thickness testing of the steel tanks W2, W3, W16, and W30b on May 17, 2005.





Michael J. Zimmerman, P.E., R.E.A. Senior Project Manager Environmental Services

Jon A. Rosso, P.E. Director Environmental Services June 23, 2005

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Department of Environmental Health

Hazardous Material Compliance Division 1555 Berger Drive, Suite 300 San Jose, CA 95112-2716 (408)918-3400 FAX (408)280-6479 www.EHinfo.org

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April 12, 2011

MITCH COLE PHILIPS LUMILEDS LIGHTING COMPANY 370 WEST TRIMBLE ROAD SAN JOSE CA 95131 EPA I.D.: CAR000058081 Initial Authorization: 3/22/2000

Renewal Date: April 12, 2011

Dear Onsite Treatment Facility:

The County of Santa Clara Hazardous Materials Compliance Division (HMCD) has received and reviewed your facility's PBR Renewal Notification to ensure it is administratively complete. It has not been reviewed for technical adequacy. The technical review will be conducted during a facility inspection by this office. A copy of the Hazardous Waste Tiered Permit Audit Checklist-Permit By Rule can be found on website www.EHinfo.org.

The treatment unit (s) listed below is / are hereby authorized pursuant to Title 22 of the California Code of Regulations (CCR). Your authorization continues until you notify this office that you have stopped treating wastes and have fully closed the unit(s) pursuant to all applicable closure requirements of CCR Title 22 and your closure plan.

Ms. Violeta Mislang with the State Department of Toxic Substances Control (DTSC) can be contacted at (714) 484-5387 for questions concerning the Phase I Environmental Assessment/Corrective Action Program.

If you have any questions regarding this letter please contact me at (408) 918-1985 or e-mail: ruben.williams@deh.sccgov.org.

Sincerely,

Ruben Welliams

Ruben Williams, CHMM, REA Senior Hazardous Materials Specialist Hazardous Materials Compliance Division

Units authorized to operate at this location:

UNDER PERMIT BY RULE: NS-1, MPU-1

Board of Supervisors: Mike Wasserman, George Shirakawa, Dave Cortese, Ken Yeager, Liz Kniss County Executive: Jeffrey V. Smith



Hazardous Material Compliance Division 1555 Berger Drive, Suite 300 San Jose, CA 95112-2716 (408)918-3400 FAX (408)280-6479 www.EHinfo.org



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Ms. Violeta Mislang with the State Department of Toxic Substances Control (DTSC) can be contacted at (714) 484-5387 for questions concerning the Phase I Environmental Assessment/Corrective Action Program.

If you have any questions regarding this letter please contact me at (408) 918-1985 or e-mail: ruben.williams@deh.sccgov.org.

Sincerely,

Ruben Welliam

Ruben Williams, CHMM, REA Senior Hazardous Materials Specialist Hazardous Materials Compliance Division

Units authorized to operate at this location:

UNDER PERMIT BY RULE: NS-1, MPU-1

Board of Supervisors: Mike Wasserman, George Shirakawa, Dave Cortese, Ken Yeager, Liz Kniss County Executive: Jeffrey V. Smith

County of Santa Clara

Department of Environmental Health

1555 Berger Drive, Suite 300 San Jose, California 95112-2716 (408) 918-3400 www.EHinfo.org



January 3, 2011

MITCH COLE PHILIPS LUMILEDS LIGHTING COMPANY 370 WEST TRIMBLE ROAD SAN JOSE CA 95131 EPA ID No. CAR000058081 Site Address:

370 WEST TRIMBLE ROAD SAN JOSE CA 95131

RE: 2011 PBR ANNUAL RENEWAL

Dear Sir or Madam:

This letter is provided by your Certified Unified Program Agency (CUPA), the County of Santa Clara, Department of Environmental Health, in order to help facilitate your renewal as an onsite hazardous waste treatment facility operating a fixed treatment unit under Permit by Rule (PBR).

All of the required Unified Program Consolidated Forms (UPCF) pertaining to your onsite treatment unit(s) were submitted last year by your facility. Therefore, this year you are requested to complete only the following certification pages requiring a signature along with the Business Activities page and return to our office by March 1, 2011:

1. Business Activities (Unified Program Consolidated Form).

2. Business Owner/Operator Identification Page (Facility Information).

3. Onsite Hazardous Waste Treatment Notification (Facility Page).

4. Certification of Financial Assurance (Annual Certification).

The requested UPCF forms can be accessed by going to the website:

<u>http://www.EHinfo.org</u>. If you prefer hard copies of these forms please contact us and these forms will be mailed to you. If changes related to your onsite treatment unit(s) occurred last year, in addition to the above noted forms, please submit the Unit Page and Permit by Rule page of the UPCF forms to reflect those changes.

As a reminder, facilities are required to adjust their closure cost estimates for inflation by March 1st of each year. It is advisable that you use last year's inflation factor of 1.04 per cent since the Bureau of Economic Affairs doesn't publish the Implicit Price Deflator for the last quarter of year 2010 until April 2011. The estimated closure costs that is updated

PHILIPS LUMILEDS LIGHTING COMPANY Page 2

January 3, 2011

EPA ID No. CAR000058081

yearly with the inflation factor must be noted on Section II of the Certificate of Financial Assurance Form.

You are requested to submit a copy of your updated closure cost estimate to this office only if you previously self certified that the closure cost was less than \$10,000.00 and now, due to updating, it exceeds that amount. In addition, for all facilities that claim salvage value for resale of equipment under the closure cost estimate, please send documentation supporting the true market value of the salvage/reclaimed equipment.

After updating your closure cost estimate, we recommend that you evaluate the financial mechanism and verify that it is adequate to cover the current cost estimate. For facilities that have filed under the mechanism of Financial Test and Corporate Guarantee, in order to maintain eligibility for this closure assurance mechanism, annual updated information must be submitted to this department within ninety (90) days of the close of the firm's fiscal year.

Do not send an annual notification fee with this renewal form. You will be receiving an invoice either from our Department or from your local fire department for the annual permit to operate your treatment unit(s).

Once you have completed and submitted the PBR renewal forms as instructed above, you will have complied with your 2011 annual notification requirements as noted in the California Code of Regulations, Title 22, Section 67450.3 (c).

If you have any questions regarding this letter please contact me at (408) 918-1985 or email: ruben.williams@deh.sccgov.org.

Sincerely,

Ruber William

Ruben Williams, CHMM, REA Senior Hazardous Materials Specialist Hazardous Materials Compliance Division

Units authorized to operate at this location: NS-1, MPU-1



Department of Environmental Health

Hazardous Materials Compliance Division 1555 Berger Drive, Suite 300 San Jose, California 95112-2716 (408) 918-3400 FAX (408) 280-6479 www.EHinfo.org



May 6, 2008

MITCH COLE PHILIPS LUMILEDS LIGHTING COMPANY 370 WEST TRIMBLE ROAD SAN JOSE CA 95131 EPA I.D.: CAR000058081 Initial Authorization: 3/22/2000

Renewal Date: May 8, 2008

Dear Onsite Treatment Facility:

The County of Santa Clara Hazardous Materials Compliance Division (HMCD) has received and reviewed your facility's PBR Renewal Notification to ensure it is administratively complete. It has not been reviewed for technical adequacy. The technical review will be conducted during a facility inspection by this office. A copy of the Hazardous Waste Tiered Permit Audit Checklist-Permit By Rule can be found on website www.EHinfo.org.

The treatment unit (s) listed below is / are hereby authorized pursuant to Title 22 of the California Code of Regulations (CCR). Your authorization continues until you notify this office that you have stopped treating wastes and have fully closed the unit(s) pursuant to all applicable closure requirements of CCR Title 22 and your closure plan.

Ms. Violeta Mislang with the state Department of Toxic Substances Control (DTSC) can be contacted at (714) 484-5387 for questions concerning the Phase I Environmental Assessment/Corrective Action Program. If you have any questions regarding this letter please contact Senior Hazardous Materials Specialist Ruben Williams at (408) 918-1985.

Sincerely,

Nicole Pullman

Nicole Pullman, R.E.H.S. Hazardous Materials Program Manager

Units authorized to operate at this location:

UNDER PERMIT BY RULE: NS-1, MPU-1



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2006 JAN 19 PM 2: 58

CERTIFIED MAIL ARTICLE NUMBER: 7099 3400 0016 2568 6211

January 17, 2006

Ms. Violet Nislang Department of Toxic Substances Control 5796 Corporate Avenue Cypress, CA 90630

Subject: Phase I ESA & Site History

Dear Ms. Nislang:

Enclosed is the Phase I Environmental Assessment Checklist for the all of the operations here at this site. The history is a little confusing so I'll lay it out chronologically:

1977: Initial construction of the facility. Previous land use was agricultural. The initial construction was for a single building with the potential campus of six buildings arranged in a circle.

1980: The initial notification of regulated waste activity was submitted for Hewlett-Packard Company. The site consisted of a single building. The address was 350 West Trimble Road. The division at the site was called components group. They made three product families:

- Optoelectronics Division: Manufactured Light Emitting Diodes
- Fiberoptics Division: Manufactured opto couplers and components that converted photon energy to electron and back.
- Communications Division: Manufactured microwave frequency communications components, amplifiers.

1981: A second building was constructed on the property. The address changed to 350/370 West Trimble Road.

1999: Hewlett-Packard Company decided that in order to continue to grow, it needed to split into two companies. The original name remained with the side with all the computers and computer peripherals and continues to operate under the HP name. The other side of the business adopted the Agilent Technologies name. The Agilent business consisted of the components group, medical group, test equipment, and analytical group. A notification of regulated waste activity form was submitted on 10/29/1999 to change the owner/operator from Hewlett-Packard to Agilent Technologies, Inc. EPAID# CAT 000 611 400

At the same time, the Optoelectronics Division, OED, was in need of a large infusion of cash to purchase equipment to remain competitive in the market. Japan had started making blue LEDs and OED didn't have the equipment to mass produce that product line. At the same time Philips Lighting was looking at getting into the solid state lighting market and had the cash to invest. So, between Agilent and Philips, the OED division became a new third company Lumileds Lighting. Another notification was submitted to create the new EPA ID # CAR 000 058 081

2001: After a bit of work, Agilent and DTSC came into a Variance agreement to allow the two companies to commingle the wastewaters into a single set of PBR treatment systems.



Lumileds Lighting, LLC 370 West Trimble Road San Jose, CA 95131 USA (877) 298-9455 Ms. Violet Nislang DTSC January 17, 2006 Page 2

2005: Agilent decided to sell off the Semiconductor Products Division, SPG. It was sold to a pair of investment firms with the final date being 12/1/2005. SPG consisted of the Components Group Operations. This new group of semiconductor operations is under the name Avago Technologies. They have operations at this facility along with Colorado and South East Asia. A notification of regulated waste activity was submitted to Federal EPA on 10/4/2005. Avago Technologies maintains the CAT 000 611 400 EPA ID number.

Because Lumileds was not wholly owned by Agilent, it was not included in this transaction. Instead, Agilent divested itself from the joint venture by selling its half to the other partner – Philips Lighting. This resulted yet another name change from Lumileds Lighting U.S. LLC to Philips Lumileds Lighting Company LLC. A notification of regulated waste activity was submitted to Federal EPA on 12/1/2005. Philips Lumileds Lighting Company LLC maintains the CAR 000 058 081 EPA ID number.

Because of these changes in 2005, the variance was nullified. To address this change, we segregated the wastewaters between the two companies and added a third PBR treatment system.

If you have any questions, please give me a call.

Sincerely,

Stol

Mitch Cole Environmental Engineer (408) 435-4205 phone (408) 592-3222 mobile (408) 435-4155 fax

enclosure

cc: Mr. Mike Balliet Environmental Resources Agency 1555 Berger Drive, Suite 300 San Jose, CA 95112-2716 State of California-California Environmental Protection Agency

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SECTION I: FACILITY INFORMATION
Instructions: Complete the following descriptive information about your facility. This information accurately describes the location of your facility and establishes mailing and phone contacts. If facility location and mailing address are identical, you may put "same" into facility mailing address spaces.
Type of Permit: Permit by Rule X Conditional Authorization
1. CURRENT FACILITY NAME: Philips Lumileds Lighting Company LCC
PASTNAMES (Attach additional pages if necessary): Lumiled's Lighting, Agilent Technologies Hewlett Packard Company
2. EPAID. NUMBER: CAR OOD OSY OSI
3. NAME OF FACILITY OWNER (see definition of owner): 74. 1. p5
4. NAME OF FACILITY OPERATOR: Bob Method
5. NAME OF PROPERTY OWNER: Philips Lumiled's Lighting Company
6. FACILITY LOCATION ADDRESS:
STREET: 350-370 West Trimble Road
CITY: San Jose
COUNTY: Sante Clara
STATE: CA ZIP CODE: 95731
7. FACILITY MAILING ADDRESS (if different from FACILITY LOCATION ADDRESS):
STREET:
CITY:
STATE: ZIP CODE:
8. FACILITY TELEPHONE NUMBER: (408) 435-5959
9. FACILITY FAX NUMBER: (408) 435-4155
10. NAME OF FACILITY CONTACT PERSON: Mitch Cole
11. TITLE OF FACILITY CONTACT PERSON: Environmental Engineer
11. TITLE OF FACILITY CONTACT PERSON: Environmental Engineer 12. PHONE NUMBER OF FACILITY CONTACT PERSON: (408) 435-4205

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13.	ADDRESS OF FACILITY CONTACT PERSON:		
S	TREET:		
с	ITY:		
S	TATE: ZIP CODE:		
SEC	TION II: FACILITY HISTORY		
past of emplo	ctions: Complete this section regarding facility history based on reasonably available knowledge of the facility. This secti perating practices and significant historical events that occurred at the facility indicate potential areas of contamination. Over yees who know about the facility's past operating practices can be an asset in completing this section of the checklist. Ye cons mean that careful attention must be paid to these areas and considerations when completing the facility walk-through	Current and past is answers to these	
		YES	NO
1.	Has an environmental assessment and/or a site investigation report ever been completed for the facility? If this assessment meets the criteria for substituting for this checklist (see Instructions), use the Signature and Certification Page to record this exemption. You need not release confidential assessments. However, if these reports indicate existing or potential contamination, you must use the information relied on by the confidential report to help reach a conclusion in this assessment.	X	
2.	To your knowledge, have areas of the facility that contain hazardous materials ever been flooded?		×
3.	To your knowledge, has the facility ever been damaged by an earthquake that could cause contamination?		X
4.	To your knowledge, has the location for the facility ever been used for industrial purposes prior to its current use? If YES, then consider potential contamination from the type of industry that the location was formerly used for.		×
5.	To your knowledge, has there been any disposing of hazardous chemicals or hazardous wastes in, on, or under the property?		X
6.	To your knowledge, has the facility ever had electrical transformers, capacitors, or hydraulic equipment including, but not limited to elevators and auto lifts, at the facility which may have released PCBs or oil to the environment? (Not including small quantities of fluorescent light ballasts and capacitors if these materials were not disposed of or dismantled at the facility)		X
	If YES, was the equipment ever tested for the presence of PCBs?		
7.	To your knowledge, has testing of any groundwater wells on the property ever revealed possible contamination?	×	
8.	Do you have in your possession, or do you know of the existence of any photographs, geophysical reports, analytical test data, and/or air sampling data that indicates the possible presence of hazardous materials and/or waste in unwarranted or unexpected areas of the facility?		X
9.	To your knowledge, has the facility ever had liquid/sludge containment area(s), surface impoundment(s), collection pond(s), and/or lagoon(s)?		X

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10.	To your knowledge, have land-farming or bioremediation been used at the facility?		×
11.	To your knowledge, has the facility ever burned hazardous wastes, unidentified waste materials, tires, or automotive batteries at the facility?		×
12.	To your knowledge, have ash and/or combustion residuals been disposed of at the facility?		X
13.	To your knowledge, have any underground storage tank(s) been removed, abandoned, or taken out of service from the facility? Tanks removed, abandoned, or taken out of service under the oversight of a responsible agency need not be considered if the agency addressed potential contamination at the tank location.		×
14.	To your knowledge, has any contaminated soil been discovered and/or remediated at the facility without oversight by an appropriate regulatory agency?		X
15.	To your knowledge, have there been fires and/or explosions at the facility which may have caused a release of hazardous waste or materials?		×
16.	To your knowledge, has the facility ever received complaints from any employees, neighbors, or the public about the facility's practices for managing hazardous wastes, or any actual or potential releases to air, water, or soil, or other environmental issues?	X	
17.	To your knowledge, have nearby residents complained to a governmental agency of any type of illnesses or unusual illnesses as having been caused or suspectedly caused by or related to activities at the facility? (Note: this item does not require questioning the facility's neighbors) If YES, indicate below the person and/or agency who recorded the complaint.		×
	If YES, to your knowledge, has any evidence been submitted to a physician to substantiate the claim?		
18.	To your knowledge, are there any areas at the facility which were formerly used for hazardous waste or hazardous materials transfer (e.g. tank loading areas, drum transfer areas)?		X
19.	To your knowledge, are there, or have there been lawsuits or administrative proceedings concerning an actual, alleged, or threatened release of any hazardous substance against the facility by another party? Only actions concluded by settlement or litigation need be considered.		X

TIERED PERMITTING PHASE I ENVIRONMENTAL ASSESSMENT CHECKLIST

SECTION III: FACILITY WALK-THROUGH INSPECTION - SPECIFIC AREAS

must be individually inspected. Carefully examine each of these areas during the walk-through inspection to determine the presence of releases or possible releases and record the results in the appropriate column, date and initial the entry. Complete a <u>Release Information Data Sheet</u> for each actual and possible release found. Using your best judgement, decide if any actual or suspected releases found require further investigation and record the results on the <u>Release Information Data Sheet</u> and in the appropriate column on this chart. If uou need additional space, photocopy this sheet.

HAZARDOUS MATERIAL AREA	INSPECTED (Yes or No)	ACTUAL OR SUSPECTED RELEASE (Yes or No)	REQUIRES FURTHER INVESTIGATION (Yes or No)
LOADING/UNLOADING AREAS			
Service Yard Building 90	les	No	No
Service Yard Building 91	<u>ĭes</u>	N c	No
HAZARDOUS MATERIALS USE AREAS			
Facility. Building 90	Tes	No	No
Facility Building 91	<u>Kes</u>	No	No
· · · · · · · · · · · · · · · · · · ·			
	· · ·		
HAZARDOUS WASTE GENERATION AREAS			
Facility Building 90	ies	\mathcal{N}_{∂}	No
Facility Building 91	Yes	No	No
HAZARDOUS WASTE TREATMENT/STORAGEAREAS			
Service Building	125 125	No	N_c
Facility Basement 91	yes	No	No
0			



TIERED PERMITTING PHASE I ENVIRONMENTAL ASSESSMENT CHECKLIST

SECTION IV: FACILITY WALK-THROUGH INSPECTION - OTHER AREAS

Instructions: This section of the checklist requires the owner and/or operator of the facility to conduct a walk-through inspection of the those portions of the facility not addressed in <u>Section III</u> in order to identify possible environmental problems, environmental warning signs or potential exposure to people, animals, or plants. Some of the problems that may be discovered during this inspection include abandoned storage tanks, spill areas, surface impoundments, etc. Some of the environmental warning signs include stains, discolored vegetation, and/or unnatural terrain. During the inspection, were any of the following present:

		YES	NO
1.	Does the facility have vent pipes, fill pipes, and/or access routes that may indicate the presence of an underground storage tank?	×	
2.	Does the facility have stains and/or discolorations of the soil, flooring, drains and/or walls at the facility which may indicate a release to the environment that has not or is not being addressed under the oversight of an appropriate agency?		×
3.	Does the facility have areas of soil at the facility that appear disturbed and which may indicate onsite disposal or land treatment of hazardous materials or remediation of releases without oversight by an appropriate agency?		X
4.	Does the facility have areas at the facility where the terrain appears unnatural, such as unexplained mounds or depressions?	X	
5.	Does the facility have unusual smells or odors emanating from the soil, floor, drains, and/or walls at the facility?		X
6.	Does the facility have dead, abnormal, or distressed-looking vegetation or conspicuous absence of vegetation at the facility that is not directly explainable by a deliberate action and/or lack of water at the site?		X
7.	Where does rain and/or washwater drain to at the facility? (circle all that apply) Note: sligh storm or washwater can seriously contaminate evaporation or settling areas (with no draina time.		
	a. storm Draind. open Landb. Sewere. Areas of pooling, settling, or evaporationc. Drainage Ditchf. Other		

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AREA OF CONCERN DATASHEET
Instructions: Complete the following questions in detail for EACH release or suspected release identified in <u>Section III FACILITY WALK-</u> <u>THROUGH INSPECTION - SPECIFIC AREAS</u> or <u>SECTION IV FACILITY WALK-THROUGH INSPECTION - OTHER AREAS</u> and any other known or suspected releases. Do not include areas that have been or are being remediated under the oversight of an appropriate agency. If answers to questions are not known, then state "unknown".
1. Facility name: Philips Lumileds Lighting Company (LC 2. This sheet is being completed for a: None
2. This sheet is being completed for a: None
Known release Suspected release
3. How was this release or suspected release discovered?
During the walk-through inspection? Previously known release?
What checklist question(s) are related to this release (section/question)
4. When did the release occur?
5. What was released and how much?
6. What caused the release?
7. Indicate the approximate area of the release (e.g. 3 feet in diameter, 5 feet X 4 feet.)
8. Was the release remediated? If YES, explain how. (Note: A datasheet need not be completed for releases remediated or being remediated under the oversight of an appropriate agency.
9. Were samples collected? If yes, what were the results?
10. List any environmental reports or studies performed on the area of concern and attach copies or summaries of the reports not submitted to the Department.
Name of preparer:
Title of preparer:
Date:



TIERED PERMITTING PHASE I ENVIRONMENTAL ASSESSMENT CHECKLIST

SIGNATURE AND CERTIFICATION FOR PERMIT-BY-RULE AND CONDITIONAL AUTHORIZATION

Instructions: Carefully read the certification below. If you feel uncomfortable signing this certification, review the instructions and the information developed in the preparation of the checklist and correct any deficiencies you have found. Be sure that you check one of the boxes below to record your decision regarding further investigation. If you are claiming exemption from completing a Phase I Environmental Assessment, complete that section below.

Either the owner, operator, or independent professional engineer, geologist, or an environmental assessor who is registered in the State of California, shall certify to the following statement by signing on the appropriate lines below:

Yes, further investigation is needed to determine the existence, nature, and/or extent of contamination at the facility; or

- X No, further investigation is not necessary to determine the existence, nature, and/or extent of contamination at the facility.
 - I am exempt from completing the checklist and/or from resulting followup work. [Please state reason for exemption below and supply documentary evidence (see instructions)]. Explanation:

"Under penalty of perjury, I certify that I have personally examined and am familiar with the information submitted in this document and all attachments, and based on my inquiry of those individuals immediately responsible for obtaining it, the information is true, accurate, and complete to the best of my knowledge. Thus informed, I certify to my best judgement that the conclusion recorded above regarding further investigation or exemption from completion of the Phase I Environmental Assessment is correct."

Owner's Signature Name, Title, and Company Name Date Or: Bob Method, Worldwich Facilities Director, Name, Title, and Company Name Thilips cumiteds Lighting Company rator's Signature (If Owner is not Operator)

Or: Certification by an independent professional engineer, geologist, or environmental assessor who is registered in the State of California. Certification by a registered professional is optional for Permit-By-Rule and Conditionally Authorized Generators. Sign and affix stamp.

Signature

Name, Title, Registration Number

Date

	PBR
UNIFIED PROGRAM CONSO HAZARDOUS W	
CERTIFICATION OF FINAL	
FOR PERMIT BY RULE AND CONDITIONALLY	AUTHORIZED ONSITE TREATHER AR -2 PM 12: 1
	700.
	al Certification Page 1 of 4
I. FACILITY IDENTI (Put an asterisk in the left margin next to the	
BUSINESS NAME (Same as FACILITY NAME or DBA – Doing Business As)	3.
Philips Lumileds Lighting Company 370 W. Trimble Rd	
FACILITY ID#	LITY EPA ID# CAR 000 058 081 2.
TYPE OF OPERATION A a. PBR-FTU b. CA C. Oth	er:
II. ESTIMATED CLOS	URE COSTS
NOTE: In addition to the dollar figure below, a written estimate of closure costs must be at	ached when you submit this section of this page. 702.
ESTIMATED CLOSURE COSTS:	\$ 169,886
III. EXEMPTION FROM FINANCIAL AS	SURANCE REQUIREMENTS
I am not required to provide a mechanism because:	
\Box a. I certify that my closure cost estimate is less than or equal to \$10,000, or	703.
	704.
b. Specify other reasons:	
C. As a PBR owner or operator, I have not operated more than thirty days in a calendary	r year. (Does not apply to Conditional Authorization) 705.
IV. CLOSURE FINANCIAL ASSU	. 706 708
I am required to provide a mechanism and it is attached to this page.	MECHANISM ID NUMBER(S):
EFFECTIVE DATE OF CLOSURE ASSURANCE MECHANISM: 01/01/09 MECHANISM TYPE	68026017 ·
MECHANISM TYPE a. Closure Trust Fund d. Closure Insurance (Check one item only) b. Surety Bond e. Financial test and C	orporate Guarantee h. Certificate of Deposit
$($ c. Closure Letter of Credit \Box f. Alternative Mechan	
FINANCIAL INSTITUTION, INSURANCE OR SURETY COMPANY/OTHER ORGANI	710
Bank of America	
ADDRESS One Fleet Way	711.
CITY Scranton 712. STAT	E PA 713. ZIP CODE 18507-1999 714.
V. OWNER OR OPERATOR SIGNER OF THIS CERTIFICATION \begin{subarray}{c} a. Owner \end{subarray} a. Owner	b. Operator
I certify under penalty of law that this document and all attachments were prepared under that qualified personnel properly gather and evaluate the information submitted. Based directly responsible for gathering the information, the information is, to the best of my kn significant penalties for submitting false information, including the possibility of fines and	ny direction or supervision in accordance with a system designed to assure on my inquiry of the person or persons who manage the system, or those owledge and belief, true, accurate and complete. I am aware that there are
SIGNATURE OF OWNER/OPERATOR DATE	25-Jel2011
NAME OF OWNER/OPERATOR (Print) 717. TITLE	OF OWNER/OPERATOR 718.
Mr. Jan Bouten Chies	Financial Officer

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UNIFIED PROGRAM CONSOLIDATED FORM HAZARDOUS WASTE							
CERTIFICATION OF FINANCIAL ASSURANCE							
FOR PERMIT BY RULE AND CONDITIONALLY AUTHORIZED ONSITE TREATERS							
a. Initial Certificatio			c. Annual Certification	on Page 1	of 4		
	(Put	an asterisk in the left marg	in next to the amended informat	tion)			
	FACILITY NAME or DBA – Doing Business A	As)			3.		
Philips Lumileds Ligh	iting Company	1.	FACILITY EPA ID#		2.		
				CAR 000 058 081			
TYPE OF OPERATION] c. Other:		701.		
	II.	ESTIMATED	CLOSURE COST	<u>S</u>			
NOTE: In addition to the d	ollar figure below, a written estimat	te of closure costs mi	ust be attached when you	u submit this section of this page.	702.		
			COSTS: \$ 196,886		702.		
	III. EXEMPTION FI	ROM FINANCI	IAL ASSURANCE	E REQUIREMENTS			
I am not required to provide	e a mechanism because:						
a. I certify that my closure cost estimate is less than or equal to \$10,000, or							
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b. Specify other reas	sons:						
c. As a PBR owner	or operator, I have not operated mor	e than thirty days in	a calendar year. (Does r	not apply to Conditional Authorization)	705.		
			ASSURANCE M		708.		
I am required to provide a mechanism and it is attached to this page.			707	MECHANISM ID NUMBER(S):	708.		
	DF CLOSURE ASSURANCE MEC		<u></u>	68026017	709.		
MECHANISM TYPE	a. Closure Trust Fund	d. Closure Ins		g. Multiple Financial Mechanisms	705.		
(Check one item only)	b. Surety Bond		est and Corporate Guara				
	C. Closure Letter of Credit	f. Alternative		i. Savings Account	710.		
	N, INSURANCE OR SURETY CC	MPANY/OTHER C	DRGANIZATION				
Bank of	America	a			711.		
ADDRESS One Fleet	Way						
CITY Scranton		712.	STATE PA	^{713.} ZIP CODE 18507-1999	714.		
	V. OWN	ER OR OPERA	TOR CERTIFIC	ATION			
that qualified personnel p directly responsible for ga	law that this document and all attack roperly gather and evaluate the inf thering the information, the inform	hments were prepare formation submitted. ation is, to the best of	Based on my inquiry of my knowledge and be	rator supervision in accordance with a system designed to a of the person or persons who manage the system, or elief, true, accurate and complete. I am aware that the for knowing violations. (22 CCR Section 66270.11)	those		
SIGNATURE OF OSPER			DATE 4- Jeb		716.		
NAME OF OWNER/OPER	RATOR (Print)	717.	TITLE OF OWNER/O	OPERATOR	718.		
Mr. Jan Bouten			Chief Financial Officer				

UNIFIED PROGRAM CONSOLIDATED FORM									
HAZARDOUS WASTE									
CERTIFICATION OF FINANCIAL ASSURANCE									
FOR PERMIT BY RULE AND CONDITIONALLY AUTHORIZED ONSITE TREATERS									
a. Initial Certification D. Amended Certification C. Annual Certification Page 1 of									
			DENTIFICATION in next to the amended informat	:)	· · ·				
BUSINESS NAME (Same as	FACILITY NAME or DBA – Doing Business A	0	in next to the amended informat						
Philips Lumileds Lighting Company									
FACILITY ID#		1.	FACILITY EPA ID#	CAR 00	00 058 081	2.			
TYPE OF OPERATION	⊠ a. PBR-FTU □ b.	CA C] c. Other:			701.			
	II. ESTIMATED CLOSURE COSTS								
NOTE: In addition to the d	ollar figure below, a written estimat	e of closure costs m	ust be attached when you	u submit this .	section of this page.				
	ESTIM	ATED CLOSURE (COSTS: \$ 163,352			702.			
	III. EXEMPTION F	ROM FINANCI	IAL ASSURANCE	REQUIR	REMENTS				
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b. Specify other reas	075'					704.			
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MECHANISM TYPE	a. Closure Trust Fund	d. Closure Ins	surance		🗌 g. Multiple Financial Mechani	isms 709.			
(Check one item only)	b. Surety Bond	🗌 e. Financial t	est and Corporate Guara	ntee	h. Certificate of Deposit				
	\boxtimes c. Closure Letter of Credit	f. Alternative	ive Mechanism 🗌 i. Savings Account						
FINANCIAL INSTITUTIO	N, INSURANCE OR SURETY CO	MPANY/OTHER C	RGANIZATION			710.			
Bank of	America					711.			
ADDRESS One Fleet	Way					/11.			
CITY Scranton		712.	STATE PA	713.	ZIP CODE 18507-1999	714.			
	V. OWN	ER OR OPERA	ATOR CERTIFIC.	ATION					
SIGNER OF THIS CERTIF	SIGNER OF THIS CERTIFICATION 🛛 a. Owner 🖾 b. Operator 715.								
that qualified personnel p directly responsible for ga	law that this document and all attach roperly gather and evaluate the info thering the information, the informa- britting false information, including	ormation submitted. ation is, to the best of	Based on my inquiry of my knowledge and be	of the person elief, true, acc	n or persons who manage the syst curate and complete. I am aware t	tem, or those that there are			
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1 And	\`		7/29/2010						
	to i	717.							
NAME OF OWNER/OPER	ArOR (Print)		TITLE OF OWNER/C	DPERATOR .					
Dan Janowski	Dan Janowski Facilities Manager								

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FACILITY ID#		1.	FACILITY EPA ID#		000 058 081		2.			
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(Check one item only)	b. Surety Bond	e. Financial t	est and Corporate Guara	antee	h. Certificate o	of Deposit				
	C. Closure Letter of Credit	🗍 f. Alternative	ve Mechanism 🔲 i. Savings Account							
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Bank of	America									
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· ,	N4		ATOR CERTIFIC		· · · · · · · · · · · · · · · · · · ·		715.			
SIGNER OF THIS CERTI			b. Oper							
assure that qualified personal those directly responsible	f law that this document and all atta onnel properly gather and evaluate t for gathering the information, the i alties for submitting false informati	he information subrinformation is, to the	nitted. Based on my in he best of my knowledge	quiry of th e and belie	e person or persons f, true, accurate and	who manage the complete. I am	system, or aware that			
SIGNATURE OF OWNER	R/OPERATOR		DATE		,		716.			
251	~`		1/26/2010							
NAME OF OWNER/OPE	RATOR (Print)	717.	TITLE OF OWNER/	OPERATO	R		718.			
Dan Janowski	1				Facilities Manager					

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The information contained in this FAX message is intended only for the confidential use of the designated recipient named above. This message may contain contractual and proprietary information and as such is privileged and confidential. If the reader of this message is not the intended recipient or an agent responsible for delivering it to the intended recipient, you are hereby notified that you have received this document in error, and that any review, dissemination, distribution or copying of this message is strictly prohibited. If you received this fax in an area accessible to unauthorized individuals, please notify us immediately by telephone with an alternate fax location. If you have received this communication in error, please notify us immediately by telephone and return the message to us by mail.





PAGE: 1

DATE: MARCH 30, 2009

IRREVOCABLE STANDBY LETTER OF CREDIT NUMBER: 68026017 APPLICANT REFERENCE NUMBER: PNAS8

> ISSUING BANK BANK OF AMERICA, N.A. ONE FLEET WAY PA6-580-02-30 SCRANTON, PA 18507-1999

BENEFICIARY COUNTY OF SANTA CLARA DEPARTMENT OF ENVIRONMENTAL HEALTH HAZARDOUS MATERIALS COMPLIANCE DIVISION APPLICANT PHILIPS LUMILEDS LIGHTING COMPANY LLC 370 WEST TRIMBLE RD SAN JOSE, CA 95131

1555 BERGER DRIVE, SUITE 300 SAN JOSE, CA 95112-2716

AMOUNT NOT EXCEEDING USD 175,000.00 NOT EXCEEDING ONE HUNDRED SEVENTY FIVE THOUSAND AND 00/100'S US DOLLARS

EXPIRATION APRIL 1, 2010 AT OUR COUNTERS

DEAR SIR OR MADAM:

WE HEREBY ESTABLISH OUR IRREVOCABLE STANDBY LETTER OF CREDIT NO. 68026017 IN YOUR FAVOR AT THE REQUEST AND FOR THE ACCOUNT OF PHILIPS LUMILEDS LIGHTING COMPANY LLC, FOR THE PHILIPS LUMILEDS LIGHTING COMPANY FACILITY LOCATED AT 370 WEST TRIMBLE ROAD, SAN JOSE, CA 95131, UP TO THE AGGREGATE AMOUNT OF ONE HUNDRED SEVENTY FIVE THOUSAND AND 00/100 U.S. DOLLARS (\$175,000.00) AVAILABLE UPON PRESENTATION OF:

1. YOUR SIGHT DRAFT BEARING REFERENCE TO THIS LETTER OF CREDIT NO. 68026017, AND

2. YOUR SIGNED STATEMENT READING AS FOLLOWS: "I CERTIFY THAT THE AMOUNT OF THE DRAFT IS PAYABLE PURSUANT TO REGULATIONS ISSUED UNDER AUTHORITY OF THE CALIFORNIA HAZARDOUS WASTE CONTROL LAW."

WE ARE INFORMED THAT AN OWNER OR OPERATOR WHO USES A LETTER OF CREDIT TO SATISFY THE REQUIREMENTS OF CALIFORNIA CODE OF REGULATIONS, TITLE 22, DIVISION 4.5, CHAPTER 15, ARTICLE 8, AND CHAPTER 45, ARTICLE 1, SHALL ALSO ESTABLISH A STANDBY TRUST

ORIGINAL

BankofAmerica

BANK OF AMERICA - CONFIDENTIAL

PAGE: 2

THIS IS AN INTEGRAL PART OF LETTER OF CREDIT NUMBER: 68026017

AGREEMENT.

EACH DRAFT SHALL BE MARKED: "DRAWN UNDER BANK OF AMERICA, N.A. STANDBY LETTER OF CREDIT NO. 68026017 DATED MARCH 27, 2009".

EACH DRAFT SHALL ALSO BE ACCOMPANIED BY THE ORIGINAL OF THIS LETTER OF CREDIT UPON WHICH WE MAY ENDORSE OUR PAYMENT.

THIS LETTER OF CREDIT IS EFFECTIVE AS OF APRIL 1, 2009 AND SHALL EXPIRE ON APRIL 1, 2010, BUT SUCH EXPIRATION DATE SHALL BE AUTOMATICALLY EXTENDED FOR A PERIOD OF ONE YEAR ON APRIL 1, 2010 AND ON EACH SUCCESSIVE EXPIRATION DATE, UNLESS AT LEAST 120 DAYS BEFORE THE CURRENT EXPIRATION DATE, WE NOTIFY BOTH YOU AND PHILIPS LUMILEDS LIGHTING COMPANY BY CERTIFIED MAIL THAT WE HAVE DECIDED NOT TO EXTEND THIS LETTER OF CREDIT BEYOND THE CURRENT EXPIRATION DATE. IN THE EVENT YOU ARE SO NOTIFIED, ANY UNUSED PORTION OF THE CREDIT SHALL BE AVAILABLE UPON PRESENTATION OF YOUR SIGHT DRAFT FOR 120 DAYS AFTER THE DATE OF RECEIPT BY BOTH YOU AND PHILIPS LUMILEDS LIGHTING COMPANY, AS SHOWN ON THE SIGNED RETURN RECEIPTS.

WHENEVER THIS LETTER OF CREDIT IS DRAWN ON UNDER AND IN COMPLIANCE WITH THE TERMS OF THIS CREDIT, WE SHALL DULY HONOR SUCH DRAFT UPON PRESENTATION TO US, AND WE SHALL DEPOSIT THE AMOUNT OF THE DRAFT DIRECTLY INTO THE STANDBY TRUST FUND OF PHILIPS LUMILEDS LIGHTING COMPANY IN ACCORDANCE WITH YOUR INSTRUCTIONS.

WE CERTIFY THAT THE WORDING OF THIS LETTER OF CREDIT IS IDENTICAL TO THE WORDING SPECIFIED IN CALIFORNIA CODE OF REGULATIONS, TITLE 22, SECTION 66264.151, SUBSECTION (D) AND IS BEING EXECUTED IN ACCORDANCE WITH THE REQUIREMENTS OF CALIFORNIA CODE OF REGULATIONS, TITLE 22, DIVISION 4.5, CHAPTER 15, ARTICLE 8 AND SECTION 67450.13 ON THE DATE SHOWN BELOW.

THIS CREDIT IS SUBJECT TO THE MOST RECENT EDITION OF THE UNIFORM CUSTOMS AND PRACTICE FOR DOCUMENTARY CREDITS, PUBLISHED AND COPYRIGHTED BY THE INTERNATIONAL CHAMBER OF COMMERCE PARIS, FRANCE, PUBLICATION 600 (2007 REVISION).

BANK OF AMERICA, N.A.

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AUTHORIZAD SIGNATURE JOHN YZEIK, AVP MARCH 30, 2009

ORIGINAL



Philips Lumileds Lighting Company

370 West Trimble Road San Jose, California 95131

January 27, 2010

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Ms. Nicole Pullman County of Santa Clara Hazardous Materials Compliance Division 1555 Berger Drive, Suite 300 San Jose, CA 95112-2716



Subject: 2010 PBR Annual Renewal EPA ID# CAR 000 058 081

Dear Ms. Pullman:

The attached forms have been completed to comply with the 2010 annual notification and financial assurance requirements established by CCR Title 22, Section 67450.3 (c) for Philips Lumileds Lighting Company located at 370 West Trimble Road in San Jose, California.

If you have any questions regarding this submittal, please call me at (408) 964-2562.

Sincerely,

Matul

Mitch Cole Environmental Engineer

enclosure



Tel. +1 408 964 2562 Fax: +1 408 964 5358 mitchell.cole@philips.com www.philipslumileds.com www.luxeon.com







2009 APR - 1 AM 9: 32

PAGE: 1

BANK OF AMERICA - CONFIDENTIAL

DATE: MARCH 30, 2009

IRREVOCABLE STANDBY LETTER OF CREDIT NUMBER: 68026017 APPLICANT REFERENCE NUMBER: PNAS8

> ISSUING BANK BANK OF AMERICA, N.A. ONE FLEET WAY PA6-580-02-30 SCRANTON, PA 18507-1999

BENEFICIARY COUNTY OF SANTA CLARA DEPARTMENT OF ENVIRONMENTAL HEALTH HAZARDOUS MATERIALS COMPLIANCE DIVISION

APPLICANT PHILIPS LUMILEDS LIGHTING COMPANY LLC 370 WEST TRIMBLE RD SAN JOSE, CA 95131

1555 BERGER DRIVE, SUITE 300 SAN JOSE, CA 95112-2716

AMOUNT NOT EXCEEDING USD 175,000.00 NOT EXCEEDING ONE HUNDRED SEVENTY FIVE THOUSAND AND 00/100'S US DOLLARS

EXPIRATION APRIL 1, 2010 AT OUR COUNTERS

DEAR SIR OR MADAM:

WE HEREBY ESTABLISH OUR IRREVOCABLE STANDBY LETTER OF CREDIT NO. 68026017 IN YOUR FAVOR AT THE REQUEST AND FOR THE ACCOUNT OF PHILIPS LUMILEDS LIGHTING COMPANY LLC, FOR THE PHILIPS LUMILEDS LIGHTING COMPANY FACILITY LOCATED AT 370 WEST TRIMBLE ROAD, SAN JOSE, CA 95131, UP TO THE AGGREGATE AMOUNT OF ONE HUNDRED SEVENTY FIVE THOUSAND AND 00/100 U.S. DOLLARS (\$175,000.00) AVAILABLE UPON PRESENTATION OF:

1. YOUR SIGHT DRAFT BEARING REFERENCE TO THIS LETTER OF CREDIT NO. 68026017, AND

2. YOUR SIGNED STATEMENT READING AS FOLLOWS: "I CERTIFY THAT THE AMOUNT OF THE DRAFT IS PAYABLE PURSUANT TO REGULATIONS ISSUED UNDER AUTHORITY OF THE CALIFORNIA HAZARDOUS WASTE CONTROL LAW."

WE ARE INFORMED THAT AN OWNER OR OPERATOR WHO USES A LETTER OF CREDIT TO SATISFY THE REQUIREMENTS OF CALIFORNIA CODE OF REGULATIONS, TITLE 22, DIVISION 4.5, CHAPTER 15, ARTICLE 8, AND CHAPTER 45, ARTICLE 1, SHALL ALSO ESTABLISH A STANDBY TRUST



BANK OF AMERICA - CONFIDENTIAL

PAGE: 2

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AGREEMENT.

EACH DRAFT SHALL BE MARKED: "DRAWN UNDER BANK OF AMERICA, N.A. STANDBY LETTER OF CREDIT NO. 68026017 DATED MARCH 27, 2009".

EACH DRAFT SHALL ALSO BE ACCOMPANIED BY THE ORIGINAL OF THIS LETTER OF CREDIT UPON WHICH WE MAY ENDORSE OUR PAYMENT.

THIS LETTER OF CREDIT IS EFFECTIVE AS OF APRIL 1, 2009 AND SHALL EXPIRE ON APRIL 1, 2010, BUT SUCH EXPIRATION DATE SHALL BE AUTOMATICALLY EXTENDED FOR A PERIOD OF ONE YEAR ON APRIL 1, 2010 AND ON EACH SUCCESSIVE EXPIRATION DATE, UNLESS AT LEAST 120 DAYS BEFORE THE CURRENT EXPIRATION DATE, WE NOTIFY BOTH YOU AND PHILIPS LUMILEDS LIGHTING COMPANY BY CERTIFIED MAIL THAT WE HAVE DECIDED NOT TO EXTEND THIS LETTER OF CREDIT BEYOND THE CURRENT EXPIRATION DATE. IN THE EVENT YOU ARE SO NOTIFIED, ANY UNUSED PORTION OF THE CREDIT SHALL BE AVAILABLE UPON PRESENTATION OF YOUR SIGHT DRAFT FOR 120 DAYS AFTER THE DATE OF RECEIPT BY BOTH YOU AND PHILIPS LUMILEDS LIGHTING COMPANY, AS SHOWN ON THE SIGNED RETURN RECEIPTS.

WHENEVER THIS LETTER OF CREDIT IS DRAWN ON UNDER AND IN COMPLIANCE WITH THE TERMS OF THIS CREDIT, WE SHALL DULY HONOR SUCH DRAFT UPON PRESENTATION TO US, AND WE SHALL DEPOSIT THE AMOUNT OF THE DRAFT DIRECTLY INTO THE STANDBY TRUST FUND OF PHILIPS LUMILEDS LIGHTING COMPANY IN ACCORDANCE WITH YOUR INSTRUCTIONS.

WE CERTIFY THAT THE WORDING OF THIS LETTER OF CREDIT IS IDENTICAL TO THE WORDING SPECIFIED IN CALIFORNIA CODE OF REGULATIONS, TITLE 22, SECTION 66264.151, SUBSECTION (D) AND IS BEING EXECUTED IN ACCORDANCE WITH THE REQUIREMENTS OF CALIFORNIA CODE OF REGULATIONS, TITLE 22, DIVISION 4.5, CHAPTER 15, ARTICLE 8 AND SECTION 67450.13 ON THE DATE SHOWN BELOW.

THIS CREDIT IS SUBJECT TO THE MOST RECENT EDITION OF THE UNIFORM CUSTOMS AND PRACTICE FOR DOCUMENTARY CREDITS, PUBLISHED AND COPYRIGHTED BY THE INTERNATIONAL CHAMBER OF COMMERCE PARIS, FRANCE, PUBLICATION 600 (2007 REVISION).

BANK OF AMERICA, N.A.

INN

AUTHORIZED SIGNATURE JOHN YZEIK, AVP MARCH 30, 2009

" UNIFIED PROGRAM CONSOLIDATED FORM							
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CERTIFICATION OF FINANCIAL ASSURANCE							
FO	R PERMIT BY RULE AN	D CONDITION	NALLY AUTHOR	IZED ONSITE	TREATERS		
				700.			
a. Initial Certification b. Amended Certification C. Annual Certification Page							
			DENTIFICATION in next to the amended informa	tion)			
BUSINESS NAME (Same as	FACILITY NAME or DBA - Doing Business	As)				3.	
Philips Lumileds Ligh	ting Company						
FACILITY ID# 1. FACILITY EPA ID# CAR 000 058 081							
TYPE OF OPERATION	⊠ a. PBR-FTU □ b.		c. Other:			701.	
			CLOSURE COST				
NOTE: In addition to the							
	lollar figure below, a written estima.			ou suomii inis seciio	m oj this page.	702.	
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b. Specify other reas	0.000					704.	
□ c. As a PBR owner	or operator. I have not experted man	na than thirty days i	- a calandar waan (Da	e net en lu te Cons	liai	705.	
	or operator, I have not operated mor		ASSURANCE M				
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	OF CLOSURE ASSURANCE MEC		/08 707.	MECHANISMIE	NOMBER(3).		
MECHANISM TYPE	a. Closure Trust Fund	\square d. Closure In		Πσ	Multiple Financial Mechanisms	709.	
(Check one item only)	b. Surety Bond	_	est and Corporate Guara		Certificate of Deposit		
	\boxtimes c. Closure Letter of Credit	f. Alternative	-		Savings Account		
FINANCIAL INSTITUTIO	DN, INSURANCE OR SURETY CO					710.	
	, N.A. Agency and Trust Ser		ORGANIZATION				
						. 711.	
ADDRESS 388 Green	wich Street, 14 th Floor	712.		713.		714.	
CITY New York		/12.	STATE NY	ZIP CO	DDE 10013	/14.	
	V. OWNI	ER OR OPERA	TOR CERTIFIC	ATION			
SIGNER OF THIS CERTIN	FICATION 🛛 a. O	wner	🛛 b. Oper	rator		715.	
	law that this document and all atta nnel properly gather and evaluate th						
those directly responsible	for gathering the information, the i	nformation is, to th	e best of my knowledge	e and belief, true, a	ccurate and complete. I am awa	re that	
there are significant pena 66270.11)	lties for submitting false informati	on, including the p	possibility of fines and	imprisonment for l	tnowing violations. (22 CCR S	Section	
SIGNATURE OF OWNER	OPERATOR		DATE	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		716.	
1	H 1						
1000	rom		03/27/2009				
NAME OF OWNER/OPER	RATOR (Print)	717.	TITLE OF OWNER/	OPERATOR		718.	
Bob Method	Worldwide Facilities Manager						

1.1



April 3, 2009

Ms. Nicole Pullman County of Santa Clara Hazardous Materials Compliance Division 1555 Berger Drive, Suite 300 San Jose, CA 95112-2716



APR

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Philips Lumileds Lighting

PHILIPS

370 West Trimble Road San Jose, California 95131



Subject: 2009 PBR Annual Renewal Letter of Credit EPA ID# CAR 000 058 081

Dear Ms. Pullman:

Attached to this cover is the Letter of Credit in support of our Financial Assurance for closure of the two hazardous waste treatment systems on site: MPU-1, NS-1. This Letter of Credit, with Bank of America, is in conformance with the requirements outlined in the California Code of Regulations, Title 22, Section 67450.13 with the language specified under Section 66264.151 (d).

This supports the previous submission of Form HWF1232 sent in under a different cover dated 3/27/2009.

If you have any questions regarding this submittal, please call me at (408) 964-2562.

Sincerely,

Tur

Mitch Cole **Environmental Engineer**

enclosure



Tel. +1 408 964 2562 Fax: +1 408 964 5358 mitchell.cole@philips.com www.philipslumileds.com www.luxeon.com



Bank of America

BANK OF AMERICA - CONFIDENTIAL

PAGE: 1

DATE: MARCH 30, 2009

IRREVOCABLE STANDBY LETTER OF CREDIT NUMBER: 68026017 APPLICANT REFERENCE NUMBER: PNAS8

> ISSUING BANK BANK OF AMERICA, N.A. ONE FLEET WAY PA5-580-02-30 SCRANTON, PA 18507-1999

BENEFICIARY COUNTY OF SANTA CLARA DEPARTMENT OF ENVIRONMENTAL HEALTH

ENVIRONMENTAL HEALTH HAZARDOUS MATERIALS COMPLIANCE DIVISION APPLICANT PHILIPS LUMILEDS LIGHTING COMPANY LLC 370 WEST TRIMBLE RD SAN JOSE, CA 95131

1555 BERGER DRIVE, SUITE 300 SAN JOSE, CA 95112-2716

AMOUNT NOT EXCEEDING USD 175,000.00 NOT EXCEEDING ONE HUNDRED SEVENTY FIVE THOUSAND AND 00/100'S US DOLLARS

EXPIRATION APRIL 1, 2010 AT OUR COUNTERS

DEAR SIR OR MADAM:

WE HEREBY ESTABLISH OUR IRREVOCABLE STANDBY LETTER OF CREDIT NO. 58026017 IN YOUR FAVOR AT THE REQUEST AND FOR THE ACCOUNT OF PHILIPS LUMILEDS LIGHTING COMPANY LLC, FOR THE PHILIPS LUMILEDS LIGHTING COMPANY FACILITY LOCATED AT 370 WEST TRIMBLE ROAD, SAN JOSE, CA 95131, UP TO THE AGGREGATE AMOUNT OF ONE HUNDRED SEVENTY FIVE THOUSAND AND 00/100 U.S. DOLLARS (\$175,000.00) AVAILABLE UPON PRESENTATION OF:

1. YOUR SIGHT DRAFT BEARING REFERENCE TO THIS LETTER OF CREDIT NO. 68026017, AND

2. YOUR SIGNED STATEMENT READING AS FOLLOWS: "I CERTIFY THAT THE AMOUNT OF THE DRAFT IS PAYABLE PURSUANT TO REGULATIONS ISSUED UNDER AUTHORITY OF THE CALIFORNIA HAZARDOUS WASTE CONTROL LAN."

WE ARE INFORMED THAT AN OWNER OR OPERATOR WHO USES A LETTER OF CREDIT TO SATISFY THE REQUIREMENTS OF CALIFORNIA CODE OF REGULATIONS, TITLE 22, DIVISION 4.5, CHAPTER 15, ARTICLE 8, AND CHAPTER 45, ARTICLE 1, SHALL ALSO ESTABLISH A STANDBY TRUST

ORIGINAL

05-17-1486B 07-2000

Bank of America

BANK OF AMERICA - CONFIDENTIAL

PAGE: 2

THIS IS AN INTEGRAL PART OF LETTER OF CREDIT NUMBER: 68026017

AGREEMENT.

EACH DRAFT SHALL BE MARKED: "DRAWN UNDER BANK OF AMERICA, N.A. STANDBY LETTER OF CREDIT NO. 68026017 DATED MARCH 27, 2009".

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WHENEVER THIS LETTER OF CREDIT IS DRAWN ON UNDER AND IN COMPLIANCE WITH THE TERMS OF THIS CREDIT, WE SHALL DULY HONOR SUCH DRAFT UPON PRESENTATION TO US, AND WE SHALL DEPOSIT THE AMOUNT OF THE DRAFT DIRECTLY INTO THE STANDBY TRUST FUND OF PHILIPS LUMILEDS LIGHTING COMPANY IN ACCORDANCE WITH YOUR INSTRUCTIONS.

WE CERTIFY THAT THE WORDING OF THIS LETTER OF CREDIT IS IDENTICAL TO THE WORDING SPECIFIED IN CALIFORNIA CODE OF REGULATIONS, TITLE 22, SECTION 66264.151, SUBSECTION (D) AND IS BEING EXECUTED IN ACCORDANCE WITH THE REQUIREMENTS OF CALIFORNIA CODE OF REGULATIONS, TITLE 22, DIVISION 4.5, CHAPTER 15, ARTICLE 8 AND SECTION 67450.13 ON THE DATE SHOWN BELOW.

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BANK OF AMERICA, N.A.

AUTHORIZED SIGNATURE JOHN YZEIK, AVP MARCH 30, 2009

ORIGINAL





BNP PARIBAS ONE FRONT STREET 2009 MAR 23 PM 2:50 23RD FLOOR SAN FRANCISCO, CA 94111-5325

DATE: MARCH 20, 2009

AMENDMENT TO IRREVOCABLE LETTER OF CREDIT NO. 91888884

BENEFICIARY: DIRECTOR, COUNTY OF SANTA CLARA DEPARTMENT OF ENVIRONMENTAL HEALTH 1555 BERGER DR. SUITE 300 SAN JOSE, CA 95112-2716

DEAR SIRS:

OUR CLIENT, NOVELLUS SYSTEMS, INC., HAS REQUESTED US TO ADVISE YOU THAT STANDBY LETTER OF CREDIT NO. 91888884 ISSUED IN YOUR FAVOR FOR ACCOUNT OF THEMSELVES IS AMENDED AS FOLLOWS:

 THE LETTER OF CREDIT AMOUNT IS INCREASED BY USD2,084.00 THEREBY MAKING THE TOTAL VALUE NOW TO READ: USD 111,233.00 ((ONE HUNDRED ELEVEN THOUSAND TWO HUNDRED THIRTY THREE AND 00/100)
 THE LETTER OF CREDIT EXPIRATION DATE NOW READ: MARCH 31, 2010

ALL OTHER TERMS AND CONDITIONS REMAIN UNCHANGED.

BNP PARIBAS BY: BNP PARIBAS RCC, INC., AS AUTHORIZED AGENT

AUTHORIZED SIGNATURE

AUTHORIZED SIGNATURE

UNIFIED PROGRAM CONSOLIDATED FORM HAZARDOUS WASTE CERTIFICATION OF FINANCIAL ASSURANCE FOR PERMIT BY RULE AND CONDITIONALLY AUTHORIZED ONSITE TREATERS a. Initial Certification b. Amended Certification C. Annual Certification Page	3. 2. 701. 702. 703. 704.			
FOR PERMIT BY RULE AND CONDITIONALLY AUTHORIZED ONSITE TREATERS ⁷⁰⁰ a. Initial Certification b. Amended Certification C. Annual Certification Page of I. FACILITY IDENTIFICATION (Put an asterisk in the left margin next to the amended information) BUSINESS NAME (Same as FACILITY NAME or DBA - Doing Business As) Philips Lumileds Lighting Company 370 FACILITY EPA ID# CAR 000 058 081 TYPE OF OPERATION a. PBR-FTU b. CA c. Other: I. ESTIMATED CLOSURE COSTS NOTE: In addition to the dollar figure below, a written estimate of closure costs: \$ 155,938 II. EXEMPTION FROM FINANCIAL ASSURANCE REQUIREMENTS Iam not required to provide a mechanism because: a. I certify that my closure cost estimate is less than or equal to \$10,000, or b. Specify other reasons: b. Specify other reasons: Can observe cost estimate is less than or equal to \$10,000, or b. Specify other reasons: Can observe cost estimate is less than or equal to \$10,000, or b. Specify other reasons: Can observe cost estimate is less than or equal to \$10,000, or b. Specify other reasons: Can observe cost estimate is less than or equal to \$10,000, or Can observe cost estimate is less than or equal to \$10,000, or Can observe cost estimate is less than or equal to \$10,000, or Can observe cost estimate is less than or equal to \$10,000, or Can observe cost estimate is less than or equal to \$10,00	2. 701. 702. 703.			
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b. Specify other reasons:				
	704.			
	704.			
c. As a PBR owner or operator, I have not operated more than thirty days in a calendar year. (Does not apply to Conditional Authorization)	705.			
IV. CLOSURE FINANCIAL ASSURANCE MECHANISM	708.			
I am required to provide a mechanism and it is attached to this page.	708.			
EFFECTIVE DATE OF CLOSURE ASSURANCE MECHANISM: 01/01/08 01/01/08 MECHANISM TYPE a. Closure Trust Fund d. Closure Insurance g. Multiple Financial Mechanisms	709.			
(Check one item only) b. Surety Bond c. Financial test and Corporate Guarantee h. Certificate of Deposit				
\square c. Closure Letter of Credit \square f. Alternative Mechanism \square i. Savings Account				
FINANCIAL INSTITUTION, INSURANCE OR SURETY COMPANY/OTHER ORGANIZATION	710.			
Citibank, N.A. Agency and Trust Services				
ADDRESS 388 Greenwich Street, 14 th Floor	711.			
CITY New York 712. STATE NY 713. ZIP CODE 10013	714.			
V. OWNER OR OPERATOR CERTIFICATION				
SIGNER OF THIS CERTIFICATION 🛛 a. Owner 🖾 b. Operator	715.			
I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, those directly responsible for gathering the information, the information is, to the best of my knowledge and belief, true, accurate and complete. I am aware the there are significant penalties for submitting false information, including the possibility of fines and imprisonment for knowing violations. (22 CCR Section 66270.11)	. . .			
SIGNATURE OF OWNER/OPERATOR DATE	n, or that			
03/28/2008	n, or that			
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NAME OF OWNER/OPERATOR (Print) 717. TITLE OF OWNER/OPERATOR	n, or that ction			

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	FOR PERMIT BY RULE AN	D CONDITION	ALLY AUTHOR	IZED ON	ISITE TREATERS			
					700.	<u> </u>		
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		t an asterisk in the left margi	n next to the amended informati	ion)				
BUSINESS NAME (Sa	me as FACILITY NAME or DBA – Doing Business .	As)				3.		
Philips Lumileds I	ighting Company							
FACILITY ID#		1.	FACILITY EPA ID#	CAR 0	00 058 081	2.		
TYPE OF OPERATIO	N 🖾 a. PBR-FTU 🗌 b). CA	c. Other:		· · · · · ·	701.		
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NOTE: In addition to t					section of this page.			
NOTE: In addition to the dollar figure below, a written estimate of closure costs must be attached when you submit this section of this page.								
ESTIMATED CLOSURE COSTS: \$ 151,543 III. EXEMPTION FROM FINANCIAL ASSURANCE REQUIREMENTS								
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a. I certify that my closure cost estimate is less than or equal to \$10,000, or								
b. Specify other	b. Specify other reasons:							
□ c. As a PBR ow	mer or operator, I have not operated mor	re than thirty days in a	a calendar vear. (Does n	not apply to	Conditional Authorization)	705.		
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I am required to p	provide a mechanism and it is attached to		706.		IISM ID NUMBER(S):	708.		
	TE OF CLOSURE ASSURANCE MEC)6 707.	Account				
MECHANISM TYPE	a. Closure Trust Fund	d. Closure Ins	surance		g. Multiple Financial Mechanisms	709.		
(Check one item only)	b. Surety Bond	🗌 e. Financial te	test and Corporate Guarantee 🛛 h. Certificate of Deposit					
	c. Closure Letter of Credit	f. Alternative		⊠ i. Savings Account				
FINANCIAL INSTITU	JTION, INSURANCE OR SURETY CO	 OMPANY/OTHER O	RGANIZATION			710.		
	s Fargo Technology Banking G							
	Park Center Plaza 3 rd Floor	F		•		. 711.		
		712.		713.		714.		
CITY San' J	lose		STATE CA	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	ZIP CODE 95172			
	V. OWN	ER OR OPERA	TOR CERTIFIC.	ATION				
SIGNER OF THIS CE	RTIFICATION 🛛 a. (Owner	🛛 b. Oper	ator		715.		
that qualified person directly responsible for	y of law that this document and all attac nel properly gather and evaluate the ini- or gathering the information, the inform or submitting false information, includir	formation submitted. nation is, to the best of	Based on my inquiry of my knowledge and be	of the perso clief, true, ac	n or persons who manage the system, ccurate and complete. I am aware that	or those there are		
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alit	Am		03/30/2007					
NAME OF OWNER/C	OPERATOR (Print)	717.	TITLE OF OWNER/OPERATOR 718					
Bob Method	Bob Method Worldwide Facilities Manager					×.		

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UNIFIED PROGRAM CONSOLIDATED FORM HAZARDOUS WASTE							
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	(Put an asterisk in the left marg	gin next to the amended informat	ion)				
BUSINESS NAME (Same as FACILITY NAME or DBA –	Doing Business As)				3.		
Philips Lumileds Lighting Company							
FACILITY ID#	1.	FACILITY EPA ID#	CAR 000 058	081	2.		
TYPE OF OPERATION 🛛 a. PBR-FTU	□ b. CA □] c. Other:			701.		
	II. ESTIMATED	CLOSURE COST	S				
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ESTIMATED CLOSURE COSTS: \$ 150,000							
III. EXEMPTION FROM FINANCIAL ASSURANCE REQUIREMENTS							
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a. I certify that my closure cost estimate is	less than or equal to \$10,000, or				703.		
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b. Specify other reasons:					704.		
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c. As a PBR owner or operator, I have not	operated more than thirty days in	a calendar year. (Does r	not apply to Condition	al Authorization)	705.		
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I am required to provide a mechanism and it		706.	MECHANISM ID 1	UMBER(S):	708.		
EFFECTIVE DATE OF CLOSURE ASSUR		707.	Account# 33933				
MECHANISM TYPE a. Closure Trust				ultiple Financial Mechanism	709.		
(Check one item only) D. Surety Bond	—	test and Corporate Guara		ertificate of Deposit			
□ c. Closure Lette	_						
FINANCIAL INSTITUTION, INSURANCE OR				0	710.		
Wells Fargo Technology F							
					711.		
ADDRESS 121 Park Center Plaza 3 ⁴⁴	FIOOF 712.		713.		714.		
CITY San Jose	112.	STATE CA	ZIP COI	DE 95172	/14.		
	V. OWNER OR OPER	ATOR CERTIFIC	ATION				
SIGNER OF THIS CERTIFICATION 🛛 a. Owner 🖾 b. Operator							
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SIGNATURE OF OWNER/OPERATOR		DATE		(12 001100000000000000000000000000000000	716.		
1 1 Am	~	03/22/2006					
prof Three	717.				718.		
NAME OF OWNER/OPERATOR (Print)		TITLE OF OWNER/O					
Bob Method		Worldwide Facili	ties Manager				

UNIFIED PROGRAM CONSOLIDATED FORM HAZARDOUS WASTE CERTIFICATION OF FINANCIAL ASSURANCE FOR PERMIT BY RULE AND CONDITIONALLY AUTHORIZED ON SOUR OR STERRY 1:20							
🛛 a. Initial Certificatio	· I.	. FACILITY ID	c. Annual Certification ENTIFICATION in next to the amended informat		- 700. Page	of	
BUSINESS NAME (Same as	FACILITY NAME or DBA – Doing Business A	(s)				3.	
Lumileds Lighting U. FACILITY ID#	CAR 000 058 081						
TYPE OF OPERATION	a. PBR-FTU b.	CA 🗌	c. Other:			701.	
	II.	ESTIMATED	CLOSURE COST	S			
NOTE: In addition to the a	ollar figure below, a written estimat	e of closure costs mi	ist be attached when you	u submit this	section of this page.		
	ESTIMA	ATED CLOSURE C	osts: \$ 154,5120			702.	
	III. EXEMPTION FF			E REQUI	REMENTS		
a. I certify that my c	I am not required to provide a mechanism because: a. I certify that my closure cost estimate is less than or equal to \$10,000, or 703. b. Specify other reasons: 704.						
c. As a PBR owner	or operator, I have not operated more					705.	
	IV. CLOSUR	E FINANCIAL	ASSURANCE M	ECHANI	SM	708.	
	de a mechanism and it is attached to		707		ISM ID NUMBER(S):	708.	
	DF CLOSURE ASSURANCE MEC		005	I	·	. 709.	
MECHANISM TYPE	a. Closure Trust Fund	d. Closure Ins			g. Multiple Financial Mechan	isms	
(Check one item only)	b. Surety Bond	_	est and Corporate Guara	intee	h. Certificate of Deposit		
	Closure Letter of Credit	f. Alternative			i. Savings Account	710.	
	N, INSURANCE OR SURETY CO	MPANY/OTHER O	RGANIZATION				
Lumileds	Lighting U.S. LLC		·			711.	
ADDRESS 370 Wes	st Trimble Road						
CITY San Jose	;	712.	STATE CA	713.	ZIP CODE 95131	714.	
	V. OWN	ER OR OPERA	TOR CERTIFIC	ATION		715.	
SIGNER OF THIS CERTIFICATION a. Owner b. Operator b. Operator I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those directly responsible for gathering the information, the information is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fines and imprisonment for knowing violations. (22 CCR Section 66270.11)							
	SIGNATIONE OF OWNER/OPERATOR DATE 716.						
Kobell	Mate		10/26/0	, ,5			
NAME OF OWNER/OPER	RATOR (Print)	717.	TITLE OF OWNER/O	OPERATOR		718.	
Bob Method			Worldwide Facili	ities Mana	ger		

	IFIED PROGRAM COL ONSITE TIERED	PERM	AITTING	
	ERMIT BY RUL AND TREATMENT PI			ATIONS
606.			1.	(One page per treatment unit. Check all that apply)
UNIT ID# MPU-1	Facility ID# CAR 000 (058.0		Page of
 Aqueous wastes containing hexavalent chromium may Reduction of hexavalent chromium to trivalent chro a. both pH and addition of the reducing agent are auto 	y be treated by the following proce mium with sodium bisulfite, sodium	ss:		630. ate, ferrous sulfate, ferrous sulfide or sulfur dioxide provided
 Aqueous wastes containing metals listed in Title 22, C a. pH adjustment or neutralization. b. Precipitation or crystallization. c. Phase separation by filtration, centrifugation or graven defined and the second second	CR, Section 66261.24 (a)(2) and/or	□ g. □ h. □ i. □ j.	Plating the metal ont Electrodialysis Electrowinning or ele	o an electrode.
 Aqueous wastes with total organic carbon less than 10 8240 may be treated by the following technologies:: a. Phase separation by filtration, centrifugation or gravely b. Adsorption. c. Distillation. d. Biological processes conducted in tanks or containe e. Photodegradation using ultraviolet light, with or with f. Air stripping or steam stripping. 	rity settling, but excluding super criti	ical fluid	l extraction. anisms.	olatile organic compounds as measured by EPA Method
 Sludges, dusts, solid metal objects and metal working: be treated by the following technologies: a. Chemical stabilization using silicates and/or cement b. Physical processes which change only the physical point c. Drying to remove water. d. Separation based on differences in physical properties 	itious types of reactions. properties of the waste such as grindi	ing, shre		22, CCR, Section 66261.24 (a)(2) and/or fluoride salts may
 5. Alum, gypsum, lime, sulfur or phosphate sludges may a. Chemical stabilization using silicates and/or cement b. Drying to remove water. 		ologies:	Phase separation by f	filtration, centrifugation or gravity settling.
 6. Wastes identified in Title 22, CCR, Section 66261.120, following technologies: a. Chemical stabilization using silicates and/or cement b. Drying to remove water. c. Phase separation by filtration, centrifugation or gravely d. Screening to separate components based on size. e. Separation based on differences in physical properties 	itious types of reactions.		or special waste class	ification in Section 66261.122 may be treated by the
 7. Wastes, except asbestos, which have been classified by technologies: a. Chemical stabilization using silicates and/or cement 		□ c.	Phase separation by f	iection 66261.124, may be treated by the following filtration, centrifugation or gravity settling.
 b. Drying to remove water. 8. Inorganic acid or alkaline wastes may be treated by the adjustment or neutralization. 	ne following technology:	∐ d.	Magnetic separation.	
 Soils contaminated with metals listed in Title 22, CCR technologies: a. Chemical stabilization using silicates and/or cement b. Screening to separate components based on size. 		_	Bioaccumulative Toxic Magnetic separation.	· · ·
10. Used oil, unrefined oil waste, mixed oil, oil mixed with a. Phase separation by filtration, centrifugation or grave b. Distillation. c. Neutralization. d. Separation based on differences in physical properti e. Reverse osmosis. f. Biological processes conducted in tanks or containe	ity settling, but excluding super criti es such as size, magnetism or density	cal fluic y.	l extraction.	following technologies:
and which are not excluded from regulation may be to applicable requirements. a. Rinsing with a suitable liquid capable of dissolving	is, section 261.7 or inner liners rem reated by the following technologie or removing the hazardous constitue ding or puncturing, that change only	noved fr s provi nts whic	om empty containers ded the treated contai th the container held.	that once held hazardous waste or hazardous material
12. Multi-component resins may be treated by the following a. Mixing the resin components in accordance with the	manufacturer's instructions.			
 13. A waste stream technology combination certified by the Permit by Rule. Certified Technology Number: 				Satety Code as appropriate for authorization under

UN	IFIED PROGRAM CO	NSO	LIDATED FO	RM
Р	ONSITE TIERED ERMIT BY RUL			E
WASTE	AND TREATMENT P	ROC	ESS COMBIN	ATIONS (One page per treatment unit. Check all that apply
606.			1.	(ene page per reason and ener an unit appro
UNIT ID# NS-1	Facility ID# CAR 000		81	Page of
 Aqueous wastes containing hexavalent chromium ma Reduction of hexavalent chromium to trivalent chromium a. both pH and addition of the reducing agent are autor 	omium with sodium bisulfite, sodium		sulfite, sodium thiosu	630 lfate, ferrous sulfate, ferrous sulfide or sulfur dioxide provided
 Aqueous wastes containing metals listed in Title 22, C 		□ g. □ h.	Plating the metal of Electrodialysis	nto an electrode.
 c. Phase separation by filtration, centrifugation or gra d. Ion exchange. e. Reverse osmosis. f. Metallic replacement. 	vity settling.	□ i. □ j. □ k. □ l.	Electrowinning or of Chemical stabilizat Evaporation. Adsorption	electrolytic recovery tion using silicates and/or cementitious types of reactions.
 Aqueous wastes with total organic carbon less than 1 8240 may be treated by the following technologies:: a. Phase separation by filtration, centrifugation or grassing b. Adsorption. c. Distillation. d. Biological processes conducted in tanks or contained 	vity settling, but excluding super cri	tical fluid	l extraction.	volatile organic compounds as measured by EPA Method
 e. Photodegradation using ultraviolet light, with or wi f. Air stripping or steam stripping. 	thout the addition of hydrogen pero	xide or o	zone, provided the tre	eatment is conducted in an enclosed system.
 Sludges, dusts, solid metal objects and metal working be treated by the following technologies: a. Chemical stabilization using silicates and/or cennen b. Physical processes which change only the physical c. Drying to remove water. d. Separation based on differences in physical propert 	titious types of reactions. properties of the waste such as grind	ding, shro		e 22, CCR, Section 66261.24 (a)(2) and/or fluoride salts may ompacting.
 5. Alum, gypsum, lime, sulfur or phosphate sludges may a. Chemical stabilization using silicates and/or cemen b. Drying to remove water. 		ologies:	Phase separation by	y filtration, centrifugation or gravity settling.
 6. Wastes identified in Title 22, CCR, Section 66261.120 following technologies: a. Chemical stabilization using silicates and/or cemen b. Drying to remove water. c. Phase separation by filtration, centrifugation or grated and separation by filtration and separate components based on size. e. Separation based on differences in physical propert 	titious types of reactions.		for special waste cla	ssification in Section 66261.122 may be treated by the
 Wastes, except asbestos, which have been classified by technologies: 	y the Department as special waste	s pursua	nt to Title 22, CCR,	Section 66261.124, may be treated by the following
 a. Chemical stabilization using silicates and/or cemen b. Drying to remove water. 	titious types of reactions.	_	Phase separation by Magnetic separation	y filtration, centrifugation or gravity settling. n.
 Inorganic acid or alkaline wastes may be treated by t a. pH adjustment or neutralization. 	he following technology:			
9. Soils contaminated with metals listed in Title 22, CCI technologies:	R, Section 66261.24(a)(2), (Persiste	ent and E	Bioaccumulative Tox	tic Substances) may be treated by the following
 a. Chemical stabilization using silicates and/or cemen b. Screening to separate components based on size. 	titious types of reactions.	□ c.	Magnetic separation	n.
 10. Used oil, unrefined oil waste, mixed oil, oil mixed with a. Phase separation by filtration, centrifugation or gra b. Distillation. c. Neutralization. 				e following technologies:
 d. Separation based on differences in physical propert e. Reverse osmosis. f. Biological processes conducted in tanks or contained 			anienie	
 11. Containers of 110 gallons or less capacity which are r specified in Title 40 of the Code of Federal Regulation and which are not excluded from regulation may be t applicable requirements. a. Rinsing with a suitable liquid capable of dissolving 	not constructed of wood, paper, ca ns, section 261.7 or inner liners rei reated by the following technologi or removing the hazardous constitue nding or puncturing, that change onl	rdboard moved fr ies provi ents whic	, fabric, or any other om empty container ded the treated cont ch the container held.	rs that once held hazardous waste or hazardous material
12. Multi-component resins may be treated by the follow a. Mixing the resin components in accordance with the				
13. A waste stream technology combination certified by t Permit by Rule.				d Safety Code as appropriate for authorization under
Certified Technology Number				





Technology Banking Group Santa Clara Valley Region 121 Park Center Plaza, 3rd Floor P.O. Box 720010 San Jose, CA 95172

March 21, 2006

Philips Lumileds Lighting 370 W. Trimble Road, MS 91UP San Jose, CA 95131

Dear Mr. Timothy Lester:

RE: Account opening for the Benefit of CUPA

This letter serves as confirmation that Philips Lumileds Lighting opened a money market rate savings account on March 16, 2006, Philips Lumileds Lighting for the Benefit of CUPA account number 3393354885, with an initial deposit of \$150,000.00. This account is not encumbered or hypothecated.

Please let me know if you need additional information.

Regards,

Greg Cohn Vice President/Relationship Manager 408-277-6146





March 23, 2006

Ms. Nicole Pullman County of Santa Clara Hazardous Materials Compliance Division 1555 Berger Drive, Suite 300 San Jose, CA 95112-2716

Subject: 2006 PBR Annual Renewal EPA ID# CAR 000 058 081

Dear Ms. Pullman:

The attached forms have been completed to comply with the 2005 annual notification and financial assurance requirements established by CCR Title 22, Section 67450.3 (c) for Philips Lumileds Lighting Company located at 370 West Trimble Road in San Jose, California.

If you have any questions regarding this submittal, please call me at (408) 435-4205.

Sincerely,

Martoc

Mitch Cole Environmental Engineer

enclosure



Lumileds Lighting, LLC 370 West Trimble Road San Jose, CA 95131 USA (877) 298-9455 October 26, 2005

Director Department of Toxic Substance Control Financial Responsibility Unit P.O. BOX 806 Sacramento, CA 95812-0806

I am the Chief Financial Officer of Lumileds Lighting, 370 W. Trimble Road, San Jose, CA 95131.

A NEW WORLD OF LIGHT

This letter is in support of this company's use of the Financial Test to demonstrate financial assurance for closure and/or post-closure costs, as specified in California Code of Regulations (Cal. Code of Regs.), Title 22, Division 4.5, Chapter 14 and 15, Article 8.

 This company is the owner/operated of the following facilities/TTU's for which financial assurance for closure and/or post-closure costs is demonstrated through the Financial Test as specified in Sections 66264.143(f), 66264.145(f), 66265.143(e), and 66265.145(e) of Cal. Code of Regs., Title 22. Division 4.5, of Chapters 14 and 15, Article 8. The current closure and/or post-closure cost estimates covered by the test are shown for each facility/TTU: (See Exhibit 1).

Exhibit I

CLOSURE COST ESTIMATE FOR FIXED TREATMENT UNITS PER CCR 67450.13

Site Address	EPA ID#	EPA Region	Closure Cost Est.	Post-Closure Cost Est.
Lumileds Lighting, U.S. LLC 370 W. Trimble Road San Jose, CA 95131	CAR 000058081	9	\$154,512	N/A

- This company guarantees through the corporate guarantee as specified in Sections 66264.143(f). 66264.145(f), 66265.143(e), and 66265.145(e) of Cal.Code of Regs., Title 22, Division 4.5, of Chapters 14 and 15, Article 8, the closure and/or post closure care of the following facilities/TTUs owned or operated by subsidiaries of this company. The current cost estimates for the closure and/or post-closure cares so guaranteed are shown for each facility/TTU: (None).
- 3. In states where the U.S. Environmental Protection Agency is not administering the financial requirement of Subpart II, Title 40 CPR, Parts 264 and 265, this company, as owner, operator or guarantor is demonstrating financial assurance for closure and/or post-closure care of the following facilities/TTUs through the use of a test equivalent or substantially equivalent to the financial test specified Section 66264.143(f), 66264.145(f), and 66265.143(e), and 66265.145(e) of Cal. Code of Regs., Title 22, Division 4.5, of Chapters 14 and 15, Article 8. The current closure and/or post closure cost estimates covered by such a test are shown for each facility/TTU: (See Exhibit I).



LUMILEDS LIGHTING, LLC 370 W. TRIMBLE ROAD SAN JOSE, CA 95131 USA

Exhibit I

CLOSURE COST ESTIMATE FOR FIXED TREATMENT UNITS PER CCR 67450.13

Site Address	EPA ID#	EPA Regi on	Closure Cost Est.	Post-Closure Cost Est.
Lumileds Lighting, U.S. LLC 370 W. Trimble Road San Jose, CA 95131	CAT 000058081	9	\$154,512	N/A

- 4. This company is the owner or operator of the following facilities/TTUs for which financial assurance for closure or, if a disposal facility, post-closure care, is not demonstrated either to U.S. Environmental Protection Agency or a State through the financial test or any other Financial assurance mechanism as specified in Cal. Code. of Regs., Title 22, Division 4.5, of Chapters 14 and 15, Article 8 or equivalent or substantially equivalent State mechanisms. The current closure and/or post-closure cost estimates not covered by such financial assurance are shown for each facility/TTU: (None).
- This company is the owner or operator of the following Underground Injection Control facilities for which financial assurance for plugging and abandonment is required under 40 CFR Part 144. The current closure cost estimates are shown for each facility. (None).

This company is not required to file a Form 10-K with the Securities and Exchange Commission (SEC) for the latest fiscal year.

The fiscal year of this company ends on October 31. The figure for the following items marked with an asterisk are derived from this company's independently audited, year-end financial statement for the latest complete fiscal year, ended October 31, 2004.

This company is using Alternative 1. Please see attached worksheet (DTSC 1159).

Sincerely, Sales

Neil T. Bostock Chief Financial Officer Lumileds Lighting

ALTERNATIVEI - FISCAL YEAR 2004

1.	Sum of current closure and post-closure cost estimates [Total of all cost estimates shown in the paragraphs of the letter to the Director of the Department of Toxic Substances Control]	\$ 154,512
2.	Total liabilities [if any portion of the closure or post-closure cost estimates is included in total liabilities, you may deduct the amount of that portion from this line and add that amount to lines 3 and 4]	\$ 188, 529,000
3.	Tangible net worth	\$ 35, 539,000
4.	Net worth	\$ 35,539,000
5.	Current assets	\$ <u>121,581,000</u>
6.	Current liabilities	\$ 84,082,000
7.	Net working capital [line 5 minus line 6]	\$ <u>37,499,000</u>
8.	The sum of net income plus depreciation, depletion, and amortization	\$ <u>76,300,00</u> 0
9.	Total assets in the United States [required only if less than 90 percent of firm's assets are located in the United States]	\$ 152,749,000
10.	Is line 3 at least \$10 million?	X Yes 🗌 No
11.	Is line 3 at least 6 times line 1?	Yes 🗌 No
12.	Is line 7 at least 6 times line 1?	🗙 Yes 🗌 No
13.	Are at least 90 percent of the firm's assets located in the United States? If not, complete line 14.	🗌 Yes 🛛 No
14.	Is line 9 at least 6 times line 1?	X Yes 🗌 No
15.	Is line 2 divided by line 4 less than 2.0?	🗌 Yes 💢 No
16.	Is line 8 divided by line 2 greater than 0.1?	X Yes 🗌 No
17.	Is line 5 divided by line 6 greater than 1.5?	🗌 Yes 💢 No

I hereby certify that this letter is worded as specified by the Department of Toxic Substances Control and is being executed in accordance with the requirements of Cal. Code of Regs., Title 22, Division 4.5, Chapter 14 and 15, Article 8.

Signature

Controller proporate Title

Typed or Printed Name

10/25/05

Date

[Corporate Seal]



Consolidated Financial Statements

October 31, 2004 and 2003

(With Independent Auditors' Report Thereon)

Ta	ble	of	Con	tents
	~ ~ ~	•	U U II	

	Page
Independent Auditors' Report	1
Consolidated Balance Sheets	2
Consolidated Statements of Operations and Comprehensive Income	3
Consolidated Statements of Shareholders' Equity (Deficit)	4
Consolidated Statements of Cash Flows	5
Notes to Consolidated Financial Statements	6



KPMG LLP 500 E. Middlefield Road Mountain View, CA 94043

Independent Auditors' Report

The Board of Directors and Shareholders LumiLeds Lighting International B.V.:

We have audited the accompanying consolidated balance sheets of LumiLeds Lighting International B.V. and subsidiaries (the Company) as of October 31, 2004 and 2003, and the related consolidated statements of operations and comprehensive income, shareholders' equity (deficit), and cash flows for the years then ended. These consolidated financial statements are the responsibility of the Company's management. Our responsibility is to express an opinion on these consolidated financial statements based on our audits.

We conducted our audits in accordance with auditing standards generally accepted in the United States of America. Those standards require that we plan and perform the audit to obtain reasonable assurance about whether the financial statements are free of material misstatement. An audit includes consideration of internal control over financial reporting as a basis for designing audit procedures that are appropriate in the circumstances, but not for the purpose of expressing an opinion on the effectiveness of the Company's internal control over financial reporting. Accordingly, we express no such opinion. An audit includes examining, on a test basis, evidence supporting the amounts and disclosures in the financial statements. An audit also includes assessing the accounting principles used and significant estimates made by management, as well as evaluating the overall financial statement presentation. We believe that our audits provide a reasonable basis for our opinion.

In our opinion, the consolidated financial statements referred to above present fairly, in all material respects, the financial position of LumiLeds Lighting International B.V. and subsidiaries as of October 31, 2004 and 2003, and the results of their operations and their cash flows for the years then ended in conformity with accounting principles generally accepted in the United States of America.

PMG LLP

January 24, 2005, except of note 6 as to which the date is June 30, 2005.

Consolidated Balance Sheets

October 31, 2004 and 2003

(In thousands, except share data)

Current assets:\$ $44,142$ $13,099$ Accounts receivable, net of allowances for doubtful accounts of \$529 and \$1,651 as of October 31, 2004 and 2003, respectively $36,912$ $21,279$ Inventory $38,894$ $28,016$ Prepaid expenses and other current assets $1,314$ 589 Current deferred tax assets 319 $$ Total current assets $121,581$ $62,983$ Intangible assets, net 711 $$ Plant, equipment, and software, net $96,398$ $68,314$ Long-term deferred tax assets $2,578$ $$ Other noncurrent assets $2,278$ $$ Other noncurrent assets $2,278$ $$ Current liabilities and Shareholders' Equity (Deficit) $30,94$ $3,745$ Accounts payable $30,159$ $12,975$ Accounts payable $23,263$ $10,212$ Line of credit and accrued interest with shareholders $27,566$ $$ Total current liabilities 887 $-$ Line of credit and accrued interest with shareholders 500 $$ Total iabilities 887 $-$ Line of credit and accrued interest with shareholders 500 $$ Total liabilities 887 $-$ Line of credit and accrued interest with shareholders 500 $-$ Commitments and contingencies (note 7) $53areholders' equity (deficit)$ $20,352$ $20,280$ Additional paid-in capital $43,807$ $43,807$ $43,829$ Accumulated obter comprehensive income $1,31$	Assets	<u>.</u>	2004	2003	
Accounts receivable, net of allowances for doubtful accounts of \$529 and \$1,651 as of October 31, 2004 and 2003, respectively36,912 21,279 38,89421,279 1,314Inventory38,894 28,016Prepaid expenses and other current assets1,314 589 0Current deferred tax assets121,581 96,398Intangible assets, net711 96,398 0,398Intangible assets, net711 96,398 96,398Plant, equipment, and software, net96,398 96,398 2,578 2,578 0,ther noncurrent assetsOther noncurrent assets2,578 2,578 2,578Other noncurrent assets2,300 2,320Total assets2,24,068 30,159Liabilities and Shareholders' Equity (Deficit)Current liabilities30,159 23,263 30,159Current liabilities23,263 23,263 21,0212 21,2975 Line of credit and accrued interest with shareholdersTotal current liabilities84,082 26,932Long-term deferred tax liabilities tilties887 103,000 130,536Other noncurrent liabilities103,000 130,536Other noncurrent liabilities188,529 157,468Commitments and contingencies (note 7)Shareholders' equity (deficit): Common steck, ¼42,472,50U Additional paid-in capital Additional paid-in capital Accumulated deficit Accumulated deficit <td< td=""><td>Current assets:</td><td></td><td>,</td><td></td></td<>	Current assets:		,		
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and 2003, respectively $36,912$ $21,279$ Inventory $38,894$ $28,016$ Prepaid expenses and other current assets $1,314$ 589 Current deferred tax assets 319 $$ Total current assets $121,581$ $62,983$ Intangible assets, net 711 $-$ Plant, equipment, and software, net $96,398$ $68,314$ Long-term deferred tax assets $2,578$ $-$ Other noncurrent assets $2,800$ $-$ Total assets $2,24,068$ $131,297$ Liabilities and Shareholders' Equity (Deficit) $23,263$ $10,212$ Current liabilities $30,159$ $12,975$ Accrued liabilities $23,263$ $10,212$ Line of credit and accrued interest with shareholders $27,566$ $-$ Total current liabilities $84,082$ $26,932$ Long-term deferred tax liabilities 887 $-$ Line of credit and accrued interest with shareholders $103,000$ $130,536$ Other noncurrent liabilities $188,529$ $157,468$ Commitments and contingencies (note 7) 560 $-$ Shareholders' equity (deficit): $20,352$ $20,280$ Accurual ideficit $(29,935)$ $(91,537)$ Accurual deficit $(29,935)$ $(91,537)$ Accurual deficit $(29,935)$ $(91,537)$ Accurual deficit $(29,935)$ $(91,537)$ Accurual deficit $(29,935)$ $(26,171)$					
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Prepaid expenses and other current assets1,314589Current deferred tax assets319Total current assets121,58162,983Intangible assets, net711-Plant, equipment, and software, net96,39868,314Long-term deferred tax assets2,578-Other noncurrent assets2,800-Total assets2,800-Liabilities and Shareholders' Equity (Deficit)-Current liabilities:30,15912,975Accounds due to shareholders30,15912,975Accoured liabilities23,26310,212Line of credit and accrued interest with shareholders27,566-Total current liabilities887-Line of credit and accrued interest with shareholders103,000130,536Other noncurrent liabilities188,529157,468Commitments and contingencies (note 7)188,529157,468Shareholders' equity (deficit):20,35220,280Accumulated deficit(29,935)(91,537)Accumulated deficit(29,935)(91,537)Accumulated deficit(29,935)(91,537)Accumulated other comprehensive income1,3151,257Total shareholders' equity (deficit)35,539(26,171)	· ·				
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Liabilities and Shareholders' Equity (Deficit)Current liabilities: Amounts due to shareholders\$ 3,0943,745Accounts payable $30,159$ 12,975Accuel liabilities $23,263$ 10,212Line of credit and accrued interest with shareholders $27,566$ $-$ Total current liabilities 887 $-$ Line of credit and accrued interest with shareholders $103,000$ 130,536Other noncurrent liabilities 887 $-$ Total current liabilities 560 $-$ Total liabilities $103,000$ 130,536Other noncurrent liabilities 560 $-$ Total liabilities $188,529$ $157,468$ Commitments and contingencies (note 7) $5hareholders'$ equity (deficit): Common stock, $\frac{1}{2}2^{1}-2^{2}SDU^{2}YDOXHI^{2}$XWKRUL]HG^{2}-ff$ shares; issued and outstanding 194,114,835 and 193,374,003 shares as of October 31, 2004 and 2003, respectively $20,352$ $20,280$ Additional paid-in capital $43,807$ $43,827$ Accumulated deficit $(29,935)$ $(91,537)$ Accumulated other comprehensive income $1,315$ $1,257$ Total shareholders' equity (deficit) $35,539$ $(26,171)$					
Current liabilities: Amounts due to shareholders\$ 3,0943,745Accounts payable $30,159$ $12,975$ Accrued liabilities $23,263$ $10,212$ Line of credit and accrued interest with shareholders $27,566$ Total current liabilities $84,082$ $26,932$ Long-term deferred tax liabilities 887 Line of credit and accrued interest with shareholders $103,000$ $130,536$ Other noncurrent liabilities 560 Total liabilities $188,529$ $157,468$ Commitments and contingencies (note 7) $84,082$ $20,352$ Shareholders' equity (deficit): Common stock, $1421-27SDU^*YDOXHI^*$XWKRUL]HG^fishares; issued and outstanding 194,114,835 and 193,374,003shares as of October 31, 2004 and 2003, respectively20,35220,280Additional paid-in capital43,80743,829Accumulated deficit(29,935)(91,537)Accumulated deficit(29,935)(91,537)Accumulated other comprehensive income1,3151,257Total shareholders' equity (deficit)35,539(26,171)$	Total assets	\$	224,068	131,297	
Amounts due to shareholders\$ 3,094 $3,745$ Accounts payable $30,159$ $12,975$ Accrued liabilities $23,263$ $10,212$ Line of credit and accrued interest with shareholders $27,566$ Total current liabilities $84,082$ $26,932$ Long-term deferred tax liabilities 887 -Line of credit and accrued interest with shareholders $103,000$ $130,536$ Other noncurrent liabilities 560 Total liabilities $188,529$ $157,468$ Commitments and contingencies (note 7) $188,529$ $157,468$ Shareholders' equity (deficit): Common stock, $1/421-2^{\circ}$ SDU YDOXHF\$XWKRUL]HG^-ff shares; issued and outstanding 194,114,835 and 193,374,003 shares as of October 31, 2004 and 2003, respectively $20,352$ $20,280$ Additional paid-in capital Accumulated deficit (29,935) $(91,537)$ $43,807$ $43,829$ Accumulated other comprehensive income $1,315$ $1,257$ $1,257$ Total shareholders' equity (deficit) $35,539$ $(26,171)$	Liabilities and Shareholders' Equity (Deficit)				
Amounts due to shareholders\$ 3,094 $3,745$ Accounts payable $30,159$ $12,975$ Accrued liabilities $23,263$ $10,212$ Line of credit and accrued interest with shareholders $27,566$ Total current liabilities $84,082$ $26,932$ Long-term deferred tax liabilities 887 -Line of credit and accrued interest with shareholders $103,000$ $130,536$ Other noncurrent liabilities 560 Total liabilities $188,529$ $157,468$ Commitments and contingencies (note 7) $188,529$ $157,468$ Shareholders' equity (deficit): Common stock, $1/421-2^{\circ}$ SDU YDOXHF\$XWKRUL]HG^-ff shares; issued and outstanding 194,114,835 and 193,374,003 shares as of October 31, 2004 and 2003, respectively $20,352$ $20,280$ Additional paid-in capital Accumulated deficit (29,935) $(91,537)$ $43,807$ $43,829$ Accumulated other comprehensive income $1,315$ $1,257$ $1,257$ Total shareholders' equity (deficit) $35,539$ $(26,171)$	Current liabilities:				
Accounts payable $30,159$ $12,975$ Accrued liabilities $23,263$ $10,212$ Line of credit and accrued interest with shareholders $27,566$ Total current liabilities $84,082$ $26,932$ Long-term deferred tax liabilities 887 Line of credit and accrued interest with shareholders $103,000$ $130,536$ Other noncurrent liabilities 560 Total liabilities $188,529$ $157,468$ Commitments and contingencies (note 7) $188,529$ $157,468$ Shareholders' equity (deficit): common stock, $\frac{1}{421} - \frac{2}{5}$ SDU-YDOXHF\$XWKRUL]HG~-ff shares; issued and outstanding 194,114,835 and 193,374,003 shares as of October 31, 2004 and 2003, respectively $20,352$ $20,280$ Additional paid-in capital $43,807$ $43,829$ Accumulated deficit $(29,935)$ $(91,537)$ Accumulated other comprehensive income $1,315$ $1,257$ Total shareholders' equity (deficit) $35,539$ $(26,171)$	Amounts due to shareholders	\$	3,094	3,745	
Line of credit and accrued interest with shareholders $27,566$ Total current liabilities $84,082$ Long-term deferred tax liabilities 887 Line of credit and accrued interest with shareholders $103,000$ Other noncurrent liabilities $103,000$ Total liabilities 560 Total liabilities $188,529$ Istribution $157,468$ Commitments and contingencies (note 7)Shareholders' equity (deficit): Common stock, $\frac{1}{421} - \frac{2}{5}$ SDU"YDOXHI"\$XWKRUL]HG"-fi shares; issued and outstanding 194,114,835 and 193,374,003 shares as of October 31, 2004 and 2003, respectivelyAdditional paid-in capital Accumulated deficit $(29,935)$ Accumulated deficit Total shareholders' equity (deficit) $(29,935)$ Total shareholders' equity (deficit) $35,539$ Comprehensive income $1,315$ Total shareholders' equity (deficit)					
Total current liabilities $84,082$ $26,932$ Long-term deferred tax liabilities 887 Line of credit and accrued interest with shareholders $103,000$ $130,536$ Other noncurrent liabilities 560 Total liabilities $188,529$ $157,468$ Commitments and contingencies (note 7) $188,529$ $157,468$ Shareholders' equity (deficit):Common stock, $\frac{1}{4}\frac{2}{7}$ SDU YDOXHF \$XWKRUL]HG -fi 8877 shares; issued and outstanding 194,114,835 and 193,374,003 $20,352$ $20,280$ Additional paid-in capital $43,807$ $43,829$ Accumulated deficit(29,935)(91,537)Accumulated other comprehensive income $1,315$ $1,257$ Total shareholders' equity (deficit) $35,539$ $(26,171)$			23,263	10,212	
Long-term deferred tax liabilities 887 -Line of credit and accrued interest with shareholders $103,000$ $130,536$ Other noncurrent liabilities $103,000$ $130,536$ Total liabilities 560 -Total liabilities $188,529$ $157,468$ Commitments and contingencies (note 7) $188,529$ $157,468$ Shareholders' equity (deficit):Common stock, $\frac{1}{421}$ - $\frac{2}{5}$ SDU ⁻ YDOXHI ⁻ \$XWKRUL]HG ⁻ -fi $20,352$ $20,280$ Additional paid-in capital $43,807$ $43,829$ Accumulated deficit $(29,935)$ $(91,537)$ Accumulated other comprehensive income $1,315$ $1,257$ Total shareholders' equity (deficit) $35,539$ $(26,171)$	Line of credit and accrued interest with shareholders		27,566		
Line of credit and accrued interest with shareholders $103,000$ $130,536$ Other noncurrent liabilities 560 $-$ Total liabilities $188,529$ $157,468$ Commitments and contingencies (note 7) $188,529$ $157,468$ Shareholders' equity (deficit): Common stock, $\frac{1}{2}$ SDU YDOXH $\frac{5}{2}$ SWKRUL]HG $-$ fi shares; issued and outstanding 194,114,835 and 193,374,003 shares as of October 31, 2004 and 2003, respectively $20,352$ $20,280$ Additional paid-in capital $43,807$ $43,829$ Accumulated deficit $(29,935)$ $(91,537)$ Accumulated other comprehensive income $1,315$ $1,257$ Total shareholders' equity (deficit) $35,539$ $(26,171)$	Total current liabilities		84,082	26,932	
Other noncurrent liabilities560Total liabilities188,529Commitments and contingencies (note 7)Shareholders' equity (deficit): Common stock, ¼žł-ž~SDU~YDOXHł~\$XWKRUL]HG~-ff shares; issued and outstanding 194,114,835 and 193,374,003 shares as of October 31, 2004 and 2003, respectivelyAdditional paid-in capital Accumulated deficit20,352Accumulated deficit 1,315(29,935)Total shareholders' equity (deficit)35,539Total shareholders' equity (deficit)35,539Accumulated other comprehensive income1,315Shareholders' equity (deficit)35,539Accumulated other comprehensive income1,315Total shareholders' equity (deficit)35,539Accumulated other comprehensive income1,315Accumulated other comprehensive income<	Long-term deferred tax liabilities		887		
Total liabilities188,529157,468Commitments and contingencies (note 7)Shareholders' equity (deficit): Common stock, ¼žł-ž~SDU~YDOXHł~\$XWKRUL]HG~-fi shares; issued and outstanding 194,114,835 and 193,374,003 shares as of October 31, 2004 and 2003, respectively20,35220,280Additional paid-in capital Accumulated deficit Accumulated other comprehensive income43,80743,829Item to the comprehensive income1,3151,257Total shareholders' equity (deficit)35,539(26,171)	Line of credit and accrued interest with shareholders		103,000	130,536	
Commitments and contingencies (note 7)Shareholders' equity (deficit): Common stock, ¼žł-ž°SDU~YDOXHł°\$XWKRUL]HG~-fi shares; issued and outstanding 194,114,835 and 193,374,003 shares as of October 31, 2004 and 2003, respectively20,352 20,280 43,807 43,829 43,807 43,829 Accumulated deficit Accumulated other comprehensive income Total shareholders' equity (deficit)20,352 193,539 (26,171)	Other noncurrent liabilities		560		
Shareholders' equity (deficit): Common stock, ¼žł-ž SDU~YDOXHł \$XWKRUL]HG~-fi shares; issued and outstanding 194,114,835 and 193,374,003 shares as of October 31, 2004 and 2003, respectively20,352 20,280 43,80720,280 43,829 43,807Additional paid-in capital Accumulated deficit Accumulated other comprehensive income(29,935) 1,315(91,537) 1,257Total shareholders' equity (deficit)35,539(26,171)	Total liabilities		188,529	157,468	
Common stock, ¼žł-ž~SDU~YDOXHł~\$XWKRUL]HG~-fi shares; issued and outstanding 194,114,835 and 193,374,003 shares as of October 31, 2004 and 2003, respectively20,35220,280Additional paid-in capital43,80743,829Accumulated deficit(29,935)(91,537)Accumulated other comprehensive income1,3151,257Total shareholders' equity (deficit)35,539(26,171)	Commitments and contingencies (note 7)				
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shares as of October 31, 2004 and 2003, respectively $20,352$ $20,280$ Additional paid-in capital $43,807$ $43,829$ Accumulated deficit $(29,935)$ $(91,537)$ Accumulated other comprehensive income $1,315$ $1,257$ Total shareholders' equity (deficit) $35,539$ $(26,171)$					
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Accumulated deficit(29,935)(91,537)Accumulated other comprehensive income1,3151,257Total shareholders' equity (deficit)35,539(26,171)					
Accumulated other comprehensive income(21,057)Total shareholders' equity (deficit)35,539(26,171)					
Total shareholders' equity (deficit)35,539(26,171)					
	-	·		1,25/	
Total liabilities and shareholders' equity (deficit)\$ 224,068131,297	Total shareholders' equity (deficit)		35,539	(26,171)	
	Total liabilities and shareholders' equity (deficit)	\$	224,068	131,297	

See accompanying notes to consolidated financial statements.

Consolidated Statements of Operations and Comprehensive Income

Years ended October 31, 2004 and 2003

(In thousands)

	2004	2003
Net revenue from:		
Third parties	\$ 237,204	168,496
Agilent Technologies, Inc.	 43,202	26,300
Total net revenue	280,406	194,796
Cost of revenue	 141,728	114,505
Gross profit	 138,678	80,291
Operating expenses:	·	
Research and development	45,260	32,362
Sales and marketing	19,531	13,749
General and administrative	 9,123	8,877
Total operating expenses	 73,914	54,988
Income from operations	64,764	25,303
Interest expense, net	2,554	2,969
Other expense, net	1,053	983
Income taxes	 (445)	
Net income	61,602	21,351
Other comprehensive income (loss):		
Foreign currency translation adjustment	664	1,227
Deferred loss on foreign currency exchange contracts	 (606)	(369)
Comprehensive income	\$ 61,660	22,209

See accompanying notes to consolidated financial statements.

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Consolidated Statements of Shareholders' Equity (Deficit)

Years ended October 31, 2004 and 2003

(In thousands, except share data)

	Commo	on stock	Additional paid-in	Accumulated	Accumulated other comprehensive	Total shareholders'
	Shares	Amount	capital	deficit	income (loss)	equity (deficit)
Balances as of October 31, 2002	193,203,232 \$	5 20,263	43,732	(112,888)	399	(48,494)
Exercise of stock options	263,691	. 97	326			423
Repurchase of common stock	(92,920)	(80)	(229)			(309)
Foreign currency translation adjustment					1,227	1,227
Deferred losses on derivatives qualifying as hedges					(369)	(369)
Net income				21,351	·	21,351
Balances as of October 31, 2003	193,374,003	20,280	43,829	(91,537)	1,257	(26,171)
Exercise of stock options	1,214,733	118	1,641		_	1,759
Repurchase of common stock	(473,901)	(46)	(1,663)	—		(1,709)
Foreign currency translation adjustment		_			664	664
Deferred losses on derivatives qualifying as hedges					(606)	(606)
Net income				61,602		61,602
Balances as of October 31, 2004	194,114,835 \$	20,352	43,807	(29,935)	1,315	35,539

See accompanying notes to consolidated financial statements.

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Consolidated Statements of Cash Flows

Years ended October 31, 2004 and 2003

(In thousands)

	<u></u>	2004	2003
Cash flows from operating activities:			
Net income	\$	61,602	21,351
Adjustments to reconcile net income to net cash			
provided by operating activities:			
Depreciation and amortization		14,698	14,469
Loss on disposal of fixed assets		794	989
Noncash interest expense		2,698	2,711
Changes in operating assets and liabilities:			
Accounts receivable, net		(15,633)	(3,439)
Inventory		(10,878)	(1,482)
Prepaid expenses and other assets		(3,525)	218
Deferred tax assets		(2,897)	
Amounts due to shareholders		(651)	89
Accounts payable		17,184	2,674
Accrued liabilities		13,051	2,059
Deferred tax liabilities		887	
Other noncurrent liabilities		560	
Net cash provided by operating activities		77,890	39,639
Cash flows from investing activities:			
Purchases of plant, equipment, and software		(43,520)	(16,057)
Purchase of intangible assets		(775)	. —
Proceeds from sale of fixed assets		8	212
Net cash used in investing activities		(44,287)	(15,845)
Cash flows from financing activities:			
Proceeds from line of credit with shareholders			2,300
Repayment of line of credit with shareholders		(2,668)	(18,000)
Proceeds from issuance of common stock, net of repurchases		50	114
Net cash used in financing activities		(2,618)	(15,586)
Effect of exchange rate change on cash		58	858
Net increase in cash and cash equivalents		` 31,043	9,066
Cash and cash equivalents at beginning of year		13,099	4,033
Cash and cash equivalents at end of year	\$	44,142	13,099
Supplemental disclosures of cash flow information: Cash paid during the year: Foreign withholding taxes	\$	496	494

See accompanying notes to consolidated financial statements.

Notes to Consolidated Financial Statements

October 31, 2004 and 2003

(1) Company Overview and Basis of Presentation

LumiLeds Lighting International B.V. is a Dutch corporation that is owned by Koninklijke Philips Electronics N.V. (Philips), a Netherlands corporation, and Agilent Technologies, Inc. (Agilent), a U.S. corporation. LumiLeds Lighting International B.V. and its wholly owned subsidiaries, LumiLeds Lighting U.S., LLC (a Delaware limited liability company), LumiLeds Lighting Sdn. Bhd. (a Malaysian company), LumiLeds Lighting Deutschland GmbH (a German company), LumiLeds Lighting Netherlands BV (a Dutch company), LumiLeds Lighting France Sarl (a French company), LumiLeds Lighting Ltd. (a UK company), LumiLeds Lighting Singapore Pte Ltd. (a Singaporean company), LumiLeds Lighting ItaliaSpa (an Italian company), and LumiLeds Lighting Korea, Inc (a Korean company) (collectively referred to herein as the Company), develop, manufacture, and market semiconductor devices known as "light emitting diodes," or LEDs. An LED is a solid-state semiconductor device that emits a single color of light. Revenues are derived from the sale of LEDs of various colors to the automotive, traffic signal, and signage industries, as well as to a variety of original equipment manufacturers. The primary purpose of the Company is to drive the adoption of LED technology in commercial and lighting applications.

(2) Summary of Significant Accounting Policies and Practices

(a) **Principles of Consolidation**

The consolidated financial statements of the Company include the accounts of LumiLeds Lighting International B.V. and its wholly owned subsidiaries. All significant intercompany balances and transactions have been eliminated in consolidation.

(b) Use of Estimates

The preparation of the consolidated financial statements requires management of the Company to make a number of estimates and assumptions relating to the reported amount of assets and liabilities and the disclosure of contingent assets and liabilities at the date of the consolidated financial statements and the reported amounts of revenues and expenses during the period. Significant items subject to such estimates and assumptions include the carrying amount of plant, equipment, and software; valuation allowances for receivables, inventories, and deferred income tax assets; and product warranty liabilities. Actual results could differ from those estimates.

(c) Foreign Currency Translation

The Company's U.S., Malaysian, and Singaporean subsidiaries and its Dutch headquarters use the U.S. dollar as the functional and reporting currency, while the Company's European operating subsidiaries use the Euro as their functional currency. Foreign currency assets and liabilities of entities using the U.S. dollar as their functional currency are remeasured into U.S. dollars at end-of-period exchange rates, except for inventory, plant, and equipment and other assets, which are remeasured at historical exchange rates.

For the Company's European subsidiaries that use the Euro as their functional currency, all assets and liabilities are translated into U.S. dollars at end-of-period exchange rates. Cumulative gains and losses from the translation of the foreign subsidiaries' financial statements that used the Euro as their functional currency have been included in accumulated other comprehensive income (loss) within shareholders' equity (deficit).

Notes to Consolidated Financial Statements

October 31, 2004 and 2003

Revenue and expenses for all non-U.S. entities are remeasured at average exchange rates in effect during each period, except for those expenses related to balance sheet items for those subsidiaries using the U.S. dollar as their functional currency, which are remeasured at historical exchange rates. Exchange gains and losses arising from remeasurement adjustments for foreign operations have the U.S. dollar as the functional currency and are included in earnings. Gains or losses from foreign currency transactions and remeasurement adjustments are included in other income (expense), net and amounted to a net loss of \$2,440,336 and \$568,000 for the years ended October 31, 2004 and 2003, respectively.

(d) Cash and Cash Equivalents

The Company considers all highly liquid investments with an original maturity of three months or less to be cash equivalents.

(e) Accounts Receivable

Accounts receivable are recorded at the invoiced amount and do not bear interest. The allowance for doubtful accounts is the Company's best estimate of the amount of probable credit losses in the Company's existing accounts receivable. The Company determines the allowance based on historical write-off experience by industry. The Company reviews its allowance for doubtful accounts monthly. Significantly past due balances are reviewed individually for collectibility. All other balances are reviewed on a pooled basis. Account balances are charged off against the allowance after all means of collection have been exhausted and the potential for recovery is considered remote. The Company does not have any off-balance-sheet credit exposure related to its customers.

(f) Fair Value of Financial Instruments

The Company's financial instruments, including cash and cash equivalents, accounts receivable, accounts payable, and accrued expenses, are carried at cost, which approximates fair value. The carrying values of the Company's borrowings approximate their fair values given their market rates of interest at the date of the borrowing and maturity schedules. The Company does not hold or issue financial instruments for trading purposes.

(g) Concentration of Credit Risk

Financial instruments that potentially subject the Company to concentrations of credit risk consist primarily of cash and cash equivalents and accounts receivable. The Company deposits cash and cash equivalents with high-credit quality financial institutions. The Company performs ongoing credit evaluations of its customers' financial condition, and requires collateral, such as a letter of credit or bank guarantees, in certain circumstances.

Future Electronics and Agilent accounted for 26% and 19%, respectively, of accounts receivable as of October 31, 2004. Future Electronics and Agilent accounted for 20% and 14%, respectively, of accounts receivable as of October 31, 2003. Future Electronics accounted for 28% and 20% of net revenues, and Agilent accounted for 15% and 15% of net revenues during the years ended October 31, 2004 and 2003, respectively.

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Notes to Consolidated Financial Statements

October 31, 2004 and 2003

(h) Revenue Recognition

Revenue from product sales, net of trade discounts and allowances, is recognized once delivery has occurred, provided that persuasive evidence of an arrangement exists, the price is fixed or determinable, and collectibility is reasonably assured. Delivery is considered to have occurred when title and risk of loss have transferred to the customer, generally at the time of shipment. Provisions are established for estimated costs that may be incurred for product warranties and post-sales support.

(i) Inventory

Inventory is stated at the lower of cost or market; cost is determined on a first-in, first-out basis, and includes materials, labor, and manufacturing overhead.

(j) Plant, Equipment, and Software

Plant, equipment, and software are stated at cost, less accumulated depreciation. Depreciation is computed using the straight-line method over the estimated useful lives of the assets, generally 3 to 10 years, or the shorter of the useful life or the lease term for leasehold improvements. Ordinary maintenance and repairs are charged to expense as incurred, and major improvements are capitalized.

(k) Impairment of Long-Lived Assets

In accordance with Statement of Financial Accounting Standards (SFAS) No. 144, long-lived assets, such as plant, equipment, and software and purchased intangibles subject to amortization, are reviewed for impairment whenever events or changes in circumstances indicate that the carrying amount of an asset may not be recoverable. Recoverability of assets to be held and used is measured by a comparison of the carrying amount of an asset to estimated undiscounted future cash flows expected to be generated by the asset. If the carrying amount of an asset exceeds its estimated future cash flows, an impairment charge is recognized by the amount by which the carrying amount of the asset exceeds the fair value of the asset. Assets to be disposed of would be separately presented in the consolidated balance sheet and reported at the lower of the carrying amount or fair value less costs to sell, and are no longer depreciated. The assets and liabilities of a disposed group classified as held for sale would be presented separately in the appropriate asset and liability sections of the consolidated balance sheet.

(1) Research and Development Costs

Costs relating to research and development are charged to expense as incurred.

Notes to Consolidated Financial Statements

October 31, 2004 and 2003

(m) Stock-Based Compensation

The Company applies the intrinsic-value-based method of accounting prescribed by Accounting Principles Board (APB) Opinion No. 25, Accounting for Stock Issued to Employees, and related interpretations including Financial Accounting Standards Board (FASB) Interpretation (FIN) No. 44, Accounting for Certain Transactions Involving Stock Compensation, an Interpretation of APB Opinion No. 25, issued in March 2000, to account for its fixed-plan stock options. Under this method, compensation expense is recorded on the date of grant only if the current market price of the underlying stock exceeded the exercise price. SFAS No. 123, Accounting for Stock-Based Compensation, established accounting and disclosure requirements using a fair-value-based method of accounting for stock-based employee compensation plans. As allowed by SFAS No. 123, the Company has elected to continue to apply the intrinsic-value-based method of accounting described above, and has adopted only the disclosure requirements of SFAS No. 123.

The following table illustrates the effect on net income if the fair-value-based method had been applied to all outstanding and unvested awards in each year:

	•	2004	2003
Net income, as reported	\$	61,602	21,351
Add stock-based employee compensation expense included in reported net income, net of tax			
Deduct total stock-based employee compensation expense determine under fair-value-based method			
for all rewards, net of tax		(1,363)	(1,135)
Pro forma net income	\$	60,239	20,216

(n) Income Taxes

The Company accounts for income taxes under the liability method. Under this method, deferred tax assets and liabilities are determined based on the difference between the financial statement and tax bases of assets and liabilities using enacted tax rates in effect for the year in which the differences are expected to affect taxable income. Valuation allowances are established when necessary to reduce deferred tax assets to amounts expected to be realized. The Company's subsidiary, Lumileds Lighting U.S., LLC, is a U.S. income tax transparent entity and the tax attributes for Lumileds Lighting U.S., LLC are passed through to the Company's shareholders, Philips and Agilent.

(o) Comprehensive Income

Comprehensive income (loss) is the change in shareholders' equity (deficit) during a period from transactions and other events and circumstances from nonowner sources, and includes all changes in equity during a period except those resulting from investments by owners and distributions to owners. The components of comprehensive income for the Company consist of its net income and foreign currency translation adjustments and deferred losses on foreign currency exchange contracts.

9

Notes to Consolidated Financial Statements

October 31, 2004 and 2003

(p) Derivative Instruments and Hedging Activities

On January 1, 2001, the Company adopted SFAS No. 133, Accounting for Derivative Instruments and Certain Hedging Activities, and SFAS No. 138, Accounting for Certain Derivative Instruments and Certain Hedging Activities, an Amendment of SFAS 133. SFAS Nos. 133 and 138 require that all derivative instruments be recorded on the balance sheet at their respective fair values.

In fiscal 2003, the Company began to use foreign exchange contracts to hedge existing foreign exchange exposures related to the Euro. Foreign currency contracts require the Company, at a future date, to either buy or sell foreign currency in exchange for U.S. dollars. Foreign currency exchange contracts are accounted for as hedges to the extent they are designated, and are effective, as hedges of firm or forecasted foreign currency commitments. Changes in the fair value of foreign currency exchange contracts accounted for as hedges are deferred in accumulated other comprehensive income (loss) and are recognized in earnings as the hedged transactions occur. Foreign currency exchange contracts not designated as hedges under SFAS No. 133 are recorded at their fair values with changes to the fair values recognized in current earnings.

The fair value of the Company's foreign currency exchange contracts as of October 31, 2004 was a liability to the Company of \$975,000. The fair value of the foreign currency exchange contracts represents the amount to be exchanged if the existing contracts were settled as of October 31, 2004 and is based on market quotes provided by the financial institution who is the counterparty to the Company's foreign currency exchange contracts. As of October 31, 2004, the Company's foreign currency exchange contracts. As of October 31, 2004, the Company's foreign currency exchange contracts amount of approximately \$10,545,500 and had maturity dates through January 2005. The notional amounts do not necessarily quantify risk or represent assets or liabilities of the Company, but are used in the calculation of cash settlements under the foreign currency exchange contracts.

(q) Accounting for Asset Retirement Obligations

The Company adopted SFAS No. 143, Accounting for Asset Retirement Obligations, in fiscal 2003 which addresses financial accounting and reporting for obligations associated with the retirement of tangible long-lived assets and the associated asset retirement costs. The standard applies to legal obligations associated with the retirement of long-lived assets that result from the acquisition, construction, development; and/or normal use of the assets. SFAS No. 143 requires that the fair value of a liability for an asset retirement obligation be recognized in the period in which it is incurred if a reasonable estimate of fair value can be made. The fair value of the liability is added to the carrying amount of the associated asset and this additional carrying amount is depreciated over the life of the asset. The adoption of SFAS No. 143 did not have a material impact to the Company's consolidated financial statements.

(r) Guarantees

FASB Interpretation (FIN) No. 45, *Guarantor's Accounting and Disclosure Requirements for Guarantees, Including Indirect Guarantees of Indebtedness of Others*, requires that upon issuance of a guarantee, the guarantor must recognize a liability for the fair value of the obligation it assumes under the guarantee. In addition, FIN No. 45 requires disclosures about the guarantees that an entity has issued, including a rollforward of the entity's product warranty liabilities.

Notes to Consolidated Financial Statements

October 31; 2004 and 2003

The Company warrants its products for one year, except for backlighting products which have a 22-month warranty period. The Company records the estimated probable product warranty costs at the time revenue is recognized. Factors that affect the warranty liability include historical and anticipated rates of warranty product returns, material usage, and service costs. The Company assesses the adequacy of the warranty accrual periodically and adjusts the accrued warranty liability on the basis of these estimates. Changes in the accrued warranty liability for the years ended October 31, 2004 and 2003 are as follows (in thousands):

	 2004	2003
Beginning balance	\$ 1,431	1,074
Warranties issued Claims made Reserve adjustment	 420 (530) (546)	674 (317)
Ending balance	\$ 775	1,431

In connection with certain agreements that the Company has executed in the past, the Company has at times provided indemnities to cover the indemnified party for matters such as product and employee liabilities. The Company has also on occasion included intellectual property indemnification provisions in the terms of the Company's technology-related agreements with third parties. Maximum potential future payments cannot be estimated because many of these agreements do not have a maximum stated liability. However, historically, costs related to these indemnification provisions have not been significant. The Company has not recorded any liability in the consolidated financial statements for such indemnifications.

(s) Recent Accounting Pronouncements

In December 2003, the FASB issued FIN No. 46 (revised December 2003), Consolidation of Variable Interest Entities – An Interpretation of Accounting Research Bulletin No. 51. FIN No. 46R requires an investor with a majority of the variable interests (primary beneficiary) in a variable interest entity (VIE) to consolidate the entity and also requires majority and significant variable interest investors to provide certain disclosures. A VIE is an entity in which the voting equity investors do not have a controlling financial interest, or the equity investment at risk is insufficient to finance the entity's activities without receiving additional subordinated financial support from other parties. Application of FIN No. 46R is required in financial statements of companies that have interests in variable interest entities or potential variable interest entities commonly referred to as special purpose entities for periods ended after December 15, 2003. Application by companies for all other types of entities is required in financial statements for periods ended after March 15, 2004. The Company had no investments in VIEs as of October 31, 2004.

(Continued)

Notes to Consolidated Financial Statements

October 31, 2004 and 2003

In December 2003, the FASB issued SFAS No. 132 (revised 2003), Employers' Disclosures about Pensions and Other Postretirement Benefits. SFAS No. 132 (revised 2003) revises employers' disclosures about pension plans and other postretirement benefit plans. It does not change the measurement or recognition of those plans required by SFAS No. 87, Employers' Accounting for Pensions, SFAS No. 88, Employers' Accounting for Settlements and Curtailments of Defined Benefit Pension Plans and for Termination Benefits, and SFAS No. 106, Employers' Accounting for Postretirement Benefits Other Than Pensions. This statement retains the disclosure requirements contained in SFAS No. 132, Employers' Disclosures about Pensions and Other Postretirement Benefits, which it replaces. It requires additional disclosures to those in the original SFAS No. 132 about the assets, obligations, cash flows, and net periodic benefit cost of defined benefit pension plans and for other postretirement benefit plans. SFAS No. 132 (revised 2003) is effective for consolidated financial statements with fiscal years ended after December 15, 2003. The Company does not anticipate that the adoption of the remaining provisions will have material impact on the Company's consolidated results of operations or financial position.

In March 2004, the FASB issued EITF Issue No. 03-1, The Meaning of Other-Than-Temporary Impairment and Its Application to Certain Investments. EITF Issue No. 03-1 includes new guidance for evaluating and recording impairment losses on debt and equity instruments, as well as new disclosure requirements for investments that are deemed to be temporarily impaired. The accounting guidance provided in EITF Issue No. 03-1 was effective for other-than-temporary impairment evaluations made in reporting periods beginning after June 15, 2004. However, this guidance has been delayed to an unknown date by FSP EITF Issue 03-1-1, Effective Date of Paragraphs 10-20 of EITF Issue No. 03-1, The Meaning of Other-Than-Temporary Impairment and Its Application to Certain Investments. The disclosure requirements continue to be effective for annual periods ended after December 15, 2003, for investments accounted for under SFAS No. 115, Accounting for Certain Investments in Debt and Equity Securities. For all other investments within the scope of EITF Issue No. 03-1, the disclosures continue to be effective in annual financial statements for fiscal vears ended after June 15, 2004. The additional disclosures for cost method investments continue to be effective for fiscal years ended after June 15, 2004. The Company does not anticipate the application of EITF Issue No. 03-1 will have a significant impact on the Company's consolidated results of operations or financial position.

In July 2004, the FASB issued EITF Issue No. 02-14, Whether an Investor Should Apply the Equity Method of Accounting to Investments Other Than Common Stock. EITF Issue No. 02-14 includes new guidance for determining whether the equity method of accounting applies when an investor does not have an investment in voting common stock of an investee but exercises significant influence through other means, how the equity method should be applied to investments other than common stock, and for securities with a readily determinable fair market value, how the scope provisions of APB Opinion No. 18, The Equity Method of Accounting for Investments in Common Stock, and FASB Statement No. 115, Accounting for Certain Investments in Debt and Equity Securities, interact. The accounting guidance provided in EITF Issue No. 02-14 is effective for reporting periods beginning after September 15, 2004. The Company will adopt the accounting guidance effective November 1, 2004. The Company does not expect the adoption of EITF Issue No. 02-14 to have a material impact on the Company consolidated results of operations or financial position.

(Continued)

Notes to Consolidated Financial Statements

October 31, 2004 and 2003

(3) Consolidated Balance Sheet Components

Consolidated balance sheet components as of October 31, 2004 and 2003 consisted of the following (in thousands):

	 2004	2003
Inventory:		
Finished goods	\$ 9,044	6,110
Work-in-progress	26,696	20,164
Raw materials	 3,154	1,742
	\$ 38,894	28,016
Intangible assets, net:	 · · ·	
IP I	\$ 775	-
Less amortization	 64	
	\$ 711	
Plant, equipment, and software, net:	 · · · · · ·	·
Computer software	\$ 6,888	5,680
Machinery and equipment	109,311	99,716
Leasehold improvements	 12,966	3,314
	129,165	108,710
Less accumulated depreciation and amortization	 52,691	49,922
	76,474	58,788
Construction-in-progress	 19,924	9,526
	\$ 96,398	68,314
Accrued liabilities:	 	
Payroll and related expenses	\$ 19,095	6,718
Accrued warranty	775	1,431
Other	 3,393	2,063
	\$ 23,263	10,212

(4) Related Party Transactions

The Company leases its facilities in the United States and Malaysia (until April 2004) under noncancelable operating leases with Agilent. Rent expense and facility work orders relating to facilities leases was \$17,096,000 and \$11,399,000 for the years ended October 31, 2004 and 2003, respectively. In addition to the above, Agilent provided information systems services at these sites for which the Company was charged \$1,846,000 and \$1,793,000 for the years ended October 31, 2004 and 2003, respectively.

Agilent and Philips provided research and development support for which the Company incurred research and development expenses in 2004 and 2003. Philips-related charges amounted to \$3,172,000 and \$1,768,000 in fiscal 2004 and 2003, respectively. Agilent charged \$452,000 and \$740,000 during fiscal 2004 and 2003, respectively.

Notes to Consolidated Financial Statements

October 31, 2004 and 2003

Philips provides other services to the Company for which it receives reimbursement. These services include tax support, insurance coverage, management of expatriate programs, purchasing services, manufacturing services, and components. The Company was charged \$1,473,000 and \$1,773,000 for fiscal 2004 and 2003, respectively. Philips also provides raw materials for production to the Company. Such materials amounted to \$8,300,000 for fiscal 2004.

Agilent provides other services and materials to the Company for which it receives reimbursement. These services include quality assurance support, tooling services, purchasing services, and management of certain expatriate programs. The Company was charged \$712,000 and \$586,000 during fiscal 2004 and 2003, respectively. The Company provided reliability testing and engineering services to Agilent for which it was paid \$425,000 and \$439,000 during fiscal 2004 and 2003, respectively.

The Company also sells its LEDs to Agilent for use in Agilent products. Such sales amounted to \$43,202,000 and \$26,300,000 for the years ended October 31, 2004 and 2003, respectively. The Company sold various products to Philips. Such sales amounted to \$720,000 and \$858,000 for the years ended October 31, 2004 and 2003, respectively.

As of October 31, 2004 and 2003, accounts receivable include \$7,181,000 and \$3,496,000, respectively, of amounts due from Agilent related to the sale of product to Agilent. Amounts due to the shareholders include \$2,085,000 and \$1,009,178 as of October 31, 2004 from Agilent and Philips, respectively, and \$2,993,000 and \$752,000 as of October 31, 2003 from Agilent and Philips, respectively.

The Company's operations are supported by a line of credit arrangement with its shareholders (see note 6).

(5) Income Taxes

4

Income taxes as of October 31, 2004 and 2003 consisted of the following (in thousands):

		2004	2003
Deferred tax assets:	•		
Net operating loss carryforwards Capital investment credits	. \$.	2,578	2,539
Reserves and accrued expenses		319	667
Total deferred tax assets		2,897	3,206
Deferred tax liability		(887)	
		2,010	3,206
Less valuation allowance		·	3,206
Net deferred tax assets	\$	2,010	

Management believes that, based on a number of factors, it is more likely than not that these deferred tax assets will be fully utilized. These factors include the Company's strong profit trends, the low risk factor of the activities carried out by the Dutch entity that holds the loss carryforwards, and the absence of time expiration on the loss carryforwards. The Company will continue to assess the realizability of the deferred tax assets based on actual and forecasted operating results.

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Notes to Consolidated Financial Statements

October 31, 2004 and 2003

As of October 31, 2004 and 2003, the Company has net operating loss carryforwards for Dutch tax purposes of approximately \$7,365,000 and \$7,359,000, respectively, which do not expire. Certain losses of the Company flow directly through to the shareholders of the Company.

The Company in Malaysia was granted status under the Promotion Investment Act, 1986 for a period of five years commencing from November 1, 2001. As of October 31, 2004, an \$887,000 deferred tax liability for depreciation was recognized in respect of the deductible temporary differences as it is more likely than not that the liability will be liquidated after the expiry of the pioneer status.

(6) Borrowings

Line of Credit with Shareholders

In November 1999, the Company entered into an \$81,000,000 revolving line of credit agreement funded in equal amounts by its two shareholders. Borrowings under the revolving line of credit could be drawn down at any time, and bore interest at a rate equal to the aggregate of LIBOR plus 0.5%.

The revolving line of credit agreement had a one-year term. Following expiration of the agreement each year, the Company has entered into a new revolving line of credit agreement with periodic revisions to the maximum borrowings. The current agreement was entered into in November 2003 and expired in November 2004. The Company has since then entered into a new revolving line of credit agreement to extend the revolving line through June 2005. Effective June 30, 2005, the Company extended the maturity date of the line of credit to November 30, 2005. Additionally, the maximum borrowings under the line of credit were revised to \$103,000,000. Borrowings under the revolving line of credit continue to be on terms similar to those included in the original agreement. As of October 31, 2004 and 2003, the Company had \$130,566,000 and \$130,536,000, respectively, of principal and accrued interest outstanding. Interest expense under this arrangement totaled \$2,610,800 and \$3,068,000 for the years ended October 31, 2004 and 2003, respectively.

(7) Commitments and Contingencies

(a) Leases

The Company leases its facilities in the United States and Malaysia (until April 2004) from Agilent under noncancelable operating leases. The Company anticipates that the U.S. facility lease will be renewed on its expiration as this lease agreement has an evergreen clause, but left the Malaysian facility during fiscal 2004 for a new Malaysian facility the Company acquired in October 2003. The Company pays rent based upon an amount equal to its pro-rata percentage of occupancy cost, which is allocated according to headcount and the percentage of square feet of the premises it occupies, plus an administrative fee equal to 10% of the total occupancy cost. Occupancy cost includes the total monthly costs incurred to operate and maintain the facilities, including depreciation, utilities, administrative services, property taxes, and insurance. Total rent expense under these arrangements for the years ended October 31, 2004 and 2003 was \$17,096,000 and \$11,399,000, respectively.

The Company leases a facility in the Netherlands under a noncancelable operating lease, which expires in October 2007. Total rent expense for the years ended October 31, 2004 and 2003 was \$121,000 and \$136,000, respectively.

(Continued)

1. 1

Notes to Consolidated Financial Statements

October 31, 2004 and 2003

Future minimum lease payments in the Netherlands are as follows (in thousands):

Year ending October 31:	
2005	\$ 121,000
2006	121,000
2007	121,000
	\$ 363,000

(b) Litigation

The Company is involved in lawsuits, claims, investigations, and proceedings that arise in the ordinary course of business. There are no such matters pending that the Company expects to be material in relation to the Company's consolidated financial position, results of operations, or cash flows.

(8) Stock Option Plans

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In April 2001, the Company adopted the 2001 Stock Option Plan (the Plan). The Plan provides for the granting of options to purchase depository receipts, representing beneficial economic and voting interests in a like number of common shares, to employees and consultants of the Company. Options granted under the Plan must be nonqualified stock options (NSO). The Company has reserved 20,000,000 depository receipts with a par value of $\in 0.10$ for issuance under the Plan.

To implement the Plan in compliance with Dutch law, the Company has transferred shares of its common stock to a Foundation formed in the Netherlands. In return, the Foundation has issued to the Company one depository receipt for each share of common stock it received from the Company. On exercise of an option under the Plan, the Company instructs the Foundation to transfer depository receipts from the Company to the option holder.

Options under the Plan may be granted for periods of up to 10 years and at prices no less than 85% of the estimated fair value of the shares on the date of grant as determined by the board of directors, provided, however, that the exercise price of an NSO granted to a 10% shareholder shall not be less than 110% of the estimated fair value of the shares on the date of grant. Options granted generally vest over 4 years at a rate of 12.5% on the date 6 months from the grant date and then monthly thereafter, and have a 10-year life.

The Plan also includes a fair value put and call feature whereby employees can require the Company to purchase depository receipts obtained via the exercise of options, or the Company can elect to repurchase such depository receipts at fair value at the time of purchase. The fair value of depository receipts obtained by employees via the exercise of options that are repurchased within the six-month period subsequent to the option exercise is recorded as compensation expense. During the year ended October 31, 2004, the Company repurchased 207,250 depository receipts, held less than six months, upon employee terminations, resulting in an expense of \$949,000.

Notes to Consolidated Financial Statements

, October 31, 2004 and 2003

The following table summarizes activity under the Plan:

		Options o	outstanding
	Options available	Number of shares	Weighted average exercise price
Balance as of October 31, 2002	6,679,841	13,116,927	\$ 1.69
Granted Exercised Canceled Repurchase of depository receipts	(2,720,500) 	2,720,500 (263,691) (156,255)	2.94 3.40 2.09 3.34
Balance as of October 31, 2003	4,208,516	15,417,481	1.88
Granted Exercised Canceled Repurchase of depository receipts	(1,783,675) 	1,783,675 (1,214,733) (212,779)	4.43 1.44 2.39 5.59
Balance as of October 31, 2004	3,111,521	15,773,644	

The following table summarizes stock options outstanding and exercisable as of October 31, 2004:

	0	ptions outstand	ing				,
		Weighted			Options e	xe	
Exercise price	Number outstanding	average remaining contractual life (years)		Weighted average exercise price	Number exercisable		Weighted average exercise price
\$ 0.72	3,549,985	5.50	\$	0.72	3,549,985	\$	0.72
1.50	360,163	6.00		1.50	355,522		1.50
1.95	4,415,714	6.50		1.95	4,059,006		1.95
2.55	150,728	7.00		2.55	116,825		2.55
2.50	2,717,028	7.50		2.50	1,792,135		2.50
3.20	252,292	8.00		3.20	132,565		3.20
2.90	2,476,700	8.50		2.90	1,001,910		2.90
3.72	70,542	9.00		3.72	17,498		3.72
4.29	1,639,992	9.50		4.29	275,015		4.29
6.00	140,500	10.00		6.00			
	15,773,644	7.13		2.22	11,300,461		

The weighted average fair value of options granted during the years ended October 31, 2004 and 2003 was \$0.76 and \$0.43, respectively.

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Notes to Consolidated Financial Statements

October 31, 2004 and 2003

The Company calculated the fair value of each option grant on the date of grant using the minimum-value method with the following assumptions:

	2004	2003
Expected life (years) Weighted average risk-free interest rate Dividend yield	4 3.02%	4 2.48%

(9) Employee Benefit Plans

The Company sponsors a 401(k) defined contribution plan covering all U.S. employees. Contributions made by the Company are determined annually by the board of directors. Company contributions under this plan amounted to \$1,179,000 and \$1,012,000 for the years ended October 31, 2004 and 2003, respectively.

On an annual basis, the Company makes an additional contribution to the 401(k) defined contribution plan. This contribution is a fixed percentage of the employee's base salary, with such percentage based on years of service with the Company, including prior years of service with the Company's shareholders. Additional contributions amounted to \$1,218,000 and \$1,116,000 for the years ended October 31, 2004 and 2003, respectively.

The Company's employees in the Netherlands participate in a defined benefit pension plan sponsored by Philips. Contributions made by the Company are determined annually by Philips. Historically, these contributions to the plan by the Company have been insignificant and amounted to \$18,000 for the year ended October 31, 2004.

The Company's employees in Germany participate in a defined benefit pension plan sponsored by the Company. Company contributions under the Plan amounted to \$13,000 for the year ended October 31, 2004.

The Company's employees in Malaysia participate in a defined contribution plan. The Company's contribution to the plan is based on a certain percentage of the basic salary. Company contributions under this plan amounted to \$818,000 and \$88,000 for the years ended October 31, 2004 and 2003, respectively.

October 28, 2005

Director Department of Toxic Substances Control Financial Responsibility Unit P.O. Box 806 Sacramento, CA 95812-0806

Subject: Initial Financial Assurance Documentation - PBR: CAR 000 058 081

Dear Sir.

Enclosed is most of the required documentation for Financial Assurance as specified in CCR Title 22 Division 4.5 Chapter 14 and 15, Article 8.

E

X

Ε A NEW WORLD OF LIGHT

2007-31 -OCT-31 PM-1:-20

The missing piece is:

- [c] A special report from the owner's or operator's independent certified public account to the owner or operator stating that:
 - [1] The independent certified public accountant has compared the data in the letter from the chief financial officer with the amounts in the independently audited year-end financial statements for the latest fiscal year; and
 - [2] In connection with that procedure, no matters came to the independent certified public accountant's attention which caused him or her to believe that the specified data should be adjusted

This special report will be submitted to DTSC under a different cover as soon as it has been completed. If you have any questions, please give me a call at 408-435-4205.

Sincerely,

Mitch Cole Environmental Engineer

Enclosure

Mr. Mike Balliet cc: Hazardous Materials Specialist Environmental Resources Agency Department of Environmental Health 1555 Berger Drive, Suite 300 San Jose, CA 95112-2716



Lumileds Lighting, LLC 370 West Trimble Road San Jose, CA 95131 USA (877) 298-9455





Philips Lumileds Lighting Company

370 West Trimble Road San Jose, California 95131

July 29, 2010

Ms. Nicole Pullman County of Santa Clara Hazardous Materials Compliance Division 1555 Berger Drive, Suite 300 San Jose, CA 95112-2716

Subject: 2010 PBR Annual Renewal EPA ID# CAR 000 058 081

Dear Ms. Pullman:

The purpose of this letter is to communicate missing information from the original annual renewal submitted in January 2010. The identification number of the financial assurance mechanism was blank in this original submission. This error has been corrected in the attached form 1232.

If you have any questions regarding this submittal, please call me at (408) 964-2562.

Sincerely,

Mu Stud

Mitch Cole Environmental Engineer

enclosure



Tel. +1 408 964 2562 Fax: +1 408 964 5358 mitchell.cole@philips.com www.philipslumileds.com www.luxeon.com



County of Santa Clara

Department of Environmental Health

1555 Berger Drive, Suite 300 San Jose, California 95112-2716 (408) 918-3400 www.EHinfo.org





May 3, 2010

MITCH COLE PHILIPS LUMILEDS LIGHTING COMPANY 370 WEST TRIMBLE ROAD SAN JOSE CA 95131 EPA I.D.: CAR000058081 Initial Authorization: 3/22/2000

Renewal Date: May 3, 2010

Dear Onsite Treatment Facility:

The County of Santa Clara Hazardous Materials Compliance Division (HMCD) has received and reviewed your facility's PBR Renewal Notification to ensure it is administratively complete. It has not been reviewed for technical adequacy. The technical review will be conducted during a facility inspection by this office. A copy of the Hazardous Waste Tiered Permit Audit Checklist-Permit By Rule can be found on website www.EHinfo.org.

The treatment unit (s) listed below is / are hereby authorized pursuant to Title 22 of the California Code of Regulations (CCR). Your authorization continues until you notify this office that you have stopped treating wastes and have fully closed the unit(s) pursuant to all applicable closure requirements of CCR Title 22 and your closure plan.

Ms. Violeta Mislang with the state Department of Toxic Substances Control (DTSC) can be contacted at (714) 484-5387 for questions concerning the Phase I Environmental Assessment/Corrective Action Program. If you have any questions regarding this letter please contact me at (408) 918-1985 or e-mail: <u>ruben.williams@deh.sccgov.org.</u>

Sincerely,

Ruban William

Ruben Williams, CHMM, REA Senior Hazardous Materials Specialist Hazardous Materials Compliance Division

Units authorized to operate at this location:

UNDER PERMIT BY RULE: NS-1, MPU-1

County of Santa Clara

Department of Environmental Health

Hazardous Materials Compliance Division 1555 Berger Drive, Suite 300 San Jose, California 95112-2716 (408) 918-3400 FAX (408) 280-6479 www.EHinfo.org





April 17, 2009

MITCH COLE PHILIPS LUMILEDS LIGHTING COMPANY 370 WEST TRIMBLE ROAD SAN JOSE CA 95131 EPA I.D.: CAR000058081 Initial Authorization: 3/22/2000

Renewal Date: April 17, 2009

Dear Onsite Treatment Facility:

The County of Santa Clara Hazardous Materials Compliance Division (HMCD) has received and reviewed your facility's PBR Renewal Notification to ensure it is administratively complete. It has not been reviewed for technical adequacy. The technical review will be conducted during a facility inspection by this office. A copy of the Hazardous Waste Tiered Permit Audit Checklist-Permit By Rule can be found on website www.EHinfo.org.

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Ms. Violeta Mislang with the state Department of Toxic Substances Control (DTSC) can be contacted at (714) 484-5387 for questions concerning the Phase I Environmental Assessment/Corrective Action Program. If you have any questions regarding this letter please contact Senior Hazardous Materials Specialist Ruben Williams at (408) 918-1985.

Sincerely,

Nicole & ullman

Nicole Pullman, R.E.H.S. Hazardous Materials Program Manager

Units authorized to operate at this location:

UNDER PERMIT BY RULE: NS-1, MPU-1

Board of Supervisors: Donald F. Gage, George M. Shirakawa, Dave Cortese, Ken Yeager, Liz Kniss Acting County Executive: Gary A. Graves

	CO/PR/TA ID	B	SC	Time
Department of Environmental Health Hazardous Materials Compliance Division (HMCD) 1555 Berger Drive, Suiter300	SANTANT DEPLOF	WED BY: ARA COUNTY		
San Jose, CA 95112-2716 (408) 918-3400 Fax (408) 280-6477 www.EHinfo.org	2008 OCT 1	5 AM 10: 01		
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Contact Person(s): MITCH COVE			Samples Taken Photographs Taken	·
HazMat Business Plan 🗗 Ha Underground Storage Tank 🔲 Ca	izardous Waste Generator izWaste Tiered Permit I-ARP xic Gas	Haz	ardous Waste Generator < 1,000 Kg./mo. ,[य]?≥ CESQG □ S	
VIOLATIONS: Codes noted below in the "Violation Codes" column repattached Violation Codes document(s). Time granted for correction of This facility may be subject to reinspection at any time. Co	present specific violations of S violations does not preclude a onsent to Inspect Given By	ny enforcement acti	on by this Department	or other agencies.
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THE OFFICIAL NOTICE OF INSPECTION EXIMINED

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What Does the Information in Each Column Mean?

Violation Code: Codes listed in this column identify specific violations of laws, regulations, or codes which were observed during this inspection. Definitions of Violation Codes are listed on the attached Violation Codes document(s).

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• Per HSC §§25187.8(b) and 25404.1.2(c), failure to sign the certification on this Notice to Comply and return it to HMCD is a violation of State law.

- ^o Per HSC §25404.1.2(c)(2), a false statement that compliance has been achieved is a misdemeanor.
- ^o Per HSC §25191(b), a false statement that hazardous waste compliance has been achieved is a violation of State law punishable by a fine of not less than \$2,000 or more than \$25,000 and/or imprisonment in the county jail for up to one year.
- Per HSC §§25299(a)(8) and (b)(7), a false statement that underground storage tank compliance has been achieved is a violation of State law punishable by a fine of not less than \$500 or more than \$5,000.
- Per HSC §§25187.8(i), HMCD has the right to require the submittal of reasonable and necessary documentation in support of any claim of compliance made by your facility.

1555 Berger Drive, Suite 300 🧋 🖉 oʻuntv San Jose, CA 95112-2716 **Environmental Resources Agency** (408) 918-3400 Fax (408) 280-6479 **Department of Environmental Health** www.EHinfo.org Hazardous Materials Compliance Division OFFICIAL NOTICE OF INSPECTION (Continuation Page) Inspection Date: _9/26/08 Facility Name: LUMILEDS LIGTHING LLC **Corrective Actions** Summary of Violations, Notice to Comply, Violation **Observations, and Required Corrective Actions** Taken Codes SAPE SDAD C WASH ING V eweun nspecte 194 ς Noste 5-162 a CALA ØV Note: . ŝ ٠, he c < DReceived by: Inspected by: Ric Gooddulg FACILITY SENDS YELLOW COPY TO AGENCY, KEEPS PINK COPY. @2054 REV 11/01 Page 2 of Rev. 11/19/01 HMCD-015 - 1/1


Philips Lumileds Lighting Company

2008

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370 West Trimble Road San Jose, California 95131

CERTIFIED MAIL ARTICLE NUMBER: 7099 3400 0016 2568 5528

Mr. Ric Gatdula Hazardous Materials Specialist County of Santa Clara Department of Environmental Health 1555 Berger Drive, Suite 300 San Jose, CA 95112-2716

Subject: CUPA Inspection Response

Date: 10/9/2008

RECEIVED BY: SANTA CLARA COUNTY DEPT. OF ENV. HEALTH

Dear Mr. Gatdula:

In response to the violations listed on the Official Notice of Inspection dated 9/26/08, we have corrected the items noted with the following corrective actions:

Violation Code	Summary of Violation	Corrective Action	Date
G020 C	Observed one 55 gallon drum of waste coolant and oil stored in the emergency generator pad area unlabeled. Violation was corrected during the inspection	In addition to correcting the immediate issue, the operations team was given refresher training reiterating the definition of a hazardous waste and appropriate management methods.	9/27/08 & 9/30/08
G023	Observed on gallon of waste solvent stored in the Saber area uncovered. Keep containers closed/sealed except when adding or removing the waste	The lid was placed on the container. The manufacturing maintenance team was given refresher training reiterating the definition of a hazardous waste and appropriate management methods.	9/27/08 & 9/30/08
G023 C	Observed on 55 gallon drum of waste flammable liquid stored in the Hazardous Waste Storage area with bung opened. Violation was corrected during the inspection.	In addition to correcting the immediate issue, the operations team was given refresher training reiterating the definition of a hazardous waste and appropriate management methods.	9/27/08 & 9/30/08



Tel. +1 408 964 2562 Fax: +1 408 964 5358 mitchell.cole@philips.com www.philipslumileds.com www.luxeon.com

LIGHT FROM SILICON VALLEY



Date: 10/9/2008 Page: 2

Violation Code	Summary of Violation	Corrective Action	Date
G112 OSHA 5162(a)	Observed Eye Wash Safety Showers in the fab area, yellow room and hazardous waste storage area not maintained as required. All eyewash stations and safety showers must be maintained and test ed to assure its proper operation at least monthly as required under CAL OSHA.	The responsibility for testing the shower/eyewash stations was in transition during the inspection. The regular testing of this equipment moved to our janitorial contractor in October. All safety showers/eyewashes were inspected on 10/8/2008	10/08/08

The original inspection form – yellow copy – is enclosed. If you have any further questions, please give me a call at your convenience.

Sincerely,

N

Mitch Cole Environmental Engineer

enclosure

County of Santa Clar

Department of Environmental Health

Hazardous Materials Compliance Division (HMCD)

1555 Berger Drive, Suite 300 San Jose, CA 95112-2716

(408) 918-3400 Fax (408) 280-6479 www.EHinfo.org

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OFFICIAL NOTICE OF INSPECTION	
LINULEUS NG(MING LLC	Inspection Date: 9/26/07
240 W. KINGUE KD. JAN JUSE	Employee No.: Y677
MITCH COLE	Samples Taken Photographs Taken
 ☐ HazMat Business Plan ☐ Underground Storage Tank ☐ Cal-ARP 	Hazardous Waste Generator Type:
VIOLATIONS: Codes noted below in the "Violation Codes" column represent specific violations of State law and/or l attached Violation Codes document(s). Time granted for correction of violations does not preclude any enforcement a This facility may be subject to reinspection at any time. Consent to Inspect Given By:	
Violation Codes Codes Comply, Observations, and Required Corrective Actions	Corrective Actions Taken
Codes Observations, and Required Corrective Actions GON Observed and SS Gallien Drum of C Woste corleant and Oil Stoped ic the anegency Eigenentor Pod Area Unlikeled. Vis lation was canedred During the inspection GOB Observed one gallien of Waste Solar stored in the SAVER ANER Unconned Leys container closed Sealed 2x og	1 aken
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All violations must be corrected within 30 days of the inspection date unless noted otherwise, above. Section 25404.1.2(c)(1) of California Health and Safety Code (HSC) requires that you write a brief description of the corrective actions you have taken to bring this facility into compliance and submit it to HMCD within 5 days of achieving compliance, or within 35 days of the inspection date, whichever comes first. (Note: Detailed instructions on actions you must take are printed on the reverse side of this page.)

Rec	eived by: Martine Inspected	Iby:	Entered b	Dy:
Ce	rtification: I certify under penalty of perjury that this faci	lity has complied with d	TC GAT DULA lirectives specified in this Notice	e to Comply.
Sig	nature of Owner/Operator:	Title:	Date:	//
FAC	ILITY SENDS YELLOW COPY TO AGENCY, KEEPS PINK O	COPY.		15
нмо	CD-014 - 1/2 Pag	e 1 of		P _{Rcv. 07/26/06}

THE OFFICE L NOTICE OF INSPECTION EXPERIMED.

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County of Santa Clar Environmental Resources Agency Department of Environmental Health Hazardous Materials Compliance Division -

1555 Berger Drive, Suite 300 San Jose, CA 95112-2716 (408) 918-3400 Fax (408) 280-6479 www.EHinfo.org

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OFFICIAL NOTICE OF INSPECTION

(Continuation Page)

Facility Name: LUMILEDS LIGTATING LLC Inspection Date: 9/26/08

Violation Codes	Summary of Violations, Notice to Comply, Observations, and Required Corrective Actions	Corrective Actions Taken
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NSHA	showers in the Fab Anon Yellow	6
5-162 (0)		Wgp
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FOR FILING



Department of Environmental Health

Hazardous Materials Compliance Division 1555 Berger Drive, Suite 300 San Jose, California 95112-2716 (408) 918-3400 FAX (408) 280-6479 www.EHinfo.org

June 12, 2008

Mr. Mitch Cole Philips Lumileds Lighting Co 350 W Trimble Rd San Jose, CA 95131

Subject: Past Permit Fees Due for facility at 370 W Trimble Rd #B91 in San Jose

Dear Mr. Cole:

It has come to our attention during a review of our fiscal and permit records that your facility was operating in a period for which you were not billed for fees due to our agency. The attached invoice shows a permit charge for period 7/1/07 to 6/30/09 for a total of \$2580.00.

We are therefore requesting that back permit fees be paid to us within 30 days of enclosed invoice for the permit charge period noted above.

The City of San Jose will begin billing your facility for continued operation as a Generator of Hazardous Waste under Single Billing starting June 1, 2009.

If you feel that we may be in error please contact Marlena Dufresne at (408) 918-1980 or the undersigned at (408) 918-1984.

Sincerely,

Made Pulman

Nicole Pullman, R.E.H.S. Hazardous Materials Program Manager Hazardous Materials Compliance Division

Enclosed: Invoice

SANTA CLARA COUNTY-DEPARTMET OF ENVIRONMENTAL HEALTH 1555 BERGER DR, SUITE 300

SAN JOSE, CA 95112-2716 408-918-3400

INVOICE

RE :PHILIPS LUMILEDS LIGHTING CO 370 W TRIMBLE RD 91BJ SAN JOSE, CA 95131

PHILIPS LUMILEDS LIGHTING CO COLE, MITCH 350 W. TRIMBLE ROAD SAN JOSE, CA 95131

FOR PROPER CREDIT, PLEASE CUT HERE AND RETURN TOP PORTION WITH YOUR PAYMENT

Amour	 		Jedan and arts	Description	Program/ Element	Date
		52744	Facility ID: F	nt ID: AR1256561	Accour	
1,290.00	\$	PR0367957	1/07-6/30/08	PERMIT BY RULI PERMIT DATE-7/ PHILIPS LUMILE	2261	06/12/08
1,290.00	\$ Total for This Invoice:	Γ	1. at			

 $\label{eq:count_summary} \textbf{(Including This Invoice)}:$

	1-30 Days	31-60 Days	61-90 Days	91-120 Days	121+ Plus	Amount Due
\$	2,580.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ -24.00	\$ 2,556.00

Your Environmental Health Permit Fee is now due and

payable in the amount listed above. To avoid penalties, PAYMENT MUST BE RECEIVED BEFORE

the expiration date of your existing permit or within 30 days from the invoice date.



Account Number	Date								
AR1256561	6/12/08								
Invoice ID	Facility ID								
IN0913257	FA0252744								
Amount									
\$ 1,29	90.00								

SANTA CLARA COUNTY-DEPARTME OF ENVIRONMENTAL HEALTH 1555 BERGER DR. SUITE 300 SAN JOSE, CA 95112-2716 408-918-3400

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PHILIPS LUMILEDS LIGHTING CO COLE, MITCH 350 W. TRIMBLE ROAD SAN JOSE, CA 95131

Account Number	Date								
AR1256561	6/12/08								
Invoice ID	Facility ID								
IN0913258	FA0252744								
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FOR PROPER CREDIT, PLEASE CUT HERE AND RETURN TOP PORTION WITH YOUR PAYMENT

Amoun	 		. <u></u>	Description	Program/ Element	Date
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1,290.00	\$	PR0367957	1/08-6/30/09	PERMIT BY RULE PERMIT DATE-7/ PHILIPS LUMILE	2261	06/12/08
1,290.00	\$ Total for This Invoice:	Γ				

Account Summary (Including This Invoice) :

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Permits in process of being renewed

le/30/08.09

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Department of Environmental Health

Hazardous Materials Compliance Division 1555 Berger Drive, Suite 300 San Jose, California 95112-2716 (408) 918-3400 FAX (408) 280-6479 www.EHinfo.org



April 10, 2007

MITCH COLE PHILIPS LUMILEDS LIGHTING COMPANY 370 WEST TRIMBLE ROAD SAN JOSE CA 95131 EPA I.D.: CAR000058081 Initial Authorization: 3/22/2000

Renewal Date: April 12, 2007

Dear Onsite Treatment Facility:

The County of Santa Clara Hazardous Materials Compliance Division (HMCD) has received and reviewed your facility's PBR Renewal Notification to ensure it is administratively complete. It has not been reviewed for technical adequacy. The technical review will be conducted during a facility inspection by this office. A copy of the Hazardous Waste Tiered Permit Audit Checklist-Permit By Rule can be found on website www.EHinfo.org.

The treatment unit (s) listed below is / are hereby authorized pursuant to Title 22 of the California Code of Regulations (CCR). Your authorization continues until you notify this office that you have stopped treating wastes and have fully closed the unit(s) pursuant to all applicable closure requirements of CCR Title 22 and your closure plan.

Ms. Violeta Mislang with the state Department of Toxic Substances Control (DTSC) can be contacted at (714) 484-5387 for questions concerning the Phase I Environmental Assessment/Corrective Action Program. If you have any questions regarding this letter please contact Ruben Williams at (408) 918-1985.

Sincerely,

Nicole Pullman

Nicole Pullman, R.E.H.S. Hazardous Materials Program Manager Hazardous Materials Compliance Division

Units authorized to operate at this location:

UNDER PERMIT BY RULE: NS-1, MPU-1

County of Santa Clara

Department of Environmental Health

Hazardous Materials Compliance Division 1555 Berger Drive, Suite 300 San Jose, California 95112-2716 (408) 918-3400 FAX (408) 280-6479 www.EHinfo.org



March 20, 2007

MITCH COLE PHILIPS LUMILEDS LIGHTING COMPANY 370 WEST TRIMBLE ROAD SAN JOSE CA 95131 CAR000058081 Site Address:

370 W TRIMBLE RD SAN JOSE CA 95131

RE: 2007 PBR ANNUAL RENEWAL

Dear Sir or Madam:

This letter is provided by your Certified Unified Program Agency (CUPA), the County of Santa Clara, Department of Environmental Health, in order to help facilitate your renewal as an onsite hazardous waste treatment facility operating a fixed treatment unit under Permit by Rule (PBR).

All of the required Unified Program Consolidated Forms (UPCF) pertaining to your onsite treatment units were submitted last year by your facility. Therefore, this year you are requested to complete only the following certification pages requiring a signature along with the Business Activities page and return them to our office by April 30, 2007:

- 1. Business Activities (Unified Program Consolidated Form)
- 2. Business Owner/Operator Identification (Facility information).
- 3. Onsite Hazardous Waste Treatment Notification-Facility page.
- 4. Certification of Financial Assurance (Annual Certification).

The requested UPCF forms can be accessed by going to the following website: http://www.EHinfo.org. If you prefer hard copies of these forms please contact us and these forms will be mailed to you. If changes related to your onsite treatment unit(s) occurred last year, in addition to the above noted forms, please submit the Unit page and Permit by Rule page of the UPCF forms to reflect those changes.

PHILIPS LUMILEDS LIGHTING COMPANY, March 20, 2007 Page 2

As a reminder, facilities are required to adjust their closure cost estimates for inflation by March 1st of each year. It is advisable that you use last year's inflation factor of 1.029 per cent since the Bureau of Economic Affairs doesn't publish the Implicit Price Deflator for the last quarter of year 2006 until April of 2007. The estimated closure costs that is updated yearly with the inflation factor must be noted on Section II of the Certificate of Financial Assurance Form.

You are requested to submit a copy of your updated closure cost estimate to this office only if you previously self certified that the closure cost was less than \$10,000.00 and now, due to updating, it exceeds that amount. In addition, for all facilities that claim salvage value for resale of equipment under the closure cost estimate, please send documentation supporting the true market value of the salvage/reclaimed equipment.

After updating your closure cost estimate, we recommend that you evaluate the financial mechanism and verify that it is adequate to cover the current closure cost estimate. For facilities that have filed under the mechanism of Financial Test and Corporate Guarantee, in order to maintain eligibility for this closure assurance mechanism, annual updated information must be submitted to this department within ninety days of the close of the firm's fiscal year.

Do not send an annual notification fee with this renewal form. You will be receiving an invoice either from our Department or from your local fire department for the annual permit to operate your treatment unit(s).

Once you have completed and submitted the PBR renewal forms as instructed above, you will have complied with the 2007 annual notification requirements as noted in the California Code of Regulations, Title 22, Section 67450.3(c).

If you have any questions regarding this letter, please contact Ruben Williams at (408) 918-1985.

Sincerely,

Micole Pyelman

Nicole Pullman, R.E.H.S. Hazardous Materials Program Manager Hazardous Materials Compliance Division

Units authorized to operate at this location: NS-1, MPU-1

Philips Lumileds Lighting Company

370 W. Trimble Road, San Jose, California 95131 USA

CERTIFIED MAIL ARTICLE NUMBER: 7099 3400 0016 2568 5450

March 30, 2007

Ms. Nicole Pullman County of Santa Clara Hazardous Materials Compliance Division 1555 Berger Drive, Suite 300 San Jose, CA 95112-2716



PHILIPS

Subject: 2007 PBR Annual Renewal EPA ID# CAR 000 058 081

Dear Ms. Pullman:

The attached forms have been completed to comply with the 2007 annual notification and financial assurance requirements established by CCR Title 22, Section 67450.3 (c) for Philips Lumileds Lighting Company located at 370 West Trimble Road in San Jose, California.

If you have any questions regarding this submittal, please call me at (408) 964-2562.

Sincerely,

"VV

Mitch Cole Environmental Engineer

enclosure



Tel. +1 408 964 2562 Fax: +1 408 964 5358 mitchell.cole@philips.com www.philipslumileds.com www.luxeon.com



Michael	Saillet
From:	Michael Balliet
Sent:	Monday, July 02, 2007 1:43 PM
To:	'mitchell.cole@philips.com'
Cc:	Greg Breshears
Sent: To: Cc: Subject:	Letter Regarding Permit Fees

Mitch,

We have reviewed your letter dated June 18, 2007 regarding your hazardous waste generator permit status. At this time, your permit will remain the same. We base the permit on the prior year's generator activities. Therefore, you may be eligible to reduce your generator permit next year assuming you actually generate <250 tons at that time. In addition, it appears that the City of San Jose failed to bill you for your PBR permit in the amount of \$1,250.00. We will be in contact with the City of San Jose to determine the status of this permit.

Thank you for your inquiry. Please feel free to contact me if you have any questions.

Michael Balliet, CHMM, REA Hazardous Materials Specialist II County of Santa Clara Department of Environmental Health Hazardous Materials Compliance Division 1555 Berger Drive #300 San Jose, CA 95112 (408) 918-1976 - Direct (408) 280-6479 - Fax www.ehinfo.org/hazmat www.unidocs.org

NOTICE: This email message and/or its attachments may contain information that is confidential or restricted. It is intended only for the individuals named as recipients in the message. If you are NOT an authorized recipient, you are prohibited from using, delivering, distributing, printing, copying, or disclosing the message or content to others and must delete the message from your computer. If you have received this message in error, please notify the sender by return email.

Philips Lumileds Lighting Company

370 W. Trimble Road, San Jose, California 95131 USA

June 18, 2007

Mr. Michael Balliet Hazardous Materials Specialist Department of Environmental Health 1555 Berger Drive, Suite 300 San Jose, CA 95112

Subject: Philips Lumileds Generator Status

Dear Mr. Balliet:

The purpose of this letter is to request a change in the hazardous waste generator category defined for this facility.

We recently received an invoice from the city of San Jose for the coming 12 months of operations. The generator fee is based on the 250 to 500 tons per year category, yet the volume projected for this time frame is less than 250 tons.

With the new operations ramping up at the Singapore facility, the wafer fab operations here at San Jose will decrease by about 50%. This will reduce our generation of hazardous waste to the lower tier of 50-250 tons.

If you have any questions, please call me at (408) 964-2562.

Sincerely,

Mitch Cole Environmental Engineer

enclosure





PHILIPS

Tel. +1 408 964 2562 Fax: +1 408 964 5358 mitchell.cole@philips.com www.philipslumileds.com www.luxeon.com JUN 21 PM 1: 30

PHILIPS

	en andere en andere en andere en andere e andere en andere en a andere en andere en a		A Fees Invo	4		
1/0 West San Carlos San José California 95113-2005			FILE #: BT ACCT:# FA #:		IVOICE #: IVOICE DATE:	536971 06/01/2007 .000
Unifor	m Program Agency, (CUPA) ac arges have previously been inve an José Fire Department will c	ed under Title 27 of California C tivities, including fire code, hazai piced in March-2002 by the Santa pllect these fees which have beer Below is a list of the CUPA fees fr	rdous materials and haze Clara County Environment collected separately in t	ardous waste permits, ental Health Departme he past by the San Jo	and state surcharges, ent. Beginning in Sept. sé Fire Department and	State 2002,
L 3 S	UMILEDS UMILEDS LIGHTING U 70 W TRIMBLE RD AT AN JOSE, CA 95131-1 ImiliumII	S LLC N ACCTS PAYABLE 008 Ilimhilihulliumhili	BUSINE LUMILE 370 W T	SS LOCATION:		
ity of Sar	NJOSé Fees		April 4 Sec. Sec.	i sin kana		
ee information c Date	in reverse side: "If you have que Description	stions, please call the Accountin) Section at (408) 277-53	36 Prior Balance /Payments	Balance and Current Fees	Subtotal
6/01/2007 6/30/2007 6/30/2007 6/30/2007	HAZARDOUS MATER	E (disregard if paid) P#6 PERMIT THRU 0630 IAL PERMIT THRU 0630 FEE THRU 06302008			\$0,00 \$657.00 \$3,857.00 \$299.00	
						\$4,813.00
	a county Environm	ental Health Departi			en e	
Date	PE PR	Description	all (408) 918-3420		Fees	Subtotal
6/30/2007 6/30/2007 6/30/2007	2351 PR0372265 2261 PR0367957 2209 PR0367934	CAL ARP-PROGRAM 3 PERMIT BY RULE PER GEN. 250 TO <500 TON	MIT THRU 063020	08	\$1,114.00 \$0.00 \$19,866.00	\$20,980.00
state Surc	harge Fees			. en (, p. tinger)		
Description		Questions - o	all (408) 918-3420		Fees	Subtotal
	IAT SERVICE FEE THI ARP SERVICE FEE TH				\$24.00 \$270.00	\$294.00
	CE IS DUE UPON RÉC NT MUST BE RECEIV 07/25/2007	EDBY	ty is a second second	ount Due		\$26,087.00
OR A LATE FEE OF \$6,448.25 WILL BE CHARGED. TEAR OFF SECTION BELOWAND INCLUDE WITH PAYMENT.						
TO MAKE CORRECTIONS, SEE REVERSE.						
Business Name: LUMILEDS Contact or Owner: LUMILEDS LIGHTING US LLC Business Address: 370 W TRIMBLE RD Mailing Address: 370 W TRIMBLE RD'ATTN ACCTS PAYABLE City/State/ZIP: SAN JOSE, CA 95131-1008						
Phone Number: 4084356076 Signature: Date: CITY OF SAN JOSÉ PAYMENT MUST BE RECEIVED BY 07/25/2007 MAKE CHECK PAYABLE TO CITY OF SAN JOSÉ PO BOX 45679						
	WRITE YOUR FILE # ON CHE		SA	N FRANCISCO	CA 94145-0679	and a second second Second second
105039		1/2007 536971		tal Amount D	ue \$26.0	87.00

-1-11-11-11-

10.4

FOR PERMITTED OCCUPANCIES AND CONTRACTORS:

PAYMENT WILL BE APPLIED TO THE OLDEST INVOICE FIRST UNLESS SPECIFIED ON THE RETURN STUB

IN ACCORDANCE WITH CHAPTER 17.12 OF THE SAN JOSÉ MUNICIPAL CODE, AS AMENDED, FAILURE TO PAY FEES WITHIN THE TIME PERIOD SPECIFIED SHALL RENDER YOUR PERMITS NULL AND VOID.

Verify and correct all facility/project information on this invoice and return it with your payment.

FOR PERMITTED OCCUPANCIES:

Please review information for accuracy to ensure that this facility is still owned by the same individual, partnership, corporation, or trust and that your billing address is correct. Please enter corrections below. Any change in ownership or address must also be reported to the Business Tax Section, phone (408) 535-7055.

If you no longer own this facility, please provide the date ownership was transferred, the new owner's name, mailing address, and telephone number in the space provided below.

If you have discontinued operating at this facility, please provide the data below. If you have any other facilities, please provide the address and start date at the new facility(ies).

Fire Safety Permits are not transferable.

Permit fees can not be prorated. - If you operate your business in any portion of time period after the effective date of the permit, you are liable for the annual permit fee

IF OPERATION OF THIS BUSINESS, AT THIS ADDRESS, HAS ENDED OR WILL BE RELOCATED PRIOR TO THE DUE DATE OF THIS INVOICE, CONTACT THE ACCOUNTING SECTION AT (408) 277-5336 IMMEDIATELY.

NOTE: This notifies the City of San José only. You are responsible for notifying the county and state.

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·	ю °	* ¥ 1				- 45	- C	11 C 1		- 14 - 18 - 18 - 18 - 18 - 18 - 18 - 18				- N	

FOR PERMITTED OCCUPANCIES:

If business name has been changed, with no change in ownership, please provide the new business name:

and the second

/<u>If the business has been sold.</u> Date ownership Transferred._____

Sold To: New Business Name:_____

New Owner's Name:_____ Street Address

City/State/Zip

Phone Number:

Signature:_____ Today's Date:____ Start Date at New Facility:_____

Date Business Discontinued:

appropriate section:

Moved to

If no longer in business, please complete the

NOTE: This notifies the City of San José only. You are responsible for notifying the county and state.

County of Santa Class Environmental Resources Agency Department of Environmental Health Hazardous Materials Compliance Division 1555 Berger Drive, Suite 300 San Jose, CA 95112-2716 (408) 918-3400; Fax (408) 280-6479 www.EHinfo.org		RECOUNTRY RECOUNTRY
HAZARDOUS WASTE (GENERATOR PERMIT APP	LICATION
First-Time Application New Owner Business Moved Change of Information Business Name (DBA): <u>7</u> Site Address: <u>370 West Trimble</u>	hilips Lumileds Lighting C	ompany
Site Address: 370 West Trimble	Road City: San Jose	Zip: <u>95/3/</u>
Mailing Address:	City: St	ate: Zip:
Business Owner Name(s):		
Proprietor/Billing Contact Name:	Cole	
Billing Address:	City: St	ate: Zip:
Billing Address: If different from mailing address. Facility Phone No.: (408) 964-5300 Fax N	No.: (<u>408)</u> <u>964-5358</u> Days/Hours of Ope	eration: $7/24$
Contact Person: Mitch Cole		,
Principal Type of Business (e.g. auto repair, photopro EPA ID Number: <u>CAR 000 05808/</u>		Corporation or LLC
Hazardous Waste Inventory Information:		
The annual permit fee is determined by the total qua hazardous waste inventory (e.g. used oil, used parts cu	ntity of hazardous waste generated per year. Co	mplete the table below for all
Name of	Treatment/Disposal Method(s)	Annual Quantity
Hazardous Waste	(Definitions provided on back of form.)	Generated*
Waste Solvents	 Recycled on-site. Treated on-site. Shipped off-site for recycling/treatment/disposal. 	1 1 1 1 1 1 1 1 1 1
	 Recycled on-site. Treated on-site. 	225,000 gal.
Debris W/Arsenic & Phosphates	 Shipped off-site for recycling/treatment/disposal. Recycled on-site. Treated on-site. Shipped off-site for recycling/treatment/disposal. 	70,000 gal.
Debris W/ Organics	 Recycled on-site. Treated on-site. K Shipped off-site for recycling/treatment/disposal. 	B, OO , I lbs.
Waste W/ Phosphorous	 Recycled on-site. Treated on-site. Shipped off-site for recycling/treatment/disposal. 	5,000
Ductwork Condensate	 Recycled on-site. Treated on-site. Shipped off-site for recycling/treatment/disposal. 	5,000 ^[] gal.
Universal Wastes	 Recycled on-site. Treated on-site. X Shipped off-site for recycling/treatment/disposal. 	12,000 gal.
* Solids must be reported in pounds. Liquids may be repo		373 +111

The undersigned hereby applies for a hazardous waste generator permit from the County of Santa Clara. I hereby certify that the submitted information is true, accurate, and complete. I understand that a new application will be required if this facility changes ownership, moves, or begins generating hazardous wastes which are not listed on this application.

Signature of Owner/Operator: Month Control Title: Env. Eng. Date: 8/23/06.

www.EHinfo.org

Definitions of Treatment/Disposal Methods

Recycled on-site: The facility takes the waste or any constituent of the waste, treated or not, and reuses it on-site or ships it off-site as an Excluded Recyclable Material.

Treated on-site: The facility employs any method, technique, or process which changes or is designed to change the physical, chemical, or biological character or composition of the hazardous waste or any material contained therein, or removes or reduces its harmful properties or characteristics for any purpose including, but not limited to, energy recovery, material recovery, or reduction in volume (*e.g. pH adjustment, evaporation, precipitation, filtration, distillation, compacting, etc.*). If, after treatment, the material is reused at the facility, the "Recycled on-site" box in the waste inventory table should be checked.

Shipped off-site for recycling/treatment/disposal: The facility sends the waste, or any hazardous treatment residual, to an off-site permitted treatment, storage, or disposal facility (TSDF).

Note: Depending on how a waste or its constituents are recycled and/or treated, more than one treatment/disposal category may apply. All applicable boxes in column 2 of the waste inventory table should be checked. Note to medical facilities: Do not list medical (i.e. red bag) wastes on this form.

Agency Use Only					
HMS STAFF					
Business Code: 01-Corporation; 02-Individual; 04-Local Agency; 05-County Agency; 07-Federal Agency; 99-Unknown	Create Special Program Records: 2599-General Storage Program Record - No Fee Create Surcharge Records: 5001-State Hazardous Materials Service Fee				
City Code:02–Los Altos;03–Los Altos Hills;01–Palo Alto;02–Los Altos;03–Los Altos Hills;04–Mountain View;05–Cupertino;08–Milpitas;09–Campbell;10–Saratoga;11–Los Gatos;12–Monte Sereno;13–San Jose;14–Morgan Hill;16–Unincorporated;19–Stanford;20–San Martin;21–Moffett Field1010	SUPPORT STAFF Owner ID: Multiple Owner ID:				
Business Type:	Multiple Owner ID: Facility ID:				
Inspector Employee ID:	Program Record ID:				
Program Element (PE): Program Record	Program Record ID:				
Permit Status: 21-Full, Ongoing Permit; 14-Billed by County Fire 15-Billed by Mountain View 16-Billed by Milpitas 17-Billed by Palo Alto 18-Billed by San Jose	Permit Record ID:Account Record ID:				
Type of Permit: P-Permanent; PE-Permanent Exempt					
Current Status: 01-Active; 04-Active, exempt from billing					
Mail Correspondence To: 01-Owner; 02-Facility					
Comments:					
Prepared by:	Date:				
Lead/Manager Initials: Date:	Input by: Date:				



2006 AUG 24 PH 2: 22

Philips Lumileds Lighting Company

370 W. Trimble Road, San Jose, California 95131 USA

August 23, 2006

Mr. Mike Balliet County of Santa Clara Department of Environmental Health 1555 Berger Drive, Suite 300 San Jose, CA 95112-2716

Dear Mr. Balliet:

Enclosed is the County application form for the Hazardous Waste Generator Permit.

Production increases and remodelling activities have increased our waste quantities to the higher tier for this 2006. These levels will likely continue through to 2008.

If you have any questions, please give me a call.

Sincerely,

match

Mitch Cole Environmental Engineer

enclosure



Tel. +1 408 964 2562 Fax: +1 408 964 5358 Mobile: +1 408 592 3222 mitchell.cole@philips.com www.philipslumileds.com www.luxeon.com





Environmental Resources Agency Department of Environmental Health

Hazardous Materials Compliance Division 1555 Berger Drive, Suite 300 San Jose, California 95112-2716 (408) 918-3400 FAX (408) 280-6479 www.EHinfo.org



January 25, 2006

MITCH COLE LUMILEDS LIGHTING 370 WEST TRIMBLE ROAD SAN JOSE CA 95131 CAR000058081 Site Address: 370 W TRIMBLE RD SAN JOSE CA 95131

RE: 2006 PBR ANNUAL RENEWAL

Dear Sir or Madam:

This information package is provided by your Certified Unified Program Agency (CUPA), the County of Santa Clara, Department of Environmental Health, in order to help facilitate your renewal as an onsite hazardous waste treatment facility operating a fixed treatment unit under Permit by Rule (PBR).

All of the required Unified Program Consolidated Forms (UPCF) pertaining to your onsite treatment units were submitted last year by your facility. Therefore, this year you are requested to complete only the following certification pages requiring a signature along with the Business Activities page and return them to our office by March 30, 2006:

- 1. Business Activities (Unified Program Consolidated Form)
- 2. Business Owner/Operator Identification (Facility information).
- 3. Onsite Hazardous Waste Treatment Notification-Facility page.
- 4. Certification of Financial Assurance (Annual Certification).

The requested UPCF forms are enclosed in this package. If changes related to your onsite treatment unit(s) occurred last year, in addition to the above noted forms, please submit the Unit page and Permit by Rule page of the UPCF forms to reflect those changes. Templates for all UPCF forms are available on the following website: <u>http://www.EHinfo.org</u>.

LUMILEDS LIGHTING, January 25, 2006 Page 2

at ...

As a reminder, facilities are required to adjust their closure cost estimates for inflation by March 1st of each year. It is advisable that you use last year's inflation factor of 1.028 per cent since the Bureau of Economic Affairs doesn't publish the Implicit Price Deflator for the last quarter of year 2005 until April of 2006. The estimated closure costs that is updated yearly with the inflation factor must be noted on Section II of the Certificate of Financial Assurance Form.

You are requested to submit a copy of your updated closure cost estimate to this office only if you previously self certified that the closure cost was less than \$10,000.00 and now, due to updating, it exceeds that amount. In addition, for all facilities that claim salvage value for resale of equipment under the closure cost estimate, please send documentation supporting the true market value of the salvage/reclaimed equipment.

After updating your closure cost estimate, we recommend that you evaluate the financial mechanism and verify that it is adequate to cover the current closure cost estimate. For facilities that have filed under the mechanism of Financial Test and Corporate Guarantee, in order to maintain eligibility for this closure assurance mechanism, annual updated information must be submitted to this department within ninety days of the close of the firm's fiscal year.

Do not send an annual notification fee with this renewal form. You will be receiving an invoice either from our Department or from your local fire department for the annual permit to operate your treatment unit(s).

Once you have completed and submitted the PBR renewal forms as instructed above, you will have complied with the 2006 annual notification requirements as noted in the California Code of Regulations, Title 22, Section 67450.3(c).

If you have any questions regarding this letter, please contact Ruben Williams at (408) (408) 918-1985.

Sincerely,

Nicole Pellman

Nicole Pullman, R.E.H.S. Hazardous Materials Program Manager Hazardous Materials Compliance Division

Enclosure

Units authorized to operate at this location: NS-1, MPU-1

County of Santa Clara

Environmental Resources Agency Department of Environmental Health

Hazardous Materials Compliance Division 1555 Berger Drive, Suite 300 San Jose, California 95112-2716 (408) 918-3400 FAX (408) 280-6479 www.EHinfo.org



December 6, 2005

Mr. Mitch Cole Philips Lumileds Lighting Company LLC 370 West Trimble Road San Jose, CA 95131

Re: Letter Requesting Review of Financial Test Procedure

Dear Mr. Cole:

Thank you for your request to have our office review the financial test procedure prepared by KPMG LLP. Unfortunately, our office does not provide this type of review regarding your financial test procedures. It is the responsibility of your auditor to render an opinion and determination of the qualification for using the financial test.

Our office will review the financial responsibility information as it is submitted by Philips Lumileds Lighting LLC, for completeness and compliance with the regulations found in 22 CCR 66265.143(e).

Please feel free to contact me at (408) 918-1976 if you have any questions.

Sincerely

Michael Balliet Hazardous Materials Specialist

Viere Pullinon

Nicole Pullman Hazardous Materials Program Manager



2005 NOV 21 PM 12: 01

November 18, 2005

٦,

Mr. Michael Balliet Hazardous Materials Compliance Division Department of Environmental Health 1555 Berger Drive, Suite 300 San Jose, CA 95112

Subject: Financial Test Procedure

Dear Mr. Balliet:

Enclosed is a proposal from KPMG LLP, our financial contractor, to evaluate the financial statements made on the PBR financial assurance documentation with the overall financial report for Lumileds.

They are looking for concurrence with the proposed comparative analysis outlined in the attachment by the government body requiring this evaluation since no procedure is outlined by the regulations.

Please take a look at this request and reply in writing either way.

If you have any questions, please give me a call at 408-435-4205.

Sincerely,

IV VIE Tol

Mitch Cole Environmental Engineer

enclosure



Lumileds Lighting, LLC 370 West Trimble Road San Jose, CA 95131 USA (877) 298-9455



KPMG LLP 500 East Middlefield Road Mountain View, CA 94043 Telephone Fax Internet 650 404 5000 650 960 1325 www.us.kpmg.com

Hazardous Materials Compliance Division 1555 Berger Drive Bldg #2, 3rd Floor San Jose, CA 95112

November 7, 2005

Ladies and Gentlemen:

We have been engaged by our client, Lumileds Lighting International B.V. ("Lumileds" or "the Company"), to perform certain agreed upon procedures relating to Lumileds completing the financial test for closure and post closure as specified in Form DTSC 1159 by the California Department of Toxic Substance Control. Before completing the agreed upon procedures as specified in the instructions to Form DTSC 1159 we would like to confirm with you the sufficiency of these planned procedures. After performing our procedures we will issue an agreed upon procedures report that includes the specific procedures we performed and our conclusion thereon.

Please confirm, by signing the acknowledgement on the bottom of page 2 of this letter, that the procedures detailed below are sufficient for the purposes stated in Form DTSC 1159.

KPMG will:

- Compare Item 2 in the Alternative I schedule in the form DTSC 1159 by the California Department of Toxic Substance Control (the "Alternative I schedule"), total liabilities to total liabilities presented in the Company's audited financial statements for the year ended October 31, 2004.
- 2) Compare Item 3, tangible net worth, to the difference between total tangible assets (which is the difference between total assets and the net book value of Goodwill and other intangible assets as disclosed in the Consolidated Balance Sheet) and Item 2.
- 3) Compared Item 4, net worth, to Total stockholders' equity disclosed in the Company's audited financial statements for the year ended October 31, 2004.
- 4) Compared Item 5, current assets, to the Total current assets disclosed in the Company's audited financial statements for the year ended October 31, 2004.
- 5) Compared Item 6, current liabilities, to Total current liabilities disclosed in the Company's audited financial statements for the year ended October 31, 2004.
- 6) Compared Item 8, the sum of net income plus depreciation, depletion and amortization, to the sum of Net income and Depreciation and amortization as disclosed in the Company's audited financial statements for the year ended October 31, 2004.

KPING

Hazardous Materials Compliance Division November 7, 2005 Page 2 of 2

7) Compare Item 9, total assets in the US, to the total assets located in the U.S as set forth in the Company's accounting records.

Thank you for your assistance in this matter.

Very truly yours,

KPMG LLP

James L. Hullon

James L. Phillips Partner

The procedures detailed above are sufficient for the purpose of Form DTSC 1159 as understood by . the California Department of Toxic Substance Control.

Ву _____

Title

Date _____

County of Santa Clara

Environmental Resources Agency Department of Environmental Health

Hazardous Materials Compliance Division 1555 Berger Drive, Suite 300 San Jose, California 95112-2716 (408) 918-3400 FAX (408) 280-6479 www.EHinfo.org

C FILE



November 10, 2005

Mr. Mitch Cole Lumileds Lighting, U.S. LLC 370 West Trimble Road San Jose, CA 95131 EPA ID: CAR000058081

For facility located at: 370 West Trimble Road San Jose, CA 95131

Initial Authorization: 3/22/2000 Amended: 10/4/2005

Dear Permit by Rule Facility:

AUTHORIZATION TO OPERATE FIXED TREATMENT UNIT PURSUANT TO PERMIT BY RULE

The County of Santa Clara Hazardous Materials Compliance Division has received your facility specific **amended** notification forms due to an ownership change from Agilent Technologies Inc. to Lumileds Lighting, U.S. LLC. The forms are administratively complete, but have not been reviewed for technical adequacy. A technical review of your notifications will be conducted when an inspection is performed. At any time, you may be inspected and could be subject to penalty if violations of laws or regulations are found. A copy of a Tiered Permit Audit Checklist for Permit by Rule can be obtained from website: www.EHinfo.org.

Pursuant to Title 22, California Code of Regulations (CCR), Section 67450.2(b), you are hereby authorized to operate the Fixed Treatment Units (NS-1, MPU-1) listed on the last page of this letter under permit by rule. Your authorization to operate under permit by rule expires one year after the authorization date shown above unless this office changes your period of authorization in writing pursuant to Title 22, CCR, Section 67450.3(c)(1).

You must notify this office annually under Permit by Rule regulations either by March 1 or when requested by this office to re-notify. Renewal packages will be sent to all operators of permit by rule units on or about February 1 of each subsequent year.

You must notify this office 60 days before first treating hazardous wastes in any new unit. You must also notify this office whenever any information you provided in these notification changes. To revise information, mail a cover letter to the above address explaining the changes, attach only the pages of your notification package that have changed, and re-sign and date at the signature space on Facility page of Unified Program Consolidated Form (UPCF). As set forth in Title 22, CCR section 67450.9(d), this authorization is contingent upon the accuracy of information submitted by you in the notifications mentioned above.

Facilities are required to implement the closure plan and close the PBR treatment unit(s) within 90 days of treating the last volume of hazardous waste (CCR 67450.3(c)(11)(D). You are also required to notify this office 15 days prior to the completion of the closure of any PBR unit or facility (CCR 67450.3(c)(11)(F)). The facility must stay in compliance with all regulations until the certification required by CCR 67450.3(c)(11)(G) is submitted. Additional guidance on closure will be issued from this office upon request.

EPA ID: CAD000058081

Since your facility is operating pursuant to Permit by Rule, you are responsible for complying with Section 25200.14 of the Health and Safety Code by completing a preliminary site assessment (Phase I Environmental Assessment). Form DTSC 1151 (Phase I Assessment checklist) is required to be submitted to the Department of Toxic Substances Control (DTSC) at the address noted on the form. A copy of the checklist and instructions to complete the form are enclosed for your convenience. The form is also available on website: www.dtsc.ca.gov. Violeta Mislang with DTSC can be contacted at (714) 484-5387 for questions concerning the Phase I Environmental Assessment/Corrective Action Program. We are requesting that you also submit a copy of the completed Phase I Assessment checklist to this office.

The annual permit fee for the PBR Tier is \$1,225.00 as of July 1, 2005. This Department will be invoicing you at a later date. If you have any questions regarding this letter, or have questions on operating requirements for your facility, please contact Lead Hazardous Materials Specialist Ruben Williams at (408) 918-1985.

Sincerely,

Micke Pullman

Nicole Pullman, R.E.H.S. Hazardous Materials Program Manager Hazardous Materials Compliance Division

Cc: Violeta Mislang, Department of Toxic Substance Control

Units authorized to operate at this location:

UNDER PERMIT BY RULE: NS-1, MPU-1

UNDER CONDITIONAL AUTHORIZATION:

UNDER CONDITIONAL EXEMPTION:





Department of Toxic Substances Control

Alan C. Lloyd, Ph.D. Agency Secretary Cal/EPA 700 Heinz Avenue, Suite 200 Berkeley, California 94710-2721

inold Schwarzenegger

Governor

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September 15, 2005

Mr. Mitch Cole Environmental Specialist Agilent Technologies 350 W. Trimble Road San Jose, California 95131

Dear Mr. Cole:

Thank you for contacting the Department of Toxic Substances Control (DTSC) regarding proposed upcoming changes in the working of the waste treatment unit at the Agilent and Lumileds facilities. After reviewing your schematics and reading your description the proposed treatment system changes, DTSC has determined that the wastewaters resulting from the neutralization of waste at the 350 Trimble Road address (referred to as "SPG" site in your letter) may be commingled with hazardous waste generated at 370 Trimble Road (referred to as "Lumileds" site in your letter).

You have indicated that the corrosive waste that will be treated at the SPG site is a characteristic D002 hazardous waste. As such, once treated to a condition that no longer meets hazardous waste criteria it is no longer subject to hazardous waste regulation and may be disposed of in any manner. Please be aware that the treatment of the D002 waste is subject to permitting requirements such as California's Permit-by-Rule, and additionally must be exempt from, or covered by, RCRA permitting requirements.

In looking at your information, there are two pieces of information that have the potential to raise concern: (1) the point at which the treated wastewater is added to the system, and (2) classification of the waste and permit status of the unit in which the commingled waste will be treated. DTSC would strongly suggest that the treated wastewater be added to the Lumileds NS-1 system at Tank W29 instead of Tank W28 to alleviate any concerns regarding dilution of any hazardous wastes also being received by Tank W28. Additionally, DTSC would like to reinforce that any wastes received by Tank W28 need to be characterized at their point of generation, and that it is at this point that their status as hazardous (or non-hazardous) wastes and eligibility for permitting requirements must be determined. All applicable permits or authorizations should be submitted and chanted by DTSC or the Santa Clara County CUPA.

Mr. Mitch Cole September 15, 2005 Page 2

During our phone conversation on September 14, 2005 you indicated that you were aware that the current variance, #01-H-VAR-01, would no longer be valid, and that neither Lumileds nor SPG would seek a new variance for these activities. I have spoken to Mr. David Wright of DTSC's Permitting Unit, and he is aware of Agilent's decision.

Thank you for contacting DTSC regarding the proposed changes in the Agilent-Lumileds-SPG waste treatment system. If you have any questions regarding this letter or the information contained in it please feel free to contact me at 510-540-3851 or <u>mpierce@dtsc.ca.gov</u>.

Sincerely,

Mich A A

Mickey Pierce Sr. Hazardous Substances Scientist State Oversight & Enforcement Branch Hazardous Waste Management Program Department of Toxic Substances Control

Cc:

Mr. Michael Balliet Santa Clara County Dept. of Environmental Health 1555 Berger Drive, Suite 300 San Jose, California 95112-2716

RECEIVED BY: SANTA CLARA COUNTY DEPT. OF ENV. HEALTH U X E S N "

2005 OCT 31 PM 1: 20

October 28, 2005

Mr. Mike Balliet Hazardous Materials Specialist Environmental Resources Agency Department of Environmental Health 1555 Berger Drive, Suite 300 San Jose, CA 95112-2716

Subject: Initial Financial Assurance Documentation - PBR: CAR 000 058 081

Dear Mr. Balliet:

Enclosed are the documents for the Financial Assurance for NS-1 and MPU-1. The independent CPA review is not complete and will be sent under a separate cover.

Included in this package:

- Unidocs Form: UPCF hwf1232 for Lumileds
- CFO letter using Alternative I
- Consolidated Financial Statements

Because Lumileds is not a publicly traded company, there is no SEC 10-K filing.

If you have any questions, please give me a call at 408-435-4205.

Sincerely,

1115

Mitch Cole Environmental Engineer

Enclosure



Lumileds Lighting, LLC 370 West Trimble Road San Jose, CA 95131 USA (877) 298-9455





2003 CCT -4 PM 2: 36

CERTIFIED MAIL ARTICLE NUMBER: 7099 3400 0016 2568 6280

September 30, 2005

Mr. Michael Balliet Hazardous Materials Specialist Department of Environmental Health 1555 Berger Drive, Suite 300 San Jose, CA 95112-2716

Subject: PBR Initial Notification

Mr. Balliet:

Enclosed is the initial notification of the wastewater treatment operations for the Lumileds operations at the San Jose facility located at 370 West Trimble Road, San Jose, California 95131.

Enclosed are the following Unified Program Forms

- Business Activities
- Business Owner/Operator Identification
- Onsite Hazardous Waste Treatment Notification- Facility Page
- Onsite Hazardous Waste Treatment Notification Unit Page NS-1
- Permit By Rule (PBR) Page NS-1
- Onsite Hazardous Waste Treatment Notification Unit Page MPU-1
- Permit By Rule (PBR) Page MPU-1
- System Schematic
- Plot Plan
- Tank Certifications

The financial assurance documentation will be sent to you by 11/1/2005.

If you have any questions, please call me at 408-435-4205.

Sincerely,

MI \square

Mitch Cole Environmental Engineer

enclosure

cc: Mr. Jan Radimsky, DTSC



Lumileds Lighting, LLC 370 West Trimble Road San Jose, CA 95131 USA (877) 298-9455





350 West Trimble Road San Jose, California 95131 Phone: 408-435-4205 Mobile: 408-592-3222 Fax: 408-435-4155

2005 SEP -7 PM 2: 12 CERTIFIED MAIL ARTICLE#:7002 0860 0002 4213 0146

September 2, 2005



Mr. Michael Balliet Hazardous Materials Specialist Department of Environmental Health 1555 Berger Drive, Suite 300 San Jose, California 95112-2716

Subject: Notification of New Activities at the Agilent Facility - San Jose

Dear Mr. Balliet:

The purpose of this letter is to followup our discussion on the hazardous waste treatment operational changes and ownership modifications.

As you know, we've been operating under Variance #01-H-VAR-01 relative to the commingling of hazardous wastewaters from Agilent and Lumileds operations for several years now. Recently, Agilent announced its intentions to sell off the Semiconductor Products Group to an outside investment firm. This is the business group making up the Agilent operations at this facility. Additionally, Agilent has decided to sell off its portion of the Lumileds joint venture to the other parent company- Phillips Lighting.

The effective date for these changes is 11/1/05. On this day, there will be no Agilent operations on site.

The language of the variance dictates that it will terminate at the change of ownership of either contributing party. Therefore we need to segregate these wastes from each company prior to 11/1/05.

The names of both of these companies will be changing moving forward. At this time -I do not have the legal entity name identified for either party. For the purpose of clarity -I'll be referring to the onsite operations that were Agilent as SPG, and the Lumileds operations as Lumileds.

The ownership of the physical facility and land will likely transfer to Lumileds. This isn't finalized yet.

Lumileds will be accepting the owner/operator status of the existing NS-1 and MPU-1 PBR FTUs. We will be submitting all of the appropriate forms for this application as soon as the name of the company is finalized. This is expected by 9/16/2005.

The SPG operations have been the smaller of the two companies for some time now and the plan is to move wet fab operations offsite by April of 2006. So, from November 2005 to April 2006, we need to address the D002 and D004 wastewaters from these operations separate from Lumileds. Mr. Michael Balliet Department of Environmental Health Page 2 9/2/2005

For the D002 wastewater, we are installing a treatment system for elementary pH neutralization named NS-2. The operational tier for this FTU has not been defined yet. This single stage system will neutralize the corrosive wastewaters to non-hazardous levels. The discharge from NS-2 will enter the first stage of NS-1 as non-hazardous industrial water. I'm currently working with James Stettler and Mickey Pierce at DTSC to address your concerns that this constitutes dilution as a treatment technology relative to the operation of NS-1. Unlike concentration based contaminants like Arsenic, pH is a balance of hydronium and hydroxyl ions in an aqueous solution – the introduction of additional neutral water has little effect on the overall pH.

The formal application for this FTU will be submitted on about 9/16/05 when I get the official company name.

A set of schematics for the three hazardous waste treatment systems are attached.

The SPG wastes currently treated in the MPU-1 treatment system (fluorides and D004) will be collected. The HF is now manually collected in bottles at each of the workstations for eventual offsite disposal. The other D004/D002 waste containing H_2O_2 , NH₄OH, As and H_2O , will be collected in a series of manifolded drums in the basement. This manifold system will have wastefeed cutoff, automatic solenoid valves to change containers and a remote DI cutoff at the workstation in the event that the system capacity is reached.

When full, these drums of waste will be shipped offsite to a permitted TSDF for treatment.

If you have any questions, please give me a call at 408-435-4205.

Sincerely,

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Mitch Cole Environmental Specialist

enclosure

cc: Mr. Jan Radimsky Permit Streamlining Branch PO Box 806 Sacramento, California 95812-0806
Environmental Resources Agency Department of Environmental Health Hazardous Materials Compliance Division 1555 Berger Drive, Suite 300 San Jose, CA 95112-2716 (408) 918-3400 Fax (408) 280-6479 www.EHinfo.org



OFFICIAL NOTICE OF INSPECTION

Facility Name:	Lumileds Lighting LLC		Inspection Date: 5/4/05
Site Address:	370 W. Trimble Rd. San J	ose	Employee No.: 10088
Contact Person(s):	Mitch Cole		Samples Taken? Photographs Taken? Yes; No.
Inspection Type:	Hazardous Materials Hazardous Waste Tiered Permit	 Toxic Gas Cal-Accidental Release Prevention Program Other 	Hazardous Waste Generator Type: □ < 1,000 Kg./mo.

VIOLATIONS: Codes noted below in the "Violation Code" column represent specific violations of State law and/or local Ordinance. These codes are defined in the attached Violation Codes document(s). Time granted for correction of violations does not preclude any enforcement action by this Department or other agencies. This facility may be subject to reinspection at any time.

Violation Codes	Summary of Violations, Notice to Comply, Observations, and Required Corrective Actions	Corrective Actions Taken
	Inspection began on 04/25/05, continued on 04/26/05 and concluded	
	today.	
2201	Waste determinations for the following wastes have not been made:	See Attached cover
	- You must perform a waste determination on the phosphorus waste	letter
	in the Epi area. Water with phosphorus is being discharged to the PBR	
	unit. This waste should be included in your waste analysis plan.	
	- OBserved 1 x 55gal blue drum in the storage yard area that were not	
	labeled and their contents not known. Perform a waste determination	
	and properly dispose of these drums.	
2206	Observed haz waste containers that were not properly labeled and/or	
2209	sealed in the following areas:	
	- Epi pass thru: Observed 1 x 30gal arsenic waste and 1 x 30gal	
	pyrophoric waste without lids.	TRATERED
	- UPE Sink: 2 x gal graphite waste without a lid.	SP Wall ost
	- Rm. 11N9: Observed 1 x 5gal used oil without label	the second se
	- Rm. 1BP5: Observed 1 x gal used oil not labeled/sealed.	
	- Rm. 1BT2: Observed 1 x 5gal used oil not labeled	

All violations must be corrected within 30 days of the inspection date unless noted otherwise, above. Section 25187.8 of the State Health and Safety Code (H&SC) requires that you write a brief description of the corrective actions you have taken to bring this facility into compliance and submit it to this Department within 5 days of achieving compliance, or within 35 days of the inspection date, whichever comes first. (Note: Detailed instructions on actions you must take are printed on the reverse side of this page.)

Received by

Inspected by:

Entered by:

FACILITY SENDS YELLOW COPY TO AGENCY, KEEPS PINK COPY.

Page 1 of

THE OFFICIAL NOTICE OF INSPECTION PLAINED

This Official Notice of Inspection (Notice of Inspection) describes the findings made during the inspection, including all violations and any actions that must be taken by the facility to correct the violations. All violations must be corrected within 30 days of the inspection date unless noted otherwise by the inspector.

Within five working days of achieving compliance, or within 35 days of the inspection, whichever comes first, you must submit a written response which describes the corrective actions you have taken or - for those violations which are impossible to correct within 30 days - propose to take in order to bring your facility into compliance. Where proposed corrective actions are described, you must specify a date by which you expect each violation to be corrected. After you have addressed each violation, complete the certification box located at the bottom of page 1 of the Notice of Inspection. Your description of corrective actions taken, along with your signed certification of the Notice of Inspection and any required supporting documents, will serve as your written response to the inspection. Your response must be mailed to the Santa Clara County Hazardous Materials Compliance Division (HMCD) at 1555 Berger Drive, Suite 300, San Jose, CA 95112-2716.

What Does the Information in Each Column Mean?

Violation Code: Codes listed in this column identify specific violations of laws, regulations, or codes which were observed during this inspection. Definitions of Violation Codes are listed on the attached Violation Codes document(s).

Summary of Violations, Notice to Comply, Observations, and Required Corrective Actions: Information noted in this column describes the circumstances of any violations noted in the first column and describes how the violations may be corrected. Additionally, the inspector may use this space to note any additional observations resulting from the inspection.

Corrective Actions Taken: This column on the Notice of Inspection has been provided so that you can note how you have corrected or propose to correct each violation. Where proposed corrective actions are described, you must specify a date by which you expect each violation to be corrected. If more space is needed, attach additional pages.

Why Were Two Copies of the Notice of Inspection Given to Me?

You have been given two copies so you will have a copy for your own records after you submit your written response to HMCD. Do not separate the copies until you have described all of your corrective actions and signed the certification box on page 1. The yellow copy of each page must be submitted to HMCD. The pink copy is for your records.

What if I Disagree With a Violation Noted on the Notice of Inspection?

If you disagree with any violation listed in this Notice of Inspection, you must submit a written Notice of Disagreement, within 35 days of the inspection date, to the inspector who cited the violation. In your Notice of Disagreement, you must explain in detail why the violation does not exist. If there is sufficient space, you may use the "Corrective Actions Taken" column of this Notice of Inspection to dispute violations.

What About Photographs or Samples Taken During the Inspection?

Since this Notice of Inspection was prepared and given to you at the end of the inspection, any photographs and sampling or laboratory results associated with the inspection were not yet available. A copy of any photographs and/or analytical results from sampling taken during this inspection will be provided to you upon written request. Other pertinent information derived from the inspection is attached to this Notice of Inspection. Photographs and sample results may be withheld in the event of a criminal investigation or other ongoing investigation.

Hazardous Waste Violations

- Per H&SC §25187.8(g)(1), failure to sign the certification on this Notice of Inspection and return it to this Department is a violation of State law.
- Per H&SC §25191, a false statement that compliance has been achieved is a violation of State law punishable by a fine of not less than \$2,000 or more than \$25,000 and/or imprisonment in the county jail for up to one year.
- Per H&SC §25187.8(j), this Department has the right to acquire the submittal of reasonable and necessary documentation in support of any claim of compliance made by your facility.

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Environmental Resources Agency Department of Environmental Health Hazardous Materials Compliance Division 55 Berger Drive; Suite 300 San Jose; CA 95112-2716 (408) 918 3400 Fax (408) 280-6479 www.EHinfo.org

OFFICIAL NOTICE OF INSPECTION

(Continuation Page)

Facility Name: Lumileds Lighting LLC

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Inspection Date: 05/04/05

violation	Summary of Violations, Notice to Comply,	Corrective Actions
Codes	Observations, and Required Corrective Actions	Taken
	All hazardous waste containers must be properly labeled and	
	sealed as required. Label and seal these containers as required.	
2218	Several manifests for the solvent waste did not have an RQ	Sa Attached love
	listed in the shipping description. For example, manifest	leffer
	24113033 dated 11/10/04 did not have an RQ. Some of the	
	manifests for the same waste did have an RQ. Determine the	
	applicability of the RQ and properly apply to all manifests.	
	Observed manifest number 22703031 dated 07/28/03 that had	
	a line item listed with a shipping description of "oil, nos, none,	
	none" for a used oil shipment. This is not a proper shipping	
	description for non-rcra hazardous waste. Ensure all future	
	shipments use the correct shipping name.	
· _,	Note: Mercury is being solidified in the Mercury Doping station.	
	This solidification is being done while connected to the process	
	equipment and is not treatment of a hazardous waste. I would	
	recommend not solidifying this waste because it is more	
	expensive to dispose of. Ensure any contaminated debris is	
	being properly disposed of (i.e. the proper waste stream).	
<u></u>	Note: I recommend you label the source boxes for the pyrophoric	
<u></u>	liquids in Bay 5 as empty. An emergency responder may assume	SP. Inta-
	these boxes are full.	
	Note: A solvent tank ruptured into the secondary containment	
	and about 40gallons of solvent was released. The spill did not $\frac{1}{\sqrt{2}}$	
	leave the secondary containment and was cleaned up	
	immediately. The tank has been put out-of-service and will be	
	removed and properly disposed of.	
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FACILITY SENDS YELLOW COPY TO AGENCY, KEEPS PINK COPY. $\textcircled{O}_{2054 \text{ REV 11/01}}$ Page \mathcal{A}_{-} of \mathcal{A}_{-} HMCD-015 - 1/1Page \mathcal{A}_{-} of \mathcal{A}_{-}





2005 JUN - 8 AM 11: 17

June 7, 2005

Mr. Michael Balliet Hazardous Materials Specialist Environmental Resources Agency Department of Environmental Health Hazardous Materials Compliance Division 1555 Berger Drive, Suite 300 San Jose, CA 95112-2716

Subject: Follow up from the inspection on 5/4/05 for the Lumileds Operations

Dear Mr. Balliet:

The purpose of this letter is to summarize the responses to issues discovered during the compliance inspection starting 4/25 and ending on 5/4 of 2005.

Code 2201, Waste determinations not being made:

The phosphorous waste comes from the bubbler operation at the tail end of the Vapor Phase Epi process. It is hazardous primarily due to the corrosivity and toxicity characteristics. The corrosivity comes from the Hydrogen Chloride which is partially dissolved into the liquid. The toxicity comes from the ethylene glycol. According to you, it fails the fish bio-assay in concentrations greater than 30%.

As the waste drains from the sink, it is diluted by about a 10 to 1 ratio from the rinsing operation on the quartz bubblers. Additionally – due to other regulatory pressures (SARA), we are evaluating alternative chemistries for the bubbler media. The proposed replacement with better physical properties and LD 50 oral rat values that are three times higher than ethylene glycol is dipropylene glycol.

The blue drum in the service yard was evaluated. It turns out to be rain water. The bungs were loose and the rain water was able to partially fill the container over time. We checked it for pH, fluorides, organics, and oxidizers using the spillfiter test strips. All the tests were negative. The water was drained into the wastewater treatment system and the drum will be recycled at the next quarterly shipment.

Code 2206 & 2209 Waste containers not labeled and/or sealed, :

Within the Epi passthru, the arsenic waste and pyrophoric containers have been provided with lids.



Lumileds Lighting, LLC 370 West Trimble Road San Jose, CA 95131 USA (877) 298-9455 June 7, 2005 Department of Environmental Health Page 2 of 2

The graphite containers do not have lids due to the slow gas buildup with pyrophoric characteristics. This waste is not actually graphite related. These containers are from the VPE bubblers. The large solids are collected in these two containers. The bubblers containing ethylene glycol lose almost all of it during the process due to evaporation. This leaves a hard solid deposit on the bottom of the bubbler that is challenging to remove. The first cleaning cycle is with water and agitated with a nitrogen gun. The solids that don't pass through the mesh decking of the workstation are collected in the 1 gallon jugs. This is followed up with the Aqua Regia etch solution to remove the remaining materials. The pieces that don't go through the strainer are collected in the other 1 gallon jug.

We are changing the process to eliminate both of these wastes by changing the bubbler design to incorporate a chilled water cooling coil. It has already been incorporated into about half of the Vapor Phase Epi Reactors, with the remainder scheduled for changeover by August 1st 2005.

The original process incorporated a bubbler to capture the solids to the extent practical and prevent them from entering the exhaust system. The problem is that the heat of the process gases (about 750* C) has enough energy to volatilize most of the ethylene glycol by the time the process is complete. This has two negative effects: The downstream transportation of ethylene glycol into the ductwork; and the crystallization of capture solids into large pieces. The crystallized material in the bubbler is generating the waste in the 1 gallon jugs. The replacement bubbler eliminates these two negative effects by preventing the evaporation of the ethylene glycol in the first place.

The oil containers found without labels and lids have been collected, labeled and located in the hazardous waste storage area.

Code 2218 Manifesting:

The manifests had inconsistently applied the RQ designation for solvent wastes. As a D001 waste, the RQ is 100 pounds and therefore all shipments should have had the RQ designation within the DOT shipping name on the manifest. I discussed this with our hazardous waste vendor to make sure they understand and apply the appropriate codes to the manifest. Moving forward, all future manifests will be more closely scrutinized by Agilent staff to verify appropriate shipping documentation.

This should resolve the issues discovered during the inspection. If you have any questions, please give me a call at 408-435-4205.

Sincerely,

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Mitch Cole Environmental Specialist

Environmental Resources Agency Department of Environmental Health Hazardous Materials Compliance Division 1555 Berger Drive, Suite 300 San Jose, CA 95112-2716 (408) 918-3400 Fax (408) 280-6479 www.EHinfo.org

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OFFICIAL NOTICE OF INSPECTION

Facility Name:	Lumileds Lighting LLC		Inspection Date: 5/4/05
Site Address:	370 W. Trimble Rd. San J	ose	Employee No.: 10088
Contact Person(s):	Mitch Cole		Samples Taken? Photographs Taken? Yes; No.
Inspection Type:	 Hazardous Materials Hazardous Waste Tiered Permit 	 Toxic Gas Cal-Accidental Release Prevention Program Other 	Hazardous Waste Generator Type: □ < 1,000 Kg./mo. X ≥ 1,000 Kg./mo. □ CESQG □ Satellite Only

VIOLATIONS: Codes noted below in the "Violation Code" column represent specific violations of State law and/or local Ordinance. These codes are defined in the attached Violation Codes document(s). Time granted for correction of violations does not preclude any enforcement action by this Department or other agencies. This facility may be subject to reinspection at any time.

Violation Codes	Summary of Violations, Notice to Comply, Observations, and Required Corrective Actions	Corrective Actions Taken		
	Inspection began on 04/25/05, continued on 04/26/05 and concluded			
	today.			
2201	Waste determinations for the following wastes have not been made:			
	- You must perform a waste determination on the phosphorus waste			
	in the Epi area. Water with phosphorus is being discharged to the PBR			
	unit. This waste should be included in your waste analysis plan.			
	- OBserved 1 x 55gal blue drum in the storage yard area that were not			
	labeled and their contents not known. Perform a waste determination			
	and properly dispose of these drums.			
2206	Observed haz waste containers that were not properly labeled and/or			
2209	sealed in the following areas:			
	- Epi pass thru: Observed 1 x 30gal arsenic waste and 1 x 30gal			
	pyrophoric waste without lids.			
	- WPE Sink: 2 x gal graphite waste without a lid.			
	- Rm. 11N9: Observed 1 x 5gal used oil without label			
	- Rm. 1BP5: Observed 1 x gal used oil not labeled/sealed.			
	- Rm. 1BT2: Observed 1 x 5gal used oil not labeled			

All violations must be corrected within 30 days of the inspection date unless noted otherwise, above. Section 25187.8 of the State Health and Safety Code (H&SC) requires that you write a brief description of the corrective actions you have taken to bring this facility into compliance and submit it to this Department within 5 days of achieving compliance, or within 35 days of the inspection date, whichever comes first. (Note: Detailed instructions on actions you must take are printed on the reverse side of this page.)

Received by:	Inspected by: M. Ballila	Entered by: WW
Certification: I certify under penalty of	perjury that this facility has complied with directives s	pecified in this Notice to Comply.
Signature of Owner/Operator:	Title:	Date: / / /
FACILITY SENDS YELLOW COPY TO AG	ENCY, KEEPS PINK COPY.	,

THE OFFICIAL NOTICE OF INSPECTION EXPLAINED

This Official Notice of Inspection (Notice of Inspection) describes the findings made during the inspection, including all violations and any actions that must be taken by the facility to correct the violations. All violations must be corrected <u>within 30 days</u> of the inspection date unless noted otherwise by the inspector.

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What Does the Information in Each Column Mean?

- **Violation Code:** Codes listed in this column identify specific violations of laws, regulations, or codes which were observed during this inspection. Definitions of Violation Codes are listed on the attached Violation Codes document(s).
- Summary of Violations, Notice to Comply, Observations, and Required Corrective Actions: Information noted in this column describes the circumstances of any violations noted in the first column and describes how the violations may be corrected. Additionally, the inspector may use this space to note any additional observations resulting from the inspection.

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What About Photographs or Samples Taken During the Inspection?

Since this Notice of Inspection was prepared and given to you at the end of the inspection, any photographs and sampling or laboratory results associated with the inspection were not yet available. A copy of any photographs and/or analytical results from sampling taken during this inspection will be provided to you upon written request. Other pertinent information derived from the inspection is attached to this Notice of Inspection. Photographs and sample results may be withheld in the event of a criminal investigation or other ongoing investigation.

Hazardous Waste Violations

- Per H&SC §25187.8(g)(1), failure to sign the certification on this Notice of Inspection and return it to this Department is a violation of State law.
- Per H&SC §25191, a false statement that compliance has been achieved is a violation of State law punishable by a fine of not less than \$2,000 or more than \$25,000 and/or imprisonment in the county jail for up to one year.
- Per H&SC §25187.8(j), this Department has the right to acquire the submittal of reasonable and necessary documentation in support of any claim of compliance made by your facility.

Environmental Resources Agency Department of Environmental Health Hazardous Materials Compliance Division

Facility Name: ____Lumileds Lighting LLC

OFFICIAL NOTICE OF INSPECTION

(Continuation Page)

Inspection Date: 05/04/05

Violation Codes	Summary of Violations, Notice to Comply, Observations, and Required Corrective Actions	Corrective Actions Taken
	All hazardous waste containers must be properly labeled and	
	sealed as required. Label and seal these containers as required.	
2218	Several manifests for the solvent waste did not have an RQ	
	listed in the shipping description. For example, manifest	
	24113033 dated 11/10/04 did not have an RQ. Some of the	
	manifests for the same waste did have an RQ. Determine the	
	applicability of the RQ and properly apply to all manifests.	
	Observed manifest number 22703031 dated 07/28/03 that had	
,	a line item listed with a shipping description of "oil, nos, none,	
	none" for a used oil shipment. This is not a proper shipping	
	description for non-rcra hazardous waste. Ensure all future	
	shipments use the correct shipping name.	
	Note: Mercury is being solidified in the Mercury Doping station.	
	This solidification is being done while connected to the process	
	equipment and is not treatment of a hazardous waste. I would	
	recommend not solidifying this waste because it is more	
	expensive to dispose of. Ensure any contaminated debris is	
	being properly disposed of (i.e. the proper waste stream).	
	Note: I recommend you label the source boxes for the pyrophoric	
	liquids in Bay 5 as empty. An emergency responder may assume	
	these boxes are full.	
	Note: A solvent tank ruptured into the secondary containment	
	and about 40gallons of solvent was released. The spill did not	
	leave the secondary containment and was cleaned up	
	immediately. The tank has been put out-of-service and will be	
	removed and properly disposed of.	
	\	

Received by:

Inspected by: <u>M. Balliet</u> Y. El

FACILITY SENDS YELLOW COPY TO AGENCY, KEEPS PINK COPY. $\textcircled{O}_{2054 \text{ REV 11/01}}$ Page _____ of ____.HMCD-015 - 1/1Page _____ of ____.

Environmental Resources Agency Department of Environmental Health Hazardous Materials Compliance Division

1555 Berger Drive, Suite 300

San Jose, CA 95112-2716

(408) 918-3400 Fax (408) 280-6479 www.EHinfo.org

CO/PR/TA ID		SC	Time
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OFFICIAL NOTICE OF INSPECTION

Facility Name: LUMiledes Lighting	Inspection Date: 04/25/05
Site Address: 370 W. Trimble Rel. ST	Employee No.:
Contact Person(s): Mitch Coll	Samples Taken? Photographs Taken? Yes; Yes:
Inspection Type: Hazardous Materials Toxic Gas Hazardous Waste Cal-Accidental Release Prevention Program Fiered Permit Other	Hazardous Waste Generator Type: $\square < 1,000 \text{ Kg./mo}.$ $\square \ge 1,000 \text{ Kg./mo}.$ $\square CESQG$ \square Satellite Only

VIOLATIONS: Codes noted below in the "Violation Code" column represent specific violations of State law and/or local Ordinance. These codes are defined in the attached Violation Codes document(s). Time granted for correction of violations does not preclude any enforcement action by this Department or other agencies. This facility may be subject to reinspection at any time.

Violation Codes	Observation	Summary of Violations, Notice to Comply, Observations, and Required Corrective Actions				Corrective Actions Taken	
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All violations must be corrected within 30 days of the inspection date unless noted otherwise, above. Section 25187.8 of the State Health and Safety Code (H&SC) requires that you write a brief description of the corrective actions you have taken to bring this facility into compliance and submit it to this Department within 5 days of achieving compliance, or within 35 days of the inspection date, whichever comes first. (Note: Detailed instructions on actions you must take are printed on the reverse side of this page.),

Received by:

Inspected by:

Entered by:

Certification: I certify under penalty of perjury that this facility has complied with directives specified in this Notice to Comply.

Page 1 of

Signature of Owner/Operator:

Title:

Date:

FACILITY SENDS YELLOW COPY TO AGENCY, KEEPS PINK COPY.

THE OFICIAL NOTICE OF INSPECTION EXPLAINED

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What Does the Information in Each Column Mean?

Violation Code: Codes listed in this column identify specific violations of laws, regulations, or codes which were observed during this inspection. Definitions of Violation Codes are listed on the attached Violation Codes document(s).

Summary of Violations, Notice to Comply, Observations, and Required Corrective Actions: Information noted in this column describes the circumstances of any violations noted in the first column and describes how the violations may be corrected. Additionally, the inspector may use this space to note any additional observations resulting from the inspection.

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What About Photographs or Samples Taken During the Inspection?

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Hazardous Waste Violations

• Per H&SC §25187.8(g)(1), failure to sign the certification on this Notice of Inspection and return it to this Department is a violation of State law.

- Per H&SC §25191, a false statement that compliance has been achieved is a violation of State law punishable by a fine of not less than \$2,000 or more than \$25,000 and/or imprisonment in the county jail for up to one year.
- Per H&SC §25187.8(j), this Department has the right to acquire the submittal of reasonable and necessary documentation in support of any claim of compliance made by your facility.

Environmental Resources Agency Department of Environmental Health Hazardous Materials Compliance Division

1555 Berger Drive, Suite 300 San Jose, CA 95112-2716

(408) 918-3400 Fax (408) 280-6479 www.EHinfo.org

CO/PR/TA ID	PE	SC	Time
PR0367934	1708	02	150
		rute tester	
			i sente d'activité par Célégiése a construction
al an		n a standard an anna an a	

OFFICIAL NOTICE OF INSPECTION

Facility Name:	winteds light	4°ney	Inspection Date: 04/26/05
Site Address:	370 W. Trinds	elfd IT	Employee No.: 10080
Contact Person(s):	Mitch Cole		Samples Taken? Yes; No. Photographs Taken? Yes; So.
Inspection Type:	 Hazardous Materials Hazardous Waste Fiered Permit 	 Toxic Gas Cal-Accidental Release Prevention Program Other 	Hazardous Waste Generator Type: ☐ < 1,000 Kg./mo. ☐ CESQG ☐ Satellite Only

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Violation	Summary of Violations, Notice to Comply,	Corrective Actions
Codes	Observations, and Required Corrective Actions	Taken
	Inspection withined today & will contin on Minday 05/02/05	e
	On Monday 05/02/05	
	Rovide the data for her waste tong	e
	Provide the data for her waste toning G: 2004.	
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All violations must be corrected within 30 days of the inspection date unless noted otherwise, above. Section 25187.8 of the State Health and Safety Code (H&SC) requires that you write a brief description of the corrective actions you have taken to bring this facility into compliance and submit it to this Department within 5 days of achieving compliance, or within 35 days of the inspection date, whichever comes first. (Note: Detailed instructions on actions you must take are printed on the reverse side of this page.)

Received by:

FACILITY SENDS YELLOW COPY TO AGENCY, KEEPS PINK COPY.

Inspected by:

Entered by:

Certification: I certify under penalty of perjury that this facility has complied with directives specified in this Notice to Comply.

Page 1 of

Signature of Owner/Operator:

Title:

allie

Date:

HMCD-014 - 1/2

THE OFFICIAL NOTICE OF INSPECTION EXPLAINED

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Hazardous Waste Violations

- Per H&SC §25187.8(g)(1), failure to sign the certification on this Notice of Inspection and return it to this Department is a violation of State law.
- Per H&SC §25191, a false statement that compliance has been achieved is a violation of State law punishable by a fine of not less than \$2,000 or more than \$25,000 and/or imprisonment in the county jail for up to one year.
- Per H&SC §25187.8(j), this Department has the right to acquire the submittal of reasonable and necessary documentation in support of any claim of compliance made by your facility.

13

Department of Environmental Health Hazardous Materials Compliance Division 2220 Moorpark Avenue P.O. Box 28070 San Jose, CA 95159-8070 (408) 299-6930 Fax (408) 280-6479

Program Record ID	P	SC	Time
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OFFICIAL NOTICE OF INSPECTION

Facility Name:			Inspection Date:
	Lumileds Lighting LI	"C	05/16/02
Site Address:			Work Area:
	370 W. Trimble Rd.	San Jose	
Contact Person(s):	·		Employee No.:
.,	Steve LaFiremza	· · · · · · · · · · · · · · · · · · ·	10088
Inspection Type:	Hazardous Materials	Cal-Accidental Release Prevention Program	Samples Taken? Yes; No.
	Hazardous Waste	Medical Waste Storage/Treatment	Photographs Taken? 🔲 Yes; 🖄 No.
	🔲 Toxic Gas	Medical Waste Generator	X

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Violation Codes	Summary of Violations, Notice to Comply, Observations, and Required Corrective Actions	Corrective Actions Taken
220%	Observed 1 x 55gal vacuum dust waste in the Process Cooking	See attached letter
	Basement that was not labeled with the accumulation start date (ASD)	
	Observed 1 x EP2 cake waste that had an ASD of 08/19/02 This is	
	not the correct date. Observed 1 x gal wafen scrap near column 11R9 in	
	the fab room that did not have and ASD. Observed 1 x gal C35 waste	
	and 2 x gal indium GAS waste near sink 11N701 in the fab that did	
	not have an ASD. Observed 1 & gal waste container in waste pass thru	
	#11H6 that did not have a label. All hazardous waste containers must	
	be properly labeled at all times. Label these containers.	
	· · · · · ·	1 2
2212	Observed spillage of oil/solvent in the cabinet that holds the	See attached letter
	transfer equipment for the solvent tank. All spills and leaks must be	
	cleaned up immediately to minimize the possibility of an unplanned	
	release to the environment. Clean up this area.	
2235	Observed 2 x 15gal empty haz mat containers that were empty near the	See Attachal letter
	waste area. These were not marked properly. You must mark empty	
	drums >5gal with the date they became empty and manage within 1 year.	

All violations must be corrected within 30 days of the inspection date unless noted otherwise, above. Section 25187.8 of the State Health and Safety Code (H&SC) requires that you write a brief description of the corrective actions you have taken to bring this facility into compliance and submit it to this Department within 5 days of achieving compliance, or within 35 days of the inspection date, whichever comes first. (Note: Detailed instructions on actions you must take are printed on the reverse side of this page.)

	Received by:	Inspected by	M. Balli	Entere	ed by: $\frac{10/29}{11/02}$
	Certification: I certify under pen	alty of perjury that this facility	has complied with di	rectives specified in this Not	tice to Comply.
X			_	_	
	Signature of Owner/Operator:	f Con		ep Dat	ie: 6 14 02
	FACILITY SENDS YELLOW COPY		YY.		
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Page 1 of <u>K</u>.

HMCD-014 - 1/2 Rev. 11/20/97

THE OPICIAL NOTICE OF INSPECTION PLAINED

This Official Notice of Inspection (Notice of Inspection) describes the findings made during the inspection, including all violations and any actions that must be taken by the facility to correct the violations. All violations must be corrected <u>within 30 days</u> of the inspection date unless noted otherwise by the inspector.

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Hazardous Waste Violations

^o Per H&SC, Section 25187.8(g)(1), failure to sign the certification on this Notice of Inspection and return it to this Department is a violation of State law.

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• Per H&SC, Section 25187.8(j), this Department has the right to acquire the submittal of reasonable and necessary documentation in support of any claim of compliance made by your facility.

ounty of Santa Clara Department of Environmental Health

Hazardous Materials Compliance Division

2220 Moorpark Avenue P.O. Box 28070 San Jose, CA 95159-8070-(408) 299-6930 Fax (408) 280-6479

OFFICIAL NOTICE OF INSPEC TION

(Continuation Page)

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Facility Name: Lumileds Lighting

Inspection Date: 05/16/02

Violation Codes	Summary of Violations, Notice to Comply, Observations, and Required Corrective Actions	Corrective Actions Taken
	Inspection began on 05/15/02 and concluded on 05/16/02.	-
	Lumileds and Agilent have been granted a variance by DTSC	
<u></u>	and are authorized to treat hazardous waste generated on-site	
	by either company.	-
	Agilent operates the two PBR units. Agilent manages all haz	
	waste activities for Lumileds at this site. Currently, Agilent also	
	trains all Lumilods amployees as required.	
	name an Estimate amprayaes as regumes.	
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Received	by: Inspected by: Ut. 70	WELV/

Agilent Technologies



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Jun 19

CERTIFIED MAIL ARTICLE #7099 3400 0016 2568 2206

June 13, 2002

Mr. Mike Balliet County of Santa Clara Department of Environmental Health 2220 Moorpark Avenue San Jose, CA 95159

Subject: Inspection of Agilent & Lumileds 5/16/02

Dear Mr. Balliet:

This is in response to the CUPA program inspection conducted on 5/16/02 at the Agilent/Lumileds facility located at 350-370 West Trimble Road, San Jose, California.

Agilent Findings:

Violation Code	Summary	Corrective actions taken:
2201	Acid wipes in the Gemini Area are being rinsed with water and disposed of as non-haz waste. A waste determination could not be found for this waste. You must perform a waste determination and provide our office a copy of this determination.	Waste determination: This waste is hazardous (D002) due to the low pH of the liquids contaminating the paper or fabric based wipe. These wastes were rinsed three times with clean water to remove the low pH material in an effort to reduce waste in conformance with SB-14 (1989 hazardous waste reduction act). This is hazardous waste treatment. Because this is not an authorized treatment technology under permit-by- rule regulations, to continue this operation would require full RCRA TSDF standard permit. Therefore this treatment process has been terminated and all waste is now collected and shipped offsite to a TSDF.
2205	Acid contaminated wipes are being rinsed with water and the liquid waste being discharged to the Acid Waste Neutralization system. This may be considered treatment under the definition of treatment. This process changes the physical and chemical characteristics of the waste and results in the removal and/or the reduction of hazardous properties of the waste. Cease this process until a waste determination has been made on the wipes and this process.	This process has been terminated. Wipes are being collected for disposal as Hazardous Waste under profile #548706.

Mr. Mike Balliet County of Santa Clara June 13, 2002 page 2

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Violation	Summary	Corrective actions taken:
Code		
3219	Observed manifest number 21545919 dated 4/15/02 has not been mailed to DTSC. Your are required to notify DTSC of hazardous waste shipments within 30 days of shipping the waste. Mail this copy to DTSC.	This manifest was mailed to DTSC on 5/20/02.
2220	Observed manifest number 21204990 dated 11/12/01 that was not signed by the TSDF as required. You are required to obtain a copy signed by the TSDF and keep it on file for 3 years. Obtain the signed copy of the manifest.	A signed copy of the TSDF page was faxed to our office on 5/20/02. It has been filed with the rest of them.
2251	Observed manifest number 21545919 dated 4/15/02 that was signed by Andy Wan. Training records for M. Wan related to hazardous waste manifesting procedures could not be found. You are required to train employees who manage hazardous waste in procedures relevant to the positions in which they are employed. If Mr. Wan is not trained in proper procedures for signing a manifest, he should not sign the manifest. Provide out office clarification on this issue and how he is trained.	Andy Wan was not authorized to sign hazardous waste manifests. This was an internal communication issue within Agilent (one Department unaware of the requirements) which has been resolved. Only those personnel trained in Hazardous Waste Management and DOT hazardous materials shipment requirements are and will be signing manifests.

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2218	An Agilent solvent shipment was	Prior to the formation of the joint venture
2210		• •
	shipped on 8/2/01 under the Lumileds	between Agilent and Phillips Lighting, the
	name and EPA ID# on the manifest	operations at this facility were under a single
	number 21237333. You must ship	legal business. The tanks for collecting the
	waste off site using a properly	solvent wastes were collected at the same time in
	completed manifest. Properly ship	a single compartment tanker truck and managed
	this waste in the future. Provide our	as a single waste. The solvent wastes from both
	office with a description of how and	buildings were essentially identical and were
	why this happened and how you will	commingled. With the creation of the new legal
	prevent it in the future. Notify DTSC	entity, Lumileds, the wastes from each business
	as applicable.	were separated by virtue of the fact that each
		business is in a different building. Lumileds in
		bldg 91, and Agilent in 90. In July of 2001,
		Agilent received a variance (01-H-VAR-01) from
		DTSC. This variance authorized Agilent to treat
		hazardous wastewaters from Lumileds under the
		PBR permit program. There was an incorrect
		interpretation of this variance by Agilent to
		include the commingling of solvent wastes for
		disposal. Once this was discovered to be
		incorrect, this management method was halted.

Lumileds Findings:

Violation	Summary	Corrective actions taken:
Code		
2206	Observed 1 x 55 gallon vacuum dust waste in the process cooling basement that was not labeled with the accumulation start date (ASD) Observed 1 x EP2 cake waste that had an ASD of 08/19/02. This is not the correct date. Observed 1 x gal wafer scrap near column 11R9 in the fab room that did not have an ASD. Observed 1 x gal C-35 waste and 2 x gal indium GAS waste near sink 11N701 in the fab that did not have an ASD. Observed 1 x gal waste container in the waste pass thru 11H6 that did not have a label. All hazardous waste containers must be properly labeled at all times. Label these containers.	All container labeling issues were corrected by 5/20/02. In addition, we have modified out chemical safety/haz comm training to emphasize the labeling and container requirements to the fab personnel.

Mr. Mike Balliet County of Santa Clara June 13, 2002 page 4

2212	Observed spillage of oil/solvent in the cabinet that holds the transfer equipment for the solvent tank. All spills and leaks must be cleaned up immediately to minimize the possibility of an unplanned release to the environment. Clean up this area.	The cabinet contained rags used in clean up after solvent pickups. This cabinet is not weatherproof, and rainwater mixed with the rags to make a mess. The cabinet was cleaned on 5/17/02. Further review determined that the cabinet wasn't necessary in the area so it was removed.
2265	Observed 2 x 15 gal empty hazardous materials containers that were empty near the waste area. These were not marked properly. You must mark empty drums >5 gallon with the date they became empty and manage within 1 year.	Labels were placed on the containers on 5/17/02.

If you have any other questions, please call me at (408) 435-4205.

Sincerely,

m Uc

Mitch Cole Environmental Representative

Department of Environmental Health

Hazardous Materials Compliance Division 2220 Moorpark Avenue P.O. Box 28070 San Jose, CA 95159-8070 (408) 299-6930 Fax (408) 280-6479

Program Record ID	P	SC	Time
367934	2208	01	112
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OFFICIAL NOTICE OF INSPECTION

Facility Name:	Wmileds Light	ing	Inspection Date: OS/15/02
	370 W. Trimbl	d Ad - San Jose	Work Area:
Contact Person(s):	Stue La Firen	Lay	Employee No.: (008)
Inspection Type:	 Hazardous Materials Hazardous Waste Toxic Gas 	 Cal-Accidental Release Prevention Program Medical Waste Storage/Treatment Medical Waste Generator 	Samples Taken? Yes; No. Photographs Taken? Yes; No.

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Violation	Summary of Violations, Notice to Comply,	Corrective Actions	
Codes	Observations, and Required Corrective Actions	Taken	
	Inspection began OSTISTOR &		
	Will conclude 25/16/02		

All violations must be corrected within 30 days of the inspection date unless noted otherwise, above. Section 25187.8 of the State Health and Safety Code (H&SC) requires that you write a brief description of the corrective actions you have taken to bring this facility into compliance and submit it to this Department within 5 days of achieving compliance, or within 35 days of the inspection date, whichever comes first. (Note: Detailed instructions on actions you must take are printed on the reverse side of this page.)

eceived by: NOT AVAIL	Inspected by: Me Balli	Entered by: <u>/0109</u> /01/07
Certification: I certify under penalty of perjury	y that this facility has complied with directive	s specified in this Notice to Comply.
Signature of Owner/Operator:	Title:	Date://
ACILITY SENDS YELLOW COPY TO AGENCY,	KEEPS PINK COPY.	

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HMCD-014 - 1/2 Rev. 11/20/97

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What Does the Information in Each Column Mean?

Violation Code: Codes listed in this column identify specific violations of laws, regulations, or codes which were observed during this inspection. Definitions of Violation Codes are listed on the attached Violation Codes document(s).

Summary of Violations, Notice to Comply, Observations, and Required Corrective Actions: Information noted in this column describes the circumstances of any violations noted in the first column and describes how the violations may be corrected. Additionally, the inspector may use this space to note any additional observations resulting from the inspection.

Corrective Actions Taken: This column on the Notice of Inspection has been provided so that you can note how you have corrected or propose to correct each violation. Where proposed corrective actions are described, you must specify a date by which you expect each violation to be corrected. If more space is needed, attach additional pages.

Why Were Two Copies of the Notice of Inspection Given to Me?

You have been given two copies so you will have a copy for your own records after you submit your written response to HMCD. Do not separate the copies until you have described all of your corrective actions and signed the certification box on page 1. The yellow copy of each page must be submitted to HMCD. The pink copy is for your records.

What if I Disagree With a Violation Noted on the Notice of Inspection?

If you disagree with any violation listed in this Notice of Inspection, you must submit a written Notice of Disagreement, within 35 days of the inspection date, to the inspector who cited the violation. In your Notice of Disagreement, you must explain in detail why the violation does not exist. If there is sufficient space, you may use the "Corrective Actions Taken" column of this Notice of Inspection to dispute violations.

What About Photographs or Samples Taken During the Inspection?

Since this Notice of Inspection was prepared and given to you at the end of the inspection, any photographs and sampling or laboratory results associated with the inspection were not yet available. A copy of any photographs and/or analytical results from sampling taken during this inspection will be provided to you upon written request. Other pertinent information derived from the inspection is attached to this Notice of Inspection. Photographs and sample results may be withheld in the event of a criminal investigation or other ongoing investigation.

Hazardous Waste Violations

• Per H&SC, Section 25187.8(g)(1), failure to sign the certification on this Notice of Inspection and return it to this Department is a violation of State law.

• Per H&SC, Section 25191, a false statement that compliance has been achieved is a violation of State law punishable by a fine of not less than \$2,000 or more than \$25,000 and/or imprisonment in the county jail for up to one year.

• Per H&SC, Section 25187.8(j), this Department has the right to acquire the submittal of reasonable and necessary documentation in support of any claim of compliance made by your facility.

Department of Environmental Health Hazardous Materials Compliance Division 2220 Moorpark Avenue P.O. Box 28070 San Jose, CA 95159-8070 (408) 299-6930 Fax (408) 280-6479

Program Record ID	P	SC	Time
367934	2208	0Z	83

OFFICIAL NOTICE OF INSPECTION

Facility Name:	Lumileds Lighting LL	C	Inspection Date: 05/16/02
Site Address:	370 W. Trimble Rd., S	an Jose	Work Area:
Contact Person(s):			Employee No.: 10088
Inspection Type:	 Hazardous Materials Hazardous Waste Toxic Gas 	 Cal-Accidental Release Prevention Program Medical Waste Storage/Treatment Medical Waste Generator 	Samples Taken? Photographs Taken? Yes; No. No.

VIOLATIONS: Codes noted below in the "Violation Code" column represent specific violations of State law and/or local Ordinance. These codes are defined in the attached Violation Codes document(s). Time granted for correction of violations does not preclude any enforcement action by this Department or other agencies. This facility may be subject to reinspection at any time.

Violation Codes	Summary of Violations, Notice to Comply, Observations, and Required Corrective Actions	Corrective Actions Taken
2206	Observed 1 x 55gal vacuum dust waste in the Process Cooling	
	Basement that was not labeled with the accumulation start date (ASD).	
	Observed 1 x EP2 cake waste that had an ASD of 08/19/02. This is	
	not the correct date. Observed 1 x gal wafer scrap near column 11R9 in	
	the fab room that did not have and ASD. Observed 1 x gal C35 waste	
	and 2 x gal indium GAS waste near sink 11N701 in the fab that did	
	not have an ASD. Observed 1 x gal waste container in waste pass thru	
	#11H6 that did not have a label. All hazardous waste containers must	
	be properly labeled at all times. Label these containers.	
2212	Observed spillage of oil/solvent in the cabinet that holds the	
	transfer equipment for the solvent tank. All spills and leaks must be	
	cleaned up immediately to minimize the possibility of an unplanned	
	release to the environment. Clean up this area.	
2265	Observed 2 x 15gal empty haz mat containers that were empty near the	
	waste area. These were not marked properly. You must mark empty	
	drums >5gal with the date they became empty and manage within 1year.	1

All violations must be corrected within 30 days of the inspection date unless noted otherwise, above. Section 25187.8 of the State Health and Safety Code (H&SC) requires that you write a brief description of the corrective actions you have taken to bring this facility into compliance and submit it to this Department within 5 days of achieving compliance, or within 35 days of the inspection date, whichever comes first Note: Detailed instructions on actions you must take are printed on the reverse side of this page.)

Received by:

Inspected by:

Entered by: <u>[]] G</u>

Certification: I certify under penalty of perjury that this facility has complied with directives specified in this Notice to Comply.

Page 1 of

Signature of Owner/Operator:

Title:

Date: ___/

FACILITY SENDS YELLOW COPY TO AGENCY, KEEPS PINK COPY.

HMCD-014 - 1/2 Rev. 11/20/97

S 2044

THE OPTICIAL NOTICE OF INSPECTION EXPLAINED

This Official Notice of Inspection (Notice of Inspection) describes the findings made during the inspection, including all violations and any actions that must be taken by the facility to correct the violations. All violations must be corrected within 30 days of the inspection date unless noted otherwise by the inspector.

Within five working days of achieving compliance, or within 35 days of the inspection, whichever comes first, you must submit a written response which describes the corrective actions you have taken or - for those violations which are impossible to correct within 30 days - propose to take in order to bring your facility into compliance. Where proposed corrective actions are described, you must specify a date by which you expect each violation to be corrected. After you have addressed each violation, complete the certification box located at the bottom of page 1 of the Notice of Inspection. Your description of corrective actions taken, along with your signed certification of the Notice of Inspection and any required supporting documents, will serve as your written response to the inspection. Your response must be mailed to the Santa Clara County Hazardous Materials Compliance Division (HMCD) at P.O. Box 28070, San Jose, CA 95159-8070.

What Does the Information in Each Column Mean?

370 W. Trimble Rd., San Jose

88001

Steve LaFirenza

Violation Code: Codes listed in this column identify specific violations of laws, regulations, or codes which were observed during-this inspection. Definitions of Violation Codes are listed on the attached Violation Codes document(s):

Summary of Violations, Notice to Comply, Observations, and Required Corrective Actions: Information noted in this column describes the circumstances of any violations noted in the first column and describes how the violations may be corrected. Additionally, the inspector may use this space to note any additional observations resulting from the inspection.

Corrective Actions Taken: This column on the Notice of Inspection has been provided so that you can note how you have corrected or propose to correct each violation. Where proposed corrective actions are described, you must specify a date by which you expect each violation to be corrected. armore space B heeded, uttach additional pages inges x 1 bevreedO 2206

Basement that was not labeled with the accumulation start date (ASD). Set of next and an appendix of a appendix of appendix of a appendix of appendix of appendix of a appendix of appe

and 2 x gal indium GAS waste near sink 11 N701 in the fab that did

not have an ASD. Observed 1 Standard in a story with the notice of the second of the s

If you disagree with any violation listed in this Notice of Inspection, your start Wouth a written Notice of Disdereement, within 35 days of the inspection date, to the inspector who cited the initial and the inspection of the inspection date, to the inspector who cited the initial and the initial and the inspection date in the inspector who cited the initial and th detail why the violation does not exist. If there is sufficient space, you may use the "Corrective Actions Taken" column of this Notice of Inspection to dispute violations.

Observed spillage of oil/solvent in the cabinet that holds the transfer equipment for the solvent tark. All spins and leaks must be used and solvent tark. All spins and leaks must be

Since this Notice of Inspection was prepared and given to four at the end of the inspection, any photographs and vampling or laboratory results associated with the inspection were not yet available A copy of any photographs and/or analytical results from sampling taken during this inspection will be provided to you upon written request. Other pertinent information derived from the inspection is attached to this Notice of inspection. The photographs and sample results may be withheld in the event of a criminal s waste area. These were not marked properly. You must mark emptyoitsgitsevni gniogno reato ro noitsgitsevni

drums >5gal with the date they became empty and approximity for the later.

Hazardous Waste Violations

- ° Per H&SC, Section 25187.8(g)(1), failure to sign the certification on this Notice of Inspection and return it to this Department is a violation of State law.
- ° Per H&SC, Section 25191, a false statement that compliance has been achieved is a violation of State law punishable by a fine of not less than \$2,000 or more than \$25,000 and/or imprisonment in the county jail for up to one year.
- ° Per H&SC, Section 25187.8(j), this Department has the right to acquire the submittal of reasonable and necessary documentation in support of any claim of compliance made by your facility.

2212



2220 Moorpark Avenue P.O. Box 28070 San Jose, CA 95159-8070 (408) 299-6930 Fax (408) 280-6479

OFFICIAL NOTICE OF INSPECTION

(Continuation Page)

Facility Name: Lumileds Lighting

Inspection Date: 05/16/02

Violation Codes	Summary of Violations, Notice to Comply, Observations, and Required Corrective Actions	Corrective Actions Taken
Cours	Inspection began on 05/15/02 and concluded on 05/16/02.	
	Lumileds and Agilent have been granted a variance by DTSC	
	and are authorized to treat hazardous waste generated on-site	
<u></u>	by either company.	
	Agilent operates the two PBR units. Agilent manages all haz	
	waste activities for Lumileds at this site. Currently, Agilent also	
	trains all Lumileds employees as required.	
	by: Inspected by: M. Ba	

FACILITY SENDS YELLOW COPY TO AGENCY, KEEPS PINK COPY. Page 2 of 2.

2054

	RECORL	MODIF	TICATION	OTICE	Due Date:
∖ Date:	11/02/01	Office:	HMCD	Assigned to:	
Business	Name: LUMILEOS	LIGH TING	US LLC	Census Tract#:	FILE

Check # 0000463094

Amount: 3,064.00

÷

Account#: 1256561

Facility ID#: 252744

The attached statment/notice, submitted with a payment, indicates changes for this facility. Further processing cannot occur until the appropriate record changes have been made. Please act promptly to write the indicated changes and submit the necessary paperwork. NET

Comments

CONTACT PERSON CHANGE



Den	Ament of Environmenta Realth
-	put Document and Adjustment Form
EFFECTIVE DATE:	
EFFECTIVE DATE:	
CURRENT INFORMATIC	<u>DN:</u>
OWNER ID #	_ FACILITY ID # _ 252744 PROGRAM ID #
Facility Name Lumi	leds Lighting LLC
Facility Address	Jeds Lighting LLC 370 W. Trimble Rd, S.J
NEW INFORMATION (M	(ODIFY):
OWNER:	Phone #
FACILITY:	
BILLING ADDRESS:37	O W TRIMBLE RD, 91 BJ, SAN JOSE 95
CARE OF DESIGNATION: (C/O NAME)	X OWNER X FACILITY X BILLING MITCH COLE COLE (MMOVE, STEWART CROOK) I STOP BILLING I INACTIVATE PROGRAM
CHANGE P/E TO	(<i>KUMOVE, STEWART ORODIS</i>) I STOP BILLING I INACTIVATE PROGRAM
	TO OTHER
COMMENT: <u>Check</u>	
	Input by 10096 Date 11/05/01
<u>FIS</u>	SCAL ADJUSTMENT INFORMATION
ACCT ID #	INV ID # ADJUSTED AMT \$
REASON FOR ADJUSTMENT:	
	□ Ownership Change □ Close Account Comment)
	OM (Inv ID) TO (Inv ID)
· · · · · · · · · · · · · · · · · · ·	
l L	
COMMENT:	
COMMENT:	<u>ole Pullman 1# 4657</u> Date <u>11/5/01</u> Date <u>11-50</u> Input by Date cidedj208/24



Agilent Technologies Innovating the HP Way 350 West Trimble Road

San Jose, CA 95131 408-435-4205



CERTIFIED MAIL ARTICLE # 7000 1530 0002 1993 4242

Hoy 20 11 35 AH 'NI

November 16, 2001

Ms. Nicole Pullman Santa Clara County Department of Environmental Health P.O. Box 28070 San Jose, CA 95159-8070

Subject: Amendment of existing PBR treatment operations

Dear Ms. Pullman:

The purpose of this letter is to amend the existing PBR permit to align with the Variance granted by the Department of Toxic Substances Control and to close the treatment system NS-2.

The wastewater treatment operations for both Lumileds and Agilent are now owned and operated by Agilent Technologies. The Variance from the definition of onsite facility provides the opportunity to combine both the Agilent wastewater and the Lumileds wastewater prior to treatment, therefore eliminating the need for duplicate systems for each business. Variance 01-H-VAR-01issued by DTSC is in effect from 7/23/01 to 7/23/11.

The following treatment systems are covered: NS-1, the pH neutralization system; and MPU-1, the metals/fluorides precipitation system.

The Financial Assurance information has been modified to incorporate the MPU-1. Previously, the financial assurance and permit for MPU-1 were maintained by Lumileds. With these changes, the costs are now reflected in the closure cost estimate for Agilent. It is now \$140,000 up from \$56,940 to cover the additional costs for closure of MPU-1. This modification has not been independently reviewed by a third party, but in the next round of annual financial assurance submittals (January 2002) it will be included.

The temporary treatment system: NS-2 which pretreated the Lumileds acid waste prior to commingling with the Agilent wastewater is no longer adjusting the pH of the water. However, it still exists as a lift station and drop out tank (to keep things like gloves, wipes, and other solids from destroying the pumps). It consists of two tanks: one for the solids drop out and one for flow equalization; and a pumping system to lift the wastewater to the elevation of the treatment system NS-1. Since the wastewater is hazardous solely from the corrosivity component, the dropout tank is not changing the hazard of the waste and therefore is not considered hazardous waste treatment. To complete the closure of the unit, we have decontaminated and removed all of the chemical feed equipment (pumps, tubing, containment, carboys). The tubing and containment have been disposed of as non-hazardous, the pumps are in storage as excess equipment, and the carboys are back in circulation for other chemical transportation needs within the facility. In support of this, the decontamination certification is attached.

Ms Nicole Pullman Santa Clara County Department of Environmental Health November 16, 2001 page 2

If you have any questions, please call me at (408) 435-4205.

Sincerely,

mit Yol

Mitch Cole Environmental Specialist

Enclosure:

- UPCF Business Activities
- UPCF 2730 Business Owner/Operator Identification
- UPCF 1772f Onsite Hazardous Waste Treatment Notification Facility Page
- UPCF 1772u Onsite Hazardous Waste Treatment Notification Unit Page (MPU-1)
- UPCF Permit By Rule Page (MPU-1)
- Flow Diagram MPU-1
- Tank and Containment Integrity Certification (MPU-1)
- UPCF 1772u Onsite Hazardous Waste Treatment Notification Unit Page (NS-1)
- UPCF Permit By Rule Page (NS-1)
- Flow Diagram NS-1
- Tank and Containment Integrity Certification (NS-1)
- Plot Plan of Treatment Unit Locations
- Tiered Permitting Phase I Environmental Assessment Checklist (12/1996)
- UPCF 1232 Certification of Financial Assurance
- CFO Letter and Financial Test
- PricewaterhouseCoopers independent review of the data
- A copy of 2000 Annual Report
- A copy of the 2000 SEC Form 10K
- DTSC Variance No. 01-H-VAR-01
- Disposition/Decontamination Checklist
- cc: Mr. Jan Radimsky, Chief Attn: Tiered Permitting Notification for Variance Permit Streamlining Branch P.O. Box 806 Sacramento, CA 95812-0806

Mr. Sudhir Singh San Jose/Santa Clara Water Pollution Control Plant 4245 Zanker Road San Jose, CA 95134 Ms Nicole Pullman Santa Clara County Department of Environmental Health November 16, 2001 page 3

> Mr. Richard Bryson San Jose Fire Department Hazardous Materials Division Four North Second Street Suite 1100 San Jose, CA 95113-1305

Mr. Steve LaFirenza Agilent Technologies

Ms. Roxanne Rapson Agilent Technologies

Disposition/Decontamination-Checklist (DDC)

. Sinda				
I. Tool Information (completed by tool owner/originator)	Tool/Item Name: <u>NS-2 chemical feed system</u>	Circle one: Agilent Technologies		
	Tool Owner/Representative: Paul Bolm	Fab/Building: <u>91 Basement</u> Tool #:		
50 E	Ext. #: <u>435-4343</u> Pager #:	Is Tool an active asset? I Yes INO		
Ş		If yes, asset #:		
le	Tool/Item to be:			
6	☑ Disposed □ Recycled ☑ Stored	□ Sold/Donated □ Transferred/Reinstalled		
.				
Å.	Contaminated Tool/Item may contain:	□ NO DECON REQUIRED		
A	X Corrosives Asbestos	Item/Tool NEVER contained any		
÷.	Solvents Arsenic	chemicals/gases.		
	Gases/Pyrophorics Phosphorus			
E S	Oils/Pump Oils Copper	Specific contaminants/byproducts:		
	Ethylene Glycol Lead	Sodium Hydroxide only		
tio	Refrigerants/CFCs Chromium	□ MSDS sheets are available and will		
	Radiation Devices Other Metals	be furnished upon request.		
for				
Ih S	By signing this section of the label, I acknowledge the	at I have read the appropriate sections of the		
00	Disposition Demolition, and Decontamination Proce	edure		
L	Signature: but Oc	Date: "/ 15/01		
1. N. 1993		Date/		
	ITEM HAS BEEN DECONTAMINATED	ITEM IS STILL CONTAMINATED		
		TIEWIS STILL CONTAMINATED		
	Procedure used for Decon (check all that apply):	CAUTION! This Item may still be contaminated		
5.0	□ Solvents	with the following chemicals/gases:		
	Metals Refrigerant Devices	with the following chemicals/gases:		
	□ Oils □ Compressed Gas Cylinder			
Ĕ.	□ Asbestos □ Unknown Contaminants	Chemical State (check all that apply):		
10	Chemicals used for Decon:	□ Solid □ Liquid □ Gas		
by Decon person) 🙀 👘				
â,	Date Decontaminated:	Contamination Location (check all that apply):		
3	Samples taken? 🗖 Yes 🖾 No			
ble	If yes, Chain of Custody #			
E	This Tool/Item meets the following Key Criteria:	NOTICE TO FUTURE HANDLERS:		
9	Surfaces exposed to corrosives pH test between 5 and 9	(check all that apply)		
H	All chemical residue, debris and wafer chips are removed All ports/openings have been sealed with a cap or plug	Surfaces pH test less than 5 or greater than 9		
3	All free flowing liquids have been removed	Chemical residue, debris or wafer chips are present		
	Gas systems are purged and at atmospheric pressure	Ports and openings are not sealed with a cap or plug		
E O	Chemical labels have been removed if Item will not be	□ Free flowing liquids are present		
	reused at Agilent/LumiLeds	Gas systems have not been purged/are not at atmospheric		
	Item packaged to minimize exposure to any contaminant	pressure Chemical labels are present (Item will not be reused at		
A to The Decontaining the Results (completed	By signing this section of the label, I acknowledge that I			
8	have read the appropriate sections of the Disposition.	Agilent/LumiLeds)		
	Demolition, and Decontamination Procedure and have	Packaging does not minimize exposure to any contaminant		
	prepared this Fool/Item accordingly.	Recipient must determine proper safety procedures and PPE		
	Signature: Jan Bol	based on the contaminants listed above. Consult MSDS's.		
	Date: "////o/ Ext./Pager:			
off .	Environmental Approval: 🛛 Yes 🗆 No	EQUIPMENT MUST NOT BE REMOVED		
III.Signoff	Signoff by: Mitch Coke Mittal	WITHOUT ENVIRONMENTAL SIGNOFF		
II.S	Ext./Pager: 435-4205-1699-5322	Sector 2 210 MONIFICIAL SIGNOFF		

Document #0100-EHS-1024a Rev A 3/19/01 Owner: Steve LaFirenza



Depatiment of Toxic Substance Control

Edwin F. Lowry, Director 1001 "I" Street, 25th Floor P.O. Box 806 Sacramento, California 95812-0806



Winston H. Hickox Agency Secretary California Environmental Protection Agency

July 23, 2001

Gray Davis Governor

Ms. Barrie Simpson Agilent Technologies/LumiLeds Lighting U.S., LLC 350-370 Trimble Road San Jose, California 95131

VARIANCE DETERMINATION FOR AGILENT TECHNOLOGIES/LUMILEDS LIGHTING U.S., LLC

Dear Ms. Simpson:

The Department of Toxic Substances Control (DTSC) has received the October 31, 2000 variance request for Agilent Technologies/LumiLeds Lighting U.S., LLC (Agilent/LumiLeds). Agilent/LumiLeds has requested an administrative variance that would allow Agilent/LumiLeds to operate as an onsite facility. A change of corporate structure at the facility, which had operated under California's lower authorization tier [Permit by Rule (PBR)], resulted in the creation of a separate legal entity ("new facility") as owners/operator of certain units. Therefore, specified treatment activities at the new facility does not meet the definition of "onsite facility" pursuant to Health and Safety Code Section 25117.12 and Title 22, California Code of Regulations Section 66260.10.

Pursuant to the Health and Safety Code (HSC), section 25143, DTSC grants Agilent/LumiLed variance request subject to all the terms and conditions specified in the enclosed variance.

The energy challenge facing California is real. Every Californian needs to take immediate action to reduce energy consumption. For a list of simple ways you can reduce demand and cut your energy costs, see our Web-site at www.dtsc.ca.gov. Ms. Barrie Simpson July 23, 2001 Page 2

If you have any questions, please contact Ms. Valetti Lang of DTSC's Permitting Division staff at (916) 445-4413.

Sincerely,

Mr. Jan Radimsky, P.E., Chief Permit Streamlining Branch Hazardous Waste Management Program

Enclosure

Certified Mail: Z 147 158 038

cc: Ms. Valetti Lang Permit Program Development Section Department of Toxic Substances Control P.O. Box 806 Sacramento, California 95812-0806



California Environmental Protection Agency Department of Toxic Substances Control

VARIANCE

Applicant Names:

Agilent Technologies/ LumiLeds Lighting U.S., LLC 350-370 West Trimble Road San Jose, California 95131-1008 Variance No. 01-H-VAR-01

Effective Date: July 23, 2001

Expiration Date: July 23, 2011

Modification History:

Pursuant to Section 25143 of the California Health and Safety Code, the Department of Toxic Substances Control hereby issues the attached Variance consisting of four pages to Agilent Technologies/LumiLeds Lighting U.S., LLC.

Date: 7/2-3/01

Mr. Jan Radimsky, P.E., Chief Permit Streamlining Branch Department of Toxic Substances Control

VARIANCE

1. INTRODUCTION.

Pursuant to Section 25143, Chapter 6.5, Division 20 of the Health and Safety Code (HSC), the California Department of Toxic Substances Control (DTSC) grants a variance to the applicant below to allow operation as an onsite facility. A change of corporate structure at the facility, which had operated under California's lower authorization tiers [Permit by Rule (PBR)], resulted in the creation of a separate legal entity ("new facility") as owners/operator of certain units. Therefore, specified treatment activities at the new facility do not meet the definition of "onsite facility" pursuant to HSC Section 25117.12 and Title 22, California Code of Regulations (22 CCR) Section 66260.10. However, hazardous waste management activities, including waste steams, remain almost the same at the facility. Temporary changes have been made at the facility (waste separation and pH neutralization) until variance authorization is approved to allow treatment to continue in affected units. Upon issuance of the variance, operations will return to that prior to the formation of the new legal entity. The specified units remain on the same contiguous property, are housed in the same building, and treat the same hazardous wastes as before the corporate restructure.

DTSC hereby grants a variance only from the requirements specified herein and only in accordance with all terms and conditions specified herein.

2. IDENTIFYING INFORMATION.

APPLICANT/OWNER/OPERATOR:

Agilent Technologies/LumiLeds Lighting U.S., LLC 350-370 West Trimble Road San Jose, California 95131-1008

3. <u>TYPE OF VARIANCE</u>.

This variance is an administrative variance from the definition of onsite facility as defined in HCS Section 25117.12 and 22 CCR Section 66260.10. This variance allows Agilent Technologies/LumiLeds Lighting U.S., LLC (Agilent) to be classified as an onsite facility rather than an offsite facility. The facility's operating authorization for hazardous waste management activities is provided in a separate document, Attachment 1.

4. ISSUANCE AND EXPIRATION DATES.

DATE ISSUED: July 23, 2001 EXPIRATION DATE: July 23, 2011.

5. <u>APPLICABLE STATUTES AND REGULATIONS</u>.

The hazardous waste that is the subject of this variance is fully regulated under

HSC, Section 2, 00, et seq. and 22 CCR Division 4 except as specifically identified in Section 8 of this variance.

6. **<u>FINDINGS/DETERMINATIONS</u>**.

DTSC has determined that the variance applicant meets the requirements set forth in HSC Section 25143 for a variance from specific regulatory requirements as outlined in Section 8 of this variance.

Upon issuance of the administrative variance, the Agilent/LumiLeds operation is considered an onsite activity. As an onsite facility, the hazardous waste management activity managed by Agilent/LumiLeds is not regulated under the federal act, and will be authorized by PBR. The hazardous waste management activity is insignificant as a potential hazardous to human health and safety or to the environment when managed in accordance with the conditions, limitations, and other requirements specified in the PBR authorization documents.

7. <u>PROVISIONS SUBJECT TO VARIANCE</u>.

DTSC, subject to all terms and conditions herein, grants a variance from the definition of "onsite facility" as defined in HSC Section 25117.12 and 22 CCR Section 66260.10. Specifically, Agilent, under the signed legal agreement between Agilent Technologies, Inc. and LumiLeds Lighting U.S., LLC (Attachment 2), has operational control of the hazardous waste produced and treated at the 350-370 West Trimble Road, San Jose, California site, and is considered to be the generator of waste.

8. <u>SPECIFICATIONS OF THE CONDITIONS, LIMITATIONS, OR OTHER</u> REQUIREMENTS.

Agilent shall be subject to the following conditions:

- a) Agilent shall maintain a copy of the signed agreement, Attachment 2, at its Trimble Road location for review by DTSC or other regulatory agencies. Termination of the above agreement prior to expiration of this variance will result in the automatic revocation of this variance.
- b) Agilent shall immediately notify DTSC of any additional unit(s) that require authorization under PBR, Conditional Authorization (CA), and/or Conditional Exemption (CE) prior to installation and use of the unit(s).
- c) Agilent shall submit notification for authorization under PBR, CA, and/or CE to the appropriate Certified Unified Program Agencies (CUPA) office upon approval by DTSC. Agilent shall maintain all financial responsibility as required by these onsite tiers.
- d) All correspondence and notifications shall be directed to the following office:

Mr. Jan Radimsky, Chief Permit Freamlining Branch 1001 I Street P.O. Box 806 Sacramento, California 95812-0806 Attn: Tiered Permitting Notification for Variance

9. DISCLAIMER.

The issuance of this variance does not relieve Agilent of the responsibility for compliance with Division 20, Chapter 6.5, HSC, or the regulations adopted thereunder, and any other laws and regulations other than those specifically identified in Section 8 of this variance. Agilent is subject to all terms and conditions herein. The granting of this variance confers no relief from compliance with any federal, state or local requirements other than those specifically provided herein.

The issuance of this variance does not release Agilent from any liability associated with the management of hazardous waste, except as specifically provided herein and subject to all terms and conditions of this variance.

10. VARIANCE MODIFICATION OR REVOCATION.

This variance is subject to review at the discretion of DTSC and may be modified or revoked by at any time pursuant to HSC Section 25143.

11. CEQA DETERMINATION.

Title 14, Section 15061(b)(3), California Code of Regulations. With certainty, no possibility of a significant effect on the environment.

Approved:

20/01 Date

Mr. Jan Radimsky, P.E., Chief

Permit Streamlining Branch Hazardous Waste Management Program Department of Toxic Substances Control
November 26, 2001

Steve LaFirenza Agilent Technologies, Inc. 350 West Trimble Road San Jose, CA 95131 EPA ID: CAR000058081 Initial auth.: 10/27/99

Facility site address: 370 West Trimble Road (Lumileds) San Jose, CA 95131

SUBJECT: RESPONSE TO CLOSURE/WITHDRAWAL OF PBR AND CA UNITS

Dear Mr. LaFirenza:

Santa Clara County Hazardous Materials Compliance Division has received your correspondence informing this office of the granting of a variance from the Department of Toxic Substances Control (DTSC) concerning the onsite treatment activities at Agilent Technologies and Lumileds Lighting U.S., LLC. As stated in your letter dated November 26, 2001, under DTSC's variance 01-H-VAR-01 Agilent Technologies now owns and operates all the wastewater treatment operations for both Lumileds and Agilent.

Closure documents for Conditionally Authorized unit NS-2 have been reviewed. This office considers Lumileds no longer subject to the operating standards of your treatment authorization tier under Permit By Rule and Conditional Authorization. Lumileds is no longer required to maintain financial assurance for closure of those units. Agilent shall maintain all financial responsibility as required by these onsite tiers.

Your facility may be inspected by this office to verify that the information provided to this office is accurate. If you have questions please contact this office at the letterhead address or phone number.

Sincerely,

Gordon McPhaill, R.E.H.S. Hazardous Materials Program Manager Hazardous Materials Compliance Division

Cc: Violeta Mislang, Department of Toxic Substances Control

County of Santa Clara		· · ·	Agency Use Only
Department of Environmental Health			PE: 2208
Hazardous Materials Compliance Division			EMP: 4760
2220 Moorpark Avenue			LC: /3
P.O. Box 28070			CT:
San Jose, CA 95159-8070			PS: 1
(408) 299-6930 Fax (408) 280-6479			KG: 147,427 162 Tons
HAZARDOUS WASTE G			
Site Address: <u>370 West Trimble Road</u>			Zip: <u>95131</u>
Mailing Address: SAME Irditterent from site address.	City:	• • • • • • • • • • • • • • • • • • • •	_ Zip:
Business Owner Name(s): <u>LUMILEDS</u> Lightin	g B.V. The Netherlands	·	
Proprietor/Billing Contact Name:			
Billing Address: SAME			
Facility Phone No.: (408) 435-7400 Fax N	o.: (<u>408</u>) <u>435-4155</u> Day	ys/Hours of Ope	eration: 7/24 hours
Contact Person: Stewart Crook, Environm	<u>ental Speciali</u> Gentact Pho ne	No.: (<u>408</u>)	435-4161
Principal Type of Business (e.g. auto repair, photoproces Solid-State Lighting Products	sing):	· .:	 Owned by Individu Partnership XX Corporation Other
EPA ID Number: (APPLIED FOR)	Primary Standard Industrial Classifi	cation (SIC) 4 D	igit Code No.:3674

Hazardous Waste Inventory Information:

The annual permit fee is determined by the total quantity of hazardous waste generated per year. Complete the table below for all hazardous waste inventory (e.g. used oil, used parts cleaning solvent, used oil filters, waste paint, spent fixer, etc.). Additional space is provided on the other side of this form. [Note to medical facilities: Do not list medical (i.e. red bag) wastes on this form.]

Name of Hazardous Waste	Treatment/Disposal Method(s) (Definitions provided on bottom of page 2)	Annual Quantity Generated*	
Bulk Solvent Mixture Waste	 Recycled on-site. Treated on-site. Shipped off-site for recycling/treatment/disposal. 	79655	gal.
Wastewater Treatment Filtercake	 Recycled on-site. Treated on-site. K Shipped off-site for recycling/treatment/disposal. 	146060	gal.
Arsenic Contaminated Debris	 Recycled on-site. Treated on-site. Shipped off-site for recycling/treatment/disposal. 	31582	☐ gal. XXX lbs.

* Solids must be reported in pounds. Liquids may be reported in either pounds or gallons.

The undersigned hereby applies for a hazardous waste generator permit from the County of Santa Clara. I hereby certify that the submitted information is true, accurate, and complete. I understand that a new application will be required if this facility changes ownership, moves, or begins generating hazardous wastes which are not listed on this application.

Signature of Owner/Operator:	U.T.M	Title: of Juni Leds Lighty Date:	10/18/94.
HMCD-005	0	US.UC	Rev. 06/26/97

Hazardous Waste Generator Permit Application - Page 2 of 2

Hazardous Waste Inventory Information (Continued):

Name of		Treatment/Disposal Method(s)	Annual Qua	
Hazardous Waste	(Definitions provided on bottom of page 2)		Generated*	
Arsenic Contaminated Wipes/Debri	s S S	Recycled on-site. Treated on-site. Shipped off-site for recycling/treatment/disposal.	14435	☐ gal. KKlbs.
Contaminated Alox Sandblast	80	Recycled on-site. Treated on-site. Shipped off-site for recycling/treatment/disposal.	15948	gal. Ibs.
Wastewater from Tank Pumpouts		Recycled on-site. Treated on-site. Shipped off-site for recycling/treatment/disposal.	22893	🛛 gal. 🖸 lbs.
EPI Pyrophoric Solids		Recycled on-site.	4452	gal. Ø lbs.
EPI Slurrys		Recycled on-site. Treated on-site. Shipped off-site for recycling/treatment/disposal.	3864	□ gal. ⊠ lbs.
EPI Oils	800		2929	☐ gal. ₩ lbs.
House VAC system Debris		Recycled on-site. Treated on-site.	2521	☐ gal. ⊠ lbs.
		Recycled on-site. Treated on-site. Shipped off-site for recycling/treatment/disposal.		□ gal. □ lbs.
		Recycled on-site. Treated on-site. Shipped off-site for recycling/treatment/disposal.		☐ gal. ☐ lbs.
		Recycled on-site. Treated on-site. Shipped off-site for recycling/treatment/disposal.		🖵 gal. 🖵 Ibs.
		Recycled on-site. Treated on-site. Shipped off-site for recycling/treatment/disposal.		☐ gal. ☐ lbs.

Solids must be reported in pounds. Liquids may be reported in either pounds or gallons.

334,339 16s

⊠KYes; □ No □ Yes; ∰KNo

For the following questions, check the appropriate box:

- 1. Does this facility discharge process waste waters to sanitary sewer?
- 2. Does this facility generate infectious/biomedical wastes?

Definitions of Treatment/Disposal Methods

Recycled on-site: The facility takes the waste or any constituent of the waste, treated or not, and reuses it on-site or ships it off-site as an Excluded Recyclable Material.

Treated on-site: The facility employs any method, technique, or process which changes or is designed to change the physical, chemical, or biological character or composition of the hazardous waste or any material contained therein, or removes or reduces its harmful properties or characteristics for any purpose including, but not limited to, energy recovery, material recovery, or reduction in volume (e.g. pH adjustment, evaporation, precipitation, filtration, distillation, compacting, etc.). If, after treatment, the material is reused at the facility, the "Recycled on-site" box in the waste inventory table should be checked.

Shipped off-site for recycling/treatment/disposal: The facility sends the waste, or any hazardous treatment residual, to an off-site permitted treatment, storage, or disposal facility (TSDF).

Note: Depending on how a waste or its constituents are recycled and/or treated, more than one treatment/disposal category may apply. All applicable boxes in column 2 of the waste inventory table should be checked.



Agilent Technologies, Inc. 350 West Trimble Road San Jose, CA 95131

408-435-4161 telephone 408-435-4155 facsimile Ferce by S. Christens

Agilent Technologies

Innovating the HP Way

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April 27, 2001

Stephanie Christenberrry Hazardous Materials Specialist County of Santa Clara Department of Environmental Health, CUPA 2220 Moorpark Avenue, Room 204, East Wing San Jose, CA 95128

Dear Stephanie,

This Incident Report is written to notify your office of the recent implementation of our hazardous waste Contingency Plan on 4/16/01 to respond to a fire in a hazardous waste container. Agilent Technologies operates a Joint Venture Company named LumiLeds Lighting U.S. LLC at its San Jose campus. This Incident Report is for the implementation of the LumiLeds Hazardous Waste Contingency Plan. The following information is required as part of this Incident Report:

- Name, address , and telephone number of the facility's owner/operator:
 LumiLeds Lighting U.S. LLC
 370 West Trimble Rd. San Jose, CA 95131
 (408) 435-7400
- 2) Name, address , and telephone number of the facility: Agilent Technologies, Inc.
 350 West Trimble Rd. San Jose, CA 95131 (408)
- 3) Date, time, and type of incident: A fire on 4/16/01, at 11:50am (See attached Corrective and Preventative Action Report CAPAR, for more details)
- 4) Name and Quantity of material(s) involved: White phosphorus slurry waste residue dripped from some pipes on a portion of approximately 5 cubic yards of combustible materials contained in a sealed metal 20 cubic yard roll-off dumpster. (See attached CAPAR)

5) Extent of Injuries, if any:

There were no injuries reported.

6) An assessment of actual or potential hazards to human health or the environment, where this is applicable:

The hazards were from the smoke, of burning plastic cardboard and paint, which was present for a few minutes from when the dumpster was opened and when the fire department extinguished the flames.

- 7) Estimated quantity and disposition of recovered material that resulted from the incident: The Dumpster contained all the fire extinguisher water and this was pumped out and manifested to a permitted disposal facility. (See attached manifest) The pipes that contained the phosphorus residue were removed, capped and cleaned on-site then dried and re-deposited a hazardous waste Dumpster. The burnt plastic and cardboard was removed from the Dumpster, drummed and manifested to a permitted disposal facility. (See attached manifest) All other metal pipe, duct and filters were dried and re-deposited in a hazardous waste Dumpster.
 8) Cause(es) of the incident: The mixing of incompatible wastes. (See attached CAPAR)
- **9)** Actions taken in response to the incident: The fire was extinguished within minutes of its discovery. The materials were removed from the dumpster and packaged for transportation and disposal the same day. The OES was notified and the incident was given OES report number 01-2222. (See attached CAPAR for more details)
- 10) Administrative or engineering controls designed to prevent such incidents in the future: (See attached CAPAR)

Sincerely,

Stewart Crook Environmental Specialist Agilent Technologies Inc. Representing LumiLeds Lighting U.S.LLC SC



Agilent Technologies

Innovating the HP Way

Yea Bldg

CAPAR # 01

YY

320 88B CC RRR Report Code

03

090

Instructions can be found at:

http://web.sjs.agilent.com/environmental/EHS0011b CAPAR Writing Process.doc

SPG Bay Area Corrective and Preventative Action Report

1. Description of Circumstances:

On Monday 4/16/01, at 11:42 AM Jeanette Freese called 2222, reporting a Fire in one of the Black Debri Containers in the 90 Service Yard. Afsi Gerami and Tom Williams responded to the call. At 11:51 they pulled the Fire Alarm for 90 Service Yard. At 11:53 Afsi requested that 911 be called. 11:55 Wayne paged ERT. At 11:56 San Jose Fire Department was on site. The Fire was in one of the Hazards Waste Containers and reported to have empty Arsenic containers in it. 1 PPB of Arsenic. At 2:05 PM the Fire Department departed site. Clean up crew working in the 90 Service Yard finished by 4:30. The 90 service yard was released to normal operations at 5pm by Stewart Crook

2. Date of Incident:	3.Time of Incident:		4. Location (Bldg., Column #, etc.):				
4/16/01	11:42	90 8	90 Service Yard				
5. Report Completed By: Floyd D. Izer		6. P SR	Position: RC				
7. Date of Report:	8. Telnet:		9. Mailstop:				
4/16/01	1-435-4173	901	LM				
10. Downtime greater than 1 hour?	? ☐ Yes ☑ No (If yes, lis	t the affected areas a	and/or tools and the amount of time down):				
Areas, Equipment, Tools or Processe	es Hours Minutes	Areas, Equipment	t, Tools or Processes Hours Minutes				
11. Probable root cause(s). Includ	e information on how the caus	e was determined.	and a spin and a state of				
SEE ATTACHED INCIDENT			San Jose Site				
Contractor Related? Yes No							
12. Corrective action(s).							
Apply the formal DDC decon	approval and sign-off proce	ess to VPE, OMV	PE and MOCVD exhaust piping. Train the				
			DDC signing-off process in how to apply				
and communicate the DDC pr	ocess to Agilent and contra	actor employees	seeking sign-off.				
	Ū						
13. Responsible Person: Stewa	art Crook	14.Due Date: 4/2	24/01 15. Actual Date Completed:				
16. Work Order #, Exception code,	or Capar Code:						
17. Preventative actions to preven	t re-occurrence.						
Update the Contractor Safety	Program to include when a	and how to use th	ne DDC process for process systems and				
equipment.							
18. Responsible Person: Scott	Norman	19. Due Date: 6/1	1/01 20. Actual Date Completed:				
Verification of corrective and prev	entative action(s).						
21. Verification Owner: Barrie	e Simpson	22. Date:					
Doc# 0100-EHS-0011a.xis		Date of Issue: 3/2	22/01				
Document Owner: Mitch Cole, Enviro	onmental Specialist		•				

The user of any printed copy of this document is responsible for verifying it is the current version prior to use.





1. Description of Circumstances:

On Friday afternoon 4/13/01VPE reactor exhaust pipe from LumiLeds Lighting U.S. LLC operations at the San Jose Site was placed in the LumiLeds 20 cubic yard hazardous waste dumpster outside of the building 90 service building. On Monday 4/16/01, at 11:42 AM Jeanette Freese called 2222, reporting a Fire in one of the 20 cubic yard hazardous waste dumpsters in the building 90 Service Yard. Afsi Gerami and Tom Williams responded to the call. At 11:51 they pulled the Fire Alarm for 90 Service Yard. At 11:53 Afsi requested that 911 be called. 11:55 Wayne paged ERT. At 11:56 San Jose Fire Department was on site. The Fire was in one of the Hazards Waste Containers and reported to have empty Arsenic containers in it. 1 PPB of Arsenic. Immediately, the SJFD extinguished the fire with water. At 2:05 PM the Fire Department departed site. The clean up crew working in the 90 Service Yard finished by 4:30. The 90 service yard was released to normal operations at 5pm by Stewart Crook. The California Office of Emergency Services (OES) was notified of the incident and subsequent utilization of the LumiLeds Hazardous Waste Contingency Plan at 8:45am on 4/17/01 by Stewart Crook of the Agilent Environmental Department.

11. Probable root cause(s). Include information on how the cause was determined.

The fire in the 20 cubic yard roll-off container was ignited by the mixture of incompatable hazardous materials. VPE reactor exhaust pipe containing spontanously combustible phosphorus slurry was placed in a twenty cubic yard hazardous waste roll-off dumpster which contained combustible arsenic contaminated solid waste. Over a few days the phosphorus slurry dripped onto the cardboard boxes and plastic that are disposed with the arsenic contaminated filters and metal pipe & duct. As the slurry began to dry on the combustable material, the phosphorus reacted with air and ignited. This information is obtained from visual evidence and interviews with Agilent and contractor employees involved. On 4/13/01 VPE reactor exhaust pipeing was being cleaned for recycling and disposal in B91 basement slurry room. Half the pipe was made of Hastalloy and was being cleaned for use as spare parts. The plain stainless steel pipe was to be rinsed to remove any phosphorus slurry residue from the inside of the pipes. This rinsing process did not occur prior to disposal of the exhaust pipe in the hazardous waste dumpster. The environmental department has a process for the approval and disposal of decontaminated equipment. The DDC process includes a form and signoff prior to removal from the building for disposition. This DDC process was utilized for the large pieces of the VPE reactor system, the reactor and generator, but was not utilized for ancillary equipment and parts. An informal visual inspection and approval process was utilized for ancillary parts of the reactor. RDT environmental services was contracted to do the VPE exhaust pipe cleaning work. RDT employees disposed of the exhaust pipe in the 20 cubic yard dumpster without visual inspection approval by the Agilent environmental department.

12. Corrective action(s).

Apply the formal DDC decon approval and sign-off process to VPE, OMVPE and MOCVD exhaust piping.

17. Preventative actions to prevent re-occurrence.

Update the Contractor Safety Program to include when and how to use the DDC process for process systems and equipment.

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	ONYX ENVIRONMENTAL SVC	SLLC. NJ	D080	631	369	D. Transp	orter's Phone	(973) 347-7111
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	STURGEON AND SON, INC.	¢ A	D 0 0 4	778	742	F. Transp	orter's Phone	(661) 322-4408
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	available ta me and that I can affard.								
	Printed/Typed Name SAUL MONTEZ	•	Signature	0k-	la			Mani	h Day
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	20. Facility Owner or Operator Certification of Printed/Typed Name	receipt of hazardous mater	ials covered by the Signature	nis manifest exc	ept as noted i	n Item 19.	· · ·	Mon	th Day

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	practicable and that I have selected the practicable method of tr and the environment; OR, if I am a small quantity generator, I I available to me and that I can afford.	eatment, storage, ar disposal curren nove made a goad faith effart ta mi	nimize my waste i	generation	and select the bes	t waste man	agement method tho
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DO NOT WRITE BELOW THIS LINE.

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Jinston H. Hickox ecretary for nvironmental rotection

May 9, 2000

Ms. Rebecca M. Bond, P.E. **Environmental Engineer** Agilent Technologies, Inc. 350 West Trimble Road San Jose, California 95131

Dear Ms. Bond:

This is in response to your letter dated March 30, 2000, regarding hazardous waste generation and management activities at the Agilent/LumiLeds facility located at 350/370 West Trimble Road, San Jose.

Department of Toxic Substances Control

Edwin F. Lowry, Director 400 P Street, 4th Floor, P.O. Box 806 Sacramento, California 95812-0806

ERWIN FYI - file R.-

The various issues raised in your March 30, 2000, letter are under review by the Department of Toxic Substances Control (DTSC) in light of the applicable State laws, regulations and policies. In order to facilitate our review, please provide us with your proposed agreement with LumiLeds by which Agilent would assume full responsibility associated with all the hazardous waste generation and management activities, including those of LumiLeds, conducted at this facility. We will provide you with a final response once we have reviewed the proposed agreement. Please send the proposed agreement and any additional information to:

> Ms. Peggy Harris, P.E., Chief State Regulatory Programs Division **Department of Toxic Substances Control** 400 P Street, 4th Floor P.O. Box 806 Sacramento, California 95812-0806

If you have any questions, please contact Ms. Peggy Harris at (916) 324-7663.

Very truly yours

Edwin F. Lowry Director



See next page.



Grav Davis Governor

County of Santa Clara		Program Record ID		SC	Time
Department of Environmental Health	has wate Timed Permit	7362934	2208	01	120
Hazardous Materials Compliance Division	Tioned Permit	V 367953	2.2.61	01	60
2220 Moorpark Avenue	Tiend Permit	367954	2261	01	60
P.O. Box 28070	Ticred Permit	367955	2262	OI	45
San Jose, CA 95159-8070					
(408) 299-6930 Fax (408) 280-6479					

OFFICIAL NOTICE OF INSPECTION

Facility Name: Limileds Lighting	US, LLC	Inspection Date: 6/24/00
Site Address: 310 W. Trimble	RI. Som Jose	Work Area:
Contact Person(s): Mitch Cole	/ J	Employee No.: 4658
Inspection Type: Hazardous Materials	Cal-Accidental Release Prevention Program	Samples Taken? 🛛 Yes; 🄀 No.
Hazardous Waste	Medical Waste Storage/Treatment	Photographs Taken? 🛛 Yes; 🗖 No.
Toxic Gas	Medical Waste Generator	

VIOLATIONS: Codes noted below in the "Violation Code" column represent specific violations of State law and/or local Ordinance. These codes are defined in the attached Violation Codes document(s). Time granted for correction of violations does not preclude any enforcement action by this Department or other agencies. This facility may be subject to reinspection at any time.

Violation Codes	Summary of Violations, Notice to Comply, Observations, and Required Corrective Actions	Corrective Actions Taken
	May, whate generator inspection, PBR inspection, CA inspection	
2206-C	2 - 5 pal maste oil containers - labeled waste oil only.	corrected during inspection
	2 - 5 gal maste oil constainers - labeled waste oil only. iabel missing "Has. waste", generator name + address, has properties, accumulation shart date.	· / /
	has propertied, accumulation share date.	
	1 accumulation start date, corrected during inspection.	
	Records Reviewed: manifests for 3 years, contingency plan, training records, weekly inspection loops, daily inspection	
	logo, waste analysis plans, waste profiles, financial	
	operations, inspection schedules, waste min. certification,	
	PBR + CA notification + authorizoition.	
	(manifests prior to 11/99 were under Hewlitt Packar)	
	ownership)	
	,	

All violations must be corrected within 30 days of the inspection date unless noted otherwise, above. Section 25187.8 of the State Health and Safety Code (H&SC) requires that you write a brief description of the corrective actions you have taken to bring this facility into compliance and submit it to this Department within 5 days of achieving compliance, or within 35 days of the inspection date, whichever comes first. (Note: Detailed instructions on actions you must take are printed on the reverse side of this page.) 7.(2.00)

Received by: Matsal	6/28/00 Inspected by: Styphanie	Christenberry_	Entered by: <u>10022</u>
Contifications Leastify under nonalty of	parium that this facility has complied wi	th directives encoified in (this Notice to Comply

Certification: I certify under penalty of perjury that this facility has complied with directives specified in this Notice to Comply.

Signature of Owner/Operator:

Title:

Date:

FACILITY SENDS YELLOW COPY TO AGENCY, KEEPS PINK COPY.

Page 1 of ____.

THE OLUCIAL NOTICE OF INSPECTION IN LAINEI

This Official Notice of Inspection (Notice of Inspection) describes the findings made during the inspection, including all violations and any actions that must be taken by the facility to correct the violations. All violations must be corrected <u>within 30 days</u> of the inspection date unless noted otherwise by the inspector.

Within five working days of achieving compliance, or within 35 days of the inspection, whichever comes first, you must submit a written response which describes the corrective actions you have taken or - for those violations which are impossible to correct within 30 days - propose to take in order to bring your facility into compliance. Where proposed corrective actions are described, you must specify a date by which you expect each violation to be corrected. After you have addressed each violation, complete the certification box located at the bottom of page 1 of the Notice of Inspection. Your description of corrective actions taken, along with your signed certification of the Notice of Inspection and any required supporting documents, will serve as your written response to the inspection. Your response must be mailed to the Santa Clara County Hazardous Materials Compliance Division (HMCD) at P.O. Box 28070, San Jose, CA 95159-8070.

What Does the Information in Each Column Mean?

Violation Code: Codes listed in this column identify specific violations of laws, regulations, or codes which were observed during this inspection. Definitions of Violation Codes are listed on the attached Violation Codes document(s):

Summary of Violations, Notice to Comply, Observations, and Required Corrective Actions: Information noted in this column describes the circumstances of any violations noted in the first column and describes how the violations may be corrected. Additionally, the inspector may use this space to note any additional observations resulting from the inspection.

Corrective Actions Taken: This column on the Notice of Inspection has been provided so that you can note how you have corrected or propose to correct each violation. Where proposed corrective actions are described, you must specify a date by which you expect each violation to be corrected. If more space is needed, attach additional pages.

Why Were Two Copies of the Notice of Inspection Given to Me?

You have been given two copies so you will have a copy for your own records after you submit your written response to HMCD. Do not separate the copies until you have described all of your corrective actions and signed the certification box on page 1. The yellow copy of each page must be submitted to HMCD. The pink copy is for your records.

What if I Disagree With a Violation Noted on the Notice of Inspection?

If you disagree with any violation listed in this Notice of Inspection, you must submit a written Notice of Disagreement, within 35 days of the inspection date, to the inspector who cited the violation. In your Notice of Disagreement, you must explain in detail why the violation does not exist. If there is sufficient space, you may use the "Corrective Actions Taken" column of this Notice of Inspection to dispute violations.

What About Photographs or Samples Taken During the Inspection?

Since this Notice of Inspection was prepared and given to you at the end of the inspection, any photographs and sampling or laboratory results associated with the inspection were not yet available. A copy of any photographs and/or analytical results from sampling taken during this inspection will be provided to you upon written request. Other pertinent information derived from the inspection is attached to this Notice of Inspection. Photographs and sample results may be withheld in the event of a criminal investigation or other ongoing investigation.

Hazardous Waste Violations

° Per H&SC, Section 25187.8(g)(1), failure to sign the certification on this Notice of Inspection and return it to this Department is a violation of State law.

- Per H&SC, Section 25191, a false statement that compliance has been achieved is a violation of State law punishable by a fine of not less than \$2,000 or more than \$25,000 and/or imprisonment in the county jail for up to one year.
- Per H&SC, Section 25187.8(j), this Department has the right to acquire the submittal of reasonable and necessary documentation in support of any claim of compliance made by your facility.

	- 2521	44			
County of Santa Clara		Program Record ID		SC	Time
Department of Environmental Health	has waste Tioned Permit	317934	2208	01	
Hazardous Materials Compliance Division	Tioned Permit	367953	2261	01	
2220 Moorpark Avenue	Tien) Permit	367954	2261	01	
P.O. Box 28070	Times Permit	367955	2262	01	
San Jose, CA 95159-8070	C. 17				
(408) 299-6930 Fax (408) 280-6479	EYI				
	coppy	· ·			
			DODION		

OFFICIAL NOTICE OF INSPECTION

Facility Name: Lighting	US, LLC	Inspection Date: 6/2x/00
Site Address: 370 W. Trimble	,	Work Area:
Contact Person(s): Mitch Cole	/ /	Employee No.: 46.58
Inspection Type: Hazardous Materials	Cal-Accidental Release Prevention Program	Samples Taken? Yes; X No.
Hazardous Waste	Medical Waste Storage/Treatment	Photographs Taken? 🛛 Yes; 🗖 No.
Toxic Gas	Medical Waste Generator	

VIOLATIONS: Codes noted below in the "Violation Code" column represent specific violations of State law and/or local Ordinance. These codes are defined in the attached Violation Codes document(s). Time granted for correction of violations does not preclude any enforcement action by this Department or other agencies. This facility may be subject to reinspection at any time.

Violation . Codes	Summary of Violations, Notice to Comply, Observations, and Required Corrective Actions	Corrective Actions Taken
	Haz, whate generator inspection, PBR inspection, CA inspection	
2206-0	2 - 5 pal maste oil containers - labeled waste oil only.	corrected during inspection
	2 - 5 pal maste oil containers - labeled whole oil only. Label missing "Has, waste", generator name + address, hay properties, accumulation shart date.	, ,
	has properfied, accumulation start date.	
	1 accumulation start date, corrected during inspection.	- add 46 -
	ł •	NN - 9000000
	Records Reviewed: manifests for 3 years, contingency plan,	to PBR
	training records, wellely inspection loops, daily inspection	Waster + Treatment
	logo, waste analysis plans, waite profiles, financial	
	assurance, closure plans, written inclustions for freatment	· ·
	operations, inspection schedules, waste min, certification,	
	PBR + CA notification + anthorization.	
	(manifests prior to 11/99 were under Hewlitt Packard	
	ownership)	
	CaFI W/ arsenic is Litter pressed + handled as has	wante (03 how thin code)

All violations must be corrected within 30 days of the inspection date unless noted otherwise, above. Section 25187.8 of the State Health and Safety Code (H&SC) requires that you write a brief description of the corrective actions you have taken to bring this facility into compliance and submit it to this Department within 5 days of achieving compliance, or within 35 days of the inspection date, whichever comes first. (Note: Detailed instructions on actions you must take are printed on the reverse side of this page.)

Received by: Matsal	6/28/00 Inspected by: Suph	anie Christenerry	Entered by:

Certification: I certify under penalty of perjury that this facility has complied with directives specified in this Notice to Comply.

Signature of Owner/Operator:

, . e ... ,

FACILITY SENDS YELLOW COPY TO AGENCY, KEEPS PINK COPY.

2044

Page 1 of l.

TIERED PERMIT FILE INFORMATION

Date C General Information:	completed: 11,07,05 Staff: Mi Ballict
Facility Name: <u>LUMilCols Lighting</u> La Site Address: <u>372</u> W - Trinble A Contact Person: <u>MACh Cole</u> Contact Fax No.: (<u>UJJ</u>) <u>435-4155</u> Contact E-ma Previous Business Name(s) at This Address: <u>Ag</u> , let / If e	Contact Phone No.: (403) 435-4205

Documents:

Date Submitted/Status
10/04/05
Vending Completion 10/21/05 Schamttel

Unit Information:

Unit No.	Un Ty		Unit Description	Sub	Notification mittal Date		iments	Dat Clos	
NS-1	\$9-₽ BR □ CA □ CESQT	CESW CEL CECL	Neumalization	Initial Update	10/04/05	Change will 11/0405	take place	1	/
MPV-1	☐ PBR □ CA □ CESQT	CESW CEL CECL	Metal piccipitation	Initial Update	10/04/05	V	V	1	1
	□ PBR □ CA □ CESQT	CESW CEL CECL		Initial Update	//			/	/
	□ PBR □ CA □ CESQT	CESW CEL CECL		Initial Update			-	/	/
	□ PBR □ CA □ CESQT	CESW CEL CECL		Initial Update	//				/
-	□ PBR □ CA □ CESQT	CESW CEL CECL		Initial Update	//			/	1
	 PBR CA CESQT 	CESW CEL CECL		Initial Update	//				/

Unit Information (continued):

Unit No.	Un Ty		Unit Description	Unit Notification Submittal Date	Comments	Date Closed
	D PBR CA CESQT	□ CESW □ CEL □ CECL		Initial/ Update/		./ /
	D PBR CA CESQT	CESW CEL CECL		Initial// Update/		
	□ PBR □ CA □ CESQT	CESW CEL CECL		Initial / / /		
	□ PBR □ CA □ CESQT	CESW CEL CECL		Initial// Update//		/ /
	□ PBR □ CA □ CESQT	CESW CEL CECL		Initial/ Update//		/ /
	D PBR CA CESQT	CESW CEL CECL		Initial// Update//		/ /
	D PBR CA CESQT	CESW CEL CECL		Initial// Update//		<u> </u>

Comments: (*Date all comments.*)

10/07/05 - Comileds took and IBR units planibusly operated by Agricut under a Disc Variance.

San Jose Business Activity Document (SJ BAD)

Facility Information	FLOOGORIC	
	FA_0258064	_ 🗌 New 🔲 Update All 🔲 Update Highlighted
Facility Name: Avago Technologies Site Address: 350 w. Trivuble Road		
· ·		
Emerg/Environ Contact:		Phone:
Title:	ana katalahan katalah katalah katalah peranggan katalah katalah katalah katalah katalah katalah katalah katala	Email: philip.lopoz@avagotech.com
Business Owner	OW	New Update All Update Highlighted
Owner Name:		Phone:
Mailing Address:	•	· · · ·
Business Code: 🗌 Individual 📋 Partnership 🔲 C	orp/LLC 🗌 Local A	gency Other:
Billing and Permit Information	AR	🗌 New 🔲 Update All 🔲 Update Highlighted
Send invoices/permits to mailing address of: Facil	ity 🗌 Owner 🔲 Bi	lling Address (below)
Billing Care of:		Phone:
Billing Address:		
Program Information /	•	Permit Exp. Date
HMBP #Rpt Chemicals: 8 Last HMIR	RP Date: 8-5-11/	PE 605 PR0397043
· · ·		PE#Units
□ APSA Fac. Type: □ SPCC Exempt □ <10K g	al 🗌 10-50K gal 🔲	50K+gal PEPR
□ UST #Tanks:	· · ·	PE
□ Cal APR		PE PR
HW Generator Qty/yr: RCRA I	.QG	PEPR
HW Treatment Tier: PBR CA CE	•	PEPR
HW Recycler Qty/mo:	•	PE PR
Paperwork		Anna 20 bezer 1157 - 21 21 den er bereg ben den stand som provinsen for ten standarde som besen som som som so
\Box Scan attached HMBP ¹ \Box Split / merge / rename I	IMBP in Unprocessed	eDocs ¹
\square HMBP already processed and available at ² : \square eDo		
Files: \Box No file currently exists for this facility \Box E		
Clerical staff responsible for making and mailing ER copy of HMBP.		
Inspection staff responsible for making ER copy of HMBP and placing it i	n the appropriate basket for ma	illing.
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repared by: Roward Queman	Date	e: 10-11-11
enior/Manager Initials:		nt by: 100/4 Date: 0CT 1 3 2011
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County of Santa Clara

Department of Environmental Health

Hazardous Materials Compliance Division

1555 Berger Drive, Suite 300 San Jose, CA 95112-2716 (408)918-3400 FAX (408)280-6479 www.EHinfo.org



May 15, 2014

PHILIP LOPEZ AVAGO TECHNOLOGIES US.INC. 370 WEST TRIMBLE ROAD SAN JOSE CA 95131 EPA I.D.: CAL000337123 Initial Authorization: 10/4/2005 Renewal Date: May 15, 2014

Dear Onsite Treatment Facility:

The County of Santa Clara Hazardous Materials Compliance Division (HMCD) has received your facility's PBR Renewal Notification submitted via the California Environmental Reporting System (CERS). It has not been reviewed for technical adequacy. The technical review will be conducted during a facility inspection by this office. A copy of the Hazardous Waste Tiered Permit Audit Checklist-Permit By Rule can be found on website www.EHinfo.org.

The treatment unit (s) listed below is / are hereby authorized pursuant to Title 22 of the California Code of Regulations (CCR). Your authorization continues until you notify this office that you have stopped treating wastes and have fully closed the unit(s) pursuant to all applicable closure requirements of CCR Title 22 and your closure plan.

Ms. Violeta Mislang with the state Department of Toxic Substances Control (DTSC) can be contacted at (714) 484-5387 for questions concerning the Phase I Environmental Assessment/Corrective Action Program. If you have any questions regarding this letter please contact me at (408) 918-1985 or e-mail: ruben.williams@deh.sccgov.org.

Sincerely,

Ruhen J. Williams

Ruben Williams, CHMM Senior Hazardous Materials Specialist Hazardous Materials Compliance Division

Units authorized to operate at this location:

UNDER PERMIT BY RULE: NS-2

ENVISIONCONNECT ADJUSTMENT REQUEST FORM (EAR)

Facility ID: FA0258869 Owner ID: OW0161987 CERS ID: 10352107 Facility Name: AVAGO TECHNOLOGIES Site Address: 350 W TRIMBLE RD, SAN JOSE

Unless specified below, all records will be inactivated, outstanding	g charges will be reversed, and the account will be inactivated							
\Box Leave charges in place and keep account open.	g charges will be reversed, and the account will be mactivated.							
Add Facility								
Unless specified below, new owner and facility records will be created	eated using the application/information attached, or as provided below.							
Link new facility to existing owner:								
ONO changes needed OUpdate owner – application/i	information attached or provided below.							
Update Facility, Owner and/or Account Information								
Facility Name:								
CERS ID (Hazmat Only):								
Care Of:	Mailing Address:							
Site Address:								
Mailing Address:								
Phone: Email:								
Jurisdiction:								
City Code:								
APN:								
Fax:								
Other:								
Add or Update Related Records and Permits								
Record ID PE Status Employee	e Other:							
 Invoice programs: Bill now in full OBill later on the existing billing cycle Prorate to establish/maintain permit valid dates of: Back-bill charges and back-date permit starting from Other: 								
☐ Fiscal Adjustments								
Account ID: Balance: Inactivate account ar	and reverse any charges Send to collections							
□ Reverse all charges on invoice ID: and rebill with th								
□Transfer payment of: from invoice ID: to in								
Add one-time invoice: Qty: x PE: = Total char								
\Box Modify invoice(s):								
	ount: Comment:							
	ount: Comment:							
Other:								
omments (Include the rationale for this data change rec	quest, unless clearly identified by attached information.)							
□ This request impacts another program/division/agency.	otained from:							
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ORequest approval to proceed OApproval already ob Facility closed, closure activities, report and PBR closure le epared by: Socorro Guzman	etter available on CERS.							
ORequest approval to proceed OApproval already ob Facility closed, closure activities, report and PBR closure le epared by: Socorro Guzman	etter available on CERS.							
ORequest approval to proceed OApproval already ob Facility closed, closure activities, report and PBR closure le epared by: Socorro Guzman	etter available on CERS.							

FA0158869

UNIFIED PROGRAM CONSOLIDATED FORM FACILITY INFORMATION BUSINESS OWNER/OPERATOR IDENTIFICATION

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(Agency Use Only)															8	/5/	11			8/5/12		
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Avago Technolgies U.S. In	nc.															•			408-43	5-7400		
BUSINESS SITE ADDRESS																			I			103.
350 W. Trimble Rd.																						
CITY															104			ZIPO	CODE			105.
San Jose																	CA	951	31			
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Facilities Manager														Enviro	nme	enta	al Engi	ineer				
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Property Owner: Avago Te	echr	olo	gies															Pho	one No.:	408-435-7400		
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am familiar with the information	subn	nitteo	d and b	eli	eve t	the	info	m	ation	is	true,	acci	urat	te, and c	ompl	ete.	,		,			
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Philip Lopez														Facil	lities	s M	lanage	r				
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Avago T	echnologies	. U.S.	Inc.										
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	ARDOUS WA		*****			General Annual Martine Annual					****		
1. Ge	enerate hazard	lous wa	iste?							🖾 YES	🗌 N	9.	EPA ID NUMBER – provide at the top of the page
	cycle more the				of exclu	ided o	r exer	npted rec	yclable		5 7	•	RECYCLABLE MATERIALS REPORT (01
	aterials (per H eat hazardous									YES			per recycler) ONSITE HAZARDOUS WASTE
										YES) 11.	TREATMENT – FACILITY (Formerly DTSC Forms 1772) ONSITE HAZARDOUS WASTE TREATMENT – UNIT (one page per unit) (Form DTSC Forms 1772 A,B,C,D and L)
Ru	eatment subje ile and Condit	tional A	Authori	izatio	n)?	•		·	rmit by	🛛 YES	□ N) 12.	CERTIFICATION OF FINANCIAL ASSURANCE (Formerly DTSC Form 1232)
5Co	onsolidate haz	ardous	waste	gener	ated at	a remo	ote site	e?		U YES	X NO) 13.	REMOTE WASTE / CONSOLIDATION SITE ANNUAL NOTIFICATION (Formerly
	ed to report zardous waste					tank 1	that v	vas classi	fied as	T YES			DTSC Form 1196) HAZARDOUS WASTE TANK CLOSURE CERTIFICATION (Formerly DTSC Form 1249)
E LOCA	I. REOURE	MENT	S		ou may al	co be rea	nuired t	o provide a	ditional in	formation by	NOUT CU		
<u>E. LOCA</u>	<u>L REQUIRE</u>	MENT	S	œ	ou may al	so be rea	quired t	o provide ad	lditional in	<u>formation by</u>	your CU	PA or loc	<u>cal agency.)</u>

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Hazardous Materials Inventory Statement For use by Unidocs Member Agencies or where approved by your Local Jurisdiction

Date: 9/19/ Business Na		4 <i>GO TE</i> C	HNOL	OGIES			MAP ID	: Buildin	g 90 l	Baseme	Pag nt Level Fac	e: 1 of 40 vility ID#:	
DOT HAZ CLASS	Location	CHEMICA (COMMON		HAZARDOU	'S COM	PON	ENTS	PHYSICAL STATE	QUAN	NTITIES	STORAGE CONTAINERS	STORAGE CODES	SARA CATEGORIES
2.2: NONFLAMMABL E GASES	B,3	Halon 1301 (Bromotrifluo e) CAS#: 75-63		<u>name</u> bromotrifluorome hane	<u>ehs</u> et N	<u>%</u> 100	<u>cas</u> 75-63-8	Liquid (pure)	MAX AVG LC WST DAYS CUR	75 LBS 75 LBS 75 LBS 0 LBS 365 N/A	CYLINDER	pres: > AME temp: AMB	3 PRESSURE RELEASE, ACUTE HEALTH
2.2: NONFLAMMABL E GASES	C,4	Nitrogen (Nitrogen) CAS#: 7727-	-37-9	<u>name</u> nitrogen	<u>ehs</u> N	<u>%</u> 100	<u>cas</u> 7727-37-9	GAS .(PURE)	MAX AVG LC WST DAYS CUR	304 CUFT 304 CUFT 0 CUFT 365	CYLINDER	pres: > AME temp: AMB	3 PRESSURE RELEASE
: FLAMMABLE ND COMBUSTIBLE IQUIDS	C,5	Waste Strip Transfer Ta (not in use) CAS#: NON	ık	name waste stripper transfer tank	<u>elıs</u> N	<u>%</u> 100	<u>cas</u>	LIQUID (MIXTURE)	MAX AVG LC WST DAYS CUR	0 GAL 250 GAL 0 GAL	TANK INSIDE BUILDING	pres: AMB temp: AMB	FIRE, ACUTE HEALTH, CHRONIC HEALTH
V 2.2: NONFLAMMABL E GASES -	E,4	Nitrogen (Nitrogen) CAS#: 7727	-37-9	<u>name</u> nitrogen	<u>ehs</u> N	<u>%</u> 100	<u>cas</u> 7727-37-9	GAS (PURE)	MAX AVG LC WST DAYS CUR	608 CUFT 608 CUFT 304 CUFT 0 CUFT 365 N/A	CYLINDER	pres: > AME temp: AMB	B PRESSURE RELEASE
					and all former as your		14 00000 10000 100000						

Acronyms: MAX Maximum Daily Amount; AVG: Average Daily Amount; DAYS: Days On Site; LC: Largest Container; CUR: Curies

Date: 9/19/	/2011							Page	e: 2 of 40	
Business Na	ame: Phi	ilips Lumileds			MAP IL	: Buildin	g 90 Basem	ent Level Faci	ility ID#:	
DOT HAZ CLASS	Location	CHEMICAL NAME (COMMON NAME)	HAZARDOU	IS COM	<i>IPONENTS</i>	PHYSICAL STATE	QUANTITIES	STORAGE CONTAINERS	STORAGE CODES	SARA CATEGORIES
2.2: NONFLAMMABL E GASES	Н, З	Argon () CAS#: 7440-37-1	<u>name</u> argon	<u>ehs</u> N	<u>% cas</u> 100 7440-37-1	GAS (PURE)	MAX 280 CUF1 AVG 280 CUF1 LC 280 CUF1 WST 0 CUF1 DAYS 365 CUR N/A		pres: > AMB temp: AMB	PRESSURE RELEASE
2.2: NONFLAMMABL E GASES	Н, З	Carbon Dioxide () CAS#: 124-38-9	<u>name</u> carbon dioxide	<u>ehs</u> N	<u>% cas</u> 100 124-38-9	GAS (PURE)	MAX 341 CUFT AVG 341 CUFT LC 341 CUFT WST 0 CUFT DAYS 365 CUR N/A	CYLINDER	pres: > AMB temp: AMB	PRESSURE RELEASE
2.2: NONFLAMMABL E GASES	Н, 3	Helium () CAS#: 7440-59-7	<u>name</u> helium	<u>ehs</u> N	<u>% cas</u> 100 7440-59-7	GAS (PURE)	MAX 488 CUFT AVG 244 CUFT LC 244 CUFT WST 0 CUFT DAYS 365 CUR	CYLINDER	pres: > AMB temp: AMB	PRESSURE RELEASE
2.2: NONFLAMMABL E GASES	Н, З	Nitrogen (Nitrogen) CAS#: 7727-37-9	<u>name</u> nitrogen	<u>ehs</u> N	<u>% cas</u> 100 7727-37-9	GAS (PURE)	MAX 608 CUF1 AVG 608 CUF1 LC 304 CUF1 WST 0 CUF1 DAYS 365 CUR N/A	CYLINDER	pres: > AMB temp: AMB	PRESSURE RELEASE
2.2: NONFLAMMABL E GASES	H, 3	Oxygen () CAS#: 7782-44-7	<u>name</u> oxygen	<u>ehs</u> N	<u>% cas</u> 100 7782-44-7	GAS (PURE)	MAX 498 CUF1 AVG 498 CUF1 LC 249 CUF1 WST 0 CUF1 DAYS 365 CUR	CYLINDER	pres: > AMB temp: AMB	PRESSURE RELEASE

Date: 9/19 / Business Na		lips Lum	ileds			MAP ID	: Buildin	g 90 E	Basemei	Page nt Level Faci	e: 3 of 40 lity ID#:	
DOT HAZ CLASS	Location	CHEMICA (COMMON		HAZARDOUS CO	OMPON	VENTS	PHYSICAL STATE	QUAN	TITIES	STORAGE CONTAINERS	STORAGE CODES	SARA CATEGORIES
2.2: NONFLAMMABL E GASES	H, 3	Silane 1% ir () CAS#: NON	J	<u>name</u> <u>ehs</u> silane N nitrogen N	1	<u>cas</u> 7803-62-5 7727-37-9	GAS (MIX⊤URE)	AVG LC WST DAYS	207 CUFT 207 CUFT 207 CUFT 0 CUFT 365 N/A	CYLINDER	pres: > AMB temp: AMB	PRESSURE RELEASE
2.2: NONFLAMMABL E GASES	Н, З	Sulfur Hexa () CAS#: 2551		<u>name</u> <u>ehs</u> sulfur N hexafluonde		<u>cas</u> 2551-62-4	GAS (PURE)	MAX AVG LC WST DAYS CUR	261 CUFT 261 CUFT 261 CUFT 0 CUFT 365 N/A	CYLINDER	pres: >AMB temp: AMB	PRESSURE RELEASE
2.2: NONFLAMMABL E GASES	Н, 3.	Tetrafluoron (Halocarbor CAS#: 75-7	14)	<u>name</u> <u>eh:</u> tetrafluoromethan N e		<u>cas</u> 75-73-0	GAS (PURE)	AVG LC WST DAYS	616 CUFT 616 CUFT 308 CUFT 0 CUFT 365 N/A	CYLINDER	pres: > AMB temp: AMB	PRESSURE RELEASE
2.2: NONFLAMMABL E GASES	H, 3	Trifluoromet () CAS#: 75-4	-	<u>name</u> <u>eh;</u> trifluoromethane N		<u>cas</u> 75-46-7	GAS (PURE)	MAX AVG LC WST DAYS CUR	387 CUFT 387 CUFT 387 CUFT 0 CUFT 365 N/A	CYLINDER	pres: > AMB temp: AMB	PRESSURE RELEASE
NONE	J,2	Avago Indus Wastewater (AWN Colle Tank) CAS#: NON	ction	<u>name</u> <u>elı</u> avago industrial N wastewater	<u>s %</u> 100		LIQUID (MIXTURE)	MAX AVG LC WST DAYS CUR	1000 GAL 1000 GAL 1000 GAL 0 GAL 365 N/A	TANK INSIDE BUILDING	pres: AMB temp: AMB	ACUTE HEALTH

Date: 9/19/2011 Business Name: Ph	ilips Lumileds				MAP II): Buildin	g 90 Ba	iseme	Pag nt Level Fac	e: 4 of 40 ility ID#:	
DOT HAZ CLASS Location	CHEMICAL NAME (COMMON NAME)	HAZARDOU	S COM	IPON	ENTS	PHYSICAL STATE	QUANTI	TIES	STORAGE CONTAINERS	STORAGE CODES	SARA CATEGORIES
8: CORROSIVES J,2	AWN Collection Tank (AWN Tank) _. CAS#: NONE	<u>name</u> awn collection tank	<u>ehs</u> N	<u>%</u> 100	<u>cas</u>	Liquid (Mixture)	AVG 50 LC 50		TANK INSIDE BUILDING	pres: AMB temp: AMB	ACUTE HEALTH
8: CORROSIVES J,2	AWN Collection Tank (AWN Collection Tank) CAS#: NONE	<u>mame</u> awn collection tank	<u>ehs</u> N	<u>%</u> 100	<u>cas</u>	LIQUID (MIXTURE)	AVG 50 LC 50		TANK INSIDE BUILDING	pres: AMB temp: AMB	ACUTE HEALTH
8: CORROSIVES k,2	Waste HF Holding Tank (not in use) CAS#: NONE	<u>name</u> water hydrofluoric acid ammonium hydroxide potassium permanganate	<u>ећs</u> N п п	1 1	<u>cas</u> 7732-18-5 7664-39-3 1336-21-6 7722-64-7	LIQUID (MIXTURE)	AVG 0	65	TANK INSIDE BUILDING	pres: AMB temp: AMB	ACUTE HEALTH, CHRONIC HEALTH

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Date: 9/19/ Business Na		GO TECHNOL	OGIES		MAP ID	: Buildin	g 90 Lower	•	:: 6 of 40 lity ID#:	
DOT HAZ CLASS	Location	CHEMICAL NAME (COMMON NAME)	HAZARDOU	S COM	IPONENTS	PHYSICAL STATE	QUANTITIES	STORAGE CONTAINERS	STORAGE CODES	SARA CATEGORIES
2.2: NONFLAMMABL E GASES	01H6A Chase	Helium () CAS#: 7440-59-7	<u>name</u> helium	<u>ehs</u> N	<u>% cas</u> 100 7440-59-7	gas (Pure)	MAX 244 CUFT AVG 244 CUFT LC 244 CUFT WST 0 CUFT DAYS 365 CUR N/A	CYLINDER	pres: > AMB temp: AMB	PRESSURE RELEASE
2.2: NONFLAMMABL E GASES	01H6A Chase	Oxygen () CAS#: 7782-44-7	<u>name</u> oxygen	<u>ehs</u> N	<u>% cas</u> 100 7782-44-7	GAS (PURE)	MAX 249 CUFT AVG 249 CUFT LC 249 CUFT WST 0 CUFT DAYS 365 CUR N/A	CYLINDER	pres: > AMB temp: AMB	PRESSURE RELEASE
2.2: NONFLAMMABL E GASES	01H6A Chase	Oxygen 5% in Nitrogen () CAS#: NONE	<u>name</u> oxygen nitrogen	<u>ehs</u> N N	<u>% cas</u> 5 7782-44-7 95 7727-37-9	GAS (MIXTURE)	MAX 210 CUFT AVG 210 CUFT LC 210 CUFT WST 0 CUFT DAYS 365 CUR N/A	CYLINDER	pres: > AMB temp: AMB	PRESSURE RELEASE
2.2: NONFLAMMABL E GASES	01J6A chase	Carbon Dioxide () CAS#: 124-38-9	name carbon dioxide	<u>ehs</u> N	<u>% cas</u> 100 124-38-9	GAS (PURE)	MAX 60 LBS AVG 60 LBS LC 60 LBS WST 0 LBS DAYS 365 CUR N/A	CYLINDER	pres: > AMB temp: AMB	PRESSURE RELEASE
8: CORROSIVES	Device Developme nt .	Acetic Acid () CAS#: 64-19-7	<u>name</u> acetic acid water	<u>ehs</u> N N	<u>% cas</u> 90 64-19-7 10 7732-18-5	LIQUID (PURE)	MAX 1 GAL AVG 1 GAL LC 1 GAL WST 0 GAL DAYS 365 CUR N/A	GLASS BOTTLE OR JUG	pres: AMB temp: AMB	FIRE, ACUTE HEALTH

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Date: 9/19/										U	e: 5 of 40	
Business Na	ame: AV	AGO TECHNOL	OGIES		Ì	MAP ID	: Buildin	g 90 L	ower	Faci	ility ID#:	
DOT HAZ CLASS	Location	CHEMICAL NAME (COMMON NAME)	HAZARDOU	S COM	<i>APONI</i>	ENTS	PHYSICAL STATE	QUAN	TITIES	STORAGE CONTAINERS	STORAGE CODES	SARA CATEGORIES
8: CORROSIVES	01G4 Chase	Corrosive liquid waste container () CAS#: NONE	<u>mame</u> mixture of inorganic acids	<u>ehs</u> N	<u>%</u> 100	<u>cas</u>	LIQUID (MIXTURE)	AVG LC WST	5 GAL 5 GAL 5 GAL 0 GAL 365 N/A	GLASS BOTTLE OR JUG	pres: AMB temp: AMB	FIRE
3: FLAMMABLE AND COMBUSTIBLE LIQUIDS	01G4 Chase	Flammable liquid waste container () CAS#: NONE	name mixture of organic solvents	<u>ehs</u> N	<u>%</u> 100	<u>cas</u>	LIQUID (MIXTURE)	AVG LC WST DAYS	5 GAL 5 GAL 5 GAL N/A 365 N/A	GLASS BOTTLE OR JUG	pres: AMB temp: AMB	FIRE
2.2: NONFLAMMABL E GASES	01G4 - Chase	Oxygen () CAS#: 7782-44-7	<u>name</u> oxygen	<u>ehs</u> N	<u>%</u> 100	<u>cas</u> 7782-44-7	GAS (PURE)	AVG LC WST DAYS	249 CUFT 249 CUFT 249 CUFT 0 CUFT 365 N/A	CYLINDER	pres: > AMB temp: AMB	PRESSURE RELEASE
2.2: NONFLAMMABL E GASES	01G4 Chase	Oxygen 8% in Halocarbon 14 () CAS#: NONE	name oxygen carbon tetrafluoride	<u>ehs</u> N N		<u>cas</u> 7782-44-7 75-73-0	GAS (MIXTURE)	AVG LC WST DAYS	249 CUFT 249 CUFT 249 CUFT 0 CUFT 365 N/A	CYLINDER	pres: > AMB temp: AMB	PRESSURE RELEASE
2.2: NONFLAMMABL E GASES	01H6A Chase	Argon () CAS#: 7440-37-1	<u>name</u> argon	<u>ehs</u> N	<u>%</u> 100 -	<u>cas</u> 7440-37-1	GAS (PURE)	AVG LC WST	248 CUFT 248 CUFT 248 CUFT 0 CUFT 365 N/A	CYLINDER	pres: > AMB temp: AMB	PRESSURE RELEASE

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Date: 9/19/1 Business Na		ips Lum	ileds			M	LAP ID	: Buildin	g 90 I	Lower	-	7 of 40 ity ID#:	·.
DOT HAZ CLASS	Location	CHEMICA (COMMON		HAZARDOU	ѕ сом	PONE	VTS	PHYSICAL STATE	QUAN	NTITIES	STORAGE CONTAINERS	STORAGE CODES	SARA CATEGORIES
3: FLAMMABLE AND COMBUSTIBLE LIQUIDS	Device Developme nt	Acetone () CAS#: 67-64	1	<u>name</u> acetone	<u>ehs</u> N	<u>%</u> 100 (<u>cas</u> 57-64-1	LIQUID (PURE)		16 GAL 16 GAL 1 GAL 0 GAL 365 N/A	PLASTIC BOTTLE OR JUG	pres: AMB temp: AMB	FIRE
3: FLAMMABLE AND COMBUSTIBLE LIQUIDS	Device Developme nt	Adhesion Pr () CAS#: 999-:		name hexamethyl disilazane	<u>ehs</u> N	<u>%</u> 100 9	<u>cas</u> 99-97-3	LIQUID (MIXTURE)	MAX AVG LC WST DAYS CUR	0.5 GAL 0.5 GAL 0.125 GAL 0 GAL 365 N/A	GLASS BOTTLE OR JUG	pres: AMB temp: AMB	FIRE, REACTIVE, ACUTE HEALTH
2.2: NONFLAMMABL E GASES	Device Developme nt	Ammonia 10 () CAS#: 7664	· .	<u>name</u> ammonia 100%	<u>ehs</u> Y	<u>%</u> 100 76	<u>cas</u> 664-41-7	LIQUID (PURE)	MAX AVG LC WST DAYS CUR	1243 CUFT 1243 CUFT 1243 CUFT 0 CUFT 365 N/A	CYLINDER	pres: > AMB temp: > AMB	PRESSURE RELEASE, ACUTE HEALTH
8: CORROSIVES	Device Developme nt	Ammonium Hydroxide 3 () CAS#: 1336		<u>name</u> ammonium hydroxide water	<u>ehs</u> N N		<u>cas</u> 336-21-6 732-18-5	LIQUID (MIXTURE)	MAX AVG LC WST DAYS CUR	2 GAL 2 GAL 1 GAL 0 GAL 365 N/A	PLASTIC BOTTLE OR JUG	pres: AMB temp: AMB	ACUTE HEALTH
3: CORROSIVES	Device Developme nt	AZ 3:2 deve () CAS#: NON	• •/	<u>name</u> sodium metasilicate water	<u>ehs</u> N N		<u>cas</u> 334-92-0 732-18-5	LIQUID (MIXTURE)	MAX AVG LC WST DAYS CUR	1 GAL 1 GAL 0 GAL	PLASTIC BOTTLE OR JUG	pres: AMB temp: AMB	ACUTE HEALTH

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Date: 9/19/ Business Na		ips Lumileds				MAP IL): Buildin	g 90 I	Lower		:: 8 of 40 lity ID#:	
DOT HAZ CLASS	Location	CHEMICAL NAME (COMMON NAME)	HAZARDOU	S COM	1PON	ENTS	PHYSICAL STATE	QUAN	NTITIES	STORAGE CONTAINERS	STORAGE CODES	SARA CATEGORIES
3: FLAMMABLE AND COMBUSTIBLE LIQUIDS	Device Developme nt	AZ EBR 70/30 () CAS#: NONE	name 1-methoxy-2- propanol 1-methoxy-2- propanol acetate	<u>ehs</u> N N	<u>%</u> 70 30	<u>cas</u> 107-98-2 108-65-6	LIQUID (MIXTURE)	MAX AVG LC WST DAYS CUR	1 GAL 1 GAL 5 GAL 0 GAL 365 N/A	CAN	pres: AMB temp: AMB	FIRE, ACUTE HEALTH, CHRONIC HEALTH
5.1: OXIDIZING SUBSTANCES	Device Developme nt	C-35 Gold Etch (C-35 Gold Etch 8:1) CAS#: NONE	name iodine potassium iodide	<u>ehs</u> N N		<u>cas</u> 7553-56-2 7681-11-0	SOLID (MIXTURE)	MAX AVG LC WST DAYS CUR	1 LBS 1 LBS 0.22 LBS 0 LBS 365 N/A	PLASTIC BOTTLE OR JUG	pres: AMB temp: AMB	REACTIVE, ACUTE HEALTH
3: FLAMMABLE AND COMBUSTIBLE LIQUIDS	Device Developme nt	EBR 2 () CAS#: NONE	<u>name</u> cyclohexanone	<u>ehs</u> N	<u>%</u> 100	<u>cas</u> 108-94-1	LIQUID (MIXTURE)	MAX AVG LC WST DAYS CUR	1 GAL 1 GAL 5 GAL 0 GAL 365 N/A	CAN	pres: AMB temp: AMB	FIRE, ACUTE HEALTH, CHRONIC HEALTH
8: CORROSIVES	Device Developme nt	EKC 265 Photoresist Stripper () CAS#: NONE	name 2-(2- aminoethoxy) ethanol catechol hydroxylamine	<u>ehs</u> N N	<u>%</u> 100	<u>cas</u> 929-06-6 120-80-9 7803-49-8	LIQUID (MIXTURE)	MAX AVG LC WST DAYS CUR	10 GAL 10 GAL 1 GAL N/A 365 N/A	PLASTIC BOTTLE OR JUG	pres: AMB temp: AMB	FIRE, PRESSURE RELEASE
B: CORROSIVES	Device Developme nt	Hydrofluoric Acid 49% () CAS#: 7664-39-3	<u>hame</u> hydrofluoric acid water	<u>ehs</u> Y N		<u>cas</u> 7664-39-3 7732-18-5	LIQUID (MIXTURE)	MAX AVG LC WST DAYS CUR	13 GAL 13 GAL 1 GAL 0 GAL 365 N/A	PLASTIC BOTTLE OR JUG	pres: AMB temp: AMB	ACUTE HEALTH, CHRONIC HEALTH

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Date: 9/19/2 Business Na		ips Lumi	leds			1	MAP ID	: Buildin	g 90 L	.ower	_	: 9 of 40 lity ID#:	e ta se
DOT HAZ CLASS	Location	CHEMICAL (COMMON I		HAZARDOUS	S COM	PONE	ENTS	PHYSICAL STATE	QUAN	TITIES	STORAGE CONTAINERS	STORAGE CODES	SARA CATEGORIES
5.1: OXIDIZING SUBSTANCES	Device Developme nt	Hydrogen Per 30% (HYDROGEN PEROXIDE 3 CAS#: 7722-8	0%)	name hydrogen peroxide water	<u>ehs</u> Y N		<u>cas</u> 7722-84-1 7732-18-5	Liquid (Mixture)	MAX AVG LC WST DAYS CUR	9 GAL 9 GAL 1 GAL 0 GAL 365 N/A	PLASTIC BOTTLE OR JUG	pres: AMB temp: AMB	FIRE, ACUTE HEALTH
3: Flammable and Combustible Liquids	Device Developme nt	Isopropyl Alco () CAS#: 67-63-	•	<u>nanne</u> isopropyl alcohol	<u>ehs</u> N	<u>%</u> .100	<u>cas</u> 67-63-0	LIQUID (PURE)	AVG LC WST	28 GAL 28 GAL 1 GAL 0 GAL 365 N/A	PLASTIC BOTTLE OR JUG	pres: AMB temp: AMB	FIRE
3: FLAMMABLE AND COMBUSTIBLE LIQUIDS	Device Developme nt	Methanol (METHANOL CAS#: 67-56-		<u>name</u> methanol	<u>ehs</u> N	<u>%</u> 100	<u>cas</u> 67-56-1	LIQUID (PURE)	AVG LC WST	1 GAL 1 GAL 1 GAL 0 GAL 365 N/A	PLASTIC BOTTLE OR JUG	pres: AMB temp: AMB	FIRE, ACUTE HEALTH
8: CORROSIVES	Device Developme nt	Nickel Vanad () CAS#: NONE		<u>name</u> nitric acid sulfuric acid acetic acid water	<u>ehs</u> N N N	17 17	<u>cas</u> 7697-37-2 7664-93-9 64-19-7 7732-18-5	Liquid (Mixture)	MAX AVG LC WST DAYS CUR	3 GAL 3 GAL 1 GAL 0 GAL 365 N/A	PLASTIC BOTTLE OR JUG	pres: AMB temp: AMB	ACUTE HEALTH
8: CORROSIVES	Device Developme nt	Nophenol EK () CAS#: NONE		name dodecyl benzene sulfonic acid heavy aromatic solvent naptha catechol naphthalene	<u>ehs</u> N N N	NA 6 NA	<u>cas</u> 27176-87-0 4742-94-5 120-80-9 91-20-3	Liquid (Mixture)	MAX AVG LC WST DAYS CUR	15 GAL 15 GAL 1 GAL 0 GAL 365 N/A	PLASTIC BOTTLE OR JUG	pres: AMB temp: AMB	FIRE, ACUTE HEALTH

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Date: 9/19/ Business Na		ips Lumileds				MAP IL): Buildin	g 90 l	Lower		: 10 of 40 ity ID#:	
DOT HAZ CLASS	Location	CHEMICAL NAME (COMMON NAME)	HAZARDOU	5 СОМ	(PON	ENTS	PHYSICAL STATE	QUAN	NTITIES	STORAGE CONTAINERS	STORAGE CODES	SARA CATEGORIES
3: Flammable and Combustible Liquids	Device Developme nt	NR7 6000P () CAS#: NONE	name cyclohexanone resins sensitizers	<u>ehs</u> N	<u>%</u> NA NA	<u>cas</u> 108-94-1	LIQUID (MIXTURE)	MAX AVG LC WST DAYS CUR	1 GAL 1 GAL 1 GAL 0 GAL 365 N/A	GLASS BOTTLE OR JUG	pres: AMB temp: AMB	FIRE, ACUTE HEALTH, CHRONIC HEALTH
B: CORROSIVES	Device Developme nt	Potassium Hydroxide Pellets () CAS#: 1310-58-3	<u>name</u> potassium hydroxide pellets	<u>ehs</u> N	<u>%</u> 100	<u>cas</u> 1310-58-3	SOLID (PURE)	MAX AVG LC WST DAYS CUR	10 LBS 10 LBS 5 LBS 0 LBS 365 N/A	PLASTIC BOTTLE OR JUG	pres: AMB temp: AMB	REACTIVE, ACUTE HEALTH
NONE	Device Developme nt	PRS 3000 () CAS#: NONE	name 1-methyl-2- pyrrolidinone thiophene, tetrahydro-, 1,1- dioxide monoisopropanol amine	<u>ehs</u> N N	<u>%</u> 50 40 10	<u>cas</u> 872-50-4 126-33-0 78-96-6	LIQUID (MIXTURE)	MAX AVG LC WST DAYS CUR	4 GAL 4 GAL 1 GAL 0 GAL 365 N/A	PLASTIC BOTTLE OR JUG	pres: AMB temp: AMB	FIRE, ACUTE HEALTH, CHRONIC HEALTH
9: MISC HAZARDOUS MATERIAL	Device Developme nt	Resist Developer RD6 () CAS#: NONE	name tetramethylammo nium hydroxide water	<u>eħs</u> N N	<u>%</u> 3 97	<u>cas</u> 75-59-2 7732-18-5	LIQUID (MIXTURE)	MAX AVG LC WST DAYS CUR	3 GAL 3 GAL 1 GAL 0 GAL 365 N/A	PLASTIC BOTTLE OR JUG	pres: AMB temp: AMB	ACUTE HEALTH
B: CORROSIVES	Device Developme nt	Resist Remover RR5 () CAS#: NONE	<u>mame</u> dimethyl gluterate dimethyl adipate dimethyl succinate	<u>ehs</u> N - n - N -	<u>%</u>	<u>cas</u> -1119-40-0 -627-93-0 -106-65-0	LIQUID (MIXTURE)	MAX AVG LC WST DAYS CUR	1 GAL 1 GAL 1 GAL 0 GAL 395 N/A	CAN	pres: AMB temp: AMB	CHRONIC HEALTH

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Date: 9/19 /2 Business Na	-	ips Lum	ileds			MAP ID	: Buildin	g 90 I	Lower	-	11 of 40 ity ID#:	
DOT HAZ CLASS	Location	CHEMICA (COMMON	ł	HAZARDOUS	COMP	ONENTS	PHYSICAL STATE	QUAN	TITIES	STORAGE CONTAINERS	STORAGE CODES	SARA CATEGORIES
2.1: ELAMMABLE GASES	Device Developme nt	Silane 25% Helium () CAS#: NON		silane	N 2	<u>6 cas</u> 5 7803-62-5 75 7440-59-7	GAS (MIXTURE)	MAX AVG LC WST DAYS CUR	302 CUFT 302 CUFT 302 CUFT 0 CUFT 365 N/A	CYLINDER	pres: > AMB temp: AMB	FIRE, PRESSURE RELEASE, ACUTE HEALTH
: CORROSIVES	Device Developme nt	Sodium Hyd () CAS#: 1310		sodium hydroxide	N 3	<u>% cas</u> 80 1310-73-2 70 7732-18-5	LIQUID (PURE)	MAX AVG LC WST DAYS CUR	2 GAL 2 GAL 1 GAL 0 GAL 365 N/A	PLASTIC BOTTLE OR JUG	pres: AMB temp: AMB	REACTIVE, ACUTE HEALTH
: CORROSIVES	Device Developme nt	Sulfuric Acia (SULFURIC 81%) CAS#: 7664	ACID	<u>name</u> sulfuric acid 81% water	N 8	<u>6 cas</u> 31 7664-93-9 19 7732-18-5	Liquid (pure)	MAX AVG LC WST DAYS CUR		GLASS BOTTLE OR JUG	pres: AMB temp: AMB	REACTIVE, ACUTE HEALTH, CHRONIC HEALTH
3: CORROSIVES	Device Developme nt	Sulfuric Acia () CAS#: 7664		<u>mame</u> sulfuric acid water	Y 9	<u>% cas</u> 96 7664-93-9 4 7732-18-5	LIQUID (PURE)	MAX AVG LC WST DAYS CUR	2 GAL 2 GAL 1 GAL 0 GAL 365 N/A	PLASTIC BOTTLE OR JUG	pres: AMB temp: AMB	REACTIVE, ACUTE HEALTH
: Flammable ND Combustible Iquids	Device Developme nt	WNRD Neg Resist Developer,\ () CAS#: 6474	BFAIII.	<u>name</u> isoparaffinic hydrocarbon		<u>% cas</u> 00 64742-48-9	LIQUID (MIXTURE)	MAX AVG LC WST DAYS CUR	1 GAL 1 GAL 1 GAL 0 GAL 365 N/A	PLASTIC BOTTLE OR JUG	pres: AMB temp: AMB	FIRE, CHRONIC HEALTH

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Date: 9/19/		ine Lumile de				14 4 D TT	Buildin	~ 00		-	2: 12 of 40	
Business Na	ime: Phil	ips Lumileds				MAP IL): Buildin	g 90 I	Lower	Faci	lity ID#:	
DOT HAZ CLASS	Location	CHEMICAL NAME (COMMON NAME)	HAZARDOU	S CON	1PON	ENTS	PHYSICAL STATE	QUAI	VTITIES	. STORAGE CONTAINERS	STORAGE CODES	SARA CATEGORIES
8: Flammable and Combustible Iquids	Environmen tal Lab	Acetone (ACETONE) CAS#: 67-64-1	name acetone	<u>ehs</u> N	<u>%</u> 100	<u>cas</u> 67-64-1	Liquid (pure)	AVG LC	2 GAL 1 GAL 1 GAL 0 GAL 365 N/A	PLASTIC BOTTLE OR JUG	pres: AMB temp: AMB	FIRE
NONE	Environmen tal Lab	Analysis Standards () CAS#: NONE	<u>name</u> water various metals	<u>ehs</u> N N	<u>%</u> 99 1	<u>cas</u> 7732-18-5	LIQUID (MIXTURE)	MAX AVG LC WST DAYS CUR	30 GAL 20 GAL 5 GAL 0 GAL 365 N/A	PLASTIC BOTTLE OR JUG	pres: AMB temp: AMB	NONE
2.2: NONFLAMMABL E GASES	Environmen tal Lab	Argon (ARGON) CAS#: 7440-37-1	<u>name</u> argon	<u>ehs</u> N	<u>%</u> 100	<u>cas</u> 7440-37-1	LIQUID (PURE)	MAX AVG LC WST DAYS CUR	4986 CUFT 4986 CUFT 0 CUFT	CYLINDER	pres: > AMB temp: CRYO	PRESSURE RELEASE
2.2: NONFLAMMABL E GASES	Environmen tal Lab	Carbon Dioxide () CAS#: 124-38-9	name carbon dioxide	<u>ehs</u> N	<u>%</u> 100	<u>cas</u> 124-38-9	GAS (PURE)	MAX AVG LC WST DAYS CUR	341 CUFT 341 CUFT 341 CUFT 0 CUFT 365 N/A	CYLINDER	pres: > AMB temp: AMB	PRESSURE RELEASE
: CORROSIVES	Environmen tal Lab	Hydrochloric Acid 38% (HYDROCHLORIC ACID 38%) CAS#: 7647-01-0	<u>name</u> hydrochloric acid water	<u>ehs</u> I N N		<u>cas</u> 7647-01-0 7732-18-5	LIQUID (PURE)	MAX AVG LC WST DAYS CUR	1 GAL 1 GAL 1 GAL 0 GAL 365 N/A	PLASTIC BOTTLE OR JUG	pres: AMB temp: AMB	ACUTE HEALTH

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Date: 9/19/ Business Na		ips Lumileds	•		MAP ID	: Buildin	g 90 Lower	•	: 13 of 40 lity ID#:	
DOT HAZ CLASS	Location	CHEMICAL NAME (COMMON NAME)	HAZARDOU	S COM	PONENTS	PHYSICAL STATE	QUANTITIES	STORAGE CONTAINERS	STORAGE CODES	SARA CATEGORIES
D: FLAMMABLE NND COMBUSTIBLE IQUIDS	Environmen tal Lab	Isopropyl Alcohol (ISOPROPYL ALCOHOL) CAS#: 67-63-0	<u>name</u> isopropyl alcohol	<u>ehs</u> N	<u>% cas</u> 100 67-63-0	Liquid (pure)	MAX 2 GAL AVG 1 GAL LC 1 GAL WST 0 GAL DAYS 365 CUR N/A	PLASTIC BOTTLE OR JUG	pres: AMB tamp: AMB	FIRE
: CORROSIVES	Environmen tal Lab	Nitric Acid 70% (NITRIC ACID 70%) CAS#: 7697-37-2	<u>name</u> nitric acid water	<u>ehs</u> Y N	% cas 70 7697-37-2 30 7732-18-5	LIQUID (MIXTURE)	MAX 2 GAL AVG 1 GAL LC 1 GAL WST 0 GAL DAYS 365 CUR N/A	GLASS BOTTLE OR JUG	pres: AMB temp: AMB	FIRE, ACUTE HEALTH
.2: IONFLAMMABL E GASES	F1 Chase	Argon () CAS#: 7440-37-1	<u>name</u> argon	<u>ehs</u> N	<u>% cas</u> 100 7440-37-1	GAS (PURE)	MAX 280 CUFT AVG 280 CUFT LC 280 CUFT WST 0 CUFT DAYS 365 CUR N/A	CYLINDER	pres: > AMB temp: AMB	PRESSURE RELEASE
2.2: Nonflammabl E gases	F1 Chase	Helium () CAS#: 7440-59-7	<u>name</u> helium	<u>elts</u> N	<u>% cas</u> 100 7440-59-7	GAS (PURE)	MAX 244 CUFT AVG 244 CUFT LC 244 CUFT WST 0 CUFT DAYS 365 CUR N/A	CYLINDER	pres: > AMB temp: AMB	PRESSURE RELEASE
.2: IONFLAMMABL GASES	F1 Chase	Oxygen () CAS#: 7782-44-7	<u>name</u> oxygen	<u>ehs</u> N	<u>% cas</u> 100 7782-44-7	GAS (PURE)	MAX 29 CUFT AVG 249 CUFT LC 249 CUFT WST 0 CUFT DAYS 365 CUR N/A	CYLINDER	pres: > AMB temp: AMB	PRESSURE RÉLEASE

Date: 9/19/2011Business Name: AVAGO TECHNOLOGIESMAP ID: Building 90 Lower										Page: 14 of 40 Facility ID#:		
DOT HAZ CLASS	Location	CHEMICAL NAME (COMMON NAME)	HAZARDOU	S COM	PON	VENTS	PHYSICAL STATE	QUANT	ITIES	STORAGE CONTAINERS	STORAGE CODES	SARA CATEGORIES
8: CORROSIVES	FOPD Test Lab	Acetic Acid () CAS#: 64-19-7	<u>name</u> acetic acid water	<u>ehs</u> N N	<u>%</u> 90 10	<u>cas</u> 64-19-7 7732-18-5	LIQUID (PURE)	LC 1 WST 0 DAYS 3	GAL GAL GAL	GLASS BOTTLE OR JUG	pres: AMB temp: AMB	FIRE, ACUTE HÉALTH
3: FLAMMABLE AND COMBUSTIBLE LIQUIDS	FOPD Test Lab	Acetone () CAS#: 67-64-1	- <u>hame</u> acetone	<u>ehs</u> N	<u>%</u> 100	<u>cas</u> 67-64-1	LIQUID (PURE)	LC 1 WST 0 DAYS 3	GAL GAL GAL GAL 65 I/A	PLASTIC BOTTLE OR JUG	pres: AMB temp: AMB	FIRE
NONE	FOPD Test Lab	Alconox Cleanser () CAS#: NONE	name sodium dodecyclbenzene sofibrite carbonate tetrasodium pyrophosphate sodium phosphate	<u>ehs</u> N N N	13 30	<u>cas</u> 25155-30-0 497-19-8 7722-88-5 7758-29-4	SOLID (MIXTURE)	AVG 4 LC 4 WST 0 DAYS 3	LBS LBS LBS LBS 65 I/A	PLASTIC BOTTLE OR JUG	pres: AMB temp: AMB	NONE
8: CORROSIVES	FOPD Test Lab	Ammonium Hydroxide 30% () CAS#: 1336-21-6	<u>name</u> ammonium hydroxide water	<u>ehs</u> N N		<u>cas</u> 1336-21-6 7732-18-5	Liquid (Mixture)	AVG 1 LC 1 WST 0 DAYS 3	GAL GAL GAL GAL 65 /A	PLASTIC BOTTLE OR JUG	pres: AMB temp: AMB	ACUTE HEALTH
3: FLAMMABLE AND COMBUSTIBLE JQUIDS	FOPD Test Lab	AP3000 Adhesion Promoter () CAS#: NONE	<u>name</u> propylene glycol monomethyl अक्ष ंज	<u>elis</u> N N	<u>%</u> 98 2	<u>cas</u> 107-98-2 7732-18-5	LIQUID (MIXTURE)	<i>AVG</i> 1 <i>LC</i> 1 <i>WST</i> 0	LIT LIT LIT LIT 65 /A	PLASTIC BOTTLE OR JUG	pres: AMB temp: AMB	FIRE

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| Date: 9/19/2011<br>Business Name: AVAGO TEC   |                  |                               | HNOL | OGIES                                                                                                      |      | MAP ID: Building 90 Lower                                    |                     |                                        |                                                | Page<br>Facil            |                           |                                             |
|-----------------------------------------------|------------------|-------------------------------|------|------------------------------------------------------------------------------------------------------------|------|--------------------------------------------------------------|---------------------|----------------------------------------|------------------------------------------------|--------------------------|---------------------------|---------------------------------------------|
| DOT<br>HAZ CLASS                              | Location         | CHEMICA<br>(COMMON            |      | HAZARDOUS                                                                                                  | COMP | ONENTS                                                       | PHYSICAL<br>STATE   | QUAN                                   | TITIES                                         | STORAGE<br>CONTAINERS    | STORAGE<br>CODES          | SARA<br>CATEGORIES                          |
| 3: Flammable<br>and<br>Combustible<br>Liquids | FOPD Test<br>Lab | AZ 1512 Ph<br>()<br>CAS#: NON |      | name<br>1-methoxy-2-<br>propanol acetate<br>cresol novolak<br>resin<br>diazonaphtoquin<br>esulfonic esters | N 7  | <u>% cas</u><br>75 108-65-6<br>20 117520-84-(<br>5 5610-94-6 | Liquid<br>(Pure)    | AVG<br>LC                              | 1 GAL<br>1 GAL<br>1 GAL<br>0 GAL<br>365<br>N/A | PLASTIC<br>BOTTLE OR JUG | pres: AMB<br>temp: < AMB  | FIRE, ACUTE<br>HEALTH,<br>CHRONIC<br>HEALTH |
| 3: CORROSIVES                                 | FOPD Test<br>Lab | AZ 351 Dev<br>()<br>CAS#: NON |      | <u>name</u><br>sodium hydroxide                                                                            |      | <u>% cas</u><br>≈1 1310-73-2                                 | LIQUID<br>(MIXTURE) | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 1 GAL<br>1 GAL<br>1 GAL<br>0 GAL<br>365<br>N/A | PLASTIC<br>BOTTLE OR JUG | pres: AMB<br>temp: AMB    | ACUTE<br>HEALTH                             |
| : Flammable<br>Ind<br>Combustible<br>Iquids   | FOPD Test<br>Lab | AZ 5214E F<br>()<br>CAS#: NON |      | name<br>1-methoxy-2-<br>propanol acetate<br>cresol novolak<br>resin                                        | N    | <u>% cas</u><br>71 108-65-6<br>29 117520-84-(                | LIQUID<br>(MIXTURE) | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 1 GAL<br>1 GAL<br>1 GAL<br>0 GAL<br>365<br>N/A | PLASTIC<br>BOTTLE OR JUG | pres: AMB<br>'temp: < AMB | FIRE, ACUTE<br>HEALTH,<br>CHRONIC<br>HEALTH |
| B: Flammable<br>and<br>combustible<br>iquids  | FOPD Test<br>Lab | AZ 9260 Ph<br>()<br>CAS#: NON |      | name<br>1-methoxy-2-<br>propanol acetate<br>cresol novolak<br>resin<br>diazonaphtoquin<br>esulfonic esters | N I  | <u>% cas</u><br>62 108-65-6<br>35 117520-84-(<br>5 5610-94-6 | LIQUID<br>(PURE)    | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 1 GAL<br>1 GAL<br>1 GAL<br>0 GAL<br>365<br>N/A | PLASTIC<br>BOTTLE OR JUG | pres: AMB<br>temp: < AMB  | FIRE, ACUTE<br>HEALTH,<br>CHRONIC<br>HEALTH |
| : Flammable<br>and<br>Combustible<br>Iquids   | FOPD Test<br>Lab | AZ P4330-F<br>()<br>CAS#: NON |      | name<br>1-methoxy-2-<br>propanol acetate<br>cresol novolak<br>resin<br>diazonaphtoquin<br>esulfonic esters | N    | <u>% cas</u><br>67 108-65-6<br>29 117520-84-(<br>4 5610-94-6 | LIQUID<br>(PURE)    | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 1 GAL<br>1 GAL<br>1 GAL<br>0 GAL<br>365<br>N/A | PLASTIC<br>BOTTLE OR JUG | pres: AMB<br>temp: < AMB  | FIRE, ACUTE<br>HEALTH,<br>CHRONIC<br>HEALTH |

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| Date: 9/19<br>Business No                     |                  | GO TECHNOL                                    |                                                                                                            | MAP ID               | : Buildin                                                           | ng 90 L             | .ower                    | Page<br>Facil                                                  |                          |                          |                                             |
|-----------------------------------------------|------------------|-----------------------------------------------|------------------------------------------------------------------------------------------------------------|----------------------|---------------------------------------------------------------------|---------------------|--------------------------|----------------------------------------------------------------|--------------------------|--------------------------|---------------------------------------------|
| DOT<br>HAZ CLASS                              | Location .       | CHEMICAL NAME<br>(COMMON NAME)                | HAZARDOU                                                                                                   | S COM                | <b>IPONENTS</b>                                                     | PHYSICAL<br>STATE   | QUAN                     | TITIES                                                         | STORAGE<br>CONTAINERS    | STORAGE<br>CODES         | SARA<br>CATEGORIES                          |
| 3: FLAMMABLE<br>AND<br>COMBUSTIBLE<br>LIQUIDS | FOPD Test<br>Lab | AZ P4620 Photoresist<br>()<br>CAS#: NONE      | name<br>1-methoxy-2-<br>propanol acetate<br>cresol novolak<br>resin<br>diazonaphtoquin<br>esulfonic esters | Ν                    | <u>%</u> <u>cas</u><br>62 108-65-6<br>35 117520-84-(<br>5 5610-94-6 | Liquid<br>(Mixture) | DAYS                     | 1 GAL<br>1 GAL<br>1 GAL<br>0 GAL<br>365<br>N/A                 | PLASTIC<br>BOTTLE OR JUG | pres: AMB<br>temp: < AMB | FIRE, ACUTE<br>HEALTH,<br>CHRONIC<br>HEALTH |
| D: MISC<br>HAZARDOUS<br>MATERIAL              | FOPD Test<br>Lab | BCB Cyclotene 4022-<br>35<br>()<br>CAS#: NONE | <u>name</u><br>1,3,5 -<br>trimethylbenzene<br>divinylsiloxiane-<br>bis-<br>benzocyclobuten<br>e            | <u>ehs</u><br>N<br>N | <u>% cas</u><br>73 108-67-8<br>39 124221-30-{                       | LIQUID<br>(MIXTURE) | LC<br>WST<br>DAYS        | 1 LIT<br>1 LIT<br>1 LIT<br>0 LIT<br>365<br>N/A                 | PLASTIC<br>BOTTLE OR JUG | pres: AMB<br>temp: AMB   | CHRONIC<br>HEALTH                           |
| : MISC<br>IAZARDOUS<br>IATERIAL               | FOPD Test<br>Lab | BCB Cyclotene 4024-<br>40<br>()<br>CAS#: NONE | <u>name</u><br>1,3,5 -<br>trimethylbenzene<br>divinylsiloxiane-<br>bis-<br>benzocyclobuten<br>e            | <u>ehs</u><br>N<br>N | <u>%</u> <u>cas</u><br>73 108-67-8<br>39 124221-30-3                | LIQUID<br>(MIXTURE) | AVG<br>LC<br>WST<br>DAYS | 1 LIT<br>1 LIT<br>1 LIT<br>0 LIT<br>365<br>N/A                 | PLASTIC<br>BOTTLE OR JUG | pres: AMB<br>temp: AMB   | CHRONIC<br>HEALTH                           |
| 2.3: TOXIC<br>GASES                           | FOPD Test<br>Lab | Boron Trichloride<br>()<br>CAS#: 10294-34-5   | <u>name</u><br>boron trichloride                                                                           | <u>ehs</u><br>N      | <u>% cas</u><br>100 10294-34-5                                      | GAS<br>(PURE)       | AVG<br>LC<br>WST<br>DAYS | 0.081 CUFT<br>0.081 CUFT<br>0.081 CUFT<br>0 CUFT<br>365<br>N/A | CYLINDER                 | pres: > AMB<br>temp: AMB | PRESSURE<br>RELEASE,<br>ACUTE<br>HEALTH     |
|                                               |                  |                                               |                                                                                                            |                      |                                                                     |                     |                          |                                                                |                          |                          |                                             |

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| Date: 9/19/<br>Business Na                    |                  | GO TECHNOL                                                                | OGIES                                                                     |                       |                     | MAP ID                               | : Buildin           | g 90 l                                 | .ower                                          | Page.<br>Facil           |     | 8 of 40<br>[D#:    | -                                     |
|-----------------------------------------------|------------------|---------------------------------------------------------------------------|---------------------------------------------------------------------------|-----------------------|---------------------|--------------------------------------|---------------------|----------------------------------------|------------------------------------------------|--------------------------|-----|--------------------|---------------------------------------|
| DOT<br>HAZ CLASS                              | Location         | CHEMICAL NAME<br>(COMMON NAME)                                            | HAZARDOUS                                                                 | 5 СОМ                 | PON                 | IENTS                                | PHYSICAL<br>STATE   | QUAN                                   | TITIES                                         | STORAGE<br>CONTAINERS    | S   | TORAGE<br>CODES    | SARA<br>CATEGORIES                    |
| 3: FLAMMABLE<br>AND<br>COMBUSTIBLE<br>LIQUIDS | FOPD Test<br>Lab | DS2100 Immersion<br>Developer<br>()<br>CAS#: NONE                         | <u>name</u><br>1,3,5-tris<br>benzene<br>1,2,4-<br>triisopropylbenze<br>ne | <u>ehs</u><br>N<br>N  | <u>%</u><br>95<br>4 | <u>cas</u><br>717-74-8<br>948-32-3   | Liquid<br>(Mixture) | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 4 LIT<br>4 LIT<br>1 LIT<br>0 LIT<br>365<br>N/A | PLASTIC<br>BOTTLE OR JUG |     | es: AMB<br>np: AMB | FIRE                                  |
| 3: FLAMMABLE<br>AND<br>COMBUSTIBLE<br>LIQUIDS | FOPD Test<br>Lab | DS3000 Immersion<br>Developer<br>()<br>CAS#: NONE                         | <u>name</u><br>1,3,5-tris<br>benzene<br>1,2,4-<br>trisopropylbenze<br>ne  | <u>ehs</u><br>N<br>N  | <u>%</u><br>95<br>4 | <u>cas</u><br>717-74-8<br>948-32-3   | LIQUID<br>(MIXTURE) | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 4 LIT<br>4 LIT<br>1 LIT<br>0 LIT<br>365<br>N/A | PLASTIC<br>BOTTLE OR JUG | - 1 | es: AMB<br>np: AMB | FIRE                                  |
| 8: CORROSIVES                                 | FOPD Test<br>Lab | Hydrochloric acid 38%<br>()<br>CAS#: 7647-01-0                            | <u>name</u><br>hydrochloric acid<br>water                                 | <u>elıs</u><br>N<br>N |                     | <u>cas</u><br>7647-01-0<br>7732-18-5 | LIQUID<br>(PURE)    | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 1 GAL<br>1 GAL<br>1 GAL<br>0 GAL<br>365<br>N/A | PLASTIC<br>BOTTLE OR JUG | 1   | es: AMB<br>mp: AMB | ACUTE<br>HEALTH                       |
| 8: CORROSIVES                                 | FOPD Test<br>Lab | Hydrofluoric Acid 49%<br>()<br>CAS#: 7664-39-3                            | <u>name</u><br>hydrofluoric acid<br>water                                 | <u>ehs</u><br>Y<br>N  |                     | <u>cas</u><br>7664-39-3<br>7732-18-5 | LIQUID<br>(MIXTURE) | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 1 GAL<br>1 GAL<br>1 GAL<br>0 GAL<br>365<br>N/A | PLASTIC<br>BOTTLE OR JUG | 1   | es: AMB<br>mp: AMB | ACUTE<br>HEALTH,<br>CHRONIC<br>HEALTH |
| 5.1: OXIDIZING<br>SUBSTANCES                  | FOPD Test<br>Lab | Hydrogen Peroxide<br>30%<br>(HYDROGEN<br>PEROXIDE 30%)<br>CAS#: 7722-84-1 | <u>hame</u><br>hydrogen<br>peroxide<br>water                              | <u>ehs</u><br>Y<br>N  |                     | <u>cas</u><br>7722-84-1<br>7732-18-5 | LIQUID<br>(MIXTURE) | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 1 GAL<br>1 GAL<br>1 GAL<br>0 GAL<br>365<br>N/A | PLASTIC<br>BOTTLE OR JUG | •   | es: AMB<br>mp: AMB | FIRE, ACUTE<br>HEALTH                 |

| Business Na                  | ume: AVA         | GO TECHNOL                                                   | UGIES                                                             |                            | MAP ID                                                                      | : Buildin           | g 90 l                                 | ower                                                           | Faci                     | lity ID#:                 |                                                             |
|------------------------------|------------------|--------------------------------------------------------------|-------------------------------------------------------------------|----------------------------|-----------------------------------------------------------------------------|---------------------|----------------------------------------|----------------------------------------------------------------|--------------------------|---------------------------|-------------------------------------------------------------|
| DOT<br>HAZ CLASS             | Location         | CHEMICAL NAME<br>(COMMON NAME)                               | HAZARDOUS                                                         | <b>S CO</b> I              | MPONENTS                                                                    | PHYSICAL<br>STATE   | QUAN                                   | TITIES                                                         | STORAGE<br>CONTAINERS    | STORAGE<br>CODES          | SARA<br>CATEGORIES                                          |
| 8: CORROSIVES                | FOPD Test<br>Lab | Buffered Oxide Etch<br>6:1<br>(BOE Etch 6:1)<br>CAS#: NONE   | <u>name</u><br>ammonium<br>fluoride<br>hydrogen fluoride<br>water | <u>eṫis</u><br>N<br>Y<br>N | <u>%</u> <u>cas</u><br>30-5012124-01-8<br>0.5-107664-39-3<br>40-707732-18-5 | Liquid<br>(Mixture) | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 1 GAL<br>1 GAL<br>1 GAL<br>0 GAL<br>365<br>N/A                 | PLASTIC<br>BOTTLE OR JUG | pres: AMB<br>temp: AMB    | REACTIVE,<br>ACUTE<br>HEALTH,<br>CHRONIC<br>HEALTH          |
| 5.1: OXIDIZING<br>SUBSTANCES | FOPD Test<br>Lab | Ceric Ammonium<br>Nitrate<br>()<br>CAS#: 16774-21-3          | <u>name</u><br>ceric ammonium<br>nitrate                          | <u>ehs</u><br>N            | <u>% cas</u><br>100 16774-21-3                                              | SOLID<br>(MIXTURE)  | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 500 GR<br>500 GR<br>500 GR<br>0 GR<br>365<br>N/A               | PLASTIC<br>BOTTLE OR JUG | pres: AMB<br>temp: AMB    | FIRE, ACUTE<br>HEALTH,<br>CHRONIC<br>HEALTH                 |
| 2.3: TOXIC<br>GASES          | FOPD Test<br>Lab | Chlorine 100%<br>()<br>CAS#: 7782-50-5                       | name<br>chlorine 100%                                             | <u>ehs</u><br>Y            | <u>% cas</u><br>100 7782-50-5                                               | GAS<br>(PURE)       | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 0.081 CUFT<br>0.081 CUFT<br>0.081 CUFT<br>0 CUFT<br>365<br>N/A |                          | pres: > AMB<br>temp: AMB  | FIRE,<br>PRESSURE<br>RELEASE,<br>ACUTE<br>HEALTH            |
| 5.1: OXIDIZING<br>SUBSTANCES | FOPD Test<br>Lab | Chromium Trioxide<br>flakes<br>()<br>CAS#: 1333-82-0         | name<br>chromium<br>trìoxide flakes                               | <u>ehs</u><br>N            | <u>% cas</u><br>100 1333-82-0                                               | SOLID<br>(PURE)     | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 500 GR<br>500 GR<br>500 GR<br>0 GR<br>365<br>N/A               | GLASS BOTTLE<br>OR JUG   | pres: AMB<br>temp: AMB    | FIRE,<br>REACTIVE,<br>ACUTE<br>HEALTH,<br>CHRONIC<br>HEALTH |
| NONE                         | FOPD Test<br>Lab | Citric Acid<br>Monohydrate Granular<br>()<br>CAS#: 5949-29-1 | <u>name</u><br>citric acid<br>monohydrate<br>granular             | <u>elıs</u><br>N           | <u>% cas</u><br>100 5949-29-1                                               | SOLID<br>(PURE)     | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 4.4 GR<br>4.4 GR<br>1.1 GR<br>0 GR<br>365<br>N/A               | N/A                      | pres: > AMB<br>temp: CRYO | NONE                                                        |

| Date: 9/19/.<br>Business Na                   |                  | GO TE                                          | CHNOL   | OGIES                                          |                      |                      | MAP ID                               | : Buildin           | g 90 l                                 | Lower                                                   | -                        | : 19 of 40<br>lity ID#: | •                                           |
|-----------------------------------------------|------------------|------------------------------------------------|---------|------------------------------------------------|----------------------|----------------------|--------------------------------------|---------------------|----------------------------------------|---------------------------------------------------------|--------------------------|-------------------------|---------------------------------------------|
| DOT<br>HAZ CLASS                              | Location         | CHEMICA<br>(COMMON                             |         | HAZARDOU                                       | S COM                | PON                  | ENTS                                 | PHYSICAL<br>STATE   | QUAN                                   | TITIES                                                  | STORAGE<br>CONTAINERS    | STORAGE<br>CODES        | SARA<br>CATEGORIES                          |
| 3: FLAMMABLE<br>AND<br>COMBUSTIBLE<br>LIQUIDS | FOPD Test<br>Lab | Isopropyl Al<br>()<br>CAS#: 67-6               |         | <u>name</u><br>isopropyl alcohol               | <u>ehs</u><br>N      | <u>%</u><br>100      | <u>cas</u><br>67-63-0                | Liquid<br>(Pure)    | AVG<br>LC<br>WST                       | 1 GAL<br>1 GAL<br>1 GAL<br>0 GAL<br>365<br>N/A          | PLASTIC<br>BOTTLE OR JUG | pres: AMB<br>temp: AMB  | FIRE                                        |
| 3: FLAMMABLE<br>AND<br>COMBUSTIBLE<br>LIQUIDS | FOPD Test<br>Lab | Negative Ro<br>3000PY<br>()<br>CAS#: NON       |         | name<br>cyclohexanone<br>resins<br>sensitizers | <u>ehs</u><br>N      | <u>%</u><br>NA<br>NA | <u>cas</u><br>108-94-1               | LIQUID<br>(MIXTURE) | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 0.25 GAL<br>0.25 GAL<br>0.25 GAL<br>0 GAL<br>365<br>N/A | GLASS BOTTLE<br>OR JUG   | pres: AMB<br>temp: AMB  | FIRE, ACUTE<br>HEALTH,<br>CHRONIC<br>HEALTH |
| B: CORROSIVES                                 | FOPD Test<br>Lab | Nitric Acid 7<br>(NITRIC AC<br>CAS#: 7697      | ID 70%) | <u>name</u><br>nitric acid<br>water            | <u>ehs</u><br>Y<br>N |                      | <u>cas</u><br>7697-37-2<br>7732-18-5 | Liquid<br>(Mixture) | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 1 GAL<br>1 GAL<br>0 GAL                                 | GLASS BOTTLE<br>OR JUG   | pres: AMB<br>temp: AMB  | FIRE, ACUTE<br>HEALTH                       |
| 3: FLAMMABLE<br>AND<br>COMBUSTIBLE<br>LIQUIDS | FOPD Test<br>Lab | N-Methyl-2-<br>Pyrrolidone<br>()<br>CAS#: 872- |         | <u>n-methyl-2-</u><br>pyrrolidone              | <u>ehs</u><br>N      | <u>%</u><br>100      | <u>cas</u><br>872-50-4               | Liquid<br>(Pure)    | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 1 GAL<br>1 GAL<br>1 GAL<br>0 GAL<br>365<br>N/A          | PLASTIC<br>BOTTLE OR JUG | pres: AMB<br>temp: AMB  | FIRE, ACUTE<br>HEALTH                       |
| 8: CORROSIVES                                 | FOPD Test<br>Lab | Phosphoric<br>()<br>CAS#: 7664                 |         | <u>name</u><br>phosphoric acid<br>water        | <u>ehs</u><br>N<br>N |                      | <u>cas</u><br>7664-38-2<br>7732-18-5 | LIQUID<br>(PURE)    | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 1 GAL<br>1 GAL<br>1 GAL<br>0 GAL<br>365<br>N/A          | PLASTIC<br>BOTTLE OR JUG | pres: AMB<br>temp: AMB  | ACUTE<br>HEALTH                             |

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| Date: 9/19/<br>Business No       |                  | AGO TECHNOL                                                              | .OGIES                                              |                      |                     | MAP IL                               | ): Buildin          | g 90 l                                 | Lower                                                      | -                        | e: <b>20 of 40</b><br>lity ID#: |                                                    |
|----------------------------------|------------------|--------------------------------------------------------------------------|-----------------------------------------------------|----------------------|---------------------|--------------------------------------|---------------------|----------------------------------------|------------------------------------------------------------|--------------------------|---------------------------------|----------------------------------------------------|
| DOT<br>HAZ CLASS                 | Location         | CHEMICAL NAME<br>(COMMON NAME)                                           | HAZARDOUS                                           | сом                  | PON                 | ENTS                                 | PHYSICAL<br>STATE   | QUAI                                   | NTITIES                                                    | STORAGE<br>CONTAINERS    | STORAGE<br>CODES                | SARA<br>CATEGORIES                                 |
| 5.1: OXIDIZING<br>SUBSTANCES     | FOPD Test<br>Lab | Potassium<br>Dichromate Solution<br>()<br>CAS#: 7778-50-9                | <u>hame</u><br>potassium<br>dichromate<br>अजुरेस्का | ehs<br>N<br>N        | <u>%</u><br>100     | <u>cas</u><br>7778-50-9<br>7732-18-5 | Liquid<br>(Pure)    | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 0.275 GAL<br>0.275 GAL<br>0.275 GAL<br>0 GAL<br>365<br>N/A | PLASTIC<br>BOTTLE OR JUG | pres: AMB<br>temp: AMB          | FIRE, ACUTE<br>HEALTH,<br>CHRONIC<br>HEALTH        |
| 8: CORROSIVES                    | FOPD Test<br>Lab | Potassium Hydroxide<br>Pellet<br>()<br>CAS#: 1310-58-3                   | <u>name</u><br>potassium<br>hydroxide<br>water      | <u>ehs</u><br>N<br>N |                     | <u>cas</u><br>1310-58-3<br>7732-18-5 | UNKNOWN<br>(PURE)   | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 500 GR<br>500 GR<br>500 GR<br>0 GR<br>365<br>N/A           | PLASTIC<br>BOTTLE OR JUG | pres: AMB<br>temp: AMB          | REACTIVE,<br>ACUTE<br>HEALTH                       |
| 9: MISC<br>HAZARDOUS<br>MATERIAL | FOPD Test<br>Lab | Resist Developer RD6<br>()<br>CAS#: NONE                                 | name<br>tetramethylammo<br>nium hydroxide<br>water  | <u>ehs</u><br>N<br>N | <u>%</u><br>3<br>97 | <u>cas</u><br>75-59-2<br>7732-18-5   | LIQUID<br>(MIXTURE) | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 1 GAL<br>1 GAL<br>1 GAL<br>0 GAL<br>365<br>N/A             | PLASTIC<br>BOTTLE OR JUG | pres: AMB<br>temp: AMB          | ACUTE<br>HEALTH                                    |
| 5.1: OXIDIZING<br>SUBSTANCES     | FOPD Test<br>Lab | Silver Nitrate Crystal<br>(Silver Salt)<br>CAS#: 7761-88-8               | <u>name</u><br>silver nitrate<br>crystal            | <u>ehs</u><br>Y      | <u>%</u><br>100     | <u>cas</u><br>7761-88-8              | SOLID<br>(PURE)     | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 100 GR<br>100 GR<br>100 GR<br>0 GR<br>365<br>N/A           | PLASTIC<br>BOTTLE OR JUG | pres: AMB<br>temp: AMB          | REACTIVE,<br>ACUTE<br>HEALTH,<br>CHRONIC<br>HEALTH |
| 8: CORROSIVES                    | FOPD Test<br>Lab | Sodium Hydroxide<br>(solid)<br>(CAUSTIC SODA<br>PELS)<br>CAS#: 1310-73-2 | name<br>sodium hydroxide                            | <u>ehs</u><br>N      | <u>%</u><br>100     | <u>cas</u><br>1310-73-2              | SOLID<br>(PURE)     | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 500 Gr<br>500 Gr<br>500 Gr<br>0 Gr<br>365<br>N/A           | BAG                      | pres: AMB<br>temp: AMB          | ACUTE<br>HEALTH                                    |

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| Date: 9/19/<br>Business Na                    |                  | GO TE                                           | сниоі  | OGIES                                                            |                       | 7                    | MAP IN                               | : Buildin           | ~ 0Å I                                 | ower                                           | e e e                    | : <b>21 of 40</b><br>ity ID#: |                                                    |
|-----------------------------------------------|------------------|-------------------------------------------------|--------|------------------------------------------------------------------|-----------------------|----------------------|--------------------------------------|---------------------|----------------------------------------|------------------------------------------------|--------------------------|-------------------------------|----------------------------------------------------|
| DOT<br>HAZ CLASS                              | Location         | CHEMICA<br>(COMMO                               | L NAME | HAZARDOUS                                                        | S COMI                |                      |                                      | PHYSICAL<br>STATE   |                                        | NTITIES                                        | STORAGE<br>CONTAINERS    | STORAGE<br>CODES              | SARA<br>CATEGORIES                                 |
| : CORROSIVES                                  | FOPD Test<br>Lab | Sulfuric Aci<br>(SULFURIC<br>98%)<br>CAS#: 7664 | ACID   | <u>mame</u><br>sulfunic acid 98%<br>water                        | <u>elıs</u><br>N<br>N |                      | <u>cas</u><br>7664-93-9<br>7732-18-5 | Liquid<br>(pùre)    | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 1 GAL<br>1 GAL<br>1 GAL<br>0 GAL<br>365<br>N/A | PLASTIC<br>BOTTLE OR JUG | pres: AMB<br>temp: AMB        | REACTIVE,<br>ACUTE<br>HEALTH,<br>CHRONIC<br>HEALTH |
| B: FLAMMABLE<br>AND<br>COMBUSTIBLE<br>IQUIDS  | FOPD Test<br>Lab | T1100 Rins<br>()<br>CAS#: NON                   |        | name<br>1,3,5-<br>trimethylbenzene<br>1,2,4-<br>trimethylbenzene | N                     | <u>%</u><br>98<br>2  | <u>cas</u><br>108-67-8<br>95-63-6    | Liquid<br>(Mixture) | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 4 LIT<br>4 LIT<br>0 LIT                        | PLASTIC<br>BOTTLE OR JUG | pres: AMB<br>temp: AMB        | FIRE                                               |
| 3: Flammable<br>and<br>combustible<br>.iquids | Gas Vault        | 1-Methyl-2-<br>Pyrrolidinor<br>()<br>CAS#: 872- | -<br>- | <u>name</u><br>1-methyl-2-<br>pyrrolidinone                      | <u>ehs</u><br>N       | <u>%</u><br>100      | <u>cas</u><br>872-50-4               | Liquid<br>(Pure)    | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 3 GAL<br>3 GAL<br>1 GAL<br>0 GAL<br>365<br>N/A | PLASTIC<br>BOTTLE OR JUG | pres: AMB<br>temp: AMB        | FIRE, ACUTE<br>HEALTH                              |
| B: CORROSIVES                                 | Gas Vault        | Acetic Acid<br>()<br>CAS#: 64- <sup>-</sup>     |        | <u>name</u><br>acetic acid<br>water                              | <u>elis</u><br>N<br>N | <u>%</u><br>90<br>10 | <u>cas</u><br>64-19-7<br>7732-18-5   | LIQUID<br>(PURE)    | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 1 GAL<br>1 GAL<br>1 GAL<br>0 GAL<br>365<br>N/A | GLASS BOTTLE<br>OR JUG   | pres: AMB<br>temp: AMB        | FIRE, ACUTE<br>HEALTH                              |
| 8: Flammable<br>and<br>Combustible<br>Iquids  | Gas Vault        | Acetone<br>(ACETONE<br>CAS#: 67-6               |        | <u>name</u><br>acetone                                           | <u>ehs</u><br>N       | <u>%</u><br>100      | <u>cas</u><br>67-64-1                | Liquid<br>(pure)    | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 12 GAL<br>1 GAL<br>0 GAL                       | PLASTIC<br>BOTTLE OR JUG | pres: AMB<br>temp: AMB        | FIRE                                               |

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| Date: 9/19/<br>Business Na     |           | AGO TECHNOL                                                | .OGIES                                                            |                           |                 | MAP ID                                              | : Buildin           | g 90 l                                 | Lower                                                 | -                        | : 22 of 40<br>lity ID#:    |                                                    |
|--------------------------------|-----------|------------------------------------------------------------|-------------------------------------------------------------------|---------------------------|-----------------|-----------------------------------------------------|---------------------|----------------------------------------|-------------------------------------------------------|--------------------------|----------------------------|----------------------------------------------------|
| DOT<br>HAZ CLASS               | Location  | CHEMICAL NAME<br>(COMMON NAME)                             | HAZARDOUS                                                         | 5 CO)                     | MPON            | ENTS                                                | PHYSICAL<br>STATE   | QUAI                                   | NTITIES                                               | STORAGE<br>CONTAINERS    | STORAGE<br>CODES           | SARA<br>CATEGORIES                                 |
| 8: CORROSIVES                  | Gas Vault | Ammonium<br>Hydroxide 30%<br>()<br>CAS#: 1336-21-6         | <u>name</u><br>ammonium<br>hydroxide<br>water                     | <u>ehs</u><br>N<br>N      |                 | <u>cas</u><br>1336-21-6<br>7732-18-5                | Liquid<br>(Mixture) | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 1 GAL<br>1 GAL<br>1 GAL<br>0 GAL<br>365<br>N/A        | PLASTIC<br>BOTTLE OR JUG | pres: AMB<br>temp: AMB     | ACUTE<br>HEALTH                                    |
| 8: CORROSIVES                  | Gas Vault | AZ 351 Developer<br>()<br>CAS#: NONE                       | <u>name</u><br>sodium hydroxide                                   | <u>ehs</u><br>N           | <u>%</u><br><1  | <u>cas</u><br>1310-73-2                             | LIQUID<br>(MIXTURE) | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 4 GAL<br>4 GAL<br>1 GAL<br>0 GAL<br>365<br>N/A        | PLASTIC<br>BOTTLE OR JUG | pres: AMB<br>temp: AMB     | ACUTE<br>HEALTH                                    |
| 2.3: TOXIC<br>GASES            | Gas Vault | Boron Trichloride<br>()<br>CAS#: 10294-34-5                | <u>name</u><br>boron trichloride                                  | <u>ehs</u><br>N           | <u>%</u><br>100 | <u>cas</u><br>10294-34-5                            | GAS<br>(PURE)       | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 82 CUFT<br>82 CUFT<br>82 CUFT<br>0 CUFT<br>365<br>N/A | CYLINDER                 | pres: > AMB<br>temp: > AMB | PRESSURE<br>RELEASE,<br>ACUTE<br>HEALTH            |
| 8: CORROSIVES                  | Gas Vault | Buffered Oxide Etch<br>6:1<br>(BOE Etch 6:1)<br>CAS#: NONE | <u>name</u><br>ammonium<br>fluoride<br>hydrogen fluoride<br>water | <u>ehs</u><br>N<br>Y<br>N | 0.5-10          | <u>cas</u><br>12124-01-8<br>17664-39-3<br>7732-18-5 | LIQUID<br>(MIXTURE) | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 3 GAL<br>3 GAL<br>1 GAL<br>0 GAL<br>365<br>N/A        | PLASTIC<br>BOTTLE OR JUG | pres: AMB<br>temp: AMB     | REACTIVE,<br>ACUTE<br>HEALTH,<br>CHRONIC<br>HEALTH |
| 2.2:<br>NONFLAMMABL<br>E GASES | Gas Vault | Carbon Dioxide<br>()<br>CAS#: 124-38-9                     | name<br>carbon dioxide                                            | <u>ehs</u><br>N           | <u>%</u><br>100 | <u>cas</u><br>124-38-9                              | GAS<br>(PURE)       | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 120 LBS<br>120 LBS<br>60 LBS<br>0 LBS<br>365<br>N/A   | CYLINDER                 | pres: > AMB<br>temp: AMB   | PRESSURE<br>RELEASE                                |

| Date: 9/19/<br>Business Na                    |           | GO TECHNOL                                                   | OGIES                                        |                      | MAP II                                       | ): Buildin          | g 90 Lowe                                                              | _                       | 24 of 40<br>lity ID#:    |                                                  |
|-----------------------------------------------|-----------|--------------------------------------------------------------|----------------------------------------------|----------------------|----------------------------------------------|---------------------|------------------------------------------------------------------------|-------------------------|--------------------------|--------------------------------------------------|
| DOT<br>HAZ CLASS                              | Location  | CHEMICAL NAME<br>(COMMON NAME)                               | HAZARDOUS                                    | S COMI               | PONENTS                                      | PHYSICAL<br>STATE   | QUANTITIE                                                              | STORAGE<br>S CONTAINERS | STORAGE<br>CODES         | SARA<br>CATEGORIES                               |
| 8: CORROSIVES                                 | Gas Vault | Hydrochloric acid 38%<br>()<br>CAS#: 7647-01-0               | <u>name</u><br>hydrochloric acid<br>water    | <u>ehs</u><br>N<br>N | <u>% cas</u><br>38 7647-01-0<br>62 7732-18-5 | Liquid<br>(pure)    | MAX 3 GAL<br>AVG 3 GAL<br>LC 1 GAL<br>WST 0 GAL<br>DAYS 365<br>CUR N/A | BOTTLE OR JUG           | pres: AMB<br>temp: AMB   | ACUTE<br>HEALTH                                  |
| 8: CORROSIVES                                 | Gas Vault | Hydrofluonc Acid 49%<br>()<br>CAS#: 7664-39-3                | name<br>hydrofluoric acid<br>water           | <u>ehs</u><br>Y<br>N | <u>% cas</u><br>49 7664-39-3<br>51 7732-18-5 | LIQUID<br>(MIXTURE) | MAX 3 GAL<br>AVG 3 GAL<br>LC 1 GAL<br>WST 0 GAL<br>DAYS 365<br>CUR N/A | BOTTLE OR JUG           | pres: AMB<br>temp: AMB   | ACUTE<br>HEALTH,<br>CHRONIC<br>HEALTH            |
| 2.3: TOXIC<br>GASES                           | Gas Vault | Hydrogen Bromide<br>()<br>CAS#: 10036-10-6                   | <u>name</u><br>hydrogen<br>bromide           | <u>ehs</u><br>Y      | <u>% cas</u><br>100 10036-10-€               | GAS<br>(PURE)       | MAX 82 CL<br>AVG 82 CL<br>LC 82 CL<br>WST 0 CUF<br>DAYS 365<br>CUR N/A | T-TI<br>T-TI            | pres: > AMB<br>temp: AMB | FIRE,<br>PRESSURE<br>RELEASE,<br>ACUTE<br>HEALTH |
| 5.1: OXIDIZING<br>SUBSTANCES                  | Gas Vault | Hydrogen Peroxide<br>30%<br>()<br>CAS#: 7722-84-1            | <u>name</u><br>hydrogen<br>peroxide<br>water | <u>ehs</u><br>Y<br>N | <u>% cas</u><br>30 7722-84-1<br>70 7732-18-5 | LIQUID<br>(MIXTURE) | MAX 4 GAL<br>AVG 4 GAL<br>LC 1 GAL<br>WST 0 GAL<br>DAYS 365<br>CUR N/A | BOTTLE OR JUG           | pres: AMB<br>temp: AMB   | FIRE, ACUTE<br>HEALTH                            |
| 3: FLAMMABLE<br>AND<br>COMBUSTIBLE<br>LIQUIDS | Gas Vault | Isopropyi Alcohol<br>(ISOPROPYL<br>ALCOHOL)<br>CAS#: 67-63-0 | <u>hame</u><br>isopropyl alcohol             | <u>ehs</u><br>N      | <u>% cas</u><br>100 67-63-0                  | LIQUID<br>(PURE)    | MAX 19 GA<br>AVG 19 GA<br>LC 1 GAI<br>WST 0 GAI<br>DAYS 365<br>CUR N/A | AL BOTTLE OR JUG<br>-   | pres: AMB<br>temp: AMB   | FIRE                                             |

| Date: 9/19/<br>Business Na                    |           | ips Lumileds                                                 |                                                                           |                      | MAP I                                     | D: Buildin        | g 90 Lower                                                                                                                                                      | •                        | e: 23 of 40<br>lity ID#:  |                                                  |
|-----------------------------------------------|-----------|--------------------------------------------------------------|---------------------------------------------------------------------------|----------------------|-------------------------------------------|-------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|---------------------------|--------------------------------------------------|
| DOT<br>HAZ CLASS                              | Location  | CHEMICAL NAME<br>(COMMON NAME)                               | HAZARDOU                                                                  | S CON                |                                           | PHYSICAL<br>STATE | QUANTITIES                                                                                                                                                      | STORAGE<br>CONTAINERS    | STORAGE<br>CODES          | SARA<br>CATEGORIES                               |
| 2.3: TOXIC<br>GASES                           | Gas Vault | Chlorine 100%<br>()<br>CAS#: 7782-50-5                       | <u>name</u><br>chlorine 100%                                              | <u>ehs</u><br>Y      | <u>% cas</u><br>100 7782-50-              | GAS<br>5 (PURE)   | MAX 378 CUFT<br>AVG 378 CUFT<br>LC 378 CUFT<br>WST 0 CUFT<br>DAYS 365<br>CUR N/A                                                                                | CYLINDER                 | pres: > AMB<br>temp: AMB  | FIRE,<br>PRESSURE<br>RELEASE,<br>ACUTE<br>HEALTH |
| NONE                                          | Gas Vault | Citric Acid<br>Monohydrate Granular<br>()<br>CAS#: 5949-29-1 | name<br>citric acid<br>monohydrate<br>granular                            | <u>ehs</u><br>N      | <u>% cas</u><br>100 5949-29-              | SOLID<br>I (PURE) | MAX         1.1 LBS           AVG         1.1 LBS           LC         1.1 LBS           WST         0 LBS           DAYS         365           CUR         N/A | N/A                      | pres: > AMB<br>temp: CRYO | NONE                                             |
| 3: FLAMMABLE<br>AND<br>COMBUSTIBLE<br>LIQUIDS | Gas Vault | DS3000 Immersion<br>Developer<br>()<br>CAS#: NONE            | <u>Hame</u><br>1,3,5-tris<br>benzene<br>1,2,4-<br>triisopropylbenze<br>ne | <u>ehs</u><br>N<br>N | <u>% cas</u><br>95 717-74-8<br>4 948-32-3 |                   | MAX 1 GAL<br>AVG 1 GAL<br>LC 1 GAL<br>WST 0 GAL<br>DAYS 365<br>CUR N/A                                                                                          | PLASTIC<br>BOTTLE OR JUG | pres: AMB<br>temp: AMB    | FIRE                                             |
| NONE                                          | Gas Vault | EDTA Disodium Salt<br>()<br>CAS#: 13*-33-3                   | <u>Iname</u><br>edta disodium<br>salt                                     | <u>ehs</u><br>N      | <u>% cas</u><br>100 13*-33-3              | Solid<br>(Pure)   | MAX 4.4 LBS<br>AVG 4.4 LBS<br>LC 1.1 LBS<br>WST 0 LBS<br>DAYS 365<br>CUR N/A                                                                                    | N/A                      | pres: > AMB<br>temp: CRYO | FIRE                                             |
| 3: FLAMMABLE<br>AND<br>COMBUSTIBLE<br>IQUIDS  | Gas Vault | Ethylene Glycol<br>()<br>CAS#: 107-21-1                      | <u>name</u><br>ethylene glycol                                            | <u>ehs</u><br>N      | <u>% cas</u><br>100 107-21-1              | LIQUID<br>(PURE)  | MAX 3 GAL<br>AVG 3 GAL<br>LC 1 GAL<br>WST 0 GAL<br>DAYS 365<br>CUR N/A                                                                                          | PLASTIC<br>BOTTLE OR JUG | pres: AMB<br>temp: AMB    | FIRE, ACUTE<br>HEALTH                            |

| Date: 9/19/2<br>Business Na      |                | GO TECHNOL                                                    | OGIES                                                                   |                      | MAP ID:                                     | Buildin           | g 90 L                                 | .ower                                  | -                        | : 26 of 40<br>lity 1D#:   |                                                    |
|----------------------------------|----------------|---------------------------------------------------------------|-------------------------------------------------------------------------|----------------------|---------------------------------------------|-------------------|----------------------------------------|----------------------------------------|--------------------------|---------------------------|----------------------------------------------------|
| DOT<br>HAZ CLASS                 | Location       | CHEMICAL NAME<br>(COMMON NAME)                                | HAZARDOUS                                                               | 5 СОМ                |                                             | PHYSICAL<br>STATE | QUAN                                   | TITIES                                 | STORAGE<br>CONTAINERS    | STORAGE<br>CODES          | SARA<br>CATEGORIES                                 |
| ): MISC<br>HAZARDOUS<br>MATERIAL | Gas Vault      | Sodium Phosphate,<br>Dibasic, 12-hydrate,<br>Crystal<br>()    | <u>name</u><br>sodium<br>phosphate,<br>dibasic, 12-<br>hydrate, crystal | <u>ehs</u><br>N      | <u>% cas</u><br>100 10039-32-4              | Solid<br>(Pure)   | MAX<br>AVG<br>LC<br>WST                | 4.4 LBS<br>4.4 LBS<br>1.1 LBS<br>0 LBS | PLASTIC<br>BOTTLE OR JUG | pres: AMB<br>temp: AMB    | NONE                                               |
|                                  |                | CAS#: 10039-32-4                                              |                                                                         |                      |                                             | •                 | DAYS<br>CUR                            | 365<br>N/A                             |                          |                           |                                                    |
| NONE                             | Gas Vault      | Succinic Acid,<br>Granular AR<br>()                           | <u>name</u><br>succinic acid,<br>granular ar                            | <u>ehs</u><br>N      | <u>% cas</u><br>100 110-15-6                | Solid<br>(Pure)   | MAX<br>AVG<br>LC<br>WST<br>DAYS        | 500 GR<br>500 GR<br>500 GR<br>0 GR     | PLASTIC<br>BOTTLE OR JUG | pres: AMB<br>temp: AMB    | CHRONIC<br>HEALTH                                  |
|                                  |                | CAS#: 110-15-6                                                |                                                                         | ·                    |                                             |                   | CUR                                    | N/A                                    |                          |                           |                                                    |
| B: CORROSIVES                    | Gas Vault      | Sulfunc Acid 98%<br>(SULFURIC ACID<br>98%)<br>CAS#: 7664-93-9 | <u>name</u><br>sulfuric acid 98%<br>water                               | <u>ehs</u><br>N<br>N | <u>% cas</u><br>98 7664-93-9<br>2 7732-18-5 | LIQ⊍ID<br>(PURE)  | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 4 GAL<br>1 GAL<br>0 GAL                | PLASTIC<br>BOTTLE OR JUG | pres: AMB<br>tenp: AMB    | REACTIVE,<br>ACUTE<br>HEALTH,<br>CHRONIC<br>HEALTH |
| 2.2:<br>NONFLAMMABL<br>E GASES   | WSD NPI<br>Lab | Nitrogen, Liquid<br>(NITROGEN, LIQUID)<br>CAS#: 7727-37-9     | <u>name</u><br>nitrogen, (iquid)                                        | <u>ehs</u><br>N      | <u>% cas</u><br>100 7727-37-9               | Liquid<br>(Pure)  | MAX<br>AVG<br>LC<br>WST                | 5593 CUFT<br>5593 CUFT<br>0 CUFT       | CYLINDER                 | pres: > AMB<br>temp: CRYO | PRESSURE<br>RELEASE,<br>ACUTE<br>HEALTH            |
| $\checkmark$                     |                | •                                                             |                                                                         |                      |                                             | •                 | DAYS<br>CUR                            | 365<br>N/A                             |                          |                           |                                                    |
|                                  |                | · · · · · · · · · · · · · · · · · · ·                         |                                                                         |                      | · · ·                                       |                   |                                        |                                        | •                        |                           | · · · · ·                                          |
|                                  |                |                                                               |                                                                         |                      |                                             |                   |                                        |                                        |                          |                           |                                                    |

| Date: 9/19/<br>Business Na                    |           | AGO TECHNOL                                              | OGIES                                                     |                      |                     | MAP ID                               | : Buildin           | g 90 l                                 | Lower                                                    | •                        | :: <b>25 of 40</b><br>lity ID#: |                                                      |
|-----------------------------------------------|-----------|----------------------------------------------------------|-----------------------------------------------------------|----------------------|---------------------|--------------------------------------|---------------------|----------------------------------------|----------------------------------------------------------|--------------------------|---------------------------------|------------------------------------------------------|
| DOT<br>HAZ CLASS                              | Location  | CHEMICAL NAME<br>(COMMON NAME)                           | HAZARDOU                                                  | S CON                | 1PON                | ENTS                                 | PHYSICAL<br>STATE   | QUAI                                   | NTITIES                                                  | STORAGE<br>CONTAINERS    | STORAGE<br>CODES                | SARA<br>CATEGORIE                                    |
| 3: Flammable<br>and<br>combustible<br>liquids | Gas Vault | Methanol<br>(METHANOL)<br>CAS#: 67-56-1                  | methanol                                                  | <u>ehs</u><br>N      | <u>%</u><br>100     | <u>cas</u><br>67-56-1                | LIQUID<br>(PURE)    | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 5 GAL<br>5 GAL<br>1 GAL<br>0 GAL<br>365<br>N/A           | PLASTIC<br>BOTTLE OR JUG | pres: AMB<br>temp: AMB          | FIRE, ACUTE<br>HEALTH                                |
| 3: CORROSIVES                                 | Gas Vault | Phosphoric Acid 85%<br>()<br>CAS#: 7664-38-2             | <u>name</u><br>phosphoric acid<br>water                   | <u>ehs</u><br>N<br>N |                     | <u>cas</u><br>7664-38-2<br>7732-18-5 | LIQUID<br>(PURE)    | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 2 GAL<br>2 GAL<br>1 GAL<br>0 GAL<br>365<br>N/A           | PLASTIC<br>BOTTLE OR JUG | pres: AMB<br>temp: AMB          | ACUTE<br>HEALTH                                      |
| 5.1: OXIDIZING<br>SUBSTANCES                  | Gas Vault | Potassium<br>Dichromate Crystal<br>()<br>CAS#: 7778-50-9 | name<br>potassium<br>dichromate<br>crystal                | <u>ehs</u><br>N      | <u>%</u><br>100     | <u>cas</u><br>7778-50-9              | SOLID<br>(PURE)     | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | N/A                                                      | PLASTIC<br>BOTTLE OR JUG | pres: AMB<br>temp: AMB          | FIRE, ACUTE<br>HEALTH,<br>CHRONIC<br>HEALTH          |
| 9: MISC<br>HAZARDOUS<br>MATERIAL              | Gas Vault | Resist Developer RD6<br>()<br>CAS#: NONE                 | <u>name</u><br>tetramethylammo<br>nium hydroxide<br>water | <u>ehs</u><br>N<br>N | <u>%</u><br>3<br>97 | <u>cas</u><br>75-59-2<br>7732-18-5   | LIQUID<br>(MIXTURE) | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 4 GAL<br>4 GAL<br>1 GAL<br>0 GAL<br>365<br>N/A           | PLASTIC<br>BOTTLE OR JUG | pres: AMB<br>temp: AMB          | ACUTE<br>HEALTH                                      |
| B: CORROSIVES                                 | Gas Vault | Silicon Tetrachloride<br>()<br>CAS#: 10026-04-7          | name<br>silicon<br>tetrachloride                          | <u>ehs</u><br>N      | <u>%</u><br>100     | <u>cas</u><br>10026-04-7             | GAS<br>(PURE)       | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 228 CUFT<br>228 CUFT<br>228 CUFT<br>0 CUFT<br>365<br>N/A | CYLINDER                 | pres: > AMB<br>temp: AMB        | REACTIVE,<br>PRESSURE<br>RELEASE,<br>ACUTE<br>HEALTH |

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| Date: 9/19/<br>Business Na                    |                         | GO TECHNOL                                                           | OGIES                                                          |                           |                            | MAP IL                                       | ): Buildin          | g 90 L                                 | .ower                                            | -                        | : 28 of 40<br>lity ID#: |                                             |
|-----------------------------------------------|-------------------------|----------------------------------------------------------------------|----------------------------------------------------------------|---------------------------|----------------------------|----------------------------------------------|---------------------|----------------------------------------|--------------------------------------------------|--------------------------|-------------------------|---------------------------------------------|
| DOT<br>HAZ CLASS                              | Location                | CHEMICAL NAME<br>(COMMON NAME)                                       | HAZARDOU                                                       | S COM                     | IPON.                      | ENTS                                         | PHYSICAL<br>STATE   | QUAN                                   | TITIES                                           | STORAGE<br>CONTAINERS    | STORAGE<br>CODES        | SARA<br>CATEGORIES                          |
| 3: FLAMMABLE<br>AND<br>COMBUSTIBLE<br>LIQUIDS | WSD<br>Packaging<br>Lab | Kester 951 Soldering<br>Flux<br>()<br>CAS#: NONE                     | <u>name</u><br>ethanol<br>isopropyl alcohol<br>n-butyl acetate | <u>ehs</u><br>N<br>N<br>N | <u>%</u><br>60<br>30<br>10 | <u>cas</u><br>64-17-5<br>67-63-0<br>123-86-4 | LIQUID<br>(MIXTURE) | AVG<br>LC<br>WST                       | 2 GAL<br>2 GAL<br>1 GAL<br>0 GAL<br>365<br>N/A   | PLASTIC<br>BOTTLE OR JUG | pres: AMB<br>temp: AMB  | FIRE                                        |
| NONE                                          | WSD<br>Packaging<br>Lab | Miscellaneous<br>Epoxies<br>(Miscellaneous<br>Epoxies)<br>CAS#: NONE | <u>mame</u><br>miscellaneous<br>epoxies                        | <u>ehs</u><br>N           | <u>%</u><br>100            | <u>cas</u>                                   | LIQUID<br>(PURE)    |                                        | 2 LBS<br>2 LBS<br>10 LBS<br>0 LBS<br>365<br>N/A  | PLASTIC<br>BOTTLE OR JUG | pres: AMB<br>temp: AMB  | FIRE, ACUTE<br>HEALTH,<br>CHRONIC<br>HEALTH |
| NONE                                          | WSD<br>Packaging<br>Lab | PF Degreaser<br>(PF Degreaser)<br>CAS#: proprietary                  | <u>name</u><br>proprietary                                     | <u>ehs</u><br>N           | <u>%</u><br>100            | <u>cas</u>                                   | LIQUID<br>(PURE)    | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 2 GAL<br>2 GAL<br>1 GAL<br>0 GAL<br>365<br>N/A   | PLASTIC<br>BOTTLE OR JUG | pros: AMB<br>temp: AMB  | FIRE                                        |
| NONE                                          | WSD<br>Packaging<br>Lab | Vitrex Ultra<br>()<br>CAS#: NONE                                     | <u>name</u><br>vitrex ultra                                    | <u>ehs</u><br>N           | <u>%</u><br>100            | <u>cas</u>                                   | Liquid<br>(Mixture) | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 5 GAL<br>5 GAL<br>5 GAL<br>0 GAL<br>365<br>N/A   | PLASTIC<br>BOTTLE OR JUG | pres: AMB<br>temp: AMB  | NONE                                        |
| 3: FLAMMABLE<br>AND<br>COMBUSTIBLE<br>IQUIDS  | WSD<br>Packaging<br>Lab | Waste Solvent<br>(Waste Solvents)<br>CAS#: NONE                      | <u>name</u><br>isopropyl alcohol<br>acetone                    | <u>ehs</u><br>N<br>N      | <u>%</u><br>50<br>50       | <u>cas</u><br>67-63-0<br>67-64-1             | LIQUID<br>(MIXTURE) | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 10 GAL<br>5 GAL<br>10 GAL<br>0 GAL<br>365<br>N/A | CAN                      | pres: AMB<br>temp: AMB  | FIRE                                        |

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|                                               |                         | GO TECHNOL                                                      |                                                         |                           |                          |                                             | : Buildin           | 9.001                                  |                                                          |                          | ity ID#:                 |                     |
|-----------------------------------------------|-------------------------|-----------------------------------------------------------------|---------------------------------------------------------|---------------------------|--------------------------|---------------------------------------------|---------------------|----------------------------------------|----------------------------------------------------------|--------------------------|--------------------------|---------------------|
| DOT<br>HAZ CLASS                              | Location                | CHEMICAL NAME<br>(COMMON NAME)                                  | HAZARDOU                                                | S COM                     | PON                      | ENTS                                        | PHYSICAL<br>STATE   | QUAN                                   | <b>VTITIES</b>                                           | STORAGE<br>CONTAINERS    | STORAGE<br>CODES         | SARA<br>CATEGORIE   |
| 3: Flammable<br>and<br>Combustible<br>Liquids | WSD<br>Packaging<br>Lab | 2-Propanol<br>(ISOPROPYL<br>ALCOHOL)<br>CAS#: 67-63-0           | <u>name</u><br>2-propanol                               | <u>ehs</u><br>N           | <u>%</u><br>100          | <u>cas</u><br>67-63-0                       | Liquid<br>(pure)    | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 1 GAL<br>1 GAL<br>1 GAL<br>0 GAL<br>365<br>N/A           | PLASTIC<br>BOTTLE OR JUG | pres: AMB<br>temp: AMB   | FIRE                |
| : Flammable<br>and<br>combustible<br>iquids   | WSD<br>Packaging<br>Lab | Acetone<br>(ACETONE)<br>CAS#: 67-64-1                           | <u>name</u><br>acetone                                  | <u>ehs</u><br>N           | <u>%</u><br>100          | <u>cas</u><br>67-64-1                       | LIQUID<br>(PURE)    | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 3 GAL<br>3 GAL<br>1 GAL<br>0 GAL<br>365<br>N/A           | PLASTIC<br>BOTTLE OR JUG | pres: AMB<br>temp: AMB   | FIRE                |
| 2.2:<br>NONFLAMMABL<br>E GASES                | WSD<br>Packaging<br>Lab | Argon<br>()<br>CAS#: 7440-37-1                                  | <u>name</u><br>argon                                    | <u>ehs</u><br>N           | <u>%</u><br>100          | <u>cas</u><br>7440-37-1                     | GAS<br>(PURE)       | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 248 CUFT<br>248 CUFT<br>248 CUFT<br>0 CUFT<br>365<br>N/A | CYLINDER                 | pres: > AMB<br>temp: AMB | PRESSURE<br>RELEASE |
| 2.1:<br>FLAMMABLE<br>GASES                    | WSD<br>Packaging<br>Lab | Forming Gas, 3% H2<br>balance N2<br>(Forming Gas)<br>CAS#: NONE | <u>name</u><br>hydrogen<br>nitrogen                     | <u>ehs</u><br>N<br>п      |                          | <u>cas</u><br>1333-74-0<br>7727-37-9        | GAS<br>(MIXTURE)    | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 208 CUFT<br>208 CUFT<br>208 CUFT<br>0 CUFT<br>365<br>N/A | CYLINDER                 | pres: > AMB<br>temp: AMB | NONE                |
| : Flammable<br>NDD<br>Combustible<br>Iquids   | WSD<br>Packaging<br>Lab | Kester 1544<br>Soldering Flux<br>()<br>CAS#: NONE               | <u>name</u><br>ethanol<br>methanol<br>isopropyl alcohol | <u>ehs</u><br>N<br>N<br>N | <u>%</u><br>20<br>5<br>5 | <u>cas</u><br>64-17-5<br>17-56-1<br>67-63-0 | LIQUID<br>(MIXTURE) | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 2 GAL<br>2 GAL<br>1 GAL<br>0 GAL<br>365<br>N/A           | PLASTIC<br>BOTTLE OR JUG | pres: AMB<br>temp: AMB   | FIRE                |

| 5.1: OXIDIZING Scrubber Calcium Hypochlorite, <u>Hame</u> <u>ehs</u> <u>%</u> <u>cas</u> SOLID <u>MAX</u> 55 Lbs PLASTIC / <u>pres:</u> AMB FIRE,<br>SUBSTANCES Bay East Hydrated ()<br>() hypochlorite, hydrated ()<br>CAS#: 7778-54-3 (PURE) <u>DAYS</u> 365<br><u>CUR</u> N/A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Date: 9/19/<br>Business Na   |          | GO TE              | CHNOL              | OGIES                    |        | A            | IAP ID. | Buildin | g 90 l                   | Roof                             |             | :: <b>29 of 40</b><br>lity ID#: |                                       |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|----------|--------------------|--------------------|--------------------------|--------|--------------|---------|---------|--------------------------|----------------------------------|-------------|---------------------------------|---------------------------------------|
| SUBSTANCES       Bay East       Hydrated       Calcium       N       100 7778-54-3       (PURE)       AVG       55 Lbs       NONMETALLIC       temp:       AMB       REACTIVE, ACUTE         ()       hydrated       hydrated       hydrated       DAYS       365       CUR       N/A       NAMB       REACTIVE, ACUTE       ACUTE         5.1: OXIDIZING       Scrubber       Calcium Hypochlorite, Hydrated       Mame       Mame       SOLID       MAX       55 Lbs       PLASTIC / Pres:       AMB       FIRE, REACTIVE, ACUTE         SUBSTANCES       Bay West       Calcium Hypochlorite, Hydrated       Mame       SOLID       MAX       55 Lbs       PLASTIC / Pres:       AMB       FIRE, REACTIVE, ACUTE         SUBSTANCES       Bay West       Hydrated       N 100 7778-54-3       (PURE)       AVG       55 Lbs       PLASTIC / Pres:       AMB       REACTIVE, ACUTE         ()       hydrated       N 100 7778-54-3       (PURE)       AVG       55 Lbs       NONMETALLIC       pres:       AMB       REACTIVE, ACUTE         ()       hydrated       N drated       N 100 7778-54-3       (PURE)       AVG 55 Lbs       DRUM       PLASTIC / PRES:       AMB       REACTIVE, ACUTE         ()       CAS#: 7778-54-3       N drate |                              | Location | CHEMICA<br>(COMMO) | IL NAME<br>N NAME) | HAZARDO                  | US COM | <i>IPONE</i> |         |         | QUAI                     | NTITIES                          |             |                                 | SARA .<br>CATEGORIES                  |
| SUBSTANCES     Bay West     Hydrated     calcium     N     100     7778-54-3     (PURE)     AVG     55 Lbs     NONMETALLIC     remp:     AMB     REACTIVE,       ()     hydrated     N     100     7778-54-3     (PURE)     AVG     55 Lbs     NONMETALLIC     remp:     AMB     ACUTE       ()     hydrated     WST     0 Lbs     0 Lbs     HEALTH       CAS#: 7778-54-3     DAYS     365                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 5.1: OXIDIZING<br>SUBSTANCES |          | Hydrated           |                    | calcium<br>hypochlorite, |        |              |         |         | AVG<br>LC<br>WST<br>DAYS | 55 Lbs<br>55 Lbs<br>0 Lbs<br>365 | NONMETALLIC | -                               | REACTIVE,<br>ACUTE                    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 5.1: OXIDIZING<br>SUBSTANCES |          | Hydrated<br>()     |                    | calcium<br>hypochlorite, |        |              |         |         | AVG<br>LC<br>WST<br>DAYS | 55 Lbs<br>55 Lbs<br>0 Lbs<br>365 | NONMETALLIC | •                               | REACTIVE,<br>ACUTE                    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                              |          |                    |                    | · · ·                    |        |              |         |         | -                        |                                  |             | · · ·                           | · · · · · · · · · · · · · · · · · · · |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                              | •        |                    |                    |                          | •      |              |         |         |                          |                                  |             |                                 |                                       |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | •                            |          |                    |                    | •                        |        |              |         |         |                          |                                  |             |                                 | •                                     |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                              |          |                    |                    |                          |        |              |         | •       |                          |                                  |             |                                 |                                       |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                              |          | •                  |                    |                          |        |              |         |         |                          | -                                |             |                                 |                                       |

| Date: 9/19/<br>Business Na                    |           | lips Lumileds                                             |                            |                  | MAP ID                         | : Buildin           | g 90 S                   | Service                                                  | •                       | e: 30 of 40<br>ility ID#: | ÷                                           |
|-----------------------------------------------|-----------|-----------------------------------------------------------|----------------------------|------------------|--------------------------------|---------------------|--------------------------|----------------------------------------------------------|-------------------------|---------------------------|---------------------------------------------|
| DOT<br>HAZ CLASS                              | Location  | CHEMICAL NAME<br>(COMMON NAME)                            | HAZARDO                    | US COM           | PONENTS                        | PHYSICAL<br>STATE   | QUAN                     | TITIES                                                   | • STORAGE<br>CONTAINERS | STORAGE<br>CODES          | SARA<br>CATEGORIES                          |
| 3: Flammable<br>and<br>combustible<br>liquids | A.9', 6.3 | Diesel Fuel<br>(DIESEL)<br>CAS#: 68476-34-6               | <u>name</u><br>diesel fuel | <u>ehs</u><br>N  | <u>% cas</u><br>100 68476-34-6 | Liquid<br>(pure)    | DAYS                     | 150 GAL<br>150 GAL<br>150 GAL<br>0 GAL<br>365<br>N/A     | TANK INSIDE<br>BUILDING | pres: AMB<br>temp: AMB    | FIRE, ACUTE<br>HEALTH,<br>CHRONIC<br>HEALTH |
| 3: FLAMMABLE<br>AND<br>COMBUSTIBLE<br>LIQUIDS | AA 8.2    | Diesel Fuel<br>(DIESEL)<br>CAS#: 68476-34-6               | <u>name</u><br>diesel fuel | <u>ehs</u><br>N  | <u>% cas</u><br>100 68476-34-6 | LIQUID<br>(PURE)    | AVG<br>LC<br>WST<br>DAYS | 250 GAL<br>250 GAL<br>250 GAL<br>0 GAL<br>365<br>N/A     | TANK INSIDE<br>BUILDING | pres: AMB<br>temp: AMB    | FIRE, ACUTE<br>HEALTH,<br>CHRONIC<br>HEALTH |
| 2.1:<br>FLAMMABLE<br>GASÉS                    | AA, 5     | Hydrogen, Liquid<br>(Hydrogen, Liquid)<br>CAS#: 1333-74-0 | <u>name</u><br>hydrogen    | <u>elıs</u><br>N | <u>% cas</u><br>100 1333-74-0  | LIQUID<br>(MIXTURE) | AVG<br>LC<br>WST<br>DAYS | 7200 GAL<br>7200 GAL<br>3600 GAL<br>0 GAL<br>365<br>N/A  | ABOVEGROUND<br>TANK     | pres: > AMB<br>temp: CRYO | FIRE,<br>PRESSURE<br>RELEASE                |
| 2.2:<br>NONFLAMMABL<br>E GASES                | BB, 14.1  | Argon<br>(ARGON)<br>CAS#: 7440-37-1                       | <u>name</u><br>argon       | <u>ehs</u><br>N  | <u>% cas</u><br>100 7440-37-1  | LIQUID<br>(PURE)    | DAYS                     | 310 CUFT<br>310 CUFT<br>310 CUFT<br>0 CUFT<br>365<br>N/A | CYLINDER                | pres: > AMB<br>temp: AMB  | PRESSURE<br>RELEASE                         |
| 3: FLAMMABLE<br>AND<br>COMBUSTIBLE<br>LIQUIDS | CC,10.5   | Diesel Fuel<br>(DIESEL)<br>CAS#: 68476-34-6               | <u>name</u><br>diesel fuel | <u>ehs</u><br>N  | <u>% cas</u><br>100 68476-34-6 | LIQUID<br>(PURE)    |                          | 275 GAL<br>275 GAL<br>275 GAL<br>0 GAL<br>365<br>N/A     | TANK INSIDE<br>BUILDING | pres: AMB<br>(emp: AMB    | FIRE, ACUTE<br>HEALTH,<br>CHRONIC<br>HEALTH |

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|             | $\subseteq$                      |                   |                                                          |                                                     |                                                                                                                                                     |                     |                                                                                                                                                                    | · .                     |                           |                                  |
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|             |                                  |                   |                                                          |                                                     |                                                                                                                                                     |                     |                                                                                                                                                                    |                         |                           |                                  |
|             | Date: 9/19/<br>Business Na       |                   | lips Lumileds                                            |                                                     | MAP ID                                                                                                                                              | : Buildin           | g 90 Service                                                                                                                                                       | -                       | : 31 of 40<br>lity ID#:   |                                  |
| ,<br>,<br>, | DOT<br>HAZ CLASS                 | Location          | CHEMICAL NAME<br>(COMMON NAME)                           | HAZARDOUS                                           | S COMPONENTS                                                                                                                                        | PHYSICAL<br>STATE   | QUANTITIES                                                                                                                                                         | STORAGE<br>CONTAINERS   | STORAGE<br>CODES          | SARA<br>CATEGORIE                |
| •           | 8: CORROSIVES                    | Cooling<br>Towers | Bleach<br>(Cooling tover<br>treatment)                   | <u>name</u><br>sodium<br>hyopchlorite<br>water      | <u>ehs % cas</u><br>N 12.5 7681-52-9<br>N 87.507732-18-5                                                                                            | Liquid<br>(Mixture) | MAX 235 GAL<br>AVG 235 GAL<br>LC 235 GAL<br>WST 0 GAL<br>DAYS 365                                                                                                  | TANK INSIDE<br>BUILDING | pres: AMB<br>temp: AMB    | ACUTE<br>HEALTH                  |
|             | • , •                            | •                 | CAS#: 7681-52-9                                          |                                                     |                                                                                                                                                     |                     | CUR N/A                                                                                                                                                            |                         |                           |                                  |
|             | 2.2:<br>NONFLAMMABL<br>E GASES   | D, 3.9            | Oxygen, Liquid<br>(Oxygen, liquid)                       | <u>name</u><br>oxygen, liquid                       | <u>ehs % cas</u><br>N 100 7782-44-7                                                                                                                 | LIQUID<br>(PURE)    | <i>AVG</i> 127000 CUI<br><i>LC</i> 127000 CUI                                                                                                                      |                         | pres: > AMB<br>temp: CRYO | REACTIVE,<br>PRESSURE<br>RELEASE |
|             |                                  |                   | CAS#: 7782-44-7                                          | ·.                                                  |                                                                                                                                                     |                     | WST 0 CUFT<br>DAYS 365<br>CUR N/A                                                                                                                                  |                         |                           |                                  |
|             | 8: CORROSIVES                    | DI Area           | Calcium Hydroxide                                        | <u>name</u><br>calcium                              | <u>ehs % cas</u><br>N 100 1305-62-0                                                                                                                 | SOLID<br>(PURE)     | MAX 3000 LBS<br>AVG 2000 LBS                                                                                                                                       | BAG                     | pres: AMB<br>temp: AMB    | NONE                             |
|             | •                                |                   | (CALCIUM<br>HYDROXIDE)<br>CAS#: 1305-62-0                | hydroxide                                           |                                                                                                                                                     |                     | LC 50 LBS<br>WST 0 LBS<br>DAYS 365                                                                                                                                 | ~                       |                           |                                  |
|             |                                  |                   |                                                          |                                                     |                                                                                                                                                     | •                   | <i>CUR</i> N/A                                                                                                                                                     |                         |                           |                                  |
|             | 9: MISC<br>HAZARDOUS<br>MATERIAL | DI Area           | Filter Press Waste<br>(Filter Press Waste)<br>CAS#: NONE | <u>name</u><br>calcium fluoride<br>arsenic<br>water | ehs         %         cas           N         80         7789-75-5           N         1         7440-38-2           N         20         7732-18-5 | SOLID<br>(MIXTURE)  | MAX         2000 LBS           AVG         1000 LBS           LC         2000 LBS           WST         0 LBS           DAYS         365           CUR         N/A | BAG, BOX                | pres: AMB<br>temp: AMB    | NONE                             |
|             |                                  |                   |                                                          |                                                     |                                                                                                                                                     |                     | CON NA                                                                                                                                                             | . :                     |                           |                                  |
|             | 8: CORROSIVES                    | DI Area           | Hydrochloric Acid<br>38%                                 | <u>name</u><br>hydrochloric acid                    | <u>elis % cas</u><br>d N 38 7647-01-0                                                                                                               | LIQUID<br>(PURE),   | <i>MAX</i> 300 GAL<br><i>AVG</i> 200 GAL<br><i>LC</i> 300 GAL                                                                                                      | TANK INSIDE<br>BUILDING | pres: AMB<br>temp: AMB    | ACUTE<br>HEALTH                  |
|             |                                  | •                 | (HYDROCHLORIC<br>ACID 38%)<br>CAS#: 7647-01-0            | water                                               | N 62 7732-18-5                                                                                                                                      |                     | <i>LC</i> 300 GAL<br><i>WST</i> 0 GAL<br><i>DAYS</i> 365<br><i>CUR</i> N/A                                                                                         |                         |                           |                                  |

| Date: 9/19/<br>Business No                    |          | lips Lumileds                                                                                |                                                           |                        |                 | MAP III                                            | : Buildin           | a 90 s                                 | Service                                               | •                                | e: 32 of 40<br>ility ID#: |                                             |
|-----------------------------------------------|----------|----------------------------------------------------------------------------------------------|-----------------------------------------------------------|------------------------|-----------------|----------------------------------------------------|---------------------|----------------------------------------|-------------------------------------------------------|----------------------------------|---------------------------|---------------------------------------------|
| DOT<br>HAZ CLASS                              | Location | CHEMICAL NAME<br>(COMMON NAME)                                                               | HAZARDOU                                                  | S COM                  |                 |                                                    | PHYSICAL<br>STATE   |                                        | TITIES                                                | STORAGE<br>CONTAINERS            | STORAGE<br>CODES          | SARA<br>CATEGORIES                          |
| 8: CORROSIVES                                 | DI Area  | Lime Slurry Tank<br>(CALCIUM<br>HYDROXIDE)<br>CAS#: NONE                                     | name<br>calcium<br>hydroxide<br>calcium chloride<br>water | <u>ehs</u><br>N<br>n   | 4               | <u>cas</u><br>1305-62-0<br>10043-52-4<br>7732-18-5 | LIQUID<br>(PURE)    | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 300 GAL<br>0 GAL<br>300 GAL<br>0 GAL<br>365<br>N/A    | TANK INSIDE<br>BUILDING          | pres: AMB<br>temp: AMB    | NONE                                        |
| 3: FLAMMABLE<br>AND<br>COMBUSTIBLE<br>LIQUIDS | DI Area  | Miscellaneous<br>Combustible Liquids<br>(MISCELLANEOUS<br>COMBUSTIBLE<br>OILS)<br>CAS#: NONE | <u>name</u><br>miscellaneous<br>combustible<br>liquids    | <u>ehs</u><br>N        | <u>%</u><br>100 | <u>cas</u>                                         | LIQUID<br>(PURE)    | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 40 GAL<br>30 GAL<br>5 GAL<br>0 GAL<br>365<br>N/A      | PLASTIC /<br>NONMETALLIC<br>DRUM | pres: AMB<br>temp: AMB    | FIRE, ACUTE<br>HEALTH,<br>CHRONIC<br>HEALTH |
| 8: CORROSIVES                                 | DI Area  | Press Plate Cleaning<br>tank<br>(HYDROCHLORIC<br>ACID 38%)<br>CAS#: NONE                     | <u>name</u><br>hydrochloric acid<br>water                 | <u>ehs</u><br>N<br>N   |                 | <u>cas</u><br>7647-01-0<br>7732-18-5               | Liquid<br>(pure)    | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 200 GAL<br>200 GAL<br>200 GAL<br>0 GAL<br>365<br>N/A  | TANK INSIDE<br>BUILDING          | pres: AMB<br>temp: AMB    | ACUTE<br>HEALTH                             |
| 8: CORROSIVES                                 | DI Area  | Sodium Hydroxide<br>()<br>CAS#: 1310-73-2                                                    | <u>name</u><br>sodium hydroxido<br>water                  | <u>ehs</u><br>∋ N<br>N |                 | <u>cas</u><br>1310-73-2<br>7732-18-5               | LIQUID<br>(MIXTURE) | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 600 GAL<br>450 GAL<br>300 GAL<br>0 GAL<br>365<br>N/A  | TANK INSIDE<br>BUILDING          | pres: AMB<br>temp: AMB    | REACTIVE,<br>ACUTE<br>HEALTH                |
| 8: CORROSIVES                                 | DI Area  | Sodium Hydroxide<br>(solid)<br>(CAUSTIC SODA<br>PELS)<br>CAS#: 1310-73-2                     | <u>name</u><br>sodium hydroxida                           | elis<br>e N            | <u>%</u><br>100 | <u>cas</u><br>1310-73-2                            | SOLID<br>(PURE)     | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 3000 LBS<br>2000 LBS<br>50 LBS<br>0 LBS<br>365<br>N/A | BAG                              | pres: AMB<br>temp: AMB    | ACUTE<br>HEALTH                             |

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| Date: 9/19/<br>Business Na       |          |                                                        | HNOI             | OGIES                                                |                           | 7               | ΜΑΡ ΙΠ                                            | : Buildin           | a 90 9                                 | Sorvico                                                   |                                  | ge: 33 of 40<br>cility ID#: |                                                    |
|----------------------------------|----------|--------------------------------------------------------|------------------|------------------------------------------------------|---------------------------|-----------------|---------------------------------------------------|---------------------|----------------------------------------|-----------------------------------------------------------|----------------------------------|-----------------------------|----------------------------------------------------|
| DOT<br>HAZ CLASS                 | Location | CHEMICA<br>(COMMON                                     | L NAME           | HAZARDOUS                                            | S COM                     |                 |                                                   | PHYSICAL<br>STATE   | -                                      | TITIES                                                    | STORAGE<br>CONTAINERS            | STORAGE<br>CODES            | SARA<br>CATEGORIES                                 |
| D: MISC<br>HAZARDOUS<br>MATERIAL | DI Area  | Sodium Met<br>(SODIUM<br>METABISU<br>CAS#: 768         | .FITE)           | <u>name</u><br>sodium<br>metabisulfite<br>water      | <u>ehs</u><br>N<br>N      |                 | <u>cas</u><br>7681-57-4<br>7732-18-5              | Liquid<br>(Pure)    | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 80 GAL<br>50 GAL<br>80 GAL<br>0 GAL<br>365<br>N/A         | PLASTIC /<br>NONMETALLIC<br>DRUM | pres: AMB<br>temp: AMB      | NONE                                               |
| 3: CORROSIVES                    | DI Area  | Sulfuric Acia<br>(SULFURIC<br>96%)<br>CAS#: 7664       | ACID             | <u>name</u><br>sulfuric acid 98%<br>water            | <u>ehs</u><br>N<br>N      |                 | <u>cas</u><br>7664-93-9<br>7732-18-5              | LIQUID<br>(PURE)    | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 110 GAL<br>110 GAL<br>110 GAL<br>0 GAL<br>365<br>N/A      | TANK INSIDE<br>BUILDING          | pres: AMB<br>temp: AMB      | REACTIVE,<br>ACUTE<br>HEALTH,<br>CHRONIC<br>HEALTH |
| B: CORROSIVES                    | Di Area  | Waste Acidi<br>(Misc. Corro<br>Liquids)<br>CAS#: NON   | sive             | <u>name</u><br>waste acidic<br>solution              | <u>elıs</u><br>N          | <u>%</u><br>100 | <u>cas</u>                                        | LIQUID<br>(MIXTURE) | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 10000 GAL<br>10000 GAL<br>5000 GAL<br>0 GAL<br>365<br>N/A | TANK INSIDE<br>BUILDING          | pres: AMB<br>temp: AMB      | ACUTE<br>HEALTH                                    |
| B: CORROSIVES                    | DI Area  | Waste HF<br>Tank<br>(Fluoride Tr<br>Tank)<br>CAS#: NON | eatment          | <u>name</u><br>hydrofluoric acid<br>arsenic<br>water | <u>ehs</u><br>N<br>N      | 1               | <u>cas</u><br>7664-39-3<br>7440-38-2<br>7732-18-5 | LIQUID<br>(MIXTURE) | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 5600 GAL<br>5600 GAL<br>5600 GAL<br>0 GAL<br>365<br>N/A   | TANK INSIDE<br>BUILDING          | pres: AMB<br>temp: AMB      | NONE                                               |
| 9: MISC<br>HAZARDOUS<br>MATERIAL | DI Area  | Waste Slud<br>Holding Tan<br>(Sludge Hol<br>CAS#: NON  | ks<br>ding Tank) | <u>name</u><br>calcium fluoride<br>arsenic<br>water  | <u>ehs</u><br>N<br>N<br>N | 1 .             | <u>cas</u><br>7789-75-5<br>7440-38-2<br>7732-18-5 | SOLID<br>(MIXTURE)  | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 5200 GAL<br>4000 GAL<br>2600 GAL<br>0 GAL<br>365<br>N/A   | TANK INSIDE<br>BUILDING          | pres: AMB<br>temp: AMB      | NONE                                               |

| Date: 9/19/                      |                     |                                                                                            | ·                                                        |                           |                 |                                                                |                     |                                        |                                                        | 0                                                                                                                       | :: 34 of 40            |                    |
|----------------------------------|---------------------|--------------------------------------------------------------------------------------------|----------------------------------------------------------|---------------------------|-----------------|----------------------------------------------------------------|---------------------|----------------------------------------|--------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------|------------------------|--------------------|
| Business Na                      | ime: Phil           | ips Lumileds                                                                               |                                                          |                           |                 | MAP ID                                                         | e: Buildin          | g 90 S                                 | Service                                                | Yard Faci                                                                                                               | lity ID#:              |                    |
| DOT<br>HAZ CLASS                 | Location            | CHEMICAL NAME<br>(COMMON NAME)                                                             | HAZARDOU                                                 | S CON                     | 1PON            | ENTS                                                           | PHYSICAL<br>STATE   | QUA                                    | TITIES                                                 | STORAGE<br>CONTAINERS                                                                                                   | STORAGE<br>CODES       | SARA<br>CATEGORIES |
| 9: MISC<br>HAZARDOUS<br>MATERIAL | HazWaste<br>Storage | Debris contaminated<br>with Arsenic<br>(Debris Contaminated<br>with Arsenic)<br>CAS#: NONE | <u>mame</u><br>debris<br>contaminated<br>with arsenic    | <u>ehs</u><br>N           | <u>%</u><br>100 | <u>cas</u>                                                     | SOLID<br>(PURE)     | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 55 GAL<br>55 GAL<br>55 GAL<br>5800 GAL<br>365<br>N/A   | STEEL DRUM                                                                                                              | pres: AMB<br>temp: AMB | ACUTE<br>HEALTH    |
| NONE                             | HazWaste<br>Storage | Klebosol 1501<br>(Klebosol 1501-50)<br>CAS#: NONE                                          | name<br>silicon dioxide<br>water                         | <u>ehs</u><br>N<br>N      |                 | <u>cas</u><br>63231-67-4<br>7732-18-5                          | LIQUID<br>(MIXTURE) | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 120 GAL<br>120 GAL<br>5 GAL<br>0 GAL<br>365<br>N/A     | PLASTIC /<br>NONMETALLIC<br>DRUM                                                                                        | pres: AMB<br>temp: AMB | NONE               |
| NONE                             | HazWaste<br>Storage | Lab Pack<br>(Lab Pack)<br>CAS#: NONE                                                       | <u>name</u><br>lab pack                                  | <u>ehs</u><br>N           | <u>%</u><br>100 | <u>cas</u>                                                     | SOLID<br>(MIXTURE)  | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 800 LBS<br>200 LBS<br>10 LBS<br>3000 LBS<br>365<br>N/A | STEEL DRUM,<br>PLASTIC /<br>NONMETALLIC<br>DRUM, CAN,<br>FIBER DRUM,<br>BAG, BOX,<br>GLASS BOTTLE<br>OR JUG,<br>PLASTIC | pres: AMB<br>temp: AMB | NONE               |
| 8: CORROSIVES                    | HazWaste<br>Storage | Sulfuric Acid 96%<br>()<br>CAS#: 7664-93-9                                                 | <u>name</u><br>sulfuric acid 96%                         | <u>ehs</u><br>N           | <u>%</u><br>100 | <u>cas</u><br>7664-93-9                                        | Liquid<br>(Pure)    | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 288 GAL<br>288 GAL<br>1 GAL<br>288 GAL<br>365<br>N/A   | PLASTIC<br>BOTTLE OR JUG                                                                                                | pres: AMB<br>temp: AMB | ACUTE<br>HEALTH    |
| 9: MISC<br>HAZARDOUS<br>MATERIAL | HazWaste<br>Storage | Waste Aluminum<br>Oxide 481706<br>(Waste Aluminum<br>Oxide 481706)<br>CAS#: NONE           | name<br>aluminum oxide<br>arsenic<br>chromium<br>cadmium | <u>ehs</u><br>N<br>N<br>N | 1<br>1          | <u>cas</u><br>1344-28-1<br>7440-38-2<br>7440-47-3<br>7440-43-9 | SOLID<br>(MIXTURE)  | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 3900 LBS<br>0 LBS<br>500 LBS<br>5325 LBS<br>365<br>N/A | STEEL DRUM,<br>PLASTIC /<br>NONMETALLIC<br>DRUM                                                                         | pres: AMB<br>temp: AMB | CHRONIC<br>HEALTH  |

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| Date: 9/19/<br>Business Na       |                     | ins I un                                                                                 | ileds                          |                                                    |                      |                 | MAP ID                                            | : Buildin           | a 90 S                                 | Service                                                     |                                | Page: <b>35 of 40</b><br>Facility ID#: |                                                             |
|----------------------------------|---------------------|------------------------------------------------------------------------------------------|--------------------------------|----------------------------------------------------|----------------------|-----------------|---------------------------------------------------|---------------------|----------------------------------------|-------------------------------------------------------------|--------------------------------|----------------------------------------|-------------------------------------------------------------|
| DOT<br>HAZ CLASS                 | Location            | CHEMICA<br>(COMMO                                                                        | L NAME                         | HAZARDOUS                                          | S COM                |                 |                                                   | PHYSICAL<br>STATE   |                                        | TITIES                                                      | STORAGI<br>CONTAINE            | E STORAGE                              | SARA<br>CATEGORIES                                          |
| 9: MISC<br>HAZARDOUS<br>MATERIAL | HazWaste<br>Storage | Waste Arse<br>Contaminat<br>CD 5548<br>(Waste Ars<br>Contaminat<br>CD 5548)<br>CAS#: NOI | ed Debris<br>enic<br>ed Debris | <u>name</u><br>arsenic                             | <u>ehs</u><br>N      | <u>%</u><br>1   | <u>cas</u><br>7440-38-2                           | SOLID<br>(MIXTURE)  | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 4000 LBS<br>2000 LBS<br>4000 LBS<br>30000 LBS<br>365<br>N/A | TOTE BIN                       | pres: AMB<br>temp: AMB                 | CHRONIC<br>HEALTH                                           |
| : CORROSIVES                     | HazWaste<br>Storage | Waste Chro<br>Trioxide<br>(Waste Chro<br>Trioxide)<br>CAS#: NON                          | omium                          | name<br>chromic acid<br>hydrofluoric acid<br>water | <u>elıs</u><br>N     | 10              | <u>cas</u><br>1333-82-0<br>7664-39-3<br>7732-18-5 | LIQUID<br>(MIXTURE) | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 200 LBS<br>0 LBS<br>200 LBS<br>800 LBS<br>365<br>N/A        | PLASTIC /<br>NONMETALL<br>DRUM | pres: AMB<br>IC temp: AMB              | FIRE,<br>REACTIVE,<br>ACUTE<br>HEALTH,<br>CHRONIC<br>HEALTH |
| CORROSIVES                       | HazWaste<br>Storage | Waste Duc<br>Condensat<br>(from bagh<br>ductwork P<br>decomposi<br>CAS#: NOI             | ous<br>nosphate<br>ion)        | <u>name</u><br>arsenic<br>phosphoric acid<br>water | <u>ehs</u><br>N      | 78              | <u>cas</u><br>7440-38-2<br>7664-32-2<br>7732-18-5 | LIQUID<br>(MIXTURE) | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 165 GAL<br>55 GAL<br>55 GAL<br>440 GAL<br>365<br>N/A        | PLASTIC /<br>NONMETALL<br>DRUM | pres: AMB<br>IC temp: AMB              | ACUTE<br>HEALTH                                             |
| 2.1:<br>FLAMMABLE<br>GASES       | HazWaste<br>Storage | Waste Flar<br>Aerosols<br>(Waste Fla<br>Aerosols)<br>CAS#: NOI                           | nmable                         | <u>name</u><br>waste flammable<br>aerosols         | <u>ehs</u><br>N      | <u>%</u><br>100 | <u>cas</u>                                        | LIQUID<br>(MIXTURE) | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 40 LBS<br>0 LBS<br>1 LBS<br>80 LBS<br>365<br>N/A            | STEEL DRUN                     | M pres: AMB<br>temp: AMB               | FIRE                                                        |
| : CORROSIVES                     | HazWaste<br>Storage | Waste Lea<br>Batteries<br>(Waste Lea<br>Batteries)<br>CAS#: NO                           | d Acid                         | <u>name</u><br>lead<br>sulfuric acid               | <u>ehs</u><br>N<br>Y |                 | <u>cas</u><br>7439-92-1<br>7664-93-9              | SOLID<br>(MIXTURE)  | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 20 LBS<br>0 LBS<br>20 LBS<br>20 LBS<br>365<br>N/A           | BOX                            | pres: AMB<br>temp: AMB                 | REACTIVE,<br>ACUTE<br>HEALTH                                |

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| Date: 9/19/<br>Business No                    |                     | lips Lumileds                                                                                | •                                                                |                            |                         | MAP II                                                    | ): Buildin          | g 90                                   | Service                                                       | -                                               | e: <b>36 of 40</b><br>Tlity ID#: |                                |
|-----------------------------------------------|---------------------|----------------------------------------------------------------------------------------------|------------------------------------------------------------------|----------------------------|-------------------------|-----------------------------------------------------------|---------------------|----------------------------------------|---------------------------------------------------------------|-------------------------------------------------|----------------------------------|--------------------------------|
| DOT<br>HAZ CLASS                              | Location            | CHEMICAL NAME<br>(COMMON NAME)                                                               | HAZARDOU                                                         | S COM                      | 1PON                    | /ENTS                                                     | PHYSICAL<br>STATE   | QUAI                                   | NTITIES                                                       | STORAGE<br>CONTAINERS                           | STORAGE<br>CODES                 | SARÀ<br>CATEGORIES             |
| 9: MISC<br>HAZARDOUS<br>MATERIAL              | HazWaste<br>Storage | Waste Nickel<br>Cadmium Batteries<br>(Waste Nickel<br>Cadmium Batteries)<br>CAS#: NONE       | <u>name</u><br>cadmium<br>nickel                                 | <u>ehs</u><br>N<br>N       |                         | <u>cas</u><br>7440-43-9<br>7440-02-0                      | SOLID<br>(MIXTURE)  | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 5 LBS<br>0 LBS<br>5 LBS<br>10 LBS<br>365<br>N/A               | PLASTIC /<br>NONMETALLIC<br>DRUM                | pres: AMB<br>temp: AMB           | REACTIVE,<br>CHRONIC<br>HEALTH |
| 4.2:<br>SPONTANEOUS<br>LY .<br>COMBUSTIBLE    | HazWaste<br>Storage | Waste Pyrophoric<br>debris<br>(Pyrophoric Waste)<br>CAS#: NONE                               | <u>name</u><br>waste pyrophoric<br>debris                        | <u>ehs</u><br>N            | <u>%</u><br>100         | <u>cas</u>                                                | LIQUID<br>(MIXTURE) | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 665 LBS<br>200 LBS<br>200 LBS<br>1640 LBS<br>365<br>N/A       | STEEL DRUM,<br>PLASTIC /<br>NONMETALLIC<br>DRUM | pres: AMB<br>temp: AMB           | FIRE, ACUTE<br>HEALTH          |
| 3: FLAMMABLE<br>AND<br>COMBUSTIBLE<br>LIQUIDS | HazWaste<br>Storage | Waste Solvent<br>()<br>CAS#: NONE                                                            | <u>name</u><br>waste solvent                                     | <u>ehs</u><br>N            | <u>%</u><br>100         | <u>cas</u>                                                | LIQUID<br>(MIXTURE) | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 165 GAL<br>55 GAL<br>55 GAL<br>0 GAL<br>365<br>N/A            | PLASTIC<br>BOTTLE OR JUG                        | pres: AMB<br>temp: AMB           | FIRE                           |
| 9: MISC<br>HAZARDOUS<br>MATERIAL              | HazWaste<br>Storage | Waste Solvent<br>Contaminated Debris<br>(Waste Solvent<br>Contaminated Debris)<br>CAS#: NONE | name<br>acetone<br>xylene<br>propanol<br>n-methyl<br>pyrrolidone | <u>eiis</u><br>N<br>N<br>N | <u>%</u><br>1<br>1<br>1 | <u>cas</u><br>67-64-1<br>1330-20-7<br>67-63-0<br>872-50-4 | SOLID<br>(MIXTURE)  | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 1250 LBS<br>500 LBS<br>250 LBS<br>4000 LBS<br>365<br>N/A      | STEEL DRUM                                      | pres: AMB<br>temp: AMB           | NONE                           |
| NONE                                          | HazWaste<br>Storage | Wastewater<br>Treatment Sludge<br>(Wastewater<br>Treatment Sludge)<br>CAS#: NONE             | name<br>calcium fluoride<br>water<br>aluminum oxide              | <u>ehs</u><br>N<br>N       | 50                      | <u>cas</u><br>7789-75-5<br>7732-18-5<br>1344-28-1         | SOLID<br>(MIXTURE)  | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 38000 LBS<br>20000 LBS<br>2000 LBS<br>83500 LBS<br>365<br>N/A | BOX                                             | pres: AMB<br>temp: AMB           | NONE                           |

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| Date: <b>9/19</b> /<br>Business Na            |          | GO TECHNOL                                                                | OGIES                                     |                      | MAP ID                                                                      | : Buildin           | g 90 Upper L                                                                                                                                                        | •                        |     | of 40<br>D#:        |                                       |
|-----------------------------------------------|----------|---------------------------------------------------------------------------|-------------------------------------------|----------------------|-----------------------------------------------------------------------------|---------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|-----|---------------------|---------------------------------------|
| DOT<br>HAZ CLASS                              | Location | CHEMICAL NAME<br>(COMMON NAME)                                            | HAZARDOUS                                 | 5 СОМ                | PONENTS                                                                     | PHYSICAL<br>STATE   | QUANTITIES                                                                                                                                                          | STORAGE<br>CONTAINERS    |     | ORAGE<br>CODES      | SARA<br>CATEGORIES                    |
| 3: Flammable<br>and<br>combustible<br>Liquids | FOPD R&D | Hexane<br>(HEXANE)<br>CAS#: 38661-72-2                                    | <u>name</u><br>hexane                     | <u>ehs</u><br>N      | <u>% cas</u><br>100 38661-72-2                                              | Liquid<br>(pure)    | MAX 0.25 GAL<br>AVG 0.25 GAL<br>LC 0.25 GAL<br>WST 0 GAL<br>DAYS 365<br>CUR N/A                                                                                     | GLASS BOTTLE<br>OR JUG   | - 1 | s: AMB<br>ap: AMB   | FIRE, ACUTE<br>HEALTH                 |
| 8: CORROSIVES                                 | FOPD R&D | Hydrofluoric Acid 49%<br>(HYDROFLUORIC<br>ACID 49%)<br>CAS#: 7664-39-3    | <u>name</u><br>hydrofluoric acid<br>water | <u>ehs</u><br>Y<br>N | <u>% cas</u><br>49 7664-39-3<br>51 7732-18-5                                | LIQUID<br>(MIXTURE) | MAX 1 GAL<br>AVG 1 GAL<br>LC 1 GAL<br>WST 0 GAL<br>DAYS 365<br>CUR N/A                                                                                              | PLASTIC<br>BOTTLE OR JUG |     | s: АМВ<br>ир: АМВ   | ACUTE<br>HEALTH,<br>CHRONIC<br>HEALTH |
| 2.2:<br>NONFLAMMABL<br>E GASES                | FOPD R&D | Hydrogen 3.8%<br>Balance Argon<br>()<br>CAS#: NONE                        | <u>mame</u><br>hydrogen<br>argon          | <u>ehs</u><br>N<br>N | <u>% cas</u><br>3.8 1333-74-0<br>96.2 7440-37-1                             | GAS<br>(MIXTURE)    | MAX         280 CUFT           AVG         280 CUFT           LC         280 CUFT           WST         0 CUFT           DAYS         365           CUR         N/A | CYLINDER                 | - 1 | s: > AMB<br>ap: AMB | PRESSURE<br>RELEASE                   |
| 5.1: OXIDIZING<br>SUBSTANCES                  | FOPD R&D | Hydrogen Peroxide<br>30%<br>(HYDROGEN<br>PEROXIDE 30%)<br>CAS#: 7722-84-1 | hydrogen<br>peroxide<br>water             | <u>ehs</u><br>Y<br>N | %         cas           30         7722-84-1           70         7732-18-5 | LIQUID<br>(MIXTURE) | MAX 8 GAL<br>AVG 8 GAL<br>LC 1 GAL<br>WST 0 GAL<br>DAYS 365<br>CUR N/A                                                                                              | PLASTIC<br>BOTTLE OR JUG |     | 25: АМВ<br>1р: АМВ  | FIRE, ACUTE<br>HEALTH                 |
| 3: FLAMMABLE<br>AND<br>COMBUSTIBLE<br>LIQUIDS | FOPD R&D | Isopropyl Alcohol<br>(ISOPROPYL<br>ALCOHOL)<br>CAS#: 67-63-0              | <u>name</u><br>isopropyl alcohol          | <u>ehs</u><br>N      | <u>% cas</u><br>100 67-63-0                                                 | LIQUID<br>(PURE)    | MAX 6 GAL<br>AVG 6 GAL<br>LC 1 GAL<br>WST 0 GAL<br>DAYS 365<br>CUR N/A                                                                                              | PLASTIC<br>BOTTLE OR JUG | -   | zs: АМВ<br>пр: АМВ  | FIRE                                  |

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| Date: 9/19/                                   | 2011     |                                                                                 |                                                                                                              |                      |                                  |                                                          |                     |                                        |                                                            | Page                     | : 37 of 40              |                                             |
|-----------------------------------------------|----------|---------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------|----------------------|----------------------------------|----------------------------------------------------------|---------------------|----------------------------------------|------------------------------------------------------------|--------------------------|-------------------------|---------------------------------------------|
| Business Na                                   | ame: AVA | GO TECHNOL                                                                      | OGIES                                                                                                        |                      |                                  | MAP IL                                                   | e: Buildin          | g 90 l                                 | Jpper L                                                    | evel Facil               | lity ID#:               |                                             |
| DOT<br>HAZ CLASS                              | Location | CHEMICAL NAME<br>(COMMON NAME)                                                  | HAZARDOU                                                                                                     | S COM                | 1PON                             | ENTS                                                     | PHYSICAL<br>STATE   | QUAN                                   | TITIES                                                     | STORAGE<br>CONTAINERS    | STORAGE<br>CODES        | SARA<br>CATEGORIE                           |
| 3: Flammable<br>and<br>Combustible<br>Liquids | FOPD R&D | Acetone<br>(ACETONE)<br>CAS#: 67-64-1                                           | <u>name</u><br>acetone                                                                                       | <u>ehs</u><br>N      | <u>%</u><br>100                  | <u>cas</u><br>67-64-1                                    | Liquid<br>(pure)    | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 6 GAL<br>6 GAL<br>1 GAL<br>0 GAL<br>365<br>N/A             | PLASTIC<br>BOTTLE OR JUG | pres: AMB<br>temp: AMB  | FIRE                                        |
| 2.2:<br>NONFLAMMABL<br>E GASES                | FOPD R&D | Argon<br>(ARGON)<br>CAS#: 7440-37-1                                             | <u>name</u><br>argon                                                                                         | <u>ehs</u><br>N      | <u>%</u><br>100                  | <u>cas</u><br>7440-37-1                                  | GAS<br>(PURE)       | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 280 CUFT<br>280 CUFT<br>280 CUFT<br>0 CUFT<br>365<br>N/A   | CYLINDER                 | pres: >AMB<br>temp: AMB | PRESSURE<br>RELEASE                         |
| 2.2:<br>NONFLAMMABL<br>E GASES                | FOPD R&D | Carbon Dioxide<br>()<br>CAS#: 124-38-9                                          | <u>name</u><br>carbon dioxide                                                                                | <u>ehs</u><br>N      | <u>%</u><br>100                  | <u>cas</u><br>124-38-9                                   | GAS<br>(PURE)       | AVG<br>LC<br>WST                       | 24 LBS<br>24 LBS<br>24 LBS<br>0 LBS<br>365<br>N/A          | CYLINDER                 | pres: >AMB<br>temp: AMB | PRESSURE<br>RELEASE                         |
| D: MISC<br>HAZARDOUS<br>MATERIAL              | FOPD R&D | Envi-ro-tech 1676<br>Defluxor<br>(Envi-ro-tech 1676<br>Defluxer)<br>CAS#: NONE  | name<br>dichlorofluoroeth<br>ane<br>ethyl-s(-)-<br>hydroxypropionat<br>gethanol<br>chlorodifluoromet<br>hane | n<br>n               | <u>%</u><br>85<br>2<br>3.8<br>16 | <u>cas</u><br>1717-00-6<br>97-64-3<br>67-56-1<br>75-45-6 | LIQUID<br>(MIXTURE) | AVG<br>LC<br>WST                       | 1 GAL<br>1 GAL<br>1 GAL<br>0 GAL<br>365<br>N/A             | PLASTIC<br>BOTTLE OR JUG | pres: AMB<br>temp: AMB  | FIRE                                        |
| 3: CORROSIVES                                 | FOPD R&D | Formaldehyde 37% in<br>water<br>(Formaldehyde 37%<br>in water)<br>CAS#: 50-00-0 | name<br>formaldehyde<br>water                                                                                | <u>ehs</u><br>N<br>N | <u>%</u><br>37<br>63             | <u>cas</u><br>50-00-0<br>7732-18-5                       | LIQUID<br>(MIXTURE) | AVG<br>LC<br>WST                       | 0.132 GAL<br>0.132 GAL<br>0.132 GAL<br>0 GAL<br>365<br>N/A | PLASTIC<br>BOTTLE OR JUG | pres: AMB<br>temp: AMB  | FIRE, ACUTE<br>HEALTH,<br>CHRONIC<br>HEALTH |

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| Date: <b>9/19</b> /<br>Business Na           |          | GO TECHNOL                                             | OGIES                                 |                      | MAP ID                                     | : Buildin           | g 90 L                   | lpper L                                                  | . 0                      |   | of 40<br>D#:        |                                             |
|----------------------------------------------|----------|--------------------------------------------------------|---------------------------------------|----------------------|--------------------------------------------|---------------------|--------------------------|----------------------------------------------------------|--------------------------|---|---------------------|---------------------------------------------|
| DOT<br>HAZ CLASS                             | Location | CHEMICAL NAME<br>(COMMON NAME)                         | HAZARDOUS                             | СОМІ                 | PONENTS                                    | PHYSICAL<br>STATE   | QUAN                     | TITIES                                                   | STORAGE<br>CONTAINERS    | S | ORAGE<br>CODES      | SARA<br>CATEGORIES                          |
| 2.2:<br>NONFLAMMABL<br>E GASES               | FOPD R&D | Oxygen<br>(OXYGEN)<br>CAS#: 7782-44-7                  |                                       | <u>ehs</u><br>N      | <u>% cas</u><br>100 7782-44-7              | gas<br>(Pure)       | AVG<br>LC<br>WST<br>DAYS | 249 CUFT<br>249 CUFT<br>249 CUFT<br>0 CUFT<br>365<br>N/A | CYLINDER                 | • | s: > AMB<br>ap: AMB | PRESSURE<br>RELEASE                         |
| .2:<br>IONFLAMMABL<br>: GASES                | FOPD R&D | Perfluoropropane<br>()<br>CAS#: 76-19-7                | <u>name</u><br>perfluoropropane       |                      | <u>% cas</u><br>100 76-19-7                | GAS<br>(PURE)       | AVG<br>LC<br>WST<br>DAYS | 100 LBS<br>100 LBS<br>100 LBS<br>0 LBS<br>365<br>N/A     | CYLINDER                 | - | s: > AMB<br>ap: AMB | PRESSURE<br>RELEASE                         |
| .2:<br>IONFLAMMABL<br>GASES                  | FOPD R&D | Tetrafluoromethane<br>(Halocarbon 14)<br>CAS#: 75-73-0 | <u>hame</u><br>tetrafluoromethan<br>e | <u>ehs</u><br>N      | <u>% cas</u><br>100 75-73-0                | GAS<br>(PURE)       | AVG<br>LC<br>WST<br>DAYS | 200 CUFT<br>200 CUFT<br>200 CUFT<br>0 CUFT<br>365<br>N/A | CYLINDER                 |   | s: > AMB<br>ap: AMB | PRESSURE<br>RELEASE                         |
| 3: FLAMMABLE<br>AND<br>COMBUSTIBLE<br>JQUIDS | FOPD R&D | Uresolve Plus<br>(Uresolve Plus)<br>CAS#: NONE         | ethylene glycol<br>monomethyl         | <u>ehs</u><br>N<br>N | <u>% cas</u><br>80 109-86-4<br>4 1310-58-3 | LIQUID<br>(MIXTURE) | LC<br>WST<br>DAYS        | 1 GAL<br>1 GAL<br>1 GAL<br>0 GAL<br>365<br>N/A           | PLASTIC<br>BOTTLE OR JUG | - | s: AMB<br>up: AMB   | FIRE, ACUTE<br>HEALTH,<br>CHRONIC<br>HEALTH |
|                                              |          |                                                        |                                       |                      |                                            |                     |                          |                                                          |                          |   |                     |                                             |

| Date: 9/19/<br>Business No                    |          | GO TECHNOL                                                                               | OGIES                                                                                   |                      |                           | MAP ID                                         | : Buildin           | g 90 Uµ                          | oper Le                                              | 0                                                          | : 39 of 40<br>lity ID#: |                                             |
|-----------------------------------------------|----------|------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|----------------------|---------------------------|------------------------------------------------|---------------------|----------------------------------|------------------------------------------------------|------------------------------------------------------------|-------------------------|---------------------------------------------|
| DOT<br>HAZ CLASS                              | Location | CHEMICAL NAME<br>(COMMON NAME)                                                           | HAZARDOU                                                                                | S COM                | IPON                      | ENTS                                           | PHYSICAL<br>STATE   | QUANT                            | ITIES                                                | STORAGE<br>CONTAINERS                                      | STORAGE<br>CODES        | SARA<br>CATEGORIE                           |
| 6.1: TOXIC<br>SUBSTANCES                      | FOPD R&D | Jasco Speedomatic<br>Paint Remover<br>(Jasco Speedomatic<br>Paint Remover)<br>CAS#: NONE | <u>methylene</u><br>chloride<br>methyl alcohol<br>aliphatic<br>petroleum<br>distillates | <u>ehs</u><br>N<br>N | <u>%</u><br>81<br>15<br>4 | <u>cas</u><br>75-09-2<br>67-56-1<br>64742-96-7 | LIQUID<br>(MIXTURE) | AVG 0<br>LC 0<br>WST 0<br>DAYS 3 | .125 GAL<br>.125 GAL<br>.125 GAL<br>GAL<br>65<br>I/A | PLASTIC<br>BOTTLE OR JUG                                   | pres: AMB<br>temp: AMB  | FIRE, ACUTE<br>HEALTH,<br>CHRONIC<br>HEALTH |
| 3: FLAMMABLE<br>AND<br>COMBUSTIBLE<br>LIQUIDS | FOPD R&D | KESTER 2331-ZX<br>ORGANIC FLUX<br>(KESTER 2331-ZX<br>ORGANIC FLUX)<br>CAS#: NONE         | <u>name</u><br>2-propanol<br>glycerol                                                   | <u>ehs</u><br>N<br>N | <u>%</u><br>64<br>15      | <u>cas</u><br>78-91-1<br>56-81-5               | Liquid<br>(Mixture) | AVG 1<br>LC 1<br>WST 0<br>DAYS 3 | GAL<br>GAL<br>GAL<br>GAL<br>65<br>I/A                | PLASTIC<br>BOTTLE OR JUG                                   | pres: AMB<br>temp: AMB  | FIRE, ACUTE<br>HEALTH,<br>CHRONIC<br>HEALTH |
| 3: FLAMMABLE<br>AND<br>COMBUSTIBLE<br>LIQUIDS | FOPD R&D | Methanol<br>(METHANOL)<br>CAS#: 67-56-1                                                  | <u>hame</u><br>methanol                                                                 | <u>ehs</u><br>N      | <u>%</u><br>100           | <u>cas</u><br>67-56-1                          | LIQUID<br>(PURE)    | LC 3<br>WST 0<br>DAYS 3          | GAL<br>GAL<br>GAL<br>GAL<br>65                       | PLASTIC<br>BOTTLE OR JUG                                   | pres: AMB<br>temp: AMB  | FIRE, ACUTE<br>HEALTH                       |
| NONE                                          | FOPD R&D | Miscellaneous<br>Epoxies<br>(Miscellaneous<br>Epoxies)<br>CAS#: NONE                     | <u>name</u><br>miscellaneous<br>epoxies                                                 | <u>ehs</u><br>N      | <u>%</u><br>100           | <u>cas</u>                                     | LIQUID<br>(PURE)    | AVG 5<br>LC 0<br>WST 0<br>DAYS 3 | GAL<br>GAL<br>.25 GAL<br>GAL<br>65<br>I/A            | PLASTIC<br>BOTTLE OR JUG                                   | pres: AMB<br>temp: AMB  | FIRE, ACUTE<br>HEALTH,<br>CHRONIC<br>HEALTH |
| 3: FLAMMABLE<br>AND<br>COMBUSTIBLE<br>LIQUIDS | FOPD R&D | Organo-Flux 3355-11<br>(Organo-Flux 3355-<br>11)<br>CAS#: NONE                           | <u>name</u><br>2-propanol<br>hexylene glycol<br>water                                   | <u>ehs</u><br>N      | <u>%</u><br>45<br>3<br>52 | <u>cas</u><br>67-63-0<br>107-41-5<br>7732-18-5 | Liquid<br>(Mixture) | LC 5<br>WST 0<br>DAYS 3          | GAL<br>GAL<br>GAL<br>GAL<br>65<br>I/A                | PLASTIC /<br>NONMETALLIC<br>DRUM, PLASTIC<br>BOTTLE OR JUG | pres: AMB<br>temp: AMB  | FIRE, ACUTE<br>HEALTH,<br>CHRONIC<br>HEALTH |

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## **Emergency Response/Contingency Plan**

#### (Hazardous Materials Business Plan Module)

Authority Cited: HSC§ 25504(b); 19 CCR §2731; 22 CCR §66262.34(a)(4)

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All facilities that handle hazardous materials in HMBP quantities must have a written emergency response plan. In addition, facilities that generate 1,000 kilograms or more of hazardous waste (or more than 1 kilogram of acutely hazardous waste or 100 kilograms of zbris resulting from the spill of an acutely hazardous waste) per month, or accumulate more than 6,000 kilograms of hazardous waste on-site at any one time, must prepare a hazardous waste contingency plan. Because the requirements are similar, they have been combined in a single document, provided below, for your convenience. This plan is a required module of the Hazardous Materials Business Plan (HMBP). If you already have a plan that meets these requirements, you should not complete the blank plan, below, but you must include a copy of your existing plan as part of your HMBP.

This site-specific Emergency Response/Contingency Plan is the facility's plan for dealing with emergencies and shall be implemented immediately whenever there is a fire, explosion, or release of hazardous materials that could threaten human health and/or the environment. At least one copy of the plan shall be maintained at the facility for use in the event of an emergency and for inspection by the local agency. A copy of the plan and any revisions must be provided to any contractor, hospital, or agency with whom special (i.e., contractual) emergency services arrangements have been made (see section 3, below).

#### 1. Evacuation Plan:

- a. The following alarm signal(s) will be used to begin evacuation of the facility (check all that apply):
  - Bells; Horns/Sirens; Verbal (i.e., shouting); Other (specify P.A. As Headed
- b. 🔀 Evacuation map is prominently displayed throughout the facility.
- Note: A properly completed HMBP Site Plan satisfies contingency plan map requirements. This drawing (or any other drawing that shows primary and alternate evacuation routes, emergency exits, and primary and alternate staging areas) must be prominently posted throughout the facility in locations where it will be visible to employees and visitors.
- 2. a. Emergency Contacts\*:

|   |    | Fire/Police/Ambulance                                                                                                              | Phone No.: <b>911</b>                               |
|---|----|------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------|
|   |    | State Office of Emergency Services                                                                                                 | Phone No.: (800) 852-7550                           |
|   | b. | Post-Incident Contacts*:                                                                                                           | 918-3400                                            |
| / |    | Certified Unified Program Agency (CUPA)                                                                                            | Phone No.: (408) 7 94                               |
|   |    | -Eire-Department Hazardous Materials Program                                                                                       | Phone No.: (403) 911-918-3400                       |
|   |    | California EPA Department of Toxic Substances Control                                                                              | Phone No.: (800) 728-6942                           |
|   |    | Cal-OSHA Division of Occupational Safety and Health                                                                                | Phone No.: (50)794-252                              |
|   |    | Air Quality Management District                                                                                                    | Phone No.: (415)749-6000                            |
|   |    | Regional Water Quality Control Board<br>* Phone numbers for agencies in Unidocs' Member Agency geographic jurisdictions are availa | Phone No.: (408)265-2600<br>ble at www.unidocs.org. |
|   | c. | Emergency Resources:                                                                                                               | ·.                                                  |
|   |    | Poison Control Center*                                                                                                             | Phone No.: (800) 222-1222                           |
|   |    | Nearest Hospital: Name: O'Conror Hospital                                                                                          | Phone No.: (408) 947 2500                           |
|   |    | Address: 2105 Forest Ape.                                                                                                          | City: San Jose                                      |
|   |    |                                                                                                                                    | •                                                   |

If you have made special (i.e., contractual) arrangements with any police department, fire department, hospital, contractor, or State or local emergency response team to coordinate emergency services, describe those arrangements below:

| Alternate Hospital: Regional Medical Center of San | Jose |
|----------------------------------------------------|------|
| 408-259-5000                                       |      |
| 225 N. Jackson Ave.                                |      |
| San Jose                                           |      |
|                                                    |      |

#### **Emergency Coordinator Responsibilities:**

Whenever there is an imminent or actual emergency situation such as a explosion, fire, or release, the emergency coordinator (or his/her designee when the emergency coordinator is on call) shall:

- i. Identify the character, exact source, amount, and areal extent of any released hazardous materials.
- ii. Assess possible hazards to human health or the environment that may result from the explosion, fire, or release. This assessment must consider both direct and indirect effects (e.g., the effects of any toxic, irritating, or asphyxiating gases that are generated, the effects of any hazardous surface water run-off from water or chemical agents used to control fire, etc.).
- iii. Activate internal facility alarms or communications systems, where applicable, to notify all facility personnel.
- iv. Notify appropriate local authorities (i.e., call 911).
- v. Notify the State Office of Emergency Services at 1-800-852-7550.
- vi. Monitor for leaks, pressure build-up, gas generation, or ruptures in valves, pipes, or other equipment shut down in response to the incident.
- vii. Take all reasonable measures necessary to ensure that fires, explosions, and releases do not occur, recur, or spread to other hazardous materials at the facility.
- b. Before facility operations are resumed in areas of the facility affected by the incident, the emergency coordinator shall:
  - i. Provide for proper storage and disposal of recovered waste, contaminated soil or surface water, or any other material that results from a explosion, fire, or release at the facility.
  - ii. Ensure that no material that is incompatible with the released material is transferred, stored, or disposed of in areas of the facility affected by the incident until cleanup procedures are completed.
  - iii. Ensure that all emergency equipment is cleaned, fit for its intended use, and available for use.
  - iv. Notify the California Environmental Protection Agency's Department of Toxic Substances Control, the local CUPA, and the local fire department's hazardous materials program that the facility is in compliance with requirements b-i and b-ii, above.

#### Responsibilities of Other Personnel: N/P

On a separate page, list any emergency response functions not covered in the "Emergency Coordinator Responsibilities" section, above. Next to each function, list the job title or name of each person responsible for performing the function. Number the page(s) appropriately.

#### **5.** Post-Incident Reporting/Recording:

- the time, date, and details of any hazardous materials incident that requires implementation of this plan shall be noted in the facility's operating record.

Within 15 days of any hazardous materials emergency incident or threatened hazardous materials emergency incident that triggers implementation of this plan, a written Emergency Incident Report, including, but not limited to a description of the incident and the facility's response to the incident, must be submitted to the California Environmental Protection Agency's Department of Toxic Substances Control, the local CUPA, and the local fire department's hazardous materials program. The report shall include:

- a. Name, address, and telephone number of the facility's owner/operator;
- b. Name, address, and telephone number of the facility;
- c. Date, time, and type of incident (e.g., fire, explosion, etc.);
- d. Name and quantity of material(s) involved;
- e. The extent of injuries, if any;
- f. An assessment of actual or potential hazards to human health or the environment, where this is applicable;
- g. Estimated quantity and disposition of recovered material that resulted from the incident;
- h. Cause(es) of the incident;
- i. Actions taken in response to the incident;
- j. Administrative or engineering controls designed to prevent such incidents in the future.

### 6. Earthquake Vulnerability: [19 CCR §2731(c)]

As an attachment to this plan, you must identify any areas of the facility and mechanical or other systems that require immediate inspection or isolation because of their vulnerability to earthquake-related ground motion.

#### 7. Hazard Mitigation/Prevention/Abatement [19 CCR §2731(e)] -

As an attachment to this plan, you must include procedures that provide for mitigation, prevention, or abatement of hazards to persons, operty, or the environment. These procedures must be scaled appropriately for the size and nature of the business, the nature of the amage potential of the hazardous materials handled, and the proximity of the business to residential areas and other populations.

Page

of

#### Emergency Response/Contingency Plan (Hazardous Materials Business Plan Module)

#### 8. Emergency Equipment:

2 CCR §66265.52(e) [as referenced by 22 CCR §66262.34(a)(4)] requires that emergency equipment at the facility be listed. Jompletion of the following Emergency Equipment Inventory Table meets this requirement.

| 1.                | 2.                                          | 3.           | 4.                                    |
|-------------------|---------------------------------------------|--------------|---------------------------------------|
| Equipment         | Equipment                                   |              |                                       |
| Category          | Туре                                        | Locations *  | Description**                         |
| Personal          | Cartridge Respirators                       |              |                                       |
| Protective        | Chemical Monitoring Equipment (describe)    |              |                                       |
| Equipment,        | Chemical Protective Aprons/Coats            | Test Lab     | Aprovs for cham usage                 |
| Safety            | Chemical Protective Boots                   |              |                                       |
| Equipment,        | Chemical Protective Gloves                  | Test bab     | For Mdividual usage                   |
| and               | Chemical Protective Suits (describe)        | 1-21 18-2    |                                       |
| First Aid         | ☐ Face Shields .                            | 1            |                                       |
| Equipment         | First Aid Kits/Stations (describe)          | SDE, FAC, LO | BBY - Minor first And freatment       |
|                   | Hard Hats                                   |              | TOST Print Treat Ment                 |
|                   | A Plumbed Eye Wash Stations                 | SEE MAPS     | Eve/Shover Coubo                      |
|                   | Portable Eye Wash Kits (i.e., bottle type)  | - AE 14(1    |                                       |
|                   | Respirator Cartridges (describe)            |              |                                       |
|                   | Safety Glasses/Splash Goggles               | AULABS       |                                       |
|                   |                                             | SEEMAPS      | Enel shower combo                     |
|                   | Safety Showers                              | scentre      | Epe shower combo                      |
|                   | Self-Contained Breathing Apparatuses (SCBA) |              |                                       |
| I                 | Other (describe)                            |              | Contribution - O valous               |
| ire               | Automatic Fire Sprinkler Systems            |              | sprinkler system                      |
| ••••xtinguishing  | Fire Alarm Boxes/Stations                   |              |                                       |
| ystems            | Fire Extinguisher Systems (describe)        | SEE MAPS     | Holon - pantamed by Landlord          |
|                   | Fire Extinguishers (describe)               | SEE MAP      | S ABC POWDER ? Halon                  |
|                   | Other (describe)                            |              |                                       |
| Spill             | Absorbents (describe)                       | CAGE 33      |                                       |
| Control           | Berms/Dikes (describe)                      | CAGE 33      |                                       |
| Equipment         | Decontamination Equipment (describe)        |              |                                       |
| and               | Emergency Tanks (describe)                  |              |                                       |
| Decontamination   | X Exhaust Hoods                             | LABS         | perd? Solvent hoods                   |
| Equipment         | Gas Cylinder Leak Repair Kits (describe)    |              |                                       |
|                   | Neutralizers (describe)                     | Test Lab     | HF Neofralizer                        |
|                   | 🔀 Overpack Drums                            | 90 SY        | •                                     |
|                   | Sumps (describe)                            |              |                                       |
|                   | Other (describe)                            |              |                                       |
| Communications    | Chemical Alarms (describe)                  | Testlab      | Enc, gas detection                    |
| and               | Intercoms/ PA Systems                       | -            |                                       |
| Alarm             | V Portable Radios                           | Matht.       |                                       |
| Systems           | 🔀 Telephones                                |              | ·                                     |
| -                 | Tank Leak Detection Systems                 |              |                                       |
|                   | Other (describe)                            |              |                                       |
| Additional        |                                             |              |                                       |
| Equipment         | $\square$                                   |              |                                       |
| (Use Additional   |                                             |              | · · · · · · · · · · · · · · · · · · · |
| Pages if Needed.) |                                             |              |                                       |
| · ugeo y needed.y |                                             |              |                                       |
|                   |                                             |              |                                       |
|                   |                                             | LL           |                                       |

## **EMERGENCY EQUIPMENT INVENTORY TABLE**

\* Use the map and grid numbers from the Storage Map prepared earlier for your HMBP.

\*\* Describe the equipment and its capabilities. If applicable, specify any testing/maintenance procedures/intervals. Attach additional pages, numbered appropriately, if needed.

Page of



## WPS Contacts Call List

| Name           | Title            | Home         | Cell         | Nextel       | Desk     |
|----------------|------------------|--------------|--------------|--------------|----------|
| Phil Lopez     | Avago Site Mgr.  | 408-264-6421 | 408-590-5164 | 116*12311*37 | 435-4058 |
| Fred Boettcher | ABM Tech. Maint. | 408-489-4578 | 408-590-5164 | 117*25808*3  | 435-6321 |
| David Knoester | ABM Gen. Maint.  | -            | 209-769-6967 | 117*25808*7  | 435-6323 |

Avago WPS Call List Created by: Phil Lopez Updated: 9/21/11

### Employee Training Plan (Hazardous Materials Business Plan Module)

Authority Cited: HSC, Section 25504(c); 22 CCR §66262.34(a)(4)

'll facilities that handle hazardous materials in HMBP quantities must have a written employee training plan. his plan is a required module of the Hazardous Materials Business Plan (HMBP). A blank plan has been provided below for you to complete and submit if you do not already have such a plan. If you already have a brief written description of your training program that addresses all subjects covered below, you are not required to complete the blank plan, below, but you must include a copy of your existing document as part of your HMBP.

Check all boxes that apply. [Note: Items marked with an asterisk (\*) are required.]:

### 1. **Personnel** are trained in the following procedures:

| X | Internal alarm/notification * MEO                                          | -                         |
|---|----------------------------------------------------------------------------|---------------------------|
| X | Evacuation/re-entry procedures & assembly point locations* HE6             |                           |
| X | Emergency incident reporting 2222 / HEO CHEMICAL SAFETY                    |                           |
| X | External emergency response organization notification 2222 THEN TO 911 140 | > CHEMICAL SAFETY         |
|   |                                                                            |                           |
|   | Facility evacuation drills, that are conducted at least (specify): ALLALA  | (e.g., "Quarterly", etc.) |

#### 2. Chemical Handlers are additionally trained in the following:

|     | Safe methods for handling and storage of hazardous materials * OUTSOUPCED CHEMICAL SAFETY                                    |
|-----|------------------------------------------------------------------------------------------------------------------------------|
| ]   | Location(s) and proper use of fire and spill control equipment                                                               |
| i v | Spill procedures/emergency procedures                                                                                        |
| 1   | Proper use of personal protective equipment *                                                                                |
| 12  | Specific hazard(s) of each chemical to which they may be exposed, including routes of exposure (i.e., inhalation, ingestion, |
|     | absorption) *                                                                                                                |
|     | Hazardous Waste Handlers/Managers are trained in all aspects of hazardous waste management specific to their job duties      |
| 1   | (e.g., container accumulation time requirements, labeling requirements, storage area inspection requirements, manifesting    |
|     | requirements, etc.) * OUTSOURCED                                                                                             |

### 3. Emergency Response Team Members are capable of and engaged in the following:

## Complete this section only if you have an in-house emergency response team MA

|         | Personnel rescue procedures                                        |                           |
|---------|--------------------------------------------------------------------|---------------------------|
|         | Shutdown of operations                                             |                           |
| $+\Box$ | Liaison with responding agencies                                   |                           |
|         | Use, maintenance, and replacement of emergency response equipment  |                           |
|         | Refresher training, which is provided at least annually *          |                           |
|         | Emergency response drills, which are conducted at least (specify): | (e.g., "Quarterly", etc.) |

#### Record Keeping (Hazardous Materials Business Plan Module)

Page of

Il facilities that handle hazardous materials must maintain records associated with their management. A ummary of your record keeping procedures is a required module of the Unidocs Hazardous Materials Business Plan (HMBP). A blank summary has been provided below for you to complete and submit if you do not already have such a document. If you already have a brief written description of your hazardous materials record keeping systems that addresses all subjects covered below, you are not required to complete this page, but you must include a copy of your existing document as part of your HMBP.

Check all boxes that apply. The following records are maintained at the facility. [Note: Items marked with an asterisk (\*) are required.]:

Current employees' training records (to be retained until closure of the facility) \*

Former employees' training records (to be retained at least three years after termination of employment) \*

Training Program(s) (i.e., written description of introductory and continuing training) \*

Current copy of this Emergency Response/Contingency Plan \*

Record of recordable/reportable hazardous material/waste releases \*

Record of hazardous material/waste storage area inspections \*

Record of hazardous waste tank daily inspections \*

Description and documentation of facility emergency response drills EVAC DRIUS

Note: The above list of records does not necessarily identify every type of record required to be maintained by the facility.

# *Note: The following section applies where local agencies require facility owners/operators to perform and document routine facility self-inspections:*

**.** copy of the Inspection Check Sheet(s) or Log(s) used in conjunction with required routine selfinspections of your facility must be submitted with your HMBP. [Exception: Unidocs provides a Hazardous Materials/Waste Storage Area Inspection Form that you may use if you do not already have your own form. If you use the Unidocs form (available at www.unidocs.org), you do not need to attach a copy.]

Check the appropriate box:

We will use the Unidocs "Hazardous Materials/Waste Storage Area Inspection Form" to document inspections.
 We will use our own documents to record inspections. (A blank copy of each document used must be attached to this HMBP.)

## **County of Santa Clara**

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Department of Environmental Health

Hazardous Materials Compliance Division (HMCD) 1555 Berger Drive, Suite 300, San Jose, CA 95112-2716

Phone (408) 918-3400 Fax (408) 280-6479 www.EHinfo.org/hazmat

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| Facility ID:   | FA0258869          |
|----------------|--------------------|
| Facility Name: | AVAGO TECHNOLOGIES |
| Site Address:  | 350 W TRIMBLE RD   |
|                | SAN JOSE, CA 95131 |

HW Generator Type: >=1,000 KG/MO. Consent to Inspect Granted By: PHIL LOPEZ, FACILITIES MANAGER

## Summary of Violations & Notice to Comply

Program: PR0379180 - HAZARDOUS WASTE GENERATOR - LQ07 Inspection Type: ROUTINE INSPECTION-COMPLETED

| vc   | Class | Violation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Corrective Actions Taken |
|------|-------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|
| G020 | м     | MARKING OF HAZARDOUS WASTE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                          |
|      |       | Facility failed to properly mark a hazardous waste tank and/or container.<br>THE FOLLOWING CONTAINERS WERE OBSERVED TO BE MISSING THE<br>HAZARDOUS WASTE MARKINGS:<br>FOPD TEST LAB ROOM<br>=1 G CONTAINER OF PHOTORESIST-NO MARKINGS<br>=2 X 5 G RED CONTAINERS MARKED AS 1-27-11 BUT ACCORDING TO PHILIP THE<br>CONTAINERS HAD BEEN EMPTIED BUT THE START DATE HAD NOT BEEN<br>UPDATED.                                                                                                                                                                                                                                                                                                                    |                          |
|      |       | WSB PACKAGING LAB<br>=5 G CONTAINER OF SOLVENT-NO UPDATED START DATE<br>-5 G RED CONTAINER-NO UPDATED START DATE<br>Mark all hazardous waste tanks with the words "HAZARDOUS WASTE" and the<br>accumulation start date. Mark all hazardous waste containers and portable tanks with the<br>words "HAZARDOUS WASTE;" the accumulation start date; the name and address of the<br>generator; and the composition, physical state, and hazardous properties of the waste.<br>Additionally, mark used oil containers, aboveground tanks, and fill pipes for underground<br>tanks with the words "USED OIL." [CCR 66262.34(f), 66279.21(b)]                                                                       |                          |
| G110 | м     | MAINTENANCE AND OPERATION OF FACILITY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                          |
|      |       | Facility is not maintained or operated in a manner to minimize the possibility of a fire,<br>explosion, or any unplanned release of hazardous waste to air, soil, or surface water that<br>could threaten human health or the environment.<br><b>OBSERVED SOLDER DEBRIS ON THE FLOOR AND TRAPPED IN THE TRIDENT</b><br><b>MACHINE THAT WERE NOT BEING MANAGED ACCORDINGLY.</b><br>Maintain and operate the facility in a manner that minimizes potential emergencies and<br>unplanned releases. [CCR 66265.31, CFR 265.31]                                                                                                                                                                                   |                          |
| G112 | М     | EMERGENCY EQUIPMENT TESTING AND MAINTENANCE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                          |
|      |       | Facility failed to maintain required emergency response equipment.<br><i>THE EYEWASH STATION IN THE WSB PACKAGING LAB HAS NOT BEEN TESTED</i><br><i>OR IMAINTAINED.</i><br>Test and maintain all required facility communications and alarm systems, fire protection<br>equipment, spill control equipment, and decontamination equipment to assure its proper<br>operation. [CCR 66265.33, CFR 265.33]                                                                                                                                                                                                                                                                                                      |                          |
| G443 | м     | CONTAINER MARKING: UNIVERSAL WASTE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                          |
|      |       | Facility failed to properly label Universal Waste.<br><b>OBSERVED UNIVERSAL WASTE NOT IMARKED AS REQUIRED.</b><br>Clearly identify the waste type on all Universal Wastes or Universal Waste containers. The<br>label wording must match that listed in the law or regulation for the type of Universal Waste.<br>The labeling requirements are summarized in the Universal Waste Management<br>Requirements document (HMCD-108) available at www.ehinfo.org/hazmat. [Note: Areas that<br>have clear boundaries and are designated for the storage of electronic devices or CRT<br>materials may be labeled in lieu of labeling individual wastes or waste containers.] [CCR<br>66273.34 HSC 25201.16(f)(6)] |                          |



Inspection Date: 8/23/2011

☑ RCRA LQG □ Pictures Taken □ Samples Taken





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 Facility ID:
 FA0258869

 Facility Name:
 AVAGO TECHNOLOGIES

 Site Address:
 350 W TRIMBLE RD

 SAN JOSE, CA 95131

Inspection Date: 8/23/2011

#### Comments:

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INSPECTION COMMENCED ON AUGUST 3, 2011 AND CONCLUDED TODAY.

NOTE:

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1. BEGIN COLLECTING THE SOLDER FROM THE SOLDERING STATIONS AND THE TRIDENT MACHINE AND MANAGE THEM AS HAZARDOUS WASTE.

2. ENSURE THAT THE ACCUMULATION START DATE IS THE DATE OF GENERATION NOT THE DATE OF TRANSFER.

3. INCLUDE THE EMERGENCY CONTACT LIST AS PART OF THE CONTINGENCY PLAN.

4. INSPECTION RECORDS WERE UNAVAILABLE DURING THE INSPECTION, FORWARD A COPY OF THE MOST RECENT TRAINING RECORDS.

#### Program: PR0379179 - HAZ WASTE TREATMENT-PBR - 2261

Inspection Type: ROUTINE INSPECTION-COMPLETED

| vc   | Class | Violation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Corrective Actions Taken |
|------|-------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|
| G343 | М     | TANK INSPECTIONS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                          |
|      |       | <ul> <li>Facility could not demonstrate that hazardous waste tanks are being inspected daily as required.</li> <li>FACILITY FAILED TO CONDUCT DAILY INSPECTIONS OF THE WASTE TREATMENT TANKS.</li> <li>Perform and document hazardous waste tank inspections daily. Inspections must cover: 1) overfill/spill control equipment; 2) aboveground portions of the tank system; 3) data gathered from monitoring and leak detection equipment; 4) construction materials and the area immediately surrounding the tank system; and 5) the level of waste in the tank, for uncovered tanks. [CCR 66265.195]</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                          |
| T407 |       | WASTE ANALYSIS PLAN: PBR                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                          |
|      |       | Facility failed to prepare or maintain on-site a complete written waste analysis plan for hazardous wastes treated on-site in a Permit by Rule treatment unit and/or maintain waste analysis records to document that they implemented the plan.<br><b>FACILITY FAILED TO PREPARE A WASTE ANALYSIS PLAN.</b><br>Prepare and implement a written waste analysis plan that characterizes the hazardous wastes treated on-site in the treatment unit. The plan must contain: 1) the parameters for which each waste will be analyzed and the rationale for selection of these parameter; 2) the test methods to be used to test for the above parameters; 3) detailed sampling methods to be used to obtain a representative sample; and 4) the frequency with which analysis will be reviewed or repeated. Perform the analysis described in the plan and repeat it, as necessary, to ensure that it is accurate and up to date. Maintain on-site a copy of the waste analysis plan and waste analysis records until closure of the facility. [CCR 66265.13, 66265.73]                                                                                         | · · ·                    |
| T408 |       | INSPECTION SCHEDULE AND LOG: PBR                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                          |
|      |       | Facility failed to prepare a written inspection schedule for the Permit by Rule treatment unit, follow the schedule, maintain inspection records on-site, and/or remedy a problem revealed during an inspection.<br><b>FACILITY FAILED TO PREPARE AN INSPECTION SCHEDULE AND LOG.</b><br>Prepare and maintain on-site a written schedule for inspecting all monitoring equipment, safety and emergency equipment, security devices, and operating/structural equipment that are important to preventing, detecting, and/or responding to hazards posed by the treatment unit. The schedule must indicate the types of problems to be looked for and the frequency of inspections. Conduct inspections in accordance with the schedule and remedy all problems identified during the inspections to prevent environmental or human health hazards. Record inspections in a log that includes the date and time of inspection, the name of the inspector, observations made, and the date and nature of any repairs or remedial actions taken. Keep inspection records on-site for at least 3 years from the date of inspection. [CCR 66265.15, 67450.3(c)(8)] |                          |

Facility ID: FA0258869 Facility Name: AVAGO TECHNOLOGIES Site Address: 350 W TRIMBLE RD SAN JOSE, CA 95131

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Inspection Date: 8/23/2011

#### Program: PR0397043 - HAZMAT BUSINESS PLAN - 2501 Inspection Type: LIMITED INSPECTION

| vc    | Class                                                                                                                                    | Violation                                           | Corrective Actions Taken |  |  |
|-------|------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------|--------------------------|--|--|
|       |                                                                                                                                          | No violations were observed during this inspection. |                          |  |  |
| Comm  | Comments:                                                                                                                                |                                                     |                          |  |  |
| 1. SU | 1. SUBMIT THE MOST CURRENT HAZARDOUS MATERIALS BUSINESS PLAN.                                                                            |                                                     |                          |  |  |
|       | 2. THE FOLLOWING DOCUMENTS WILL BE REVIEWED DURING THE ROUTINE COMPLIANCE INSPECTION:<br>=FACILITY'S EMERGENCY RESPONSE/CONTINGENCY PLAN |                                                     |                          |  |  |
| =FAC  | =FACILITY'S TRAINING PLAN AND EMPLOYEE TRAINING RECORDS<br>=FACILITY'S WRITTEN NOTICE TO PROPERTY OWNER                                  |                                                     |                          |  |  |

Immediately correct any violation designated as a Class I or Class II violation. Correct all other violations no later than 09/22/2011, unless otherwise noted by the inspector.

Using the space provided, write a brief description of the actions taken by the facility to correct each violation. Attach additional baces if more space is needed. Within 5 days of achieving compliance or within 35 days of the inspection date, whichever comes first, sign the certification statement below and return a copy of this report to HMCD. Time granted for correction of violations does not preclude any enforcement action by HMCD or other agencies. This facility may be subject to reinspection at any time. [Authority: HSC 25185(c), 25187.8, 25404.1.2(c)]

Inspected By:

Received By: PHILIP LOPEZ

#### **Certification of Compliance**

| I certify under penalty of perjury that this facility has complied with directives specified in this Notice to Comply. |       |  |  |  |  |  |
|------------------------------------------------------------------------------------------------------------------------|-------|--|--|--|--|--|
|                                                                                                                        |       |  |  |  |  |  |
| Signature of Owner/Operator                                                                                            | Date  |  |  |  |  |  |
|                                                                                                                        |       |  |  |  |  |  |
| Printed Name of Owner/Operator                                                                                         | Title |  |  |  |  |  |
|                                                                                                                        |       |  |  |  |  |  |

SOCORRO GUZMAN - EE0010265

CA UST inspector #5266664, Exp. 08/26/2013



## **OFFICIAL NOTICE OF INSPECTION**

Facility ID:FA0258869Facility Name:AVAGO TECHNOLOGIESSite Address:350 W TRIMBLE RD, SAN JOSE, CA 95131

#### **HW Generator Type:**

Consent to Inspect Granted By: PHIL LOPEZ, FACILITIES MANAGER

**Program:** PR0379179 - TIERED PERMIT-PERMIT BY RULE - 2261 **Inspection Type:** LIMITED INSPECTION

#### Comments / Observations

ON SITE WITH PHIL LOPEZ TO DISCUSS THE CLOSURE OF THE PERMIT BY RULE FIXED TREATMENT UNIT.

THE TREATMENT CONSISTS OF ONE LIFT STATION AND A 2,000 GALLON TANK.

THE BUILDING WILL BE HANDED OVER TO THE LANDLORD BY NOVEMBER 30, 2015.

A COPY OF THE "PERMIT BY RULE TREATMENT UNIT CLOSURE GUIDELINES NOTIFICATION AND SUBMITTAL REQUIREMENTS TO CUPA" WAS GIVEN TO MR. LOPEZ.

Page 1 of 2

ALL CLOSURE ACTIVITIES WILL BE CONDUCTED VIA SOCORRO GUZMAN.

Received By: PHIL LOPEZ FACILITIES MANAGER

Inspected By: EE0010265 - SOCORRO GUZMAN CA UST Inspector #52666664, Exp. 08/26/2017

**REVIEWED** By Mickey at 7:16 am, Sep 16, 2015

Inspection Date: 07/30/2015

□ Pictures Taken
□ Samples Taken

## **OFFICIAL NOTICE OF INSPECTION - SUPPLEMENTAL INFORMATION**

This Official Notice of Inspection (NOI) documents the results of an inspection by HMCD, including a list of alleged violations, evidence in support of the alleged violations, corrective actions that must be taken by the facility, and general observations.

## What am I supposed to do upon receiving a NOI?

- Correct the violations within 30 days of the inspection date, unless otherwise noted.
- In the "Corrective Actions Taken" column, write a brief description of the actions taken by the facility to correct each violation. Attach additional pages if more space is needed.
- Certify that the facility has returned to compliance by signing and dating the certification statement at the end of the report.
- Make a photocopy of the NOI and any attachments for your records.
- Within 5 days of achieving compliance or 35 days of the inspection date, whichever comes first, return the original copy of the report and any attachments to HMCD at 1555 Berger Drive, Suite 300, San Jose, CA 95112-2716.

### What if there are violations that cannot be corrected within 30 days?

For each violation that cannot be corrected within 30 days, submit a written Compliance Plan describing the corrective actions you propose to take and the date by which the actions will be completed. State law grants up to 30 days to correct minor violations without penalty. Minor violations that are uncorrected after 30 days, and class I and II violations may be subject to enforcement action. To lessen the possibility of enforcement action, correct all violations as soon as possible.

### What if I disagree with a violation on the NOI?

If you disagree with any violation listed in this NOI, you must submit a written Notice of Disagreement to HMCD within 30 days of the inspection date. Address such notices to the attention of the inspector who cited the violation. In your Notice of Disagreement, explain in detail why you believe the alleged violation was incorrectly cited.

#### What about photographs or samples taken during the inspection?

A co-located sample will be given to you upon request if adequate sample volume is available. Photographs and sample analytical results will not generally be available until after the inspection has been concluded. A copy of photographs and/or analytical results will be provided to you upon written request. Photographs and sample analytical results may be withheld in the event of a criminal investigation or other ongoing investigation.

#### Key to Acronyms and Regulatory Terms

- XX CCR California Code of Regulations, Title XX XX CFR Code of Federal Regulations, Title XX Violation classification: I = Class I violation, II = Class II violation, M = Minor violation, C = Corrected minor violation [HSC Class §25110.8.5, HSC §25117.6, CCR §66260.10] DTSC California Department of Toxic Substances Control EPA U.S. Environmental Protection Agency
- HMCD County of Santa Clara, Department of Environmental Health, Hazardous Materials Compliance Division
- HSC California Health and Safety Code
- RCRA Resource Conservation and Recovery Act
- SCCO Santa Clara County Ordinance Code
- TSDF Hazardous waste treatment, storage or disposal facility UPCF
- Unified Program Consolidated Form
- UST Underground storage tank
- VC HMCD violation code

### Warning:

- It is a violation of State law to make a false statement that a facility has returned to compliance [HSC §25404.1.2(c)(2)].
- Making a false statement regarding a hazardous waste violation is punishable by a fine of not less than \$2,000 or more than
- \$25,000 and/or imprisonment in the county jail for up to one year [HSC §25191(b)].
- Making a false statement regarding an underground storage tank violation is punishable by a fine of not less than \$500 or more than \$5,000 [HSC § §25299(a)(8), 25299(b)(7)].
- HMCD has the right to require the submittal of reasonable and necessary documentation in support of any claim of compliance made by your facility [HSC §25187.8(i)].

## **County of Santa Clara**

**Department of Environmental Health** 

#### **Hazardous Materials Compliance Division**

1555 Berger Drive, Suite 300 San Jose, CA 95112-2716 (408)918-3400 FAX (408)280-6479 www.EHinfo.org



March 1, 2016

Mr. Philip Lopez AVAGO Technologies 350 W Trimble Road San Jose, CA 95131 EPA ID: CAL000337123

Facility Address: 350 W Trimble Road San Jose, CA 95131

Initial Authorization: 10/04/2005

# SUBJECT: RESPONSE TO CLOSURE OF 1 PBR UNIT AT AVAGO TECHNOLOGIES, SAN JOSE CA.

Dear Mr. Lopez:

The County of Santa Clara Hazardous Materials Compliance Division has received your correspondence informing this office of the closure of your Permit by Rule treatment unit NS-2 at Avago Technologies, San Jose CA 95131.

We have received and reviewed the post closure report dated January 18, 2016 signed by a California registered professional engineer Mr. Jason Van Zwol, P.E.

This office considers your treatment operation to be closed as March 1, 2016 and no longer subject to the operating standards of your treatment authorization tier.

Please note that since your facility was operating pursuant to Permit by Rule, you are responsible for complying with corrective action requirements established by Health and Safety Code Section 25200.14, if you have not already done so.

If you have questions, please contact me at 408-918-1946 or e-mail socorro.guzman@deh.sccgov.org

Sincerely,

rau

Socorro Guzman Hazardous Materials Specialist II Hazardous Materials Compliance Division

sp

cc: Violeta Mislang, Department of Toxic Substances Control
## R101DA0H814AM Ver. 2.01

## County of Santa Clara

Department of Environmental Health Hazardous Materials Compliance Division (HMCD) 1555 Berger Drive, Suite 300, San Jose, CA 95112-2716 Phone (408) 918-3400 Fax (408) 280-6479 www.EHinfo.org/hazmat

## **OFFICIAL NOTICE OF INSPECTION**

| Facility ID:   | FA0258869                            |
|----------------|--------------------------------------|
| Facility Name: | AVAGO TECHNOLOGIES                   |
| Site Address:  | 350 W TRIMBLE RD, SAN JOSE, CA 95131 |

#### HW Generator Type:

Consent to Inspect Granted By: MO POURNEJAT, ENVIRONMENTAL HEALTH & SAFETY SPECIALIST

Program: SR0848159 - TIERED PERMIT-PERMIT BY RULE - 1821 Inspection Type: FACILITY CLOSURE-UNCLASSIFIED

#### **Comments / Observations**

INSPECTION AND SAMPLING WERE CONDUCTED ON DECEMBER 8, 2015.

ON SITE WITH MO POURNEJAT WITH ENVIRO SAFETECH TO OVERSEE CORE SAMPLING BELOW TANKS W-31 (500 GALLON LIFT STATION) AND W-32 (2,000 GALLON NEUTRALIZATION).

THE WASTE WAS HELD IN TANK W-31, NEUTRALIZED IN TANK W-32, FINAL PH WAS TAKEN IN TANK W-29 BEFORE DISCHARGING TO THE POTW.

THE CORE SAMPLING WAS CONDUCTED BY BAGG ENGINEERS. THE SAMPLE WAS A GRAB SAMPLE UTILIZING A HAND AUGER WITH AN EXTENSION. THE FIRST SAMPLE WAS COLLECTED BELOW W-31 IN BUILDING 88 AT A DEPTH OF 3.5 FEET, SECOND SAMPLE WAS COLLECTED BELOW TANK W32 IN BUILDING 90 AT A DEPTH OF 4 FEET.

THE SAMPLES WERE COLLECTED IN BRASS TUBES, THE SAMPLES WERE STORED COLD FOR TRANSPORTATION.

A CHAIN A CUSTODY WAS NOT AVAILABLE AFTER THE SAMPLING, THE FACILITY EMAILED A COPY TODAY FOR REVIEW. ALL ANALYSIS DISCUSSED IN THE CLOSURE PLAN WERE PRESENT IN THE CHAIN OF CUSTODY, PH, FIUORIDE, CHLORIDE, CAM 17 AND VOC'S.

SUBMIT THE RESULTS OF THE ANALYSIS TO THIS OFFICE FOR REVIEW.

Received By: MO POURNEJAT EH & S SPECIALIST

Inspected By: EE0010265 - SOCORRO GUZMAN CA UST Inspector #5266664, Exp. 08/26/2017



Inspection Date: 12/09/2015

RCRA LQG
Pictures Taken

Samples Taken

## **OFFICIAL NOTICE OF INSPECTION - SUPPLEMENTAL INFORMATION**

This Official Notice of Inspection (NOI) documents the results of an inspection by HMCD, including a list of alleged violations, evidence in support of the alleged violations, corrective actions that must be taken by the facility, and general observations.

#### What am I supposed to do upon receiving a NOI?

- · Correct the violations within 30 days of the inspection date, unless otherwise noted.
  - In the "Corrective Actions Taken" column, write a brief description of the actions taken by the facility to correct each violation. Attach additional pages if more space is needed.
  - Certify that the facility has returned to compliance by signing and dating the certification statement at the end of the report.
  - Make a photocopy of the NOI and any attachments for your records.
  - Within 5 days of achieving compliance or 35 days of the inspection date, whichever comes first, return the <u>original copy</u> of the report and any attachments to HMCD at 1555 Berger Drive, Suite 300, San Jose, CA 95112-2716.

#### What if there are violations that cannot be corrected within 30 days?

For each violation that cannot be corrected within 30 days, submit a written Compliance Plan describing the corrective actions you propose to take and the date by which the actions will be completed. State law grants up to 30 days to correct minor violations without penalty. Minor violations that are uncorrected after 30 days, and class 1 and 11 violations may be subject to enforcement action. To lessen the possibility of enforcement action, correct all violations as soon as possible.

#### What if I disagree with a violation on the NOI?

If you disagree with any violation listed in this NOI, you must submit a written Notice of Disagreement to HMCD within 30 days of the inspection date. Address such notices to the attention of the inspector who cited the violation. In your Notice of Disagreement, explain <u>in detail</u> why you believe the alleged violation was incorrectly cited.

#### What about photographs or samples taken during the inspection?

A co-located sample will be given to you upon request if adequate sample volume is available. Photographs and sample analytical results will not generally be available until after the inspection has been concluded. A copy of photographs and/or analytical results will be provided to you upon written request. Photographs and sample analytical results may be withheld in the event of a criminal investigation or other ongoing investigation.

#### Key to Acronyms and Regulatory Terms

- XX CCR California Code of Regulations. Title XX
- XX CFR Code of Federal Regulations, Title XX
- Class Violation classification: I = Class I violation. II = Class II violation. M = Minor violation, C = Corrected minor violation [HSC
- \$25110.8.5. HSC \$25117.6. CCR \$66260.10]
- DTSC California Department of Toxic Substances Control
- EPA U.S. Environmental Protection Agency
- HMCD County of Santa Clara, Department of Environmental Health. Hazardous Materials Compliance Division
- HSC California Health and Safety Code
- RCRA Resource Conservation and Recovery Act
- SCCO Santa Clara County Ordinance Code
- TSDF Hazardous waste treatment, storage or disposal facility UPCF
- Unified Program Consolidated Form
- UST Underground storage tank
- VC HMCD violation code

#### Warning:

- It is a violation of State law to make a false statement that a facility has returned to compliance [HSC §25404.1.2(c)(2)].
- Making a false statement regarding a hazardous waste violation is punishable by a fine of not less than \$2.000 or more than \$25.000 and/or imprisonment in the county jail for up to one year [HSC §25191(b)].
- Making a false statement regarding an underground storage tank violation is punishable by a fine of not less than \$500 or more than \$5,000 [HSC § §25299(a)(8), 25299(b)(7)].
- HMCD has the right to require the submittal of reasonable and necessary documentation in support of any claim of compliance made by your facility [HSC §25187.8(i)].

HMCD-014A

#### www.EHinfo.org/hazmat

Rev.

## REPORT

ENVIRONMENTAL CHARACTERIZATION OF SHALLOW SOIL AVAGO TECHNOLOGIES ACID NEUTRALIZATION SYSTEM (ANS) TANKS DECOMMISSIONING 350 W. TRIMBLE ROAD SAN JOSE, CALIFORNIA

Prepared for:

**Enviro Safetech** 





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January 18, 2016 BAGG Project No. ESTEC-01-00

Mo Pournejat, Safety Specialist Enviro Safetech 2160-B Oakland Road San Jose, CA 95131

Dear Mr. Pournejat,

REPORT

Environmental Characterization of Shallow Soil Avago Technologies Acid Neutralization System (ANS) Tanks Decommissioning 350 W. Trimble Road San Jose, California

Gentleman:

Transmitted herewith is our report presenting the analytical test data on samples of the shallow soils in the close proximity of two acid tanks within Buildings 88 and 90 of the Philips Lumileds' campus in San Jose, California. The following sections of this report describe the exploration activities carried out for this study and the results of the analytical testing performed on the soil samples obtained from the borings advanced near the noted above-ground acid storage tanks.

Thank you for the opportunity to be of service on this project. Please do not hesitate to contact us, should you have any questions or comments.

Very truly yours,

**BAGG Engineers** 

Ebbi Hamidieh Environmental Professional



www.baggengineers.com
phone: 650.852.9133 Fax: 650.852.9138 info@baggengineers.com
138 Charcot Avenue, San Jose, California 95131

#### REPORT

#### Environmental Characterization of Shallow Soil Avago Technologies Acid Neutralization System (ANS) Tanks Decommissioning 350 W. Trimble Road San Jose, California

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#### REPORT

#### ENVIRONMENTAL CHARACTERIZATION OF SHALLOW SOIL AVAGO TECHNOLOGIES ACID NEUTRALIZATION SYSTEM (ANS) TANKS DECOMMISSIONING 350 W. TRIMBLE ROAD SAN JOSE, CALIFORNIA

#### 1.0 EXECUTIVE SUMMARY

Analytical testing of the soil samples collected adjacent to two acid tanks from depths of 3½ and 4 feet below the floor slab in Buildings 88 and 90 has not revealed the presence of volatile organic compounds, CAM 17 metals, chloride or fluoride at hazardous levels. Volatile organic compounds were not detected in the soil samples above laboratory detection limits. The CAM 17 metals results were either non-detect at the laboratory detection limits, or at background concentrations typical of the geographic area of the site. Likewise, chloride and fluoride concentrations were either non-detect at the laboratory detection levels, or at background concentrations. The measured pH for the two soil samples was either neutral or somewhat on the basic side.

#### 2.0 INTRODUCTION

This report presents the results of a limited environmental investigation conducted within Philips Lumileds' Buildings 88 and 90 located in San Jose, California. The attached Plate 1, Vicinity Map, shows the general location of the site, and Plate 2, Site Plan, depicts an aerial image of the campus and the approximate location of our exploratory borings advanced adjacent to two existing acid storage tanks within Buildings 88 and 90. As discussed later, soil samples were collected from the upper 3½ and 4 feet measured from the surface of the concrete slab in each building.

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138 Charcot Avenue, San Jose, California 95131

The intent of soil sampling and testing was to confirm that the content of the noted tanks have not leaked or impacted the subgrade soil. The boring locations and the laboratory testing protocol was specified by the owners' representatives.

A summary of our subsurface exploration and analytical testing of the soil samples by Torrent Laboratory, Inc. are discussed in the following sections of this report.

#### 3.0 SITE & PROJECT DESCRIPTION

The Philips Lumileds' campus is located on the southern corner of W. Trimble Road and Orchard Parkway in San Jose, California. Active access to the site is from Orchard Parkway. Buildings 90 and 88 are situated approximately 330 feet and 770 feet east of Orchard Parkway, respectively. The campus surface is relatively flat.

We understand that the client is planning to decommission two above-ground 6-foot-diameter fibreglass tanks from the basement and the lower level of two buildings at the Philips Lumileds' campus. The tanks were reportedly holding and treatment tanks for Avago's IWW drain.

#### 4.0 PURPOSE

The purpose of our services was to conduct a limited investigation at the site for collection of soil samples in an effort to evaluate the environmental nature of the shallow soil adjacent to the tanks within the lower levels of two existing buildings at the site.

#### 5.0 SCOPE OF SERVICES

To fulfill the above purpose, the scope of our services consisted of the following specific tasks:

1. Visit the site and check the site conditions.



Report to: Enviro Safetech January 18, 2016

- 2. Retain Nichols Concrete Cuttings to core a 6" diameter holes through the concrete slab adjacent to each of the two tanks to be removed.
- 3. Use a hand auger and hand sampling equipment to obtain a soil sample from each borehole. The sampling depth was anticipated to be approximately one foot and below the slab base material if any; however, the owners' representatives directed us to obtain the samples from depths of 3½ and 4 feet below the floor slab. Preserve the samples on ice in accordance with the standard protocol for environmental sampling. Decontaminate the boring/sampling equipment before each sampling episode. Backfill the borings with the soil cuttings and patch the floor with quick-set concrete.
- 4. Transport the samples to Torrent Analytical Laboratory under a chain-of-custody with instructions for on a standard turnaround basis (5 working days), unless requested otherwise. A two-day turnaround was requested by the client.
- 5. Depending on the concentration of various contaminants detected, recommend additional site characterization and evaluation, if required, or the need for follow-up waste extraction tests (STLC). The waste extraction test was performed on one of the two samples and involved three detected metals with elevated TTLC concentrations.
- 6. Review the analytical report and prepare a brief electronic mail report presenting the results of the tests conducted on the soil samples. The electronic mail report contained a comparison of the results with the applicable standards (RWCQB ESLs, or CHHSLs, and/or CCR Title 22), and the analytical report. However, following the transmittal of analytical reports and a brief electronic mail report, the client directed us to prepare this formal report.

#### 6.0 FIELD EXPLORATION AND ANALYTICAL TESTING

#### 6.1 General

A subsurface exploration program consisting of two (2) shallow soil borings was carried out on December 8, 2015 for the purpose of soil sample collection and environmental characterization of shallow soil. The approximate location of the exploratory borings are shown on the attached Plate 2, Site Plan. As directed by the owners' representatives, the <u>soil samples</u> for Buildings 88 and 90 tanks were collected from depths of 3½ (Tank-2) and 4 feet (Tank-1) below the floor slab of the noted Buildings, respectively.

To advance the borings, a 6-inch-diameter and 6-inch-thick core was first made through the building floors adjacent to each acid tank by Nichols Concrete Cutting. Our technician then used a hand auger to



advance the borings to depths of 3½ and 4 feet as requested by the client. Sampling was carried out with the aid of a hand sampler fitted with 6-inch-long brass liners.

#### 6.2 Field Exploration and Methodology

The borings were advanced on December 8, 2015. Samples of the subsurface materials were collected from depths of 3½ feet and 4 feet in laboratory clean brass liners; the ends were capped with plastic caps and preserved on ice until delivered to Torrent Laboratory in Milpitas, California for analytical testing. Exploration and soil sampling for this investigation was conducted in accordance with standard EPA protocol.

The concrete cores were 6 inches thick and there was approximately 6 to 8 inches of aggregate base below the concrete floor slab. Soil samples were taken from the native site materials below the aggregate base.

#### 6.3 Laboratory Analysis

The two (2) collected soil samples were transported to Torrent Laboratory under a chain of custody with instructions for testing. As specified by the owners' representatives, the laboratory analysis on the soil samples consisted of the following:

- $\rightarrow$  Volatile Organic Compounds or VOC's (EPA 8260)
  - → Chloride (EPA 300.0M)
  - → Fluoride (EPA 300.0M)
  - $\rightarrow$  CAM 17 Metals (SW 6020)
  - → Waste Extraction (STLC) tests, as required (CA Title 22, SW 6010)
  - → pH

The chain of custody records and the analytical reports from Torrent Laboratory, Inc. are included in Appendix A. The results of the analytical tests for the soil samples are summarized in Table 1 attached at the end of this report.



Report to: Enviro Safetech January 18, 2016 BAGG Project No. ESTEC-01-00 Page 5

#### 6.5 Analytical Results

The analytical test results on the collected soil samples are summarized in Table 1, Analytical/Inorganic Test Results. The table also cites the applicable environmental screening levels established by RWQCB and the State of California for various analytes.

"ESL" denotes Environmental Screening Level published by California Water Boards (Dec. 2013) and the values used are pertinent to shallow soils (less than or equal to 3 meters or about 10 feet) where groundwater is current or potential source of drinking water. Two ESL categories are available and are quoted below: Residential Land Use and Commercial/Industrial Land Use. Also used as a reference is Title 22 from the California Code of Regulations (for metals). Detected concentrations exceeding the applicable standards are highlighted in the attached Table.

#### Volatile Organic Compounds (VOCs)

VOCs were not detected in the soil samples at concentrations above the laboratory detection limits.

#### Fluoride

Fluoride was not detected above the laboratory detection limit in the sample collected from Tank-2 in B88; 3.6 mg/kg of fluoride was detected in the sample taken from Tank-1 in B90.

#### Chloride

The detected chloride from the Tank-2 sample was 50 mg/kg which appears to be background level. Chloride was not detected above the laboratory detection limit in the Tank-1 sample.

pH

The pH for Tank-2 sample was 7.1 which is nearly neutral. The pH for the Tank-1 sample was 8.1 which is somewhat on the basic side.



#### CAM 17 Metals

The CAM 17 metal analysis results indicate respective arsenic, chromium, and mercury concentrations of 30 mg/kg, 75 mg/kg, and 6.9 mg/kg in the Tank-2 sample. The detected arsenic concentration is well above the levels that are typically present in soil in the South Bay, although not greater than 10 times the Title 22 STLC value ( $\geq$ 50 mg/kg). However, the detected levels of chromium and mercury were greater than ten times the Title 22 STLC concentrations for these metals ( $\geq$ 50 mg/kg for chromium and ( $\geq$ 2 mg/kg for mercury). Waste extraction tests (STLC) were therefore carried out on these samples. The results of the STLC-arsenic, chromium, and mercury tests were 1.3 mg/L, 0.94 mg/L, and 0.007 mg/kg, which are considerably less than the corresponding respective Title 22 STLC threshold concentrations of 5 mg/L, 5 mg/L, and 0.2 mg/L, respectively.

The remaining metals in the Tank-2 sample and the metals in the Tank-1 soil sample were either nondetect at the laboratory detection limits, or were detected at levels typical of the ambient background concentrations in the Bay Area soils. Background concentrations for a number of toxic metals in the Bay Area soils typically exceed risk-based screening levels for direct exposure concerns such as those outlined in the December 2013 document by RWQCB. Alternative screening levels established based on site-specific background levels would represent a more realistic environmental screening basis in these instances. Such standards are typically established in concert with the Water Board staff.

#### 7.0 CONCLUSIONS

The analytical test results on the two soil samples collected adjacent to the existing acid tanks below the floor slab of the Buildings 88 and 90 have not revealed the presence of volatile organic compounds, CAM 17 metals, chloride, or fluoride at levels exceeding the background concentrations typical of the geographic area of the subject site.



#### 8.0 CLOSURE

This report has been prepared in accordance with generally-accepted engineering practices for the strict use of the Enviro Safetech, Philips Lumileds, and Avago Technologies and is intended to present a preliminary assessment of the environmental quality of the shallow soil beneath the site, the locations of which are shown on the attached Plate 2, Site Plan.

Evaluation of the environmental conditions at the site for the purpose of this study was made from a limited number of samples with locations specified by the client. Chemical/analytical testing of the shallow soil beneath the site has been carried out for specific types of contaminants at the direction of the client and owners' representatives, and only include limited types of hazardous materials. It is possible that conditions may be present within the site, or in the immediate vicinity, or adjacent to the acid tanks, or at depths below the 4 feet, which significantly vary from those indicated by the analytical testing performed. This report has been prepared based on information obtained from the analytical reports prepared by Torrent Laboratory. BAGG Engineers cannot and does not guarantee the authenticity of the information it has relied upon.

Judgments leading to conclusions are generally made with less than perfect knowledge of the conditions present. This report should not be construed to offer any conclusions or opinions regarding potential liability and/or profitability associated with the site ownership, sale, or redevelopment.

The following table, plates, and appendices are attached and complete this report:

| Table 1 | Analytical/Inorganic Test Results-Detected Analytes |
|---------|-----------------------------------------------------|
|         |                                                     |

Vicinity Map

Site Plan

Plate 1 Plate 2

Important Information about your Geoenvironmental Report

Appendix A Chain of Custody Records and Analytical Reports by Torrent Laboratory, Inc.



#### 9.0 REFERENCES

- California Environmental Protection Agency, <u>Use of California Human Health Screening Levels (CHHLS) in</u> <u>Evaluation of Contaminated Properties</u>, January 2005.
- California Water Boards, San Francisco Bay Region Water Quality Control Board, <u>2013 Tier 1 ESLs</u>, Dec. 2013.
- Department of Toxic Substances Control (DTSC), <u>Information Advisory, Clean Imported Fill Material</u>, October 2001.
- Office of Administrative Hearings, Department of General Services, State of California, <u>California</u> <u>Administrative Code, Title 22, Social Security, Division 4 - Environmental Health</u>.
- San Francisco Bay Regional Water Quality Control Board, <u>User's Guide, Derivation and Application of</u> <u>Environmental Screening Levels</u>, Interim Final 2013.



# Important Information About Your Geoenvironmental Report

Geoenvironmental studies are commissioned to gain information about environmental conditions on and beneath the surface of a site. The more comprehensive the study, the more reliable the assessment is likely to be. But remember: Any such assessment is to a greater or lesser extent based on professional opinions about conditions that cannot be seen or tested. Accordingly, no matter how many data are developed, risks created by unanticipated conditions will always remain. *Have realistic expectations.* Work with your geoenvironmental consultant to manage known and unknown risks. Part of that process should already have been accomplished, through the risk allocation provisions you and your geoenvironmental professional discussed and included in your contract's general terms and conditions. This document is intended to explain some of the concepts that may be included in your agreement, and to pass along information and suggestions to help you manage your risk.

#### Beware of Change; Keep Your Geoenvironmental Professional Advised

The design of a geoenvironmental study considers a variety of factors that are subject to change. Changes can undermine the applicability of a report's findings, conclusions, and recommendations. *Advise your geoenvironmental professional about any changes you become aware of.* Geoenvironmental professionals cannot accept responsibility or liability for problems that occur because a report fails to consider conditions that did not exist when the study was designed. Ask your geoenvironmental professional about the types of changes you should be particularly alert to. Some of the most common include:

- modification of the proposed development or ownership group,
- sale or other property transfer
- replacement of or additions to the financing entity,
- amendment of existing regulations or introduction of new ones, or
- changes in the use or condition of adjacent property.

Should you become aware of any change, do not rely on a geoenvironmental report. Advise your geoenvironmental professional immediately; follow the professional's advice.

#### **Recognize the Impact of Time**

A geoenvironmental professional's findings, recommendations, and conclusions cannot remain valid indefinitely. The more time that passes, the more likely it is that important latent changes will occur. Do not rely on a geoenvironmental report if too much time has elapsed since it was completed. Ask your environmental professional to define "too much time." In the case of Phase I Environmental Site Assessments (ESAs), for example, more than 180 days after submission is generally considered "too much."

#### Prepare To Deal with Unanticipated Conditions

The findings, recommendations, and conclusions of a Phase I ESA report typically are based on a review of historical information, interviews, a site "walkover," and other forms of noninvasive research. When site subsurface conditions are not sampled in any way, the risk of unanticipated conditions is higher than it would otherwise be.

While borings, installation of monitoring wells, and similar invasive test methods can help reduce the risk of unanticipated conditions, *do not overvalue the effectiveness of testing*. Testing provides information about actual conditions only at the precise locations where samples are taken, and only when they are taken. Your geoenvironmental professional has applied that specific information to develop a general opinion about environmental conditions. *Actual conditions in areas not sampled may differ (sometimes sharply) from those predicted in a report.* For example, a site may contain an unregistered underground storage tank that shows no surface trace of its existence. *Even conditions in areas that were tested can change*, sometimes suddenly, due to any number of events, not the least of which include occurrences at

adjacent sites. Recognize, too, that even some conditions in tested areas may go undiscovered, because the tests or analytical methods used were designed to detect only those conditions assumed to exist.

Manage your risks by retaining your geoenvironmental professional to work with you as the project proceeds. Establish a contingency fund or other means to enable your geoenvironmental professional to respond rapidly, in order to limit the impact of unforeseen conditions. And to help prevent any misunderstanding, identify those empowered to authorize changes and the administrative procedures that should be followed.

#### Do Not Permit Any Other Party To Rely on the Report

Geoenvironmental professionals design their studies and prepare their reports to meet the specific needs of the clients who retain them, in light of the risk management methods that the client and geoenvironmental professional agree to, and the statutory, regulatory, or other requirements that apply. The study designed for a developer may differ sharply from one designed for a lender, insurer, public agency...or even another developer. Unless the report specifically states otherwise, it was developed for you and only you. Do not unilaterally permit any other party to rely on it. The report and the study underlying it may not be adequate for another party's needs, and you could be held liable for shortcomings your geoenvironmental professional was powerless to prevent or anticipate. Inform your geoenvironmental professional when you know or expect that someone else-a third-partywill want to use or rely on the report. Do not permit third-party use or reliance until you first confer with the geoenvironmental professional who prepared the report. Additional testing, analysis, or study may be required and, in any event, appropriate terms and conditions should be agreed to so both you and your geoenvironmental professional are protected from third-party risks. Any party who relies on a geoenvironmental report without the express written permission of the professional who prepared it and the client for whom it was prepared may be solely liable for any problems that arise.

#### Avoid Misinterpretation of the Report

Design professionals and other parties may want to rely on the report in developing plans and specifications. They need to be advised, in writing, that their needs may not have been considered when the study's scope was developed, and, even if their needs were considered, they might misinterpret geoenvironmental findings, conclusions, and recommendations. *Commission your geoenvironmental professional to explain pertinent elements of the report to others who are permitted to rely on it, and to review any plans, specifications or other instruments of professional service that incorporate any of the report's findings, conclusions, or recommendations.* Your geoenvironmental professional has the best understanding of the issues involved, including the fundamental assumptions that underpinned the study's scope.

#### **Give Contractors Access to the Report**

Reduce the risk of delays, claims, and disputes by car: iving contractors access to the full report, providing that it is accomp of transmittal that can protect you by making it unon jestionably clear that: 1) the study was not conducted and the report -was not prepared for purposes of bid development, and 2) the finding sets, conclusions, and recommendations included in the report are bas -ded on a variety of opinions, inferences, and assumptions and are subi tion. Use the letter to also advise contractors to con geoenvironmental professional to obtain clarification is, interpretations, and guidance (a fee may be required for this service ), and that-in any event-they should conduct additional studies the specific type and extent of information each prefers for preparing a bid or cost estimate. Providing access to the full report, w ith the appropri-claims of concealed or differing conditions. If a cont matter elects to ignore the warnings and advice in the letter of trans nittal, it would do so at its own risk. Your geoenvironmental profession hal should be able to help you prepare an effective letter.

#### Do Not Separate Documentation from the Report

Geoenvironmental reports often include supplement and documentation, such as maps and copies of regulatory files, permits ----, registrations, citations, and correspondence with regulatory agencasies. If subsurface explorations were performed, the report may contair me final boring logs and copies of laboratory data. If remediation activitie- is occurred on site, the report may include: copies of daily field reports: waste manifests; and information about the disturbance of subsurface materials. the type and thickness of any fill placed on site, and fill placement practices, among other types of documentation. Do \_\_not separate supplemental documentation from the report. Do not, ar nd do not permit any other party to redraw or modify any of the supp emental documentation for incorporation into other professionals 'instruments of service.

#### Understand the Role of Standards

Unless they are incorporated into statutes or regulat amons, standard practices and standard guides developed by the Am mican Society for Testing and Materials (ASTM) and other recognized standards-developing organizations (SDOs) are little more than aspi rational methods agreed to by a consensus of a committee. The commercial nittees that develop standards may not comprise those best-qualified to establish methods and, no matter what, no standard method care an possibly consider the infinite client- and project-specific variable s that fly in the face of the theoretical "standard conditions" to whic tices and standard guides apply. In fact, these variat meles can be so pronounced that geoenvironmental professionals where a comply with every directive of an ASTM or other standard proce endure could run  Accordingly, when geoenvironmental professionals indicate in their reports that they have performed a service "in general compliance" with one standard or another, it means they have applied professional judgement in creating and implementing a scope of service designed for the specific client and project involved, and which follows some of the general precepts laid out in the referenced standard. To the extent that a report indicates "general compliance" with a standard, you may wish to speak with your geoenvironmental professional to learn more about what was and was not done. *Do not assume a given standard was followed to the letter.* Research indicates that that seldom is the case.

#### **Realize That Recommendations May Not Be Final**

The technical recommendations included in a geoenvironmental report are based on assumptions about actual conditions, and so are preliminary or tentative. Final recommendations can be prepared only by observing actual conditions as they are exposed. For that reason, you should retain the geoenvironmental professional of record to observe construction and/or remediation activities on site, to permit rapid response to unanticipated conditions. *The geoenvironmental professional who prepared the report cannot assume responsibility or liability for the report's recommendations if that professional is not retained to observe relevant site operations.* 

#### Understand That Geotechnical Issues Have Not Been Addressed

Unless geotechnical engineering was specifically included in the scope of professional service, a report is not likely to relate any findings, conclusions, or recommendations about the suitability of subsurface materials for construction purposes, especially when site remediation has been accomplished through the removal, replacement, encapsulation, or chemical treatment of on-site soils. The equipment, techniques, and testing used by geotechnical engineers differ markedly from those used by geoenvironmental professionals; their education, training, and experience are also significantly different. If you plan to build on the subject site, but have not yet had a geotechnical engineering study conducted, your geoenvironmental professional should be able to provide guidance about the next steps you should take. The same firm may provide the services you need.

#### **Read Responsibility Provisions Closely**

Geoenvironmental studies cannot be exact; they are based on professional judgement and opinion. Nonetheless, some clients, contractors, and others assume geoenvironmental reports are or certainly should be unerringly precise. Such assumptions have created unrealistic expectations that have led to wholly unwarranted claims and disputes. To help prevent such problems, geoenvironmental professionals have developed a number of report provisions and contract terms that explain who is responsible for what, and how risks are to be allocated. Some people mistake these for "exculpatory clauses," that is, provisions whose purpose is to transfer one party's rightful responsibilities and liabilities to someone else. Read the responsibility provisions included in a report and in the contract you and your geoenvironmental professional agreed to. *Responsibility provisions are not "boilerplate."* They are important.

#### Rely on Your Geoenvironmental Professional for Additional Assistance

Membership in ASFE exposes geoenvironmental professionals to a wide array of risk management techniques that can be of genuine benefit for everyone involved with a geoenvironmental project. Confer with your ASFE-member geoenvironmental professional for more information.



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IIGR06055.0M

## APPENDIX A

Chain of Custody Record and Analytical Report by Torrent Laboratory, Inc.



Bay Area Geotechnical Group 847 West Maude Ave Sunnyvale, California 94085 Tel: (650) 852-9133 Fax: (650) 852-9138

RE: Avago Acid Tank

Work Order No.: 1512071 Rev: 1

Dear Ebbi Hamdieh:

Torrent Laboratory, Inc. received 2 sample(s) on December 09, 2015 for the analyses presented in the following Report.

All data for associated QC met EPA or laboratory specification(s) except where noted in the case narrative.

Torrent Laboratory, Inc. is certified by the State of California, ELAP #1991. If you have any questions regarding these test results, please feel free to contact the Project Management Team at (408)263-5258; ext 204.

aps2

Patti Sandrock QA Officer December 16, 2015 Date



Date: 12/16/2015

Client: Bay Area Geotechnical Group Project: Avago Acid Tank Work Order: 1512071

#### **CASE NARRATIVE**

No issues encountered with the receiving, preparation, analysis or reporting of the results associated with this work order.

Unless otherwise indicated in the following narrative, no results have been method and/or field blank corrected.

Reported results relate only to the items/samples tested by the laboratory.

This report shall not be reproduced, except in full, without the written approval of Torrent Analytical, Inc.

#### REVISIONS

Per client request, report revised to include STLC data for sample 001A.

#### STLC

Note: Extraction of 50 g sample / 500g 0.2M Sodium Citrate Solution was performed according to wet extraction procedure (WET) which was rotated in a rotary shaker for 48 hours (+/- 4 hours).

Date Prepared: 12/14/15 @ 12.15 PM to 12/16/15 @ 9:05 AM.

Rev. 1 (12/16/15)



## Sample Result Summary

| Report prepared for: | Ebbi Hamdieh                |                    |    |            |       | Received:      |                                    |
|----------------------|-----------------------------|--------------------|----|------------|-------|----------------|------------------------------------|
| ank-2.Bldg 88        | Bay Area Geotechnical Group |                    |    |            | Date  | Reported:<br>1 | 12/16/15<br>512071-00 <sup>,</sup> |
| Parameters:          |                             | Analysis<br>Method | DF | <u>MDL</u> | PQL.  | Results        | Uniț                               |
| Arsenic              |                             | SW6010B            | 1  | 0.25       | 1.7   | 30             | mg/Kg                              |
| Barium               |                             | SW6010B            | 1  | 0.07       | 5.0   | 110            | mg/Kg                              |
| Chromium             |                             | SW6010B            | 1  | 0.0500     | 5.0   | 75             | mg/Kg                              |
| Cobalt               |                             | SW6010B            | 1  | 0.055      | 5.0   | 15             | mg/Kg                              |
| Copper               |                             | SW6010B            | 1  | 0.650      | 5.0   | 25             | mg/Kg                              |
| Lead                 |                             | SW6010B            | 1  | 0.14       | 1.0   | 37             | mg/Kg                              |
| Nickel               |                             | SW6010B            | 1  | 0.0500     | 5.0   | 130            | mg/Kg                              |
| Vanadium             |                             | SW6010B            | 1  | 0.18       | 5.0   | 38             | mg/Kg                              |
| Zinc                 |                             | SW6010B            | 1  | 0.25       | 5.0   | 46             | mg/Kg                              |
| Mercury              |                             | SW7471A            | 10 | 2          | 5.0   | 6.9            | mg/Kg                              |
| Chloride             |                             | E300.0M            | 1  | 10.0       | 20    | 50             | mg/Kg                              |
| рH                   |                             | SW9045C            | 1  | 0.10       | 2.0   | 7.12           | <b>S.</b> U.                       |
| Arsenic (STLC)       |                             | SW6010B            | 1  | 0.0500     | 0.10  | 1.3            | mg/L                               |
| Chromium (STLC)      |                             | SW6010B            | 1  | 0.0200     | 0.10  | 0.94           | mg/L                               |
| Mercury (STLC)       |                             | SW7470A            | 1  | 0.0003     | 0.003 | 0.0071         | mg/L                               |



### Sample Result Summary

| Report prepared for: | Ebbi Hamdieh                |                                  |           |            | Date | Received:      | 12/09/15   |
|----------------------|-----------------------------|----------------------------------|-----------|------------|------|----------------|------------|
|                      | Bay Area Geotechnical Group |                                  |           |            | Date | Reported:      | 12/16/15   |
| Fank-1.Bldg 90       |                             |                                  |           |            |      | 15             | 512071-002 |
| Parameters:          |                             | <u>Analysis</u><br><u>Method</u> | <u>DF</u> | <u>MDL</u> | PQL  | <u>Results</u> | Unit       |
| Fluoride             |                             | E300.0M                          | 1         | 0.97       | 2.0  | 3.6            | mg/Kg      |
| Arsenic              |                             | SW6010B                          | 1         | 0.25       | 1.7  | 7.8            | mg/Kg      |
| Barium               |                             | SW6010B                          | 1         | 0.07       | 5.0  | 150            | mg/Kg      |
| Chromium             |                             | SW6010B                          | 1         | 0.0500     | 5.0  | 37             | mg/Kg      |
| Cobalt               |                             | SW6010B                          | 1         | 0.055      | 5.0  | 7.8            | mg/Kg      |
| Copper               |                             | SW6010B                          | 1         | 0.650      | 5.0  | 18             | mg/Kg      |
| Lead                 |                             | SW6010B                          | 1         | 0.14       | 1.0  | 4.9            | mg/Kg      |
| Nickel               |                             | SW6010B                          | 1         | 0.0500     | 5.0  | 46             | mg/Kg      |
| Vanadium             |                             | SW6010B                          | 1         | 0.18       | 5.0  | 33             | mg/Kg      |
| Zinc                 |                             | SW6010B                          | 1         | 0.25       | 5.0  | 36             | mg/Kg      |
|                      |                             |                                  |           |            |      |                |            |
| рН                   |                             | SW9045C                          | 1         | 0.10       | 2.0  | 8.09           | S.U.       |



| Report prepared for:   | Ebbi Hamdieh<br>Bay Area Geotechr | nical Grou           | p                |        |              |            |          |                  |                | ived: 12/0<br>orted: 12/1 |                |
|------------------------|-----------------------------------|----------------------|------------------|--------|--------------|------------|----------|------------------|----------------|---------------------------|----------------|
| Client Sample ID:      | Tank-2.Bldg 88                    | 3                    |                  | _      | Lab Sar      | nple ID:   | 15120    | 71-001A          |                |                           |                |
| Project Name/Location: | Avago Acid Ta                     |                      |                  |        | Sample       | •          | Soil     |                  |                |                           |                |
| Project Number:        | ESTEC-01-00                       |                      |                  |        | •            |            |          |                  |                |                           | 1              |
| Date/Time Sampled:     | 12/08/15 /                        |                      |                  |        |              |            |          |                  |                |                           |                |
| Tag Number:            | ES-1 @ 3.5'                       |                      |                  |        |              |            |          |                  |                |                           |                |
| Parameters:            | Analysis<br>Method                | Prep<br>Date         | Date<br>Analyzed | DF     | MDL          | PQL        | Results  | Lab<br>Qualifier | Unit           | Analytical<br>Batch       | Prep<br>Batch  |
| Fluoride               | E300.0M                           | NÂ                   | 12/09/15         | 1      | 0.97         | 2.0        | ND       |                  | mg/Kg          | 428090                    | NA             |
| Chloride               | E300.0M                           | NA                   | 12/09/15         | 1      | 10.0         | 20         | 50       |                  | mg/Kg          | 428090                    | NA             |
| Parameters:            | Analysis<br>Method                | Prep<br>Date         | Date<br>Analyzed | DF     | MDL          | PQL        | Results  | Lab<br>Qualifier | Unit           | Analytical<br>Batch       | Prep<br>Batch  |
| Arsenic (STLC)         | SW6010B                           | 12/16/15             | 12/16/15         | 1      | 0.0500       | 0.10       | 1.3      | <u> </u>         | mg/L           | 428164                    | 15957          |
| Chromium (STLC)        | SW6010B                           | 12/16/15             | 12/16/15         | 1      | 0.0200       | 0.10       | 0.94     |                  | mg/L           | 428164                    | 15957          |
| Parameters:            | Analysis<br>Method                | Prep<br>Date         | Date<br>Analyzed | DF     | MDL          | PQL        | Results  | Lab<br>Qualifier | Unit           | Analytical<br>Batch       | Prep<br>Batch  |
| Antimony               |                                   | 12/10/15             | 12/10/15         | 1      | 0.20         | 5.0        | ND       | I                | mg/Kg          | 428080                    | 15918          |
| Arsenic                | SW6010B                           | 12/10/15             | 12/10/15         | 1      | 0.25         | 1.7        | 30       |                  | mg/Kg          | 428080                    | 15918          |
| Barium                 | SW6010B                           | 12/10/15             | 12/10/15         | 1      | 0.07         | 5.0        | 110      |                  | mg/Kg          | 428080                    | 15918          |
| Beryllium              | SW6010B                           | 12/10/15             | 12/10/15         | 1      | 0.0800       | 2.0        | ND       |                  | mg/Kg          | 428080                    | 15918          |
| Cadmium                | SW6010B                           | 12/10/15             | 12/10/15         | 1      | 0.0550       | 1.0        | ND       |                  | mg/Kg          | 428080                    | 15918          |
| Chromium               | SW6010B                           | 12/10/15             | 12/10/15         | 1      | 0.0500       | 5.0        | 75       |                  | mg/Kg          | 428080                    | 15918          |
| Cobalt                 | SW6010B                           | 12/10/15             | 12/10/15         | 1      | 0.055        | 5.0        | 15       |                  | mg/Kg          | 428080                    | 15918          |
| Copper                 | SW6010B                           | 12/10/15             | 12/10/15         | 1      | 0.650        | 5.0        | 25       |                  | mg/Kg          | 428080                    | 15918          |
| Lead                   | SW6010B                           | 12/10/15             | 12/10/15         | 1      | 0.14         | 1.0        | 37       |                  | mg/Kg          | 428080                    | 15918          |
| Molybdenum             | SW6010B                           | 12/10/15             | 12/10/15         | 1      | 0.120        | 5.0        | ND       |                  | mg/Kg          | 428080                    | 15918          |
| Nickel                 | SW6010B                           | 12/10/15             |                  | 1      | 0.0500       | 5.0        | 130      |                  | mg/Kg          | 428080                    | 15918          |
| Selenium               | SW6010B                           | 12/10/15             |                  | 1      | 0.42         | 5.0        | ND       |                  | mg/Kg          | 428080                    | 15918          |
| Silver                 | SW6010B                           | 12/10/15             |                  | 1      | 0.37         | 5.0<br>7.5 | ND       |                  | mg/Kg          | 428080                    | 15918          |
| Thallium               | SW6010B                           | 12/10/15             |                  | 1      | 0.49         | 7.5<br>5.0 | ND<br>38 |                  | mg/Kg<br>mg/Kg | 428080<br>428080          | 15918<br>15918 |
| Vanadium<br>Zinc       | SW6010B<br>SW6010B                | 12/10/15<br>12/10/15 |                  | 1<br>1 | 0.18<br>0.25 | 5.0<br>5.0 | 36<br>46 |                  | mg/Kg          | 428080                    | 15918          |
| Parameters:            | Analysis<br>Method                | Prep<br>Date         | Date<br>Analyzed | DF     | MDL          | PQL        | Results  | Lab<br>Qualifier | Unit           | Analytical<br>Batch       | Prep<br>Batch  |
| Mercury (STLC)         | SW7470A                           | 12/16/15             | 12/16/15         | 1      | 0.0003       | 0.003      | 0.0071   |                  | i <u>mg</u> /L | 428170                    | 15960          |
| Parameters:            | Analysis<br>Method                | Prep<br>Date         | Date<br>Analyzed | DF     | MDL          | PQL        | Results  | Lab<br>Qualifier | Unit           | Analytical<br>Batch       | Prep<br>Batch  |
| Mercury                |                                   | 12/10/15             | 12/10/15         | 10     | 2            | 5.0        | 6.9      | <u> </u>         | mg/Kg          | 428081                    | 15919          |



| Report prepared for:                                           | Ebbi Hamdieh<br>Bay Area Geotechr              | nical Grou   | τp               | Date Received: 12/09/15<br>Date Reported: 12/16/15 |            |                     |               |                       |                     |               |
|----------------------------------------------------------------|------------------------------------------------|--------------|------------------|----------------------------------------------------|------------|---------------------|---------------|-----------------------|---------------------|---------------|
| Client Sample ID:<br>Project Name/Location:<br>Project Number: | Tank-2.Bldg 88<br>Avago Acid Ta<br>ESTEC-01-00 |              |                  |                                                    |            | nple ID:<br>Matrix: | 15120<br>Soil | )71-001A              |                     |               |
| Date/Time Sampled:                                             | 12/08/15 /                                     |              |                  |                                                    |            |                     |               |                       |                     |               |
| Tag Number:                                                    | ES-1 @ 3.5'                                    |              |                  |                                                    |            |                     |               |                       |                     |               |
|                                                                |                                                |              |                  |                                                    |            |                     |               |                       |                     |               |
| Parameters:                                                    | Analysis<br>Method                             | Prep<br>Date | Date<br>Analyzed | DF                                                 | MDL        | PQL                 | Results       | Lab Unit<br>Qualifier | Analytical<br>Batch | Prep<br>Batch |
| Dichlorodifluoromethane                                        | SW8260B                                        | NA           | 12/09/15         | 1                                                  | 4.4        | 10                  | ND            | ug/Kg                 | 428075              | INA           |
| Isopropyl Alcohol                                              | SW8260B                                        | NA           | 12/09/15         | 1                                                  | 4.6        | 10                  | ND            | ug/Kg                 | 428075              | NA            |
| Vinyl Chloride                                                 | SW8260B                                        | NA           | 12/09/15         | 1                                                  | 2.6        | 10                  | ND            | ug/Kg                 | 428075              | NA            |
| Bromomethane                                                   | SW8260B                                        | NA           | 12/09/15         | 1                                                  | 4.7        | 10                  | ND            | ug/Kg                 | 428075              | NA            |
| Trichlorofluoromethane                                         | SW8260B                                        | NA           | 12/09/15         | 1                                                  | 2.9        | 10                  | ND            | ug/Kg                 | 428075              | NA            |
| 1,1-Dichloroethene                                             | SW8260B                                        | NA           | 12/09/15         | 1                                                  | 1.5        | 10                  | ND            | ug/Kg                 | 428075              | NA            |
| Freon 113                                                      | SW8260B                                        | NA           | 12/09/15         | 1                                                  | 3.7        | 10                  | ND            | ug/Kg                 | 428075              | NA            |
| Methylene Chloride                                             | SW8260B                                        | NA           | 12/09/15         | 1                                                  | 2.0        | 50                  | ND            | ug/Kg                 | 428075              | NA            |
| trans-1,2-Dichloroethene                                       | SW8260B                                        | NA           | 12/09/15         | 1                                                  | 1.1        | 10                  | ND            | ug/Kg                 | 428075              | NA            |
| MTBE                                                           | SW8260B                                        | NA           | 12/09/15         | 1                                                  | 2.6        | 10                  | ND            | ug/Kg                 | 428075              | NA            |
| tert-Butanol                                                   | SW8260B                                        | NA           | 12/09/15         | 1                                                  | 21         | 50                  | ND            | ug/Kg                 | 428075              | NA            |
| Diisopropyl ether (DIPE)                                       | SW8260B                                        | NA           | 12/09/15         | 1                                                  | 2.2        | 10                  | ND            | ug/Kg                 | 428075              | NA            |
| 1,1-Dichloroethane                                             | SW8260B                                        | NA           | 12/09/15         | 1                                                  | 1.3        | 10                  | ND            | ug/Kg                 | 428075              | NA            |
| ETBE                                                           | SW8260B                                        | NA           | 12/09/15         | 1                                                  | 2.4        | 10                  | ND            | ug/Kg                 | 428075              | NA            |
| cis-1,2-Dichloroethene                                         | SW8260B                                        | NA           | 12/09/15         | 1                                                  | 1.8        | 10                  | ND            | ug/Kg                 | 428075              | NA            |
| 2,2-Dichloropropane                                            | SW8260B                                        | NA           | 12/09/15         | 1                                                  | 1.2        | 10                  | ND            | ug/Kg                 | 428075              | NA            |
| Bromochloromethane                                             | SW8260B                                        | NA           | 12/09/15         | 1                                                  | 2.3        | 10                  | ND            | ug/Kg                 | 428075              | NA            |
| Chloroform                                                     | SW8260B                                        | NA           | 12/09/15         | 1                                                  | 1.2        | 10                  | ND            | ug/Kg                 | 428075              | NA            |
| Carbon Tetrachloride                                           | SW8260B                                        | NA           | 12/09/15         | 1                                                  | 1.6        | 10                  | ND            | ug/Kg                 | 428075              | NA            |
| 1,1,1-Trichloroethane                                          | SW8260B                                        | NA           | 12/09/15         | 1                                                  | 1.2        | 10                  | ND            | ug/Kg                 | 428075              | NA            |
| 1,1-Dichloropropene                                            | SW8260B                                        | NA           | 12/09/15         | 1                                                  | 1.4        | 10                  | ND            | ug/Kg                 | 428075              | NA            |
| Benzene                                                        | SW8260B                                        | NA           | 12/09/15         | 1                                                  | 1.5        | 10                  | ND            | ug/Kg                 | 428075              | NA            |
| TAME                                                           | SW8260B                                        | NA           | 12/09/15         | 1                                                  | 2.1        | 10                  | ND            | ug/Kg                 | 428075              | NA            |
| 1.2-Dichloroethane                                             | SW8260B                                        | NA           | 12/09/15         | 1                                                  | 1.9        | 10                  | ND            | ug/Kg                 | 428075              | NA            |
| Trichloroethylene                                              | SW8260B                                        | NA           | 12/09/15         | 1                                                  | 3.9        | 10                  | ND            | ug/Kg                 | 428075              | NA            |
| Dibromomethane                                                 | SW8260B                                        | NA           | 12/09/15         | 1                                                  | 2.2        | 10                  | ND            | ug/Kg                 | 428075              | NA            |
| 1,2-Dichloropropane                                            | SW8260B                                        | NA           | 12/09/15         | 1                                                  | 1.3        | 10                  | ND            |                       | 428075              | NA            |
| Bromodichloromethane                                           | SW8260B                                        | NA           | 12/09/15         | 1                                                  | 1.3        | 10                  | ND            | ug/Kg                 | -                   |               |
| cis-1,3-Dichloropropene                                        | SW8260B                                        | NA           | 12/09/15         | 1                                                  | 1.1        | 10                  | ND            | ug/Kg                 | 428075              | NA            |
| Toluene                                                        | SW8260B                                        | NA           | 12/09/15         | 1                                                  | 0.98       | 10                  |               | ug/Kg                 | 428075              | NA            |
| Tetrachloroethylene                                            | SW8260B                                        | NA           | 12/09/15         | 1                                                  | 1.8        | 10                  | ND<br>ND      | ug/Kg                 | 428075              | NA            |
| trans-1,3-Dichloroproperte                                     | SW8260B                                        | NA           | 12/09/15         | 1                                                  | 1.0        | 10                  |               | ug/Kg                 | 428075              | NA            |
| 1,1,2-Trichloroethane                                          | SW8260B                                        | NA           | 12/09/15         | 1                                                  | 1.2<br>1.8 | 10                  | ND<br>ND      | ug/Kg                 | 428075              | NA            |
| Dibromochloromethane                                           | SW8260B                                        | NA           | 12/09/15         |                                                    |            |                     |               | ug/Kg                 | 428075              | NA            |
| 1,3-Dichloropropane                                            | SW8260B<br>SW8260B                             | NA           | 12/09/15         | 1                                                  | 1.1        | 10                  | ND            | ug/Kg                 | 428075              | NA            |
| Naphthalene                                                    |                                                |              |                  | 1                                                  | 2.1        | 10                  | ND            | ug/Kg                 | 428075              | NA            |
| naprulaiene                                                    | SW8260B                                        | NA           | 12/09/15         | 1                                                  | 1.7        | 10                  | ND            | ug/Kg                 | 428075              | NA            |



| Report prepared for:                  | Ebbi Hamdieh<br>Bay Area Geotech | nical Grou   | qu                   |        | ·            |           |           |                  |            | eived: 12/0<br>orted: 12/1 |               |
|---------------------------------------|----------------------------------|--------------|----------------------|--------|--------------|-----------|-----------|------------------|------------|----------------------------|---------------|
| Client Sample ID:                     | Tank-2.Bldg 8                    | 3            |                      |        | Lab Sa       | nple ID:  | 15120     | 71-001A          |            |                            |               |
| Project Name/Location:                | Avago Acid Ta                    | nk           |                      |        | Sample       | -         | Soil      |                  |            |                            |               |
| Project Number:                       | ESTEC-01-00                      |              |                      |        |              |           |           |                  |            |                            | - 1           |
| Date/Time Sampled:                    | 12/08/15 /                       |              |                      |        |              |           |           |                  |            |                            |               |
| Tag Number:                           | ES-1 @ 3.5'                      |              |                      |        |              |           |           |                  |            |                            |               |
| Parameters:                           | Analysis<br>Method               | Prep<br>Date | Date<br>Analyzed     | DF     | MDL          | PQL       | Results   | Lab<br>Qualifier | Unit       | Analytical<br>Batch        | Prep<br>Batch |
| Ethyl Benzene                         | SW8260B                          | NA           | 12/09/15             | 1      | 0.86         | 10        | ND        |                  | ug/Kg      | 428075                     |               |
| Chlorobenzene                         | SW8260B                          | NA           | 12/09/15             | 1      | 4.2          | 10        | ND        |                  | ug/Kg      | 428075                     | NA            |
| 1,1,1,2-Tetrachloroethane             | SW8260B                          | NA           | 12/09/15             | 1      | 0.86         | 10        | ND        |                  | ug/Kg      | 428075                     | NA            |
| m,p-Xylene                            | SW8260B                          | NA           | 12/09/15             | 1      | 1.9          | 10        | ND        |                  | ug/Kg      | 428075                     | NA            |
| o-Xylene                              | SW8260B                          | NA           | 12/09/15             | 1      | 0.66         | 5.0       | ND        |                  | ug/Kg      | 428075                     | NA            |
| Styrene                               | SW8260B                          | NA           | 12/09/15             | 1      | 0.77         | 10        | ND        |                  | ug/Kg      | 428075                     | NA            |
| Bromoform                             | SW8260B                          | NA           | 12/09/15             | 1      | 1.9          | 10        | ND        |                  | ug/Kg      | 428075                     | NA            |
| Isopropyl Benzene                     | SW8260B                          | NA.          | 12/09/15             | 1      | 1.2          | 10        | ND        |                  | ug/Kg      | 428075                     | NA            |
| n-Propylbenzene                       | SW8260B                          | NA           | 12/09/15             | 1      | 1.4          | 10        | ND        |                  | ug/Kg      | 428075                     | NA            |
| Bromobenzene                          | SW8260B                          | NA           | 12/09/15             | 1      | 1.2          | 10        | ND        |                  | ug/Kg      | 428075                     | NA            |
| 1,1,2,2-Tetrachloroethane             | SW8260B                          | NA           | 12/09/15             | 1      | 3.0          | 10        | ND        |                  | ug/Kg      | 428075                     | NA            |
| 1,3,5-Trimethylbenzene                | SW8260B                          | NA           | 12/09/15             | 1      | 1.1          | 10        | ND        |                  | ug/Kg      | 428075                     | NA            |
| 1,2,3-Trichloropropane                | SW8260B                          | NA           | 12/09/15             | 1      | 3.3          | 10        | ND        |                  | ug/Kg      | 428075                     | NA            |
| 4-Chlorotoluene                       | SW8260B                          | NA           | 12/09/15             | 1      | 1.6          | 10        | ND        |                  | ug/Kg      | 428075                     | NA            |
| 2-Chlorotoluene                       | SW8260B                          | NA           | 12/09/15             | 1      | 1.6          | 10        | ND        |                  | ug/Kg      | 428075                     | NA            |
| tert-Butylbenzene                     | SW8260B                          | NA           | 12/09/15             | 1      | 1.4          | 10        | ND        |                  | ug/Kg      | 428075                     | NA            |
| 1,2,4-Trimethylbenzene                | SW8260B                          | NA           | 12/09/15             | 1      | 1.1          | 10        | ND        |                  | ug/Kg      | 428075                     | NA            |
| sec-Butyl Benzene                     | SW8260B                          | NA           | 12/09/15             | 1      | 1.6          | 10        | ND        |                  | ug/Kg      | 428075                     | NA            |
| p-isopropyitoluene                    | SW8260B                          | NA           | 12/09/15             | 1      | 1.5          | 10        | ND        |                  | ug/Kg      | 428075                     | NA            |
| 1,3-Dichlorobenzene                   | SW8260B                          | NA           | 12/09/15             | 1      | 1.5          | 10        | ND        |                  |            | 428075                     | NA            |
| 1,4-Dichlorobenzene                   | SW8260B                          | NA           | 12/09/15             | 1      | 1.5          | 10        | ND        |                  | ug/Kg      | 428075                     | NA            |
| n-Butylbenzene                        | SW8260B                          | NA           | 12/09/15             | 1      | 2.2          | 10        | ND        |                  | ug/Kg      |                            |               |
| 1,2-Dichlorobenzene                   | SW8260B                          | NA           | 12/09/15             | 1      | 2.2<br>1.3   | 10        | ND        |                  | ug/Kg      | 428075<br>428075           | NA<br>NA      |
| 1,2-Dibromo-3-Chloropropane           | SW8260B                          | NA           | 12/09/15             | 1      | 4.2          | 10        | ND        |                  | ug/Kg      |                            | NA            |
| Hexachlorobutadiene                   | SW8260B                          | NA           | 12/09/15             |        | 4.2<br>2.6   |           | ND        |                  | ug/Kg      | 428075                     |               |
| 1,2,4-Trichlorobenzene                | SW8260B<br>SW8260B               | NA           |                      | 1<br>1 | 2.0<br>2.1   | 10<br>10  |           |                  | ug/Kg      | 428075                     | NA            |
| Naphthalene                           |                                  |              | 12/09/15             | 1<br>1 |              |           | ND        |                  | ug/Kg      | 428075                     | NA            |
| Naphinalene<br>1,2,3-Trichlorobenzene | SW8260B<br>SW8260B               | NA<br>NA     | 12/09/15             | 1      | 2.8<br>2.9   | 10<br>10  | ND<br>ND  |                  | ug/Kg      | 428075<br>428075           | NA            |
| (S) Dibromofluoromethane              | SW8260B<br>SW8260B               | NA<br>NA     | 12/09/15<br>12/09/15 | 1<br>1 | 2.9<br>59.8  | 10<br>148 | ND<br>118 |                  | ug/Kg<br>% | 428075<br>428075           | NA<br>NA      |
| (S) Toluene-d8                        | SW8260B<br>SW8260B               | NA           | 12/09/15             | 1      | 59.8<br>55.2 | 148       | 81.1      |                  | %<br>%     | 428075                     | NA<br>NA      |
| (S) 4-Bromofluorobenzene              | SW8260B                          | NA           | 12/09/15             | 1      | 55.2<br>55.8 | 141       | 111       |                  | %<br>%     | 428075<br>428075           | NA            |
| Parameters:                           | Analysis<br>Method               | Prep<br>Date | Date<br>Analyzed     | DF     | MDL          | PQL       | Results   | Lab<br>Qualifier | Unit       | Analytical<br>Batch        | Prep<br>Batch |
| рН                                    | SW9045C                          | NA           | 12/10/15             | 1      | 0.10         | 2.0       | 7.12      |                  | S.U.       | 428089                     | NA            |



| Report prepared for:                                                                                | Ebbi Hamdieh<br>Bay Area Geotechr                                         | nical Grou                                         | p                |    |        |      |         |                  |       | eived: 12/0<br>orted: 12/1 |               |
|-----------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------|----------------------------------------------------|------------------|----|--------|------|---------|------------------|-------|----------------------------|---------------|
| Client Sample ID:<br>Project Name/Location:<br>Project Number:<br>Date/Time Sampled:<br>Tag Number: | Tank-1.Bldg 90<br>Avago Acid Ta<br>ESTEC-01-00<br>12/08/15 /<br>ES-2 @ 4' | Lab Sample ID: 1512071-002A<br>Sample Matrix: Soil |                  |    |        |      |         |                  |       |                            |               |
| Parameters:                                                                                         | Analysis<br>Method                                                        | Prep<br>Date                                       | Date<br>Analyzed | DF | MDL    | PQL  | Results | Lab<br>Qualifier | Unit  | Analytical<br>Batch        | Prep<br>Batch |
| Fluoride                                                                                            | E300.0M                                                                   | NA                                                 | 12/09/15         | 1  | 0.97   | 2.0  | 3.6     |                  | mg/Kg | 428090                     | NA            |
| Chloride                                                                                            | E300.0M                                                                   | NA                                                 | 12/09/15         | 1  | 10.0   | 20   | ND      |                  | mg/Kg | 428090                     | NA            |
| Parameters:                                                                                         | Analysis<br>Method                                                        | Prep<br>Date                                       | Date<br>Analyzed | DF | MDL    | PQL  | Results | Lab<br>Qualifier | Unit  | Analytical<br>Batch        | Prep<br>Batch |
| Antimony                                                                                            | SW6010B                                                                   | 12/10/15                                           | 12/10/15         | 1  | 0.20   | 5.0  | ND      |                  | mg/Kg | 428080                     | 15918         |
| Arsenic                                                                                             | SW6010B                                                                   | 12/10/15                                           | 12/10/15         | 1  | 0.25   | 1.7  | 7.8     |                  | mg/Kg | 428080                     | 15918         |
| Barium                                                                                              | SW6010B                                                                   | 12/10/15                                           | 12/10/15         | 1  | 0.07   | 5.0  | 150     |                  | mg/Kg | 428080                     | 15918         |
| Beryllium                                                                                           | SW6010B                                                                   | 12/10/15                                           | 12/10/15         | 1  | 0.0800 | 2.0  | ND      |                  | mg/Kg | 428080                     | 15918         |
| Cadmium                                                                                             | SW6010B                                                                   | 12/10/15                                           | 12/10/15         | 1  | 0.0550 | 1.0  | ND      |                  | mg/Kg | 428080                     | 15918         |
| Chromium                                                                                            | SW6010B                                                                   | 12/10/15                                           | 12/10/15         | 1  | 0.0500 | 5.0  | 37      |                  | mg/Kg | 428080                     | 15918         |
| Cobalt                                                                                              | SW6010B                                                                   | 12/10/15                                           | 12/10/15         | 1  | 0.055  | 5.0  | 7.8     |                  | mg/Kg | 428080                     | 15918         |
| Copper                                                                                              | SW6010B                                                                   | 12/10/15                                           | 12/10/15         | 1  | 0.650  | 5.0  | 18      |                  | mg/Kg | 428080                     | 15918         |
| Lead                                                                                                | SW6010B                                                                   | 12/10/15                                           | 12/10/15         | 1  | 0.14   | 1.0  | 4.9     |                  | mg/Kg | 428080                     | 15918         |
| Molybdenum                                                                                          | SW6010B                                                                   | 12/10/15                                           | 12/10/15         | 1  | 0.120  | 5.0  | ND      |                  | mg/Kg | 428080                     | 15918         |
| Nickel                                                                                              | SW6010B                                                                   | 12/10/15                                           | 12/10/15         | 1  | 0.0500 | 5.0  | 46      |                  | mg/Kg | 428080                     | 15918         |
| Selenium                                                                                            | SW6010B                                                                   | 12/10/15                                           | 12/10/15         | 1  | 0.42   | 5.0  | ND      |                  | mg/Kg | 428080                     | 15918         |
| Silver                                                                                              | SW6010B                                                                   | 12/10/15                                           | 12/10/15         | 1  | 0.37   | 5.0  | ND      |                  | mg/Kg | 428080                     | 15918         |
| Thallium                                                                                            | SW6010B                                                                   | 12/10/15                                           | 12/10/15         | 1  | 0.49   | 7.5  | ND      |                  | mg/Kg | 428080                     | 15918         |
| Vanadium                                                                                            | SW6010B                                                                   | 12/10/15                                           | 12/10/15         | 1  | 0.18   | 5.0  | 33      |                  | mg/Kg | 428080                     | 15918         |
| Zinc                                                                                                | SW6010B                                                                   | 12/10/15                                           | 12/10/15         | 1  | 0.25   | 5.0  | 36      |                  | mg/Kg | 428080                     | 15918         |
| Parameters:                                                                                         | Analysis<br>Method                                                        | Prep<br>Date                                       | Date<br>Analyzed | DF | MDL    | PQL  | Results | Lab<br>Qualifier | Unit  | Analytical<br>Batch        | Prep<br>Batch |
| Mercury                                                                                             | SW7471A                                                                   | 12/10/15                                           | 12/10/15         | 1  | 0.2    | 0.50 | ND      |                  | mg/Kg | 428081                     | 15919         |



| Report prepared for:                                                                 | Ebbi Hamdieh<br>Bay Area Geotechr                            | nical Gro    | up               |    |                   |                     |               |                      | ceived: 12/0<br>ported: 12/1 |               |
|--------------------------------------------------------------------------------------|--------------------------------------------------------------|--------------|------------------|----|-------------------|---------------------|---------------|----------------------|------------------------------|---------------|
| Client Sample ID:<br>Project Name/Location:<br>Project Number:<br>Date/Time Sampled: | Tank-1.Bldg 90<br>Avago Acid Ta<br>ESTEC-01-00<br>12/08/15 / |              |                  |    | Lab Sar<br>Sample | nple ID:<br>Matrix: | 1512(<br>Soil | 071-002A             |                              |               |
| Tag Number:                                                                          | ES-2 @ 4'                                                    |              |                  |    |                   |                     |               |                      |                              |               |
| Parameters:                                                                          | Analysis<br>Method                                           | Prep<br>Date | Date<br>Analyzed | DF | MDL               | PQL                 | Results       | Lab Uni<br>Qualifier | Analytical<br>Batch          | Prep<br>Batch |
| Dichlorodifluoromethane                                                              | SW8260B                                                      | NA           | 12/09/15         | 1  | 4.4               | 10                  | ND            | ug/K                 | g 428075                     | ŇA            |
| Isopropyl Alcohol                                                                    | SW8260B                                                      | NA           | 12/09/15         | 1  | 4.6               | 10                  | ND            | ug/K                 | g 428075                     | NA            |
| Vinyl Chloride                                                                       | SW8260B                                                      | NA           | 12/09/15         | 1  | 2.6               | 10                  | ND            | ug/K                 | g 428075                     | NA            |
| Bromomethane                                                                         | SW8260B                                                      | NA           | 12/09/15         | 1  | 4.7               | 10                  | ND            | ug/K                 | g 428075                     | NA            |
| Trichlorofluoromethane                                                               | SW8260B                                                      | NA           | 12/09/15         | 1  | 2.9               | 10                  | ND            | ug/K                 | g 428075                     | NA            |
| 1,1-Dichloroethene                                                                   | SW8260B                                                      | NA           | 12/09/15         | 1  | 1.5               | 10                  | ND            | ug/K                 | g 428075                     | NA            |
| Freon 113                                                                            | SW8260B                                                      | NA           | 12/09/15         | 1  | 3.7               | 10                  | ND            | ug/K                 | g 428075                     | NA            |
| Methylene Chloride                                                                   | SW8260B                                                      | NA           | 12/09/15         | 1  | 2.0               | 50                  | ND            | ug/K                 | g 428075                     | NA            |
| trans-1,2-Dichloroethene                                                             | SW8260B                                                      | NA           | 12/09/15         | 1  | 1.1               | 10                  | ND            | ug/K                 | g 428075                     | NA            |
| MTBE                                                                                 | SW8260B                                                      | NA           | 12/09/15         | 1  | 2.6               | 10                  | ND            | ug/K                 | g 428075                     | NA            |
| ert-Butanol                                                                          | SW8260B                                                      | NA           | 12/09/15         | 1  | 21                | 50                  | ND            | ug/K                 | g 428075                     | NA            |
| Diisopropyl ether (DIPE)                                                             | SW8260B                                                      | NA           | 12/09/15         | 1  | 2.2               | 10                  | ND            | ug/K                 | g 428075                     | NA            |
| 1,1-Dichloroethane                                                                   | SW8260B                                                      | NA           | 12/09/15         | 1  | 1.3               | 10                  | ND            | ug/K                 | g 428075                     | NA            |
| ETBE                                                                                 | SW8260B                                                      | NA           | 12/09/15         | 1  | 2.4               | 10                  | ND            | ug/K                 | g 428075                     | NA            |
| cis-1,2-Dichloroethene                                                               | SW8260B                                                      | NA           | 12/09/15         | 1  | 1.8               | 10                  | ND            | ug/K                 | -                            | NA            |
| 2,2-Dichloropropane                                                                  | SW8260B                                                      | NA           | 12/09/15         | 1  | 1.2               | 10                  | ND            | ug/K                 | g 428075                     | NA            |
| Bromochloromethane                                                                   | SW8260B                                                      | NA           | 12/09/15         | 1  | 2.3               | 10                  | ND            | ug/K                 | g 428075                     | NA            |
| Chloroform                                                                           | SW8260B                                                      | NA           | 12/09/15         | 1  | 1.2               | 10                  | ND            | ug/K                 | -                            | NA            |
| Carbon Tetrachloride                                                                 | SW8260B                                                      | NA           | 12/09/15         | 1  | 1.6               | 10                  | ND            | ug/K                 | -                            | NA            |
| 1,1,1-Trichloroethane                                                                | SW8260B                                                      | NA           | 12/09/15         | 1  | 1.2               | 10                  | ND            | ug/K                 | -                            | NA            |
| 1,1-Dichloropropene                                                                  | SW8260B                                                      | NA           | 12/09/15         | 1  | 1.4               | 10                  | ND            | ug/K                 | -                            | NA            |
| Benzene                                                                              | SW8260B                                                      | NA           | 12/09/15         | 1  | 1.5               | 10                  | ND            | ug/k                 | -                            | NA            |
| TAME                                                                                 | SW8260B                                                      | NA           | 12/09/15         | 1  | 2.1               | 10                  | ND            | ug/k                 | -                            | NA            |
| 1.2-Dichloroethane                                                                   | SW8260B                                                      | NA           | 12/09/15         | 1  | 1.9               | 10                  | ND            | ug/k                 | 0                            | NA            |
| Trichloroethylene                                                                    | SW8260B                                                      | NA           | 12/09/15         | 1  | 3.9               | 10                  | ND            | ug/M                 | •                            | NA            |
| Dibromomethane                                                                       | SW8260B                                                      | NA           | 12/09/15         | 1  | 2.2               | 10                  | ND            | ug/k                 | 0                            | NA            |
| 1,2-Dichloropropane                                                                  | SW8260B                                                      | NA           | 12/09/15         | 1  | 1.3               | 10                  | ND            | ug/k                 | •                            | NA            |
| Bromodichloromethane                                                                 | SW8260B                                                      | NA           | 12/09/15         | 1  | 1.0               | 10                  | ND            | ug/k                 | 5                            | NA            |
| cis-1,3-Dichloropropene                                                              | SW8260B                                                      | NA           | 12/09/15         | 1  | 1.4               | 10                  | ND            | ug/k                 | •                            | NA            |
| Toluene                                                                              | SW8260B                                                      | NA           | 12/09/15         | 1  | 0.98              | 10                  | ND            | ug/k                 | -                            | NA            |
| Tetrachloroethylene                                                                  | SW8260B                                                      | NA           | 12/09/15         | 1  | 1.8               | 10                  | ND            | ug/k                 | -                            | NA            |
| trans-1,3-Dichloropropene                                                            | SW8260B                                                      | NA           | 12/09/15         | 1  | 1.0               | 10                  | ND            | ug/k                 | •                            | NA            |
| 1,1,2-Trichloroethane                                                                | SW8260B                                                      | NA           | 12/09/15         | 1  | 1.2               | 10                  | ND            | ug/k                 | -                            | NA            |
| Dibromochloromethane                                                                 | SW8260B                                                      | NA           | 12/09/15         | 1  | 1.0               | 10                  | ND            | ug/k                 | -                            | NA            |
| -                                                                                    | SW8260B                                                      | NA           | 12/09/15         | 1  | 2.1               | 10                  | ND            | ug/k                 | •                            | NA            |
| 1,3-Dichloropropane                                                                  |                                                              |              |                  |    |                   |                     |               | ug/r                 | •                            | NA            |
| Naphthalene                                                                          | SW8260B                                                      | NA           | 12/09/15         | 1  | 1.7               | 10                  | ND            | ug/r                 | -y -20075                    | 11/1          |



| Report prepared for:                       | Ebbi Hamdieh<br>Bay Area Geotechi | nical Gro    | up                   |        |              |            |             |                  |        | eived: 12/0<br>orted: 12/1 |               |
|--------------------------------------------|-----------------------------------|--------------|----------------------|--------|--------------|------------|-------------|------------------|--------|----------------------------|---------------|
| Client Sample ID:                          | Tank-1.Bldg 90                    | ט            |                      |        | Lab Sa       | mple ID:   | 15120       | 71-002A          |        |                            |               |
| Project Name/Location:                     | Avago Acid Ta                     | nk           |                      |        | Sample       | Matrix:    | Soil        |                  |        |                            |               |
| Project Number:                            | ESTEC-01-00                       |              |                      |        |              |            |             |                  |        |                            |               |
| Date/Time Sampled:                         | 12/08/15 /                        |              |                      |        |              |            |             |                  |        |                            |               |
| Tag Number:                                | ES-2 @ 4'                         |              |                      |        |              |            |             |                  |        |                            |               |
| Parameters:                                | Analysis<br>Method                | Prep<br>Date | Date<br>Analyzed     | DF     | MDL          | PQL        | Results     | Lab<br>Qualifier | Unit   | Analytical<br>Batch        | Prep<br>Batch |
| Ethyl Benzene                              | SW8260B                           | NA           | 12/09/15             | 1      | 0.86         | 10         | ND          | 1 1              | ug/Kg  | 428075                     | NA            |
| Chlorobenzene                              | SW8260B                           | NA           | 12/09/15             | 1      | 4.2          | 10         | ND          |                  | ug/Kg  | 428075                     | NA            |
| 1,1,1,2-Tetrachloroethane                  | SW8260B                           | NA           | 12/09/15             | 1      | 0.86         | 10         | ND          |                  | ug/Kg  | 428075                     | NA            |
| m,p-Xylene                                 | SW8260B                           | NA           | 12/09/15             | 1      | 1.9          | 10         | ND          |                  | ug/Kg  | 428075                     | NA            |
| o-Xylene                                   | SW8260B                           | NA           | 12/09/15             | 1      | 0.66         | 5.0        | ND          |                  | ug/Kg  | 428075                     | NA            |
| Styrene                                    | SW8260B                           | NA           | 12/09/15             | 1      | 0.77         | 10         | ND          |                  | ug/Kg  | 428075                     | NA            |
| Bromoform                                  | SW8260B                           | NA           | 12/09/15             | 1      | 1.9          | 10         | ND          |                  | ug/Kg  | 428075                     | NA            |
| Isopropyl Benzene                          | SW8260B                           | NA           | 12/09/15             | 1      | 1.2          | 10         | ND          |                  | ug/Kg  | 428075                     | NA            |
| n-Propylbenzene                            | SW8260B                           | NA           | 12/09/15             | 1      | 1.4          | 10         | ND          |                  | ug/Kg  | 428075                     | NA            |
| Bromobenzene                               | SW8260B                           | NA           | 12/09/15             | 1      | 1.2          | 10         | ND          |                  | ug/Kg  | 428075                     | NA            |
| 1,1,2,2-Tetrachloroethane                  | SW8260B                           | NA           | 12/09/15             | 1      | 3.0          | 10         | ND          |                  | ug/Kg  | 428075                     | NA            |
| 1,3,5-Trimethylbenzene                     | SW8260B                           | NA           | 12/09/15             | 1      | 1.1          | 10         | ND          |                  | ug/Kg  | 428075                     | NA            |
| 1,2,3-Trichloropropane                     | SW8260B                           | NA           | 12/09/15             | 1      | 3.3          | 10         | ND          |                  | ug/Kg  | 428075                     | NA            |
| 4-Chlorotoluene                            | SW8260B                           | NA           | 12/09/15             | 1      | 1.6          | 10         | ND          |                  | ug/Kg  | 428075                     | NA            |
| 2-Chlorotoluene                            | SW8260B                           | NA           | 12/09/15             | 1      | 1.6          | 10         | ND          |                  | ug/Kg  | 428075                     | NA            |
| tert-Butylbenzene                          | SW8260B                           | NA           | 12/09/15             | 1      | 1.4          | 10         | ND          |                  | ug/Kg  | 428075                     | NA            |
| 1,2,4-Trimethylbenzene                     | SW8260B                           | NA           | 12/09/15             | 1      | 1.1          | 10         | ND          |                  | ug/Kg  | 428075                     | NA            |
| sec-Butyl Benzene                          | SW8260B                           | NA           | 12/09/15             | 1      | 1.6          | 10         | ND          |                  | ug/Kg  | 428075                     | NA            |
| p-Isopropyltoluene                         | SW8260B                           | NA           | 12/09/15             | 1      | 1.5          | 10         | ND          |                  | ug/Kg  | 428075                     | NA            |
| 1,3-Dichlorobenzene                        | SW8260B                           | NA           | 12/09/15             | 1      | 1.8          | 10         | ND          |                  | ug/Kg  | 428075                     | NA            |
| 1,4-Dichlorobenzene                        | SW8260B                           | NA           | 12/09/15             | 1      | 1.5          | 10         | ND          |                  | ug/Kg  | 428075                     | NA            |
| n-Butylbenzene                             | SW8260B                           | NA           | 12/09/15             | 1      | 2.2          | 10         | ND          |                  | ug/Kg  | 428075                     | NA            |
| 1,2-Dichlorobenzene                        | SW8260B                           | NA           | 12/09/15             | 1      | 1.3          | 10         | ND          |                  | ug/Kg  | 428075                     | NA            |
| 1,2-Dibromo-3-Chloropropane                | SW8260B                           | NA           | 12/09/15             | 1      | 4.2          | 10         | ND          |                  | ug/Kg  | 428075                     | NA            |
| Hexachlorobutadiene                        | SW8260B                           | NA           | 12/09/15             | 1      | 2.6          | 10         | ND          |                  | ug/Kg  | 428075                     | NA            |
| 1,2,4-Trichlorobenzene                     | SW8260B                           | NA           | 12/09/15             | 1      | 2.1          | 10         | ND          |                  | ug/Kg  | 428075                     | NA            |
| Naphthalene                                | SW8260B                           | NA           | 12/09/15             | 1      | 2.8          | 10         | ND          |                  | ug/Kg  | 428075                     | NA            |
| 1,2,3-Trichlorobenzene                     | SW8260B                           | NA           | 12/09/15             | 1      | 2.9          | 10         | ND          |                  | ug/Kg  | 428075                     | NA            |
| (S) Dibromofluoromethane                   | SW8260B                           | NA           | 12/09/15             | 1      | 59.8<br>55.0 | 148        | 116         |                  | %      | 428075                     | NA            |
| (S) Toluene-d8<br>(S) 4-Bromofluorobenzene | SW8260B<br>SW8260B                | NA<br>NA     | 12/09/15<br>12/09/15 | 1<br>1 | 55.2<br>55.8 | 133<br>141 | 79.5<br>107 |                  | %<br>% | 428075<br>428075           | NA<br>NA      |
| Parameters:                                | Analysis<br>Method                | Prep<br>Date | Date<br>Analyzed     | DF     | MDL          | PQL        | Results     | Lab<br>Qualifier | Unit   | Analytical<br>Batch        | Prep<br>Batch |
| pH                                         | SW9045C                           | NA           | 12/10/15             | 1      | 0.10         | 2.0        | 8.09        |                  | S.U.   | 428089                     | NA            |



| Work Order:                          | 1512071 | Prep Method:     5035     Prep Date:       Analytical     8260TPH     Analyzed Date:       Method:     1     1 | 12/09/15   | Prep Batch:              | 15915            |            |          |             |        |
|--------------------------------------|---------|----------------------------------------------------------------------------------------------------------------|------------|--------------------------|------------------|------------|----------|-------------|--------|
| Matrix:                              | Soil    |                                                                                                                |            | 8260TPH                  | Anal             | yzed Date: | 12/09/15 | Analytical  | 428075 |
| Units:                               | ug/Kg   | Metho                                                                                                          | od:        |                          |                  |            | _        | Batch:      |        |
| Parameters                           |         | MDL                                                                                                            | PQL        | Method<br>Blank<br>Conc. | Lab<br>Qualifier |            |          |             |        |
| TPH as Gasoline<br>(S) 4-Bromofluoro | benzene | 30                                                                                                             | 100        | 84<br>92.5               |                  |            |          |             |        |
| Work Order:                          | 1512071 | Prep                                                                                                           | Method:    | 5035                     | Prep             | Date:      | 12/09/15 | Prep Batch: | 15915  |
| Matrix:                              | Soil    | Analy                                                                                                          | Analytical |                          | Anal             | yzed Date: | 12/09/15 | Analytical  | 428075 |
| Units:                               | ug/Kg   | Metho                                                                                                          |            | 8260TPH                  |                  |            |          | Batch:      |        |
| Parameters                           |         | MDL                                                                                                            | PQL        | Method<br>Blank<br>Conc. | Lab<br>Qualifier |            |          |             |        |
| TPH as Gasoline<br>(S) 4-Bromofluoro | benzene | 3000                                                                                                           | 10000      | 8100<br>93.3             |                  |            |          |             |        |
| Work Order:                          | 1512071 | Prep                                                                                                           | Method:    | 3050                     | Prep             | Date:      | 12/10/15 | Prep Batch: | 15918  |
| Matrix:                              | Soil    | Analy                                                                                                          |            | SW6010B                  | Anal             | yzed Date: | 12/10/15 | Analyticai  | 428080 |
| Units:                               | mg/Kg   | Metho                                                                                                          | od:        |                          |                  |            |          | Batch:      |        |
| Parameters                           |         | MDL                                                                                                            | PQL        | Method<br>Blank<br>Conc. | Lab<br>Qualifier |            |          |             |        |
| Antimony                             |         | 0.20                                                                                                           | 5.0        | ND                       |                  |            |          |             |        |
| Arsenic                              |         | 0.25                                                                                                           | 1.7        | ND                       |                  |            |          |             |        |
| Barium                               |         | 0.07                                                                                                           | 5.0        | ND                       |                  |            |          |             |        |
| Beryllium                            |         | 0.0800                                                                                                         | 2.0        | ND                       |                  |            |          |             |        |
| Cadmium                              |         | 0.055                                                                                                          | 1.0        | ND                       |                  |            |          |             |        |
| Chromium                             |         | 0.050                                                                                                          | 5.0        | ND                       |                  |            |          |             |        |
| Cobalt                               |         | 0.055<br>0.65                                                                                                  | 5.0<br>5.0 | ND<br>ND                 |                  |            |          |             |        |
| Copper<br>Lead                       |         | 0.65                                                                                                           | 5.0<br>1.0 | ND                       |                  |            |          |             |        |
| Molybdenum                           |         | 0.14                                                                                                           | 5.0        | ND                       |                  |            |          |             |        |
| Nickel                               |         | 0.050                                                                                                          | 5.0        | 0.13                     |                  |            |          |             |        |
| Selenium                             |         | 0.42                                                                                                           | 5.0        | 0.90                     |                  |            |          |             |        |
| Silver                               |         | 0.37                                                                                                           | 5.0        | ND                       |                  |            |          |             |        |
| Thallium                             |         | 0.49                                                                                                           | 5.0        | ND                       |                  |            |          |             |        |
| Vanadium                             |         | 0.18                                                                                                           | 5.0        | ND                       |                  |            |          |             |        |
|                                      |         | 0.25                                                                                                           | 5.0        | 2.8                      |                  |            |          |             |        |



| Work Order:     | 1512071 | Prep N | Aethod: | 7471                     | Prep             | Date:     | 12/10/15 | Prep Batch:         | 15919  |
|-----------------|---------|--------|---------|--------------------------|------------------|-----------|----------|---------------------|--------|
| Matrix:         | Soil    | Analy  |         | SW7471A                  | Anal             | zed Date: | 12/10/15 | Analytical          | 428081 |
| Units:          | mg/Kg   | Metho  | d:      |                          |                  |           |          | Batch:              |        |
| Parameters      |         | MDL    | PQL     | Method<br>Blank<br>Conc. | Lab<br>Qualifier |           |          | · <u>·····</u> ···· |        |
| Mercury         |         | 0.2    | 0.50    | ND                       |                  |           |          |                     |        |
| Work Order:     | 1512071 | Prep I | Nethod: | WET/3010B                | Prep             | Date:     | 12/16/15 | Prep Batch:         | 15957  |
| Matrix:         | Soil    |        |         | SW6010B                  | Anal             | zed Date: | 12/16/15 | Analytical          | 428164 |
| Units:          | mg/L    | Metho  | d:      |                          |                  |           |          | Batch:              |        |
| Parameters      |         | MDL    | PQL     | Method<br>Blank<br>Conc. | Lab<br>Qualifier |           |          |                     |        |
| Arsenic (STLC)  |         | 0.0500 | 0.10    | ND                       |                  |           |          |                     |        |
| Chromium (STLC) |         | 0.0200 | 0.10    | ND                       |                  |           |          |                     |        |
| Lead (STLC)     |         | 0.0500 | 0.10    | ND                       |                  |           |          |                     |        |
| Work Order:     | 1512071 | Prep ! | Method: | WET/7470A                | Prep             | Date:     | 12/16/15 | Prep Batch:         | 15960  |
| Matrix:         | Soil    | Analy  |         | SW7470A                  | Anal             | zed Date: | 12/16/15 | Analytical          | 428170 |
| Units:          | mg/L    | Metho  | od:     |                          |                  |           |          | Batch:              |        |
| Parameters      |         | MDL    | PQL     | Method<br>Blank<br>Conc. | Lab<br>Qualifier |           |          |                     |        |
| Mercury (STLC)  |         | 0.0003 | 0.003   | 0.0003                   |                  |           |          |                     |        |



| Work Order:         | 1512071  | Prep Method |     | NA                       | Prep             | Date:      | NA                                      | Prep Batch: | NA     |
|---------------------|----------|-------------|-----|--------------------------|------------------|------------|-----------------------------------------|-------------|--------|
| Matrix:             | Soil     | Analy       |     | SW8260B                  | Anal             | yzed Date: | 12/09/15                                | Analytical  | 428075 |
| Units:              | ug/Kg    | Metho       | d:  |                          |                  |            |                                         | Batch:      |        |
|                     |          |             |     |                          |                  |            |                                         |             |        |
| Parameters          |          | MDL         | PQL | Method<br>Blank<br>Conc. | Lab<br>Qualifier |            |                                         |             |        |
| Dichlorodifluorome  | ethane   | 4.4         | 10  | ND                       |                  |            | · • • • • • • • • • • • • • • • • • • • |             |        |
| Isopropyl Alcohol   |          | 4.6         | 10  | ND                       |                  |            |                                         |             |        |
| Vinyl Chloride      |          | 2.6         | 10  | ND                       |                  |            |                                         |             |        |
| Bromomethane        |          | 4.7         | 10  | ND                       |                  |            |                                         |             |        |
| Trichlorofluoromet  | hane     | 2.9         | 10  | ND                       |                  |            |                                         |             |        |
| 1,1-Dichloroethen   | e        | 1.5         | 10  | ND                       |                  |            |                                         |             |        |
| Freon 113           |          | 3.7         | 10  | ND                       |                  |            |                                         |             |        |
| Methylene Chlorid   | e        | 2.0         | 50  | ND                       |                  |            |                                         |             |        |
| trans-1,2-Dichloro  | ethene   | 1.1         | 10  | ND                       |                  |            |                                         |             |        |
| MTBE                |          | 2.6         | 10  | ND                       |                  |            |                                         |             |        |
| tert-Butanol        |          | 21          | 50  | ND                       |                  |            |                                         |             |        |
| Diisopropyl ether ( | (DIPE)   | 2.2         | 10  | ND                       |                  |            |                                         |             |        |
| 1,1-Dichloroethan   | e        | 1.3         | 10  | ND                       |                  |            |                                         |             |        |
| ETBE                |          | 2.4         | 10  | ND                       |                  |            |                                         |             |        |
| cis-1,2-Dichloroet  | hene     | 1.8         | 10  | ND                       |                  |            |                                         |             |        |
| 2,2-Dichloropropa   | ne       | 1.2         | 10  | ND                       |                  |            |                                         |             |        |
| Bromochlorometh     | ane      | 2.3         | 10  | ND                       |                  |            |                                         |             |        |
| Chloroform          |          | 1.2         | 10  | ND                       |                  |            |                                         |             |        |
| Carbon Tetrachlor   | ride     | 1.6         | 10  | ND                       |                  |            |                                         |             |        |
| 1,1,1-Trichloroeth  | ane      | 1.2         | 10  | ND                       |                  |            |                                         |             |        |
| 1,1-Dichloroprope   |          | 1.4         | 10  | ND                       |                  |            |                                         |             |        |
| Benzene             |          | 1.5         | 10  | ND                       |                  |            |                                         |             |        |
| TAME                |          | 2.1         | 10  | ND                       |                  |            |                                         |             |        |
| 1,2-Dichloroethan   | e        | 1.9         | 10  | ND                       |                  |            |                                         |             |        |
| Trichloroethylene   |          | 3.9         | 10  | ND                       |                  |            |                                         |             |        |
| Dibromomethane      |          | 2.2         | 10  | ND                       |                  |            |                                         |             |        |
| 1,2-Dichloropropa   |          | 1.3         | 10  | ND                       |                  |            |                                         |             |        |
| Bromodichlorome     |          | 1.1         | 10  | ND                       |                  |            |                                         |             |        |
| cis-1,3-Dichloropr  |          | 1.4         | 10  | ND                       |                  |            |                                         | ·           |        |
| Toluene             | -        | 0.98        | 10  | 0.98                     |                  |            |                                         |             |        |
| Tetrachloroethyle   | ne       | 1.8         | 10  | ND                       |                  |            |                                         |             |        |
| trans-1,3-Dichloro  |          | 1.2         | 10  | ND                       |                  |            |                                         |             |        |
| 1,1,2-Trichloroeth  |          | 1.8         | 10  | ND                       |                  |            |                                         |             |        |
| Dibromochlorome     |          | 1.1         | 10  | ND                       |                  |            |                                         |             |        |
| 1,3-Dichloropropa   |          | 2.1         | 10  | ND                       |                  |            |                                         |             |        |
| Naphthalene         |          | 1.7         | 10  | ND                       |                  |            |                                         |             |        |
| Ethyl Benzene       |          | 0.86        | 10  | ND                       |                  |            |                                         |             |        |
| Chlorobenzene       |          | 4.2         | 10  | ND                       |                  |            |                                         |             |        |
| 1,1,1,2-Tetrachlor  | roethane | 0.86        | 10  | ND                       |                  |            |                                         |             |        |
| m,p-Xylene          |          | 1.9         | 10  | 2.2                      |                  |            |                                         |             |        |
| o-Xylene            |          | 0.66        | 5.0 | ND                       |                  |            |                                         |             |        |



| Work Order:         | 1512071    | Prep  | Method: | NA                       | Prep             | Date:     | NA       | Prep Batch: | NA     |
|---------------------|------------|-------|---------|--------------------------|------------------|-----------|----------|-------------|--------|
| Matrix:             | Soil       | Analy |         | SW8260B                  | Analy            | zed Date: | 12/09/15 | Analytical  | 428075 |
| Units: ug/Kg        | ug/Kg      | Metho | od:     |                          |                  |           |          | Batch:      |        |
| Parameters          |            | MDL   | PQL     | Method<br>Blank<br>Conc. | Lab<br>Qualifier |           |          |             |        |
| Styrene             |            | 0.77  | 10      | 2.0                      | •                |           |          |             |        |
| Bromoform           |            | 1.9   | 10      | ND                       |                  |           |          |             |        |
| Isopropyl Benzene   |            | 1.2   | 10      | ND                       |                  |           |          |             |        |
| n-Propylbenzene     |            | 1.4   | 10      | ND                       |                  |           |          |             |        |
| Bromobenzene        |            | 1.2   | 10      | ND                       |                  |           |          |             |        |
| 1,1,2,2-Tetrachloro | ethane     | 3.0   | 10      | ND                       |                  |           |          |             |        |
| 1,3,5-Trimethylben: | zene       | 1.1   | 10      | ND                       |                  |           |          |             |        |
| 1,2,3-Trichloroprop | ane        | 3.3   | 10      | ND                       |                  |           |          |             |        |
| 4-Chlorotoluene     |            | 1.6   | 10      | ND                       |                  |           |          |             |        |
| 2-Chlorotoluene     |            | 1.6   | 10      | ND                       |                  |           |          |             |        |
| tert-Butylbenzene   |            | 1.4   | 10      | ND                       |                  |           |          |             |        |
| 1,2,4-Trimethylben: | zene       | 1.1   | 10      | ND                       |                  |           |          |             |        |
| sec-Butyl Benzene   |            | 1.6   | 10      | ND                       |                  |           |          |             |        |
| p-Isopropyltoluene  |            | 1.5   | 10      | ND                       |                  |           |          |             |        |
| 1,3-Dichlorobenzer  | ne         | 1.8   | 10      | ND                       |                  |           |          |             |        |
| 1,4-Dichlorobenzer  | ne         | 1.5   | 10      | ND                       |                  |           |          |             |        |
| n-Butylbenzene      |            | 2.2   | 10      | ND                       |                  |           |          |             |        |
| 1,2-Dichlorobenzer  | ne         | 1.3   | 10      | ND                       |                  |           |          |             |        |
| 1,2-Dibromo-3-Chlo  | propropane | 4.2   | 10      | ND                       |                  |           |          |             |        |
| Hexachlorobutadie   |            | 2.6   | 10      | ND                       |                  |           |          |             |        |
| 1,2,4-Trichlorobenz | ene        | 2.1   | 10      | ND                       |                  |           |          |             |        |
| Naphthalene         |            | 2.8   | 10      | 3.2                      |                  |           |          |             |        |
| 1,2,3-Trichlorobenz | ene        | 2.9   | 10      | ND                       |                  |           |          |             |        |
| (S) Dibromofluorom  | nethane    |       |         | 111                      |                  |           |          |             |        |
| (S) Toluene-d8      |            |       |         | 78.6                     |                  |           |          |             |        |
| (S) 4-Bromofluorob  | enzene     |       |         | 101                      |                  |           |          |             |        |



| Work Order:        | 1512071  | Prep M | lethod: | NA                       | Prep             | Date:      | NA       | Prep Batch: | NA     |
|--------------------|----------|--------|---------|--------------------------|------------------|------------|----------|-------------|--------|
| Matrix:            | Soil     | Analyt |         | SW8260B                  | Anat             | yzed Date: | 12/09/15 | Analytical  | 428075 |
| Units:             | ug/Kg    | Metho  | d:      |                          |                  |            |          | Batch:      |        |
|                    |          |        |         |                          |                  |            |          |             |        |
| Parameters         |          | MDL    | PQL     | Method<br>Blank<br>Conc. | Lab<br>Qualifier |            |          |             |        |
| Dichlorodifluorom  | ethane   | 440    | 1000    | ND                       |                  |            | ·        |             |        |
| Isopropyl Alcohol  |          | 460    | 1000    | ND                       |                  |            |          |             |        |
| Vinyl Chloride     |          | 260    | 1000    | ND                       |                  |            |          |             |        |
| Bromomethane       |          | 470    | 1000    | ND                       |                  |            |          |             |        |
| Trichlorofluorome  | thane    | 290    | 1000    | ND                       |                  |            |          |             |        |
| 1,1-Dichloroethen  | e        | 150    | 1000    | ND                       |                  |            |          |             |        |
| Freon 113          |          | 370    | 1000    | ND                       |                  |            |          |             |        |
| Methylene Chlorid  | le       | 200    | 5000    | ND                       |                  |            |          |             |        |
| trans-1,2-Dichloro |          | 110    | 1000    | ND                       |                  |            |          |             |        |
| МТВЕ               |          | 260    | 1000    | ND                       |                  |            |          |             |        |
| tert-Butanol       |          | 2100   | 5000    | ND                       |                  |            |          |             |        |
| Diisopropyl ether  | (DIPE)   | 220    | 1000    | ND                       |                  |            |          |             |        |
| 1,1-Dichloroethan  | e        | 130    | 1000    | ND                       |                  |            |          |             |        |
| ETBE               |          | 240    | 1000    | ND                       |                  |            |          |             |        |
| cis-1,2-Dichloroet | hene     | 180    | 1000    | ND                       |                  |            |          |             |        |
| 2,2-Dichloropropa  | ine      | 120    | 1000    | ND                       |                  |            |          |             |        |
| Bromochlorometh    | ane      | 230    | 1000    | ND                       |                  |            |          |             |        |
| Chloroform         |          | 120    | 1000    | ND                       |                  |            |          |             |        |
| Carbon Tetrachlo   | ride     | 160    | 1000    | ND                       |                  |            |          |             |        |
| 1,1,1-Trichloroeth | ane      | 120    | 1000    | ND                       |                  |            |          |             |        |
| 1,1-Dichloroprope  | ene      | 140    | 1000    | ND                       |                  |            |          |             |        |
| Benzene            |          | 150    | 1000    | ND                       |                  |            |          |             |        |
| TAME               |          | 210    | 1000    | ND                       |                  |            |          |             |        |
| 1,2-Dichloroethar  | e        | 190    | 1000    | ND                       |                  |            |          |             |        |
| Trichloroethylene  |          | 390    | 1000    | ND                       |                  |            |          |             |        |
| Dibromomethane     |          | 220    | 1000    | ND                       |                  |            |          |             |        |
| 1,2-Dichloropropa  | ane      | 130    | 1000    | ND                       |                  |            |          |             |        |
| Bromodichlorome    |          | 110    | 1000    | ND                       |                  |            |          |             |        |
| cis-1,3-Dichlorop  | ropene   | 140    | 1000    | ND                       |                  |            |          |             |        |
| Toluene            |          | 98     | 1000    | 100                      |                  |            |          |             |        |
| Tetrachloroethyle  | ne       | 180    | 1000    | ND                       |                  |            |          |             |        |
| trans-1,3-Dichloro |          | 120    | 1000    | ND                       |                  |            |          |             |        |
| 1,1,2-Trichloroeth |          | 180    | 1000    | ND                       |                  |            |          |             |        |
| Dibromochlorome    |          | 110    | 1000    | ND                       |                  |            |          |             |        |
| 1,3-Dichloropropa  | ane      | 210    | 1000    | ND                       |                  |            |          |             |        |
| Naphthalene        |          | 170    | 1000    | ND                       |                  |            |          |             |        |
| Ethyl Benzene      |          | 86     | 1000    | ND                       |                  |            |          |             |        |
| Chlorobenzene      |          | 420    | 1000    | ND                       |                  |            |          |             |        |
| 1,1,1,2-Tetrachlo  | roethane | 86     | 1000    | ND                       |                  |            |          |             |        |
| m,p-Xylene         |          | 190    | 1000    | 220                      |                  |            |          |             |        |
| o-Xylene           |          | 66     | 500     | 120                      |                  |            |          |             |        |



| Work Order:         | 1512071     | Prep I         | Method: | NA                       | Prep             | Date:     | NA       | Prep Batch:          | NA     |  |
|---------------------|-------------|----------------|---------|--------------------------|------------------|-----------|----------|----------------------|--------|--|
| Matrix:             | Soil        | Analy          |         | SW8260B                  | Anal             | zed Date: | 12/09/15 | Analytical           | 428075 |  |
| Units: ug/Kg        |             | Metho          | Method: |                          |                  |           |          | Batch:               |        |  |
| Parameters          |             | MDL            | PQL     | Method<br>Blank<br>Conc. | Lab<br>Qualifier |           |          |                      |        |  |
| Styrene             |             | 77             | 1000    | 200                      |                  |           |          |                      |        |  |
| Bromoform           |             | 190            | 1000    | ND                       |                  |           |          |                      |        |  |
| Isopropyl Benzene   | •           | 120            | 1000    | 180                      |                  |           |          |                      |        |  |
| n-Propylbenzene     |             | 140            | 1000    | ND                       |                  |           |          |                      |        |  |
| Bromobenzene        |             | 120            | 1000    | ND                       |                  | ,         |          |                      |        |  |
| 1,1,2,2-Tetrachlore | oethane     | 300            | 1000    | ND                       |                  |           |          |                      |        |  |
| 1,3,5-Trimethylber  | nzene       | 110            | 1000    | ND                       |                  |           |          |                      |        |  |
| 1,2,3-Trichloropro  | pane        | 330            | 1000    | ND                       |                  |           |          |                      |        |  |
| 4-Chlorotoluene     |             | 160            | 1000    | ND                       |                  |           |          |                      |        |  |
| 2-Chlorotoluene     |             | 160            | 1000    | ND                       |                  |           |          |                      |        |  |
| tert-Butylbenzene   |             | 140            | 1000    | ND                       |                  |           |          |                      |        |  |
| 1,2,4-Trimethylber  | zene        | 110            | 1000    | ND                       |                  |           |          |                      |        |  |
| sec-Butyl Benzene   |             | 160            | 1000    | ND                       |                  |           |          |                      |        |  |
| p-Isopropyltoluerie | 2           | 150            | 1000    | ND                       |                  |           |          |                      |        |  |
| 1,3-Dichlorobenze   | ne          | 180            | 1000    | ND                       |                  |           |          |                      |        |  |
| 1,4-Dichlorobenze   | ne          | 150            | 1000    | ND                       |                  |           |          |                      |        |  |
| n-Butylbenzene      |             | 220            | 1000    | ND                       |                  |           |          |                      |        |  |
| 1,2-Dichlorobenze   | ne          | 130            | 1000    | ND                       |                  |           |          |                      |        |  |
| 1,2-Dibromo-3-Ch    | loropropane | 420            | 1000    | ND                       |                  |           |          |                      |        |  |
| Hexachlorobutadie   |             | 260            | 1000    | ND                       |                  |           |          |                      |        |  |
| 1,2,4-Trichloroben  | zene        | 210            | 1000    | 240                      |                  |           |          |                      |        |  |
| Naphthalene         |             | 280            | 1000    | 430                      |                  |           |          |                      |        |  |
| 1,2,3-Trichloroben  | zene        | 290            | 1000    | ND                       |                  |           |          |                      |        |  |
| (S) Dibromofluoro   | methane     |                |         | 112                      |                  |           |          |                      |        |  |
| (S) Toluene-d8      |             |                |         | 88.7                     |                  |           |          |                      |        |  |
| (S) 4-Bromofluoro   | benzene     |                |         | 106                      |                  |           |          |                      |        |  |
| Work Order:         | 1512071     | Prep I         | Nethod: | NA                       | Prep             | Date:     | NA       | Prep Batch:          | NA     |  |
| Matrix:             | Soil        | Analy<br>Metho |         | E300.0M                  | Anal             | zed Date: | 12/09/15 | Analytical<br>Batch: | 428090 |  |
| Units:              | mg/Kg       |                |         |                          |                  |           | <u> </u> |                      |        |  |
| Parameters          | <u></u>     | MDL            | PQL     | Method<br>Blank<br>Conc. | Lab<br>Qualifier |           |          |                      |        |  |
| Fluoride            |             | 0.97           | 2.0     | ND                       | 0.000            |           |          |                      |        |  |
| Chloride            |             | 10.0           | 20      | ND                       | 0.000            |           |          |                      |        |  |



#### Raw values are used in quality control assessment. 15915 12/09/15 Prep Batch: Work Order: 1512071 **Prep Method:** 5035 Prep Date: 12/09/15 Analytical 428075 Matrix: Analytical 8260TPH Analyzed Date: Soil Batch: Method: Units: ug/Kg LCS % LCSD % LCS/LCSD Method Spike % PQL % RPD Lab Parameters MDL Blank Conc. Recovery Recovery % RPD Recovery Limits Limits Qualifier Conc. TPH as Gasoline 30 100 14.2 64.0 - 133.2 30 84 1000 117 101 43.9 - 127 (S) 4-Bromofluorobenzene 92.5 50 94.3 94.8 Work Order: **Prep Method:** 3050 Prep Date: 12/10/15 Prep Batch: 15918 1512071 428080 Matrix: Soil Analytical SW6010B Analyzed Date: 12/10/15 Analytical Method: Batch: Units: mg/Kg Method Spike LCS % LCSD % LCS/LCSD % Parameters MDL PQL % RPD Blank Conc. Recovery Recovery % RPD Recovery Lab Conc. Limits Limits Qualifier Antimony 0.20 5.0 ND 50 88.6 86.2 2.71 30.7 - 130 30 Arsenic 0.25 1.7 ND 50 100 101 0.995 71 - 121 30 Barium 0.07 ND 50 50 102 70.2 - 130 101 1.28 30 Beryllium 0.0800 2.0 ND 50 98.1 102 10.2 73.3 - 115 30 Cadmium 0.055 1.0 ND 50 96.6 95.4 1.28 68.7 - 110 30 Chromium 0.050 5.0 ND 50 100 99.4 0.642 76 - 116 30 Cobalt 0.055 5.0 ND 50 98.9 97.7 1.24 57.4 - 122 30 0.65 ND Copper 5.0 50 104 74.8 - 119 103 0.966 30 Lead 0.14 ND 1.0 50 101 98.7 2.30 67.9 - 118 30 Molybdenum 0.12 5.0 ND 50 101 98.7 62.9 - 123 2.35 30 Nickel 0.050 5.0 0.13 50 98.4 97.3 1.16 61.5 - 122 30 Selenium 0.42 5.0 0.90 50 95.1 62 - 111 93.7 1.45 30 Silver 0.37 ND 5.0 50 98.8 96.9 1.90 81.1 - 109 30 Thallium 0.49 5.0 ND 50 99.3 95.1 4.29 39.2 - 125 30 Vanadium 0.18 5.0 ND 50 102 100 2.08 65.8 - 122 30 Zinc 0.25 5.0 2.8 50 98.4 119 6.50 59.9 - 122 30 Work Order: 1512071 7471 **Prep Method:** Prep Date: 12/10/15 15919 **Prep Batch:** Matrix: Analytical SW7471A Soil Analyzed Date: 12/10/15 Analytical 428081 Method: Batch: Units: mg/Kg

#### LCS/LCSD Summary Report

Biank Conc. Recovery Recovery % RPD Lab Conc. Limits Qualifier

LCS/LCSD

5.04

%

80.5 - 133

30

LCSD %

90.3

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LCS %

95.0

Spike

1.25

Method

ND

PQL

0.50

MDL

0.2

Parameters

Mercury



## LCS/LCSD Summary Report

|                    |               |        |                       | LOOM                     |                | unnary            | Report                                          | Raw value         | es are used in          | quality contro  | assessme         |  |
|--------------------|---------------|--------|-----------------------|--------------------------|----------------|-------------------|-------------------------------------------------|-------------------|-------------------------|-----------------|------------------|--|
| Work Order:        | 1512071       |        | Prep Metho            | d: WET                   | /3010B         | Prep Da           | te:                                             | 12/16/15          | Prep Ba                 | tch: 159        | 57               |  |
| Matrix:            | Soil          |        | Analytical<br>Method: | SW6                      | 010B           | Analyze           | d Date:                                         | 12/16/15          | Analytic<br>Batch:      | <b>ai 428</b>   | 164              |  |
| Units:             | mg/L          |        | method.               |                          |                |                   |                                                 |                   | Datcii.                 |                 |                  |  |
| Parameters         |               | MDL    | PQL                   | Method<br>Blank<br>Conc. | Spike<br>Conc. | LCS %<br>Recovery | LCSD %<br>Recovery                              | LCS/LCSD<br>% RPD | %<br>Recovery<br>Limits | % RPD<br>Limits | Lab<br>Qualifier |  |
| Arsenic (STLC)     |               | 0.0500 | 0.10                  | ND                       | 10             | 103               | 101                                             | 1.96              | 80 - 120                | 20              | l                |  |
| Chromium (STLC)    |               | 0.0200 | 0.10                  | ND                       | 10             | 92.5              | 92.0                                            | 0.499             | 80 - 120                | 20              |                  |  |
| Lead (STLC)        |               | 0.0500 | 0.10                  | ND                       | 10             | 90.9              | 90.6                                            | 0.309             | 80 - 120                | 20              |                  |  |
| Work Order:        | 1512071       |        | Prep Metho            | d: WET                   | /7470A         | Prep Dat          | te:                                             | 12/16/15          | Prep Bat                | 60              |                  |  |
| Matrix:            | Soil          |        | Analytical            | SW7                      | 470A           | Analyze           | d Date:                                         | 12/16/15          | Analytical 428170       |                 |                  |  |
| Units:             | mg/L          |        | Method:               |                          |                |                   |                                                 |                   | Batch:                  |                 |                  |  |
| Parameters         |               | MDL    | PQL                   | Method<br>Blank<br>Conc. | Spike<br>Conc. | LCS %<br>Recovery | LCSD %<br>Recovery                              | LCS/LCSD<br>% RPD | %<br>Recovery<br>Limits | % RPD<br>Limits | Lab<br>Qualifie  |  |
| Mercury (STLC)     |               | 0.0003 | 0.003                 | 0.0003                   | 0.075          | 105               | 104                                             | 2.21              | 80 - 120                | 20              |                  |  |
| Work Order:        | 1512071       |        | Prep Metho            | d: NA                    |                | Prep Da           | te:                                             | NA                | Prep Batch: NA          |                 |                  |  |
| Matrix:<br>Units:  | Soil<br>ug/Kg |        | Analytical<br>Method: | SW8                      | 260B           | Analyze           | Analyzed Date: 12/09/15 Analytical 4/<br>Batch: |                   | al 428                  | 075             |                  |  |
| Parameters         |               | MDL    | PQL                   | Method<br>Blank<br>Conc. | Spike<br>Conc. | LCS %<br>Recovery | LCSD %<br>Recovery                              | LCS/LCSD<br>% RPD | %<br>Recovery<br>Limits | % RPD<br>Limits | Lab<br>Qualifier |  |
| 1,1-Dichloroethene | )             | 1.5    | 10                    | ND                       | 50             | 81.9              | 88.1                                            | 7.38              | 53.7 - 139              | 30              |                  |  |
| Benzene            |               | 1.5    | 10                    | ND                       | 50             | 103               | 112                                             | 8.22              | 66.5 - 135              | 30              |                  |  |
| Trichloroethylene  |               | 3.9    | 10                    | ND                       | 50             | 94.3              | 102                                             | 7.95              | 57.5 - 150              | 30              |                  |  |
| Toluene            |               | 0.98   | 10                    | ND                       | 50             | 82.9              | 87.2                                            | 5.12              | 56.8 - 134              | 30              |                  |  |
| Chlorobenzene      |               | 4.2    | 10                    | ND                       | 50             | 90.8              | 97.8                                            | 7.40              | 57.4 - 134              | 30              |                  |  |
| (S) Dibromofluoror | nethane       |        |                       | ND                       | 50             | 119               | 125                                             |                   | 59.8 - 148              |                 |                  |  |
| (S) Toluene-d8     |               |        |                       | ND                       | 50             | 92.9              | 94.5                                            |                   | 55.2 - 133              |                 |                  |  |
| (S) 4-Bromofluorol | oenzene       |        |                       | ND                       | 50             | 116               | 117                                             |                   | 55.8 - 141              |                 |                  |  |



## LCS/LCSD Summary Report

Raw values are used in quality control assessment.

| Work Order: | 1512071       |      | Prep Metho | od: NA                   | I: NA          |                   | Prep Date:         |                   | Prep Batch:             |                 | NA               |  |
|-------------|---------------|------|------------|--------------------------|----------------|-------------------|--------------------|-------------------|-------------------------|-----------------|------------------|--|
| Matrix:     | Soil<br>mg/Kg |      | Analytical | E300.0M                  |                | Analyzed Date:    |                    | 12/09/15          |                         |                 | 28090            |  |
| Units:      |               |      | Method:    |                          |                |                   |                    |                   | Batch:                  |                 |                  |  |
| Parameters  |               | MDL  | PQL        | Method<br>Blank<br>Conc. | Spike<br>Conc. | LCS %<br>Recovery | LCSD %<br>Recovery | LCS/LCSD<br>% RPD | %<br>Recovery<br>Limits | % RPD<br>Limits | Lab<br>Qualifier |  |
| Fluoride    |               | 0.97 | 2.0        | ND                       | 25             | 90.2              | 98.0               | 10.4              | 75 - 125                | 30              |                  |  |
| Chloride    |               | 10.0 | 20         | ND                       | 25             | 99.5              | 109                | 9.17              | 75 - 125                | 30              |                  |  |


## **MS/MSD Summary Report**

Raw values are used in quality control assessment.

| Work Order:      | 1512071      | I              | Prep Method | d: NA           |                | Prep Date:       | NA                |                 | Prep Batch:             | NA              |                  |
|------------------|--------------|----------------|-------------|-----------------|----------------|------------------|-------------------|-----------------|-------------------------|-----------------|------------------|
| Matrix:          | Soil         |                | Analytical  | E300.0          | и              | Analyzed D       | ate: 12/0         | 9/15            | Analytical              | 428090          |                  |
| Spiked Sample:   | 1512071-001A | \ <sup> </sup> | Method:     |                 |                |                  |                   |                 | Batch:                  |                 |                  |
| Units:           | mg/Kg        |                |             |                 |                |                  |                   |                 |                         |                 |                  |
| Parameters       |              | MDL            | PQL         | Sample<br>Conc. | Spike<br>Conc. | MS %<br>Recovery | MSD %<br>Recovery | MS/MSD<br>% RPD | %<br>Recovery<br>Limits | % RPD<br>Limits | Lab<br>Qualifier |
| Fluoride         | I            | 0.97           | 2.0         | 0               | 25             | 81.7             | 78.0              | 0.392           | 75 - 125                | 30              |                  |
| Chloride         |              | 10.0           | 20          | 5.0085          | 25             | 97.7             | 96.5              | 0.399           | 75 - 125                | 30              |                  |
| Work Order:      | 1512071      |                | Prep Method | d: WET/30       | )10B           | Prep Date:       | 12/16             | 6/15            | Prep Batch:             | 15957           |                  |
| Matrix:          | Soil         |                | Analytical  | SW601           | 0B             | Analyzed D       | ate: 12/1         | 6/15            | Analytical              | 428164          |                  |
| Spiked Sample:   | 1512071-001A | \ I            | Method:     |                 |                |                  |                   |                 | Batch:                  |                 |                  |
| Units:           | mg/L         |                |             |                 |                |                  |                   |                 |                         |                 |                  |
| Parameters       |              | MDL            | PQL         | Sample<br>Conc. | Spike<br>Conc. | MS %<br>Recovery | MSD %<br>Recovery | MS/MSD<br>% RPD | %<br>Recovery<br>Limits | % RPD<br>Limits | Lab<br>Qualifier |
| Arsenic (STLC)   |              | 0.0500         | 0.10        | 0.130           | 10             | 95.5             | 102               | 5.62            | 75 - 125                | 20              |                  |
| Beryllium (STLC) |              | 0.0200         | 0.10        | 0.00070         | 10             | 99.5             | 98.8              | 0.676           | 75 - 120                | 20              |                  |
| Chromium (STLC)  |              | 0.0200         | 0.10        | 0.0935          | 10             | 89.2             | 91.1              | 1.81            | 75 - 125                | 20              |                  |
| Lead (STLC)      |              | 0.0500         | 0.10        | 0.213           | 10             | 87.7             | 89.8              | 1.91            | 75 - 125                | 20              |                  |
| Work Order:      | 1512071      |                | Prep Method | d: WET/74       | 70A            | Prep Date:       | 12/16             | 6/15            | Prep Batch:             | 15960           |                  |
| Matrix:          | Soil         |                | Analytical  | SW747           | 0A             | Analyzed D       | ate: 12/1         | 6/15            | Analytical              | 428170          |                  |
| Spiked Sample:   | 1512071-001A | ۱<br>۱         | Method:     |                 |                |                  |                   |                 | Batch:                  |                 |                  |
| Units:           | mg/L         |                |             |                 |                |                  |                   |                 |                         |                 |                  |
| Parameters       |              | MDL            | PQL         | Sample<br>Conc. | Spike<br>Conc. | MS %<br>Recovery | MSD %<br>Recovery | MS/MSD<br>% RPD | %<br>Recovery<br>Limits | % RPD<br>Limits | Lab<br>Qualifier |
| Mercury (STLC)   |              | 0.0003         | 0.003       | 0.00142         | 0.075          | 99.7             | 102               | 4.82            | 75 - 125                | 20              |                  |

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# **Duplicate QC Summary Report**

| Work Order: | 1512071 | Pre   | p Method:                | NA               |                     | Prep Date:          | NA       | Prep Batch:          | NA               |
|-------------|---------|-------|--------------------------|------------------|---------------------|---------------------|----------|----------------------|------------------|
| Matrix:     | Soil    |       | l <b>ytic</b> al<br>hod: | SW90450          | 2                   | Analyzed Date:      | 12/10/15 | Analytical<br>Batch: | 428089           |
| Units:      |         |       |                          |                  |                     |                     |          | Lab Sample ID:       | 1512066-005A-Dup |
| Parameters  |         | MDL   | PQL                      | Sample<br>Result | Duplicate<br>Result | <u>% RPD</u>        |          |                      |                  |
| pH          |         | 0.100 | 2.00                     | 7.75             | 7.79                | <u>l</u> l<br>0.515 |          |                      |                  |

Raw values are used in quality control assessment.

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# Laboratory Qualifiers and Definitions

#### **DEFINITIONS:**

Accuracy/Bias (% Recovery) - The closeness of agreement between an observed value and an accepted reference value.

Blank (Method/Preparation Blank) -MB/PB - An analyte-free matrix to which all reagents are added in the same volumes/proportions as used in sample processing. The method blank is used to document contamination resulting from the analytical process.

Duplicate - a field sample and/or laboratory QC sample prepared in duplicate following all of the same processes and procedures used on the original sample (sample duplicate, LCSD, MSD)

Laboratory Control Sample (LCS ad LCSD) - A known matrix spiked with compounds representative of the target analyte(s). This is used to document laboratory performance.

Matrix - the component or substrate that contains the analyte of interest (e.g., - groundwater, sediment, soil, waste water, etc)

Matrix Spike (MS/MSD) - Client sample spiked with identical concentrations of target analyte (s). The spiking occurs prior to the sample preparation and analysis. They are used to document the precision and bias of a method in a given sample matrix.

Method Detection Limit (MDL) - the minimum concentration of a substance that can be measured and reported with a 99% confidence that the analyte concentration is greater than zero

Practical Quantitation Limit (PQL) - a laboratory determined value at 2 to 5 times above the MDL that can be reproduced in a manner that results in a 99% confidence level that the result is both accurate and precise. PQLs reflect all preparation factors and/or dilution factors that have been applied to the sample during the preparation and/or analytical processes.

Precision (%RPD) - The agreement among a set of replicate/duplicate measurements without regard to known value of the replicates

Surrogate (S) or (Surr) - An organic compound which is similar to the target analyte(s) in chemical composition and behavior in the analytical process, but which is not normally found in environmental samples. Surrogates are used in most organic analysis to demonstrate matrix compatibility with the chosen method of analysis

Tentatively Identified Compound (TIC) - A compound not contained within the analytical calibration standards but present in the GCMS library of defined compounds. When the library is searched for an unknown compcund, it can frequently give a tentative identification to the compound based on retention time and primary and secondary ion match. TICs are reported as estimates and are candidates for further investigation.

Units: the unit of measure used to express the reported result - mg/L and mg/Kg (equivalent to PPM - parts per million in liquid and solid), ug/L and ug/Kg (equivalent to PPB - parts per billion in liquid and solid), ug/m3, mg.m3, ppbv and ppmv (all units of measure for reporting concentrations in air), % ( equivalent to 10000 ppm or 1,000,000 ppb), ug/Wipe ( concentration found on the surface of a single Wipe usually taken over a 100cm2 surface)

#### LABORATORY QUALIFIERS:

B - Indicates when the anlayte is found in the associated method or preparation blank

D - Surrogate is not recoverable due to the necessary dilution of the sample

E - Indicates the reportable value is outside of the calibration range of the instrument but within the linear range of the instrument (unless otherwise noted) Values reported with an E qualifier should be considered as estimated.

H- Indicates that the recommended holding time for the analyte or compound has been exceeded

J- Indicates a value between the method MDL and PQL and that the reported concentration should be considered as estimated rather the quantitative NA - Not Analyzed

N/A - Not Applicable

NR - Not recoverable - a matrix spike concentration is not recoverable due to a concentration within the original sample that is greater than four times the spike concentration added

R- The % RPD between a duplicate set of samples is outside of the absolute values established by laboratory control charts

S- Spike recovery is outside of established method and/or laboratory control limits. Further explanation of the use of this qualifier should be included within a case narrative

X -Used to indicate that a value based on pattern identification is within the pattern range but not typical of the pattern found in standards. Further explanation may or may not be provided within the sample footnote and/or the case narrative.

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# Sample Receipt Checklist

| Officer Marine Day Area Contracting Comun               | Date and Time Received: <u>12/9/2015</u> 15:00 |
|---------------------------------------------------------|------------------------------------------------|
| Client Name: <u>Bay Area Geotechnical Group</u>         |                                                |
| Project Name: Avago Acid Tank                           | Received By: LDI                               |
| Work Order No.: <u>1512071</u>                          | Physically Logged By: LDI                      |
|                                                         | Checklist Completed By: LDI                    |
|                                                         | Carrier Name: Client Drop Off                  |
| Chain of Custody (                                      | COC) Information                               |
| Chain of custody present?                               | Yes                                            |
| Chain of custody signed when relinquished and received? | Yes                                            |
| Chain of custody agrees with sample labels?             | Yes                                            |
| Custody seals intact on sample bottles?                 | Not Present                                    |
| Sample Receip                                           | ot Information                                 |
| Custody seals intact on shipping container/cooler?      | Not Present                                    |
| Shipping Container/Cooler In Good Condition?            | Yes                                            |
| Samples in proper container/bottle?                     | Yes                                            |
| Samples containers intact?                              | Yes                                            |
| Sufficient sample volume for indicated test?            | Yes                                            |
| Sample Preservation and H                               | old Time (HT) Information                      |
| All samples received within holding time?               | Yes                                            |
| Container/Temp Blank temperature in compliance?         | Yes Temperature: <u>7</u> °C                   |
| Water-VOA vials have zero headspace?                    | No VOA vials submitted                         |
| Water-pH acceptable upon receipt?                       | <u>N/A</u>                                     |
| pH Checked by: <u>N/A</u>                               | pH Adjusted by: <u>N/A</u>                     |

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# Login Summary Report

| Client ID:       | TL5113         | Bay Area Geotechnical Group | QC Level:      |           |
|------------------|----------------|-----------------------------|----------------|-----------|
| Project Name:    | Avago Acid Tar | nk                          | TAT Requested: | 2 day:50  |
| Project # :      | ESTEC-01-00    |                             | Date Received: | 12/9/2015 |
| Report Due Date: | 12/16/2015     |                             | Time Received: | 15:00     |
| Comments:        |                |                             |                |           |
|                  |                |                             |                |           |

Work Order # : 1512071

| WO Sample ID | <u>Client</u><br>Sample ID | Collection<br>Date/Time | <u>Matrix</u> | Scheduled<br>Disposal | <u>Sample</u><br><u>On Hold</u> | <u>Test</u><br><u>On Hold</u> | Requested<br>Tests                                                                                 | Subbed |
|--------------|----------------------------|-------------------------|---------------|-----------------------|---------------------------------|-------------------------------|----------------------------------------------------------------------------------------------------|--------|
| 1512071-001A | Tank-2.Bldg 88             | 12/08/15                | Soil          | 06/06/16              |                                 |                               | S_7470AHGSTLC<br>S_6010BCAM17<br>S_6010B(STLC)<br>S_300.0M<br>S_7471BHG<br>S_pH9045C<br>S_8260Full |        |
| Sample Note: | CAM17, 8260, Chloride, Fl  | ouride, pH              |               |                       |                                 |                               |                                                                                                    |        |
| 1512071-002A | Tank-1.Bldg 90             | 12/08/15                | Soil          | 06/06/16              |                                 |                               | S_6010BCAM17<br>S_7471BHG<br>S_300.0M<br>S_8260Full<br>S_pH9045C                                   |        |

.



|                                       |                                  |            |                                 |              |                 |            | -        |               |             |       |        |        |              |     |                                                | _                                                 |                                                  |                                      |                                        |                                   |                                            |                                                  |                                |                                       |                                           |                                |                                   |                                             |                                             |                                    | 15                    | 12                    | ٢C             | 7            | /               |
|---------------------------------------|----------------------------------|------------|---------------------------------|--------------|-----------------|------------|----------|---------------|-------------|-------|--------|--------|--------------|-----|------------------------------------------------|---------------------------------------------------|--------------------------------------------------|--------------------------------------|----------------------------------------|-----------------------------------|--------------------------------------------|--------------------------------------------------|--------------------------------|---------------------------------------|-------------------------------------------|--------------------------------|-----------------------------------|---------------------------------------------|---------------------------------------------|------------------------------------|-----------------------|-----------------------|----------------|--------------|-----------------|
| By                                    | (GG                              | ▶ phone: 6 | ►<br>50.852.9133<br>138 Charcos |              | 50.852          | .9138      | } ⊨ inf  | 0@b           |             |       | eers.( | 00     |              |     |                                                |                                                   |                                                  |                                      |                                        | NE                                | AI<br>DT<br>L                              | IM                                               | e<br>DF                        | ;                                     | UR<br>RU                                  | <u>а</u><br>sh<br>Exc          | 2<br>cel                          | Ц<br>нн<br>)<br>)                           | DW                                          | 48<br>7rito                        | හු<br>HR<br>: Oi      | :<br>n (E             | <br>72 н<br>УW | R            | D<br>S DAY<br>C |
| Report To: Ebb                        | i Hamidieh                       |            | B                               | ill To       | ): B/           | ٩Ge        | i En     | gin           | iee         | rs    |        |        |              | 1   |                                                | ŝ                                                 | _                                                |                                      |                                        | A                                 | nal                                        | vsis                                             |                                |                                       |                                           |                                |                                   |                                             |                                             |                                    | _                     | Oth                   |                |              | omment          |
|                                       | G Engineers                      | 5          |                                 |              |                 |            |          |               |             |       |        |        |              |     |                                                | ŝ                                                 |                                                  |                                      |                                        | _                                 |                                            |                                                  | Γ                              |                                       | Γ                                         | T                              |                                   | Τ                                           | Τ                                           |                                    | Γ                     | Γ                     | Т              |              |                 |
| 138                                   | Charcot Ave                      | 2          |                                 | -Mail        |                 |            |          |               |             |       |        |        |              |     | 8                                              | ä                                                 | £F)                                              |                                      |                                        |                                   |                                            | Ę                                                |                                | 1                                     |                                           |                                |                                   |                                             |                                             |                                    |                       |                       |                |              | lter<br>umples  |
|                                       | Jose, CA 95                      | 131        |                                 | -Mai         |                 |            |          |               |             | eers  | 5.001  | n      |              |     | 8015) / MTBE                                   | Jac                                               | E/B/                                             |                                      |                                        |                                   | ä                                          | afluo                                            |                                |                                       | N.                                        |                                |                                   | 6                                           |                                             |                                    |                       |                       |                |              | r Metals        |
| Tele: ( 650 ) 85                      |                                  |            |                                 | ax: (        |                 |            |          |               |             |       | _      |        |              |     | 5                                              | ä                                                 | 5520                                             |                                      |                                        | =                                 | La la                                      | 2/5                                              |                                | -                                     | ۲<br>۲                                    |                                |                                   | 69                                          | 00200                                       |                                    |                       |                       |                |              | alysis:         |
| Project #: ESTEC                      |                                  | LL. D      | <u>P</u>                        | rojec        | t Nar           | ne:        | Ava      | go /          | Acio        | d Ta  | inks   |        |              | -1  | •                                              | 5                                                 | 1                                                | 18.1)                                | voc                                    | / 802                             | 12                                         |                                                  |                                | cides                                 | 15                                        |                                | N N                               | 200                                         | Ì                                           |                                    |                       |                       |                | Y            | es / No         |
| Project Location<br>Sampler Signatu   |                                  |            |                                 | ie, C        | 1               |            |          |               | _           |       |        |        |              | -   | 8021                                           | ş                                                 | 500                                              | 17 (7                                | 101                                    | 50                                | ticid                                      | XX                                               | (j                             | 1 P                                   | 13                                        | - S                            |                                   | 8.0                                         | 8                                           | 100                                | ١ş                    | S                     |                |              |                 |
| Sampler Signatu                       | Te Janua                         |            |                                 | <u> </u>     | <u> </u>        | <u> </u>   |          |               |             |       | MI     | TH     | IOD          |     | કું                                            | Š                                                 | Grea                                             | carbo                                | / 80:                                  | Vd3)                              | 2                                          | Ĭ.                                               | catici                         | D,                                    | 12                                        | Š                              | M                                 | 100                                         | /200                                        | è                                  | g                     | 0.0                   |                |              |                 |
|                                       |                                  | SAME       | PLING                           | s            | lers            |            | MA       | TR            | IX.         |       | PRE    | SER    | VE           | D   | Gas (602 /                                     | 3                                                 | 3                                                | lydro                                | 8010                                   | NLY                               | 18                                         | CB's                                             | a z                            | Acidi                                 | 1002                                      | N270                           | 10155                             | 200.7                                       | 6.9                                         | 19/8                               | R S                   | E K                   |                | 1            |                 |
| SAMPLE ID                             | LOCATION/<br>Field Point<br>Name | Date       | Time                            | # Containers | Type Containers | Water      | Soil     | Air           | Sludge      | Other | ICE    |        | HNO,         |     | BTEX & TPH as                                  | TPH as Diesel (8015) & Motor oil - Extractables w | Total Petroleum Oil & Grease (1664 / 5520 E/B&F) | Total Petroleum Hydrocarbons (418.1) | EPA 502.2 / 601 / 8010 / 8021 (ILVOCs) | MTBE / BTEX ONLY (EPA 602 / 8021) | EPA 505/ 608 / 8081 (CI Pesuicides) & PCBs | EPA 608 / 8082 PCB's ONLY; Aroclors / Conjecters | EPA 507 / 8141 (NP Pesticides) | EPA 515 / 8151 (Acidic CI Herbicides) | EPA 524.2 / 624 / 8260 (VOCs) - FULL SCAN | EPA 525.2 / 625 / 8270 (SVOCs) | EPA 8270 SIM / 8310 (PAHs / PNAs) | CAN 17 Metals (200.7 / 200.8 / 6010 / 6020) | LUFT 5 Mcmls (2(00.7 / 200.8 / 6010 / 6020) | Lead (200.7 / 200.8 / 6010 / 6020) | Chloride - EPA 300.0M | Fluoride - EPA 300.0M | На             |              |                 |
| Tank-2, Bldg 88                       | ES-1 @ 3.5'                      | 12/8/15    |                                 | 1            | ers             | ┢          | X        |               | +           |       | x      | $^{+}$ | $\dagger$    | ╉   | 1                                              | -                                                 |                                                  |                                      |                                        | _                                 | -                                          |                                                  |                                | ┢                                     | İx                                        |                                | ┢                                 | $\mathbf{x}$                                | ┢                                           | ┢                                  | x                     | x                     | 1              | t-           | 0011            |
| Tank-1, Bldg 90                       | 1                                | 12/8/15    |                                 | 1            | 3               | $\uparrow$ | X        | ╡             | ┽           | _     | x      | +      | ╈            | ╈   |                                                |                                                   |                                                  |                                      |                                        |                                   |                                            |                                                  |                                | ┢                                     | X                                         | -                              | +                                 | X                                           | $\uparrow$                                  | ┢                                  | x                     | -                     |                |              | 007             |
| 101111 2, 0106 30                     | <u> </u>                         | 22/0/20    |                                 | -            | 3               |            | Ĥ        | ┥             | ╉           | ╉     | ᡨ      | ╈      | ╉            | ╈   | -                                              | $\dashv$                                          | -                                                |                                      |                                        |                                   | $\vdash$                                   | _                                                | $\vdash$                       | ┢                                     | ŕ                                         | ╁                              | ┢                                 | ╀                                           | ┢                                           | +                                  | ┢╸                    | ╀                     | ╈              | +-           |                 |
|                                       |                                  |            |                                 |              | <u> </u>        | +          | Η        | +             | +           | ╉     | ╉      | ╋      | ╈            | ╋   | -                                              | -                                                 | -                                                |                                      | _                                      |                                   |                                            | _                                                | -                              | -                                     | ┝                                         | +-                             | ┢                                 | ╋                                           | ╋                                           | ┢                                  | ┢                     | ┼╴                    | ╉              | +            |                 |
|                                       |                                  |            |                                 |              |                 | ┝          | H        | $\rightarrow$ | +           | +     | +      | ╈      | +            | +   | -                                              | -                                                 |                                                  |                                      |                                        | -                                 | ⊢                                          |                                                  | ┝─                             | ┝                                     | ┢                                         | ╋                              | +                                 | ╉                                           | ┢                                           | ╋                                  | ┢                     | ╋                     | ╋              | ╀            |                 |
|                                       |                                  | ļ          |                                 |              | <u> </u>        | ┝          | $\vdash$ |               | +           | +     | +      | ╇      | +            | +   | -                                              | -                                                 |                                                  | _                                    |                                        |                                   | ┝                                          | -                                                |                                | -                                     | ┢                                         | ┿                              | ╀                                 | +                                           | +                                           | ╀                                  | ┢─                    | +                     | ╋              | +            |                 |
| ·····                                 |                                  |            |                                 |              |                 |            |          | _             | 4           | 4     | +      | +      | ╇            | 4   | _                                              | -                                                 |                                                  |                                      |                                        | _                                 | ┝                                          | _                                                |                                |                                       | _                                         | ┢                              | ╞                                 | +                                           | ╄                                           | ┢                                  | ┢                     | ╞                     | +              | $\vdash$     |                 |
|                                       |                                  |            |                                 |              | ļ               |            |          | _             |             | _     | -      | 1      | +            | _   |                                                |                                                   | _                                                |                                      |                                        |                                   |                                            |                                                  | <u> </u>                       |                                       |                                           |                                | ╞                                 | ╇                                           | -                                           | -                                  |                       | +                     | +              | $\downarrow$ |                 |
|                                       |                                  |            |                                 |              |                 | L          |          |               | _           | _     | _      |        | $\downarrow$ |     | _                                              | _                                                 |                                                  |                                      |                                        | _                                 |                                            |                                                  |                                | L                                     |                                           |                                | $\downarrow$                      | 1                                           | _                                           |                                    | _                     | ┢                     | ┢              | Ļ            |                 |
|                                       |                                  |            |                                 |              |                 |            |          |               |             |       |        |        |              |     |                                                |                                                   |                                                  |                                      |                                        |                                   |                                            |                                                  |                                |                                       |                                           |                                |                                   |                                             |                                             |                                    |                       |                       |                |              |                 |
|                                       |                                  |            |                                 |              |                 |            |          |               |             |       |        |        |              |     |                                                |                                                   |                                                  |                                      |                                        |                                   |                                            |                                                  |                                | F                                     | 51                                        |                                | ₼                                 |                                             |                                             |                                    |                       |                       |                |              |                 |
|                                       |                                  |            |                                 |              |                 |            |          |               |             |       |        |        |              |     |                                                |                                                   |                                                  |                                      |                                        |                                   |                                            |                                                  |                                | ľ                                     | Ĩ                                         | ₽₹                             | P                                 | П                                           |                                             |                                    |                       |                       |                |              |                 |
| _                                     |                                  |            |                                 |              |                 | Γ          |          |               | Τ           | Т     | Т      |        | Т            |     |                                                |                                                   |                                                  |                                      |                                        |                                   |                                            |                                                  | G                              | D                                     | h                                         |                                | 1                                 | 16                                          |                                             | Τ                                  | Γ                     | Τ                     | Γ              |              |                 |
|                                       |                                  |            |                                 |              |                 |            |          | 1             | T           |       | 1      | T      | T            | T   | T                                              |                                                   |                                                  |                                      |                                        |                                   | Γ                                          |                                                  |                                | P                                     | 1                                         | r                              | T I                               | 1 8                                         |                                             | Т                                  | Γ                     | Γ                     | Τ              |              |                 |
| · · · · · · · · · · · · · · · · · · · | †                                |            |                                 |              |                 | $\vdash$   | $\vdash$ | ╡             | +           | +     | ╈      | $^{+}$ | +            | +   | $\neg$                                         |                                                   |                                                  |                                      |                                        |                                   | -                                          |                                                  |                                | $\uparrow$                            | $\uparrow$                                | $\uparrow$                     | +                                 | +                                           | $\uparrow$                                  | +                                  | t                     | 1                     | ╋              | +            |                 |
| Refinquished By:                      | alada                            | Date:      | Time:<br>3.00                   | Roce         | ived F          | J<br>By:   |          | レ             | ــــ<br>[ - | <br>D | .]     |        | <br>b        | الد | 1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1 | OD                                                | CON                                              | DIT                                  | ION                                    |                                   | L                                          |                                                  | <b>L</b>                       | <b>L</b>                              | ¥                                         | +                              | <b>.</b>                          |                                             | co                                          | MM                                 | ENT                   | S:                    | •              | <u> </u>     |                 |
| Relinquished By:                      |                                  | Date:      | Time:                           | Rect         | ived B          | ly:        | 1        |               |             |       |        |        |              | _   |                                                | n w s                                             | " "                                              |                                      | BSE<br>TED                             |                                   | AB                                         |                                                  |                                |                                       |                                           |                                |                                   |                                             |                                             |                                    |                       |                       |                |              |                 |
| Religquished By:                      |                                  | 149/15     | 3:00                            | ] /          |                 |            | h        |               |             |       |        |        |              |     | API                                            | PRO                                               | PRI                                              | ATE                                  | CO                                     | NTA                               | INE                                        | ۲S_                                              |                                | _                                     |                                           |                                |                                   |                                             |                                             |                                    |                       |                       |                |              |                 |
| Relinquished By:                      |                                  | Date:      | Time:                           |              | ived E          | ly:        | <u>_</u> |               |             |       |        |        |              | 1   | rKI                                            | 5961                                              | KVE                                              | DIN                                  | LA                                     | P                                 |                                            |                                                  |                                |                                       |                                           |                                |                                   |                                             |                                             |                                    |                       |                       |                |              |                 |
|                                       |                                  |            |                                 |              |                 |            | _        |               |             |       |        |        |              |     | PRI                                            | ESE                                               | RVA                                              | T10                                  | N                                      |                                   | 0                                          |                                                  | oH                             | 2                                     | LS                                        | ОТ                             | HE                                | <u>۱</u>                                    |                                             |                                    |                       |                       | -              | -            |                 |
|                                       |                                  |            |                                 |              |                 |            |          |               |             | V     | c      | )      |              |     |                                                | 1                                                 | e                                                | v                                    | Y                                      | <b>7</b>                          | 2                                          | -                                                | Ħ                              | : )                                   |                                           |                                |                                   |                                             |                                             |                                    |                       |                       |                |              |                 |

483 Sinclair Frontage Rd., Milpitas, CA 95035 | tel: 408.263.5258 | tax: 408.263.8293 | www.torrentlab.com

| Date   12/19/15                                                                      | T FORM                                                                                                                                                    |
|--------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|
| Company   BAGG                                                                       | For Torrent Lab Use Only                                                                                                                                  |
| Ordered By   Ebbi Hamidieh                                                           | Project Name   XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX                                                                                                        |
| Email  XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX                                               | Project Number  XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX                                                                                                           |
| for Rush report)                                                                     | Order Taken By   XXXXXXXXXXXXXXXXX                                                                                                                        |
| Project Details                                                                      | Accounting I                                                                                                                                              |
| TAT Requested                                                                        |                                                                                                                                                           |
| Same Day $\square$ One Day $\square$ Day $\square$ Day $\square$ Noon $\square$ Noon | $ \begin{array}{c} \hline 3 \text{ Day} \\ \hline 0 \text{ Noon} \end{array} \begin{array}{c} \hline 4 \text{ Day} \\ \hline 0 \text{ Noon} \end{array} $ |
| Number of Samples   2                                                                |                                                                                                                                                           |
|                                                                                      |                                                                                                                                                           |
| Matrix   Soil<br>i.e., sample type: Is your sample soil, water, etc?)                |                                                                                                                                                           |

#### Weekend work required (refer to chart below for respective surcharge)

This request form may be a courtesy notice which reflects the rush services requested on the chain-of-custody. Please contact *Torrent Express* project management immediately at pm@torrentlab.com with the subject line "Rush TAT Cancellation" if you do not want the analysis(es) to proceed. **Cancellation of a** *Torrent Express*<sup>104</sup> service may be subject to a cancellation fee.

In order to facilitate processing and scheduling, please notify Torrent Laboratory at least 24 hours in advance for any *Torrent Express*<sup>10</sup> service. Sample(s) must be received or scheduled for pick-up before 5:00 pm in order to be processed that day; all samples received after 5:00 pm will be processed the following day.

All *Torrent Express*<sup>(3)</sup> Same Day and Next Day rush services will be charged a \$250.00 minimum (excluding certain fees) plus the respective surcharge(s); all other *Torrent Express*<sup>(3)</sup> rush services will be charged a \$150.00 minimum (excluding certain fees) plus the respective surcharge(s). The following table briefly describes Torrent Laboratory's *Torrent Express*<sup>(3)</sup> surcharge pricing structure, please refer to your company specific price list for the precise surcharges.

|              | Same Day | Next Day* | 2 Day* | 3 Day* | 4 Day |
|--------------|----------|-----------|--------|--------|-------|
| Regular Rush | 300%     | 150%      | 75%    | 50%    | 37.5% |
| Noon         | -        | 200%      | 100%   | 62.5%  | 50%   |
| Weekend      | 300%     | 300%      | -      | 1000   |       |

\*business day(s)

483 Sinclair Frontage Rd., Milpitas, CA 95035 | tal: 408.263.5258 | fax: 408.263.8293 | www.torrentlab.com



٩,



**Change Order** 

| Work Order: 1512071                 | Serial #: CO15-0347 |                   | Print Date:       | 12/14/2015        |
|-------------------------------------|---------------------|-------------------|-------------------|-------------------|
| Project Name: Avago Acid Tank       |                     |                   |                   |                   |
| Client: Bay Area Geotechnical Group | Requested By:       | Ebbi Hamidieh     |                   |                   |
|                                     |                     | Requested<br>Date | Requested<br>Time | Extended<br>Price |

Additional Test-STLC for As, Cr, Hg for sample 001; ASAP TAT

12/14/2015

4/2015 10:50:00AM

Page 1 of 1

| <u>B</u> y               |                                           | ► phone: 65 | 0.852.9133<br>138 Charco | t Avenu      | 50.852.<br>e, San J | .9138<br>lose, ( | i > inf<br>Califo | o@bi<br>mia 9 | 9513   | ĩ        | :15.00     | m                 |            |                                | UR<br>eol                                          |                                                  |                                      | ου                                    | 'NE<br>OF                         | נ <b>ד (</b><br>                           | (M)<br>]) P<br>])                               | E<br>DF<br><u>Che</u>          | ck i                                   | RUS<br>RUS<br>DE<br>f sau                 | )<br>SH<br>Exce                | ر<br>24<br>el                      | )<br>HR                                     | )wi                                         | 48 I<br>1 48 I                     | HR<br>On<br>"J"       | 7<br>(D<br>flag       | 2 HF<br>W<br>V<br>tis r | ) 🖵<br>equired |
|--------------------------|-------------------------------------------|-------------|--------------------------|--------------|---------------------|------------------|-------------------|---------------|--------|----------|------------|-------------------|------------|--------------------------------|----------------------------------------------------|--------------------------------------------------|--------------------------------------|---------------------------------------|-----------------------------------|--------------------------------------------|-------------------------------------------------|--------------------------------|----------------------------------------|-------------------------------------------|--------------------------------|------------------------------------|---------------------------------------------|---------------------------------------------|------------------------------------|-----------------------|-----------------------|-------------------------|----------------|
| Report To: Ebbi          |                                           |             | В                        | ill To       | : BA                | ١GG              | En                | gin           | eer    | <u>s</u> |            |                   | _          | _                              | ~                                                  |                                                  |                                      |                                       | A                                 | nal                                        | /sis                                            | Req                            | uest                                   |                                           |                                |                                    | <u> </u>                                    | <b></b>                                     | <b>—</b>                           | $\square$             | )the                  | r                       | Comments       |
|                          | G Engineers                               |             |                          |              |                     |                  |                   |               |        |          |            |                   | _          |                                | s                                                  |                                                  |                                      |                                       |                                   |                                            |                                                 |                                |                                        |                                           |                                |                                    |                                             |                                             |                                    |                       |                       |                         | Filter         |
|                          | Charcot Ave                               |             |                          | -Mail        | -                   |                  |                   |               |        |          |            |                   | _          | ä                              | tab                                                | 5                                                |                                      |                                       |                                   |                                            | ncrs                                            |                                |                                        |                                           |                                |                                    |                                             |                                             |                                    |                       |                       |                         | Samples        |
|                          | lose, CA 953                              | 131         |                          | -Mai         |                     |                  | _                 |               |        | ers.     | com        |                   |            | 8015) / MTBE                   | Tac.                                               | 5                                                | - 1                                  |                                       |                                   | <b>B</b> s                                 | ougo                                            |                                |                                        | N N                                       |                                |                                    | s                                           | 2                                           |                                    | ł                     |                       |                         | for Metals     |
| Tele: (650)85            |                                           |             |                          | ax: (        |                     | _                |                   |               | _      |          |            |                   |            | ŝ                              | ä                                                  | 22                                               |                                      | -                                     | 9                                 | PC                                         | s/C                                             |                                |                                        | L SC                                      |                                |                                    | 602                                         | ğ                                           | ł                                  |                       |                       |                         | analysis:      |
| Project #: ESTEC-        |                                           |             |                          | rojec        |                     | ne: /            | Ava               | go /          | \cid   | Tar      | iks        |                   |            | *                              | ÷                                                  | Ì                                                | 8.1)                                 | ő                                     | 802                               | 8                                          | Slor                                            |                                | ides                                   | 12                                        |                                | (FV)                               | È                                           | è                                           |                                    |                       |                       |                         | Yes / No       |
| <b>Project Location:</b> | 350 W. Trim                               | ble Road    | , San Jos                | se, CA       | ۱                   |                  |                   |               |        |          |            |                   |            | 5                              | io.                                                | ž                                                | E.                                   | £                                     | 02 /                              | cide                                       | : An                                            | ŝ                              | crbic                                  | - (s                                      | 3                              | / PN                               | 3 / 6(                                      | ŝ                                           | 020)                               | s                     | s                     |                         |                |
| Sampler Signatur         | :e:                                       |             |                          |              |                     |                  |                   |               |        |          |            |                   |            | 2 / 8                          | Š                                                  | ä                                                | ő                                    | 8021                                  | PA 6                              | Pesti                                      | μ                                               | icide                          | ΗD                                     | ,oc                                       | ٥,                             | ۶IJ                                | 200.1                                       | 8.8                                         | 0/6                                | Į Š                   | 10                    |                         |                |
|                          |                                           | SAMP        | LING                     | s            | icrs                |                  | MA                | TR            | IX     |          | MET<br>RES |                   |            | Gas (60                        | 15) &                                              | 19 G                                             | ydrocar                              | 8010/1                                | NLY (E                            | 81 (C1)                                    | (B's O                                          | NP Pest                        | Acidic (                               | 8260 (\                                   | 8270 (S                        | 310 (P                             | 00.77                                       | 00.7/2                                      | 8 / 601                            | A 300                 | A 300                 |                         |                |
| SAMPLE ID                | LOCATION<br>Field Point<br>Name           | Date        | Time                     | # Containers | Type Containers     | Water            | Soil              | Air           | Sludge | Uther    | HCL        | HNO,              | Other      | BTEX & TPI1 as Gas (602 / 8021 | TPil as Dicsel (8015) & Motor oil - Extractables w | Total Petroleum Oil & Grease (1664 / 5520 I/B&F) | Total Petroleum Hydrocarbons (418.1) | EPA 502.2 / 601 / 8010 / 8021 (HVOCs) | MTBE / BTEX ONLY (EPA 602 / 8021) | EPA 505/ 608 / 8081 (CI Pesticides) & PCBs | EPA 608 / 8082 PCB's ONLY; Aroclors / Congeners | EPA 507 / 8141 (NP Pesticides) | EPA 515 / 8151 (Acidic C'I Herbicides) | EPA 524.2 / 624 / 8260 (VOCs) - FULL SCAN | EPA 525.2 / 625 / 8270 (SVOCs) | EPA \$270 SIM / \$310 (PAH+/ PNAs) | CAM 17 Mctals (200.7 / 200.8 / 6010 / 6020) | LUFT 5 Metals (200.7 / 200.8 / 6010 / 6020) | Lead (200.7 / 200.8 / 6010 / 6020) | Chioride - EPA 300.0M | Fluoride - EPA 300.0M | Hd                      |                |
| Tank-2, Bldg 88          | ES-1 @ 3.5'                               | 12/8/15     |                          | 1            | ers                 |                  | X                 |               | Т      | 7        |            | Γ                 | Π          |                                |                                                    |                                                  |                                      |                                       |                                   |                                            |                                                 |                                |                                        | X                                         |                                |                                    | X                                           |                                             |                                    | X                     | X                     | X                       |                |
| Tank-1, Bldg 90          |                                           | 12/8/15     |                          | 1            | 5                   |                  | х                 |               |        | 1        | _          |                   |            |                                |                                                    |                                                  |                                      |                                       |                                   |                                            |                                                 |                                |                                        | X                                         |                                |                                    | X                                           | t                                           | 1-                                 | x                     | X                     |                         |                |
| lank-1, blog 50          | <u>13-2 @ 4</u>                           |             |                          | <u> </u>     | r Se                | ┢──              | $\rightarrow$     | -             | ╉      | ť        | \          | 1                 | $\vdash$   |                                |                                                    |                                                  | -                                    |                                       |                                   | _                                          |                                                 |                                |                                        | <b> </b> ^                                |                                | -                                  | ┢                                           |                                             |                                    | ┢╸                    | ┢≏                    | ┢╸                      |                |
|                          | <b> </b>                                  |             |                          | <b></b>      | - 5                 |                  |                   | _             | -      | +        | ╋          | 4                 |            |                                |                                                    | _                                                |                                      |                                       |                                   |                                            |                                                 |                                | _                                      | _                                         | -                              | _                                  |                                             | <u> </u>                                    |                                    | <u> </u>              | -                     | <u> </u>                |                |
|                          |                                           |             |                          |              |                     |                  |                   |               |        |          |            |                   |            |                                |                                                    |                                                  |                                      |                                       |                                   |                                            |                                                 |                                |                                        |                                           |                                |                                    |                                             |                                             |                                    |                       |                       |                         |                |
|                          |                                           |             |                          |              |                     |                  |                   |               |        |          |            |                   |            |                                |                                                    |                                                  |                                      |                                       |                                   |                                            |                                                 |                                |                                        |                                           |                                |                                    |                                             |                                             |                                    |                       |                       |                         |                |
|                          |                                           |             |                          |              |                     |                  |                   |               | Т      | Т        |            |                   |            |                                |                                                    |                                                  |                                      |                                       |                                   |                                            |                                                 |                                |                                        |                                           |                                |                                    |                                             |                                             |                                    |                       |                       |                         |                |
|                          | 1                                         |             |                          | t            |                     |                  |                   | +             | ╈      | +        | +          |                   |            |                                |                                                    |                                                  | -                                    |                                       |                                   |                                            |                                                 |                                |                                        |                                           |                                |                                    |                                             | t                                           |                                    |                       |                       | $\vdash$                |                |
|                          | ╂────                                     |             |                          | ├            |                     | $\vdash$         |                   | +             | +      | ╋        | ╋          | $\vdash$          | H          |                                |                                                    |                                                  | _                                    |                                       |                                   |                                            | _                                               |                                |                                        | -                                         | $\vdash$                       |                                    | -                                           | ╂—                                          | $\vdash$                           | -                     | ⊢                     | ╂—                      |                |
|                          | ╂────                                     | Į           |                          | <b> </b>     | <u> </u>            |                  |                   |               | -      | _        | -          | -                 |            | _                              |                                                    |                                                  |                                      |                                       |                                   |                                            |                                                 |                                |                                        | <b></b>                                   | <u> </u>                       |                                    |                                             |                                             | ┢                                  | <b>_</b>              |                       |                         |                |
|                          |                                           |             |                          |              |                     |                  |                   |               |        |          |            |                   |            |                                |                                                    |                                                  |                                      |                                       |                                   |                                            |                                                 |                                |                                        |                                           |                                |                                    |                                             |                                             |                                    |                       |                       |                         |                |
|                          |                                           |             |                          |              |                     |                  |                   |               |        |          |            |                   |            |                                |                                                    |                                                  |                                      |                                       |                                   |                                            |                                                 |                                |                                        |                                           |                                |                                    |                                             |                                             |                                    |                       |                       |                         |                |
|                          |                                           |             |                          |              |                     |                  |                   |               |        | Т        |            |                   |            |                                |                                                    |                                                  |                                      |                                       |                                   |                                            |                                                 |                                |                                        |                                           |                                |                                    |                                             |                                             |                                    |                       |                       |                         |                |
|                          | [                                         |             |                          | i –          | ŀ                   |                  |                   |               |        |          | T          | T                 | П          |                                |                                                    |                                                  |                                      |                                       |                                   |                                            |                                                 |                                |                                        | -                                         |                                |                                    | -                                           |                                             |                                    |                       |                       | <b>—</b>                |                |
| <b>├</b> ───             | <u> </u>                                  |             |                          | t            |                     |                  | $\vdash$          | -+            | ╈      | ╈        | +-         | 1                 | H          |                                |                                                    |                                                  |                                      |                                       |                                   |                                            |                                                 |                                |                                        |                                           |                                |                                    | -                                           |                                             | +                                  |                       | ┢                     | 1—                      |                |
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| L                        | _                                         |             |                          | L            |                     |                  |                   | _             |        |          |            |                   |            | _PR                            | ESE                                                | RVA                                              | TIO                                  | N                                     | _                                 | _                                          |                                                 | pH<                            | 2                                      |                                           | _                              | _                                  |                                             |                                             |                                    | _                     |                       | _                       |                |

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2015 OCT 28 PM 2: 10



web: www.envirosafetech.com



October 28, 2015

Socorro Guzman Santa Clara County Department of Environmental Health 1555 Berger Drive, suite 300 San Jose, CA 95112-2716

Dear Ms. Guzman,

As per our agreement at the last meeting, I am submitting amendment documents to Avago closure plan, which originally submitted on September 11, 2015. The amendment cover additional step to original closure plan. If you require any further information, let me know. Enclosure:

Amendment documents A check with amount of \$2,598.00

Sincerely

Mo Pournejat Environmental Health & Safety Specialist Cell: 650-580-4642

## 1. Introduction

This closure plan provides for the decommissioning, and closure of the permit by rule fixed treatment units N-2, which consist of two tanks. W-31 as collection tank with 500 gallon capacity and W-32 with 2,000 gallon capacity that used as neutralization tanks at Avago Technology located at 350 West Trimble Road San Jose, CA 95131-1008. (Figure 1)

# **1.1 Facility History**

In November 2005, Agilant announced the sale of the Semiconductor business to an investment firm and the subsequent new company was created as Avago Technologies, U.S. Inc. at the same time, Agilant also sold is its portion of the Lumileds Joint Venture to the other partner Phillips. N-2 system was constructed o allow for a physical separation of Lumileds and Avago wastewaters. The FTU is owned and operated by Avago Technologies and the resulting non-hazardous wastewater is discharged into the second stage (tank W29). This tank is part of Lumileds Lighting final discharge to San Jose/ Santa Clare POTW. (Figure 2)

# **1.2 Facility Description**

The totally above ground system consist of one collection tank/ lift station (W31), and single 2,000 gallon fiberglass treatment tank. The wastewater is treated to a pH > 6 and <12 prior to being discharge to the second stage of N-1. The sodium hydroxide is held in 55 gallon drum (original shipping container) was metered into the system with pH controller and pumps. The treated wastewater flows to the San Jose/Santa Clara Water Pollution Control Plant Through the sanitary sewer system.

Since 2008, Avago facility was operating as a prototype and R&D facility. All wastewater discharge in the N-2 system was follow:

- Rinse waster from silicon wafer cutting saw with micro millimeter copper deposit of back of wafer.
- Rinse from industrial dishwasher with Triton (Dishwasher agent MSDS is attached, Appendix A).
- D.I. rinse from sink used to rinse silicon wafer
- Water condensation from stress oven

Prior to 2008, Avago were used HF and Hydrochloric Acid in their process and the rinse was discharged in to N-2 system.

## 2. N-2 Unit Closure Activities

Partial facilities closure will be implemented in accordance with previous submitted plan and this modification. The contractor selected to implement closure will also be prepare a health and safety plan in accordance with applicable regulations for their personnel. The health and safety plan shall be kept on site during the closure activities copy was submitted in previous application (Appendix B). All hazardous waste removed from the site will be properly labeled, manifested, and dispose as required as submitted earlier (Appendix C).

#### 2.1 Tank Decontamination Procedure

Once residual wastes are removed, the tanks will be decontaminated. Decontamination procedures will be generally consistent with the following:

a) The tank interior will be washed with a detergent-water solution and highpressure

wash. The interior may also be scraped and/or squeegeed to remove residual waste material. Pressure washing will continue until the tank interior is visually clean, and then triple rinsed. The quantity of wash water will be kept to a minimum to reduce the amount required for treatment/disposal.

- b) Decontamination water and residual wastes that accumulate at the bottom of the tank will be removed using a pump, and transferred into containers.
- c) A sample of the final reinstate will be collected and analyzed for following constituents, pH, Fluoride, Chloride, CAM17 metal, and VOC. The results of the reinstate analysis will be used to verify effective decontamination of the tanks.

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## 2.2 Core Sampling During Closure

The aboveground storage tanks are situated within a concrete secondary containment area, which has been lining with fiberglass. Avago intends to leave two tanks in place after decontamination (Appendix D). In order, to provide the evidence of clean closure Avago technology subcontractor BAGG engineering will core a 6" diameter hole through the slab adjacent to each of the two N-2 unit tanks. The sample will include subgrade soil at each location. Also wipe-test the cores.

- a) The wipe-test will analysis for pH, Fluoride, Chloride, and CAM 17 metal. If the lab result shows no evidence of contamination then the closure activities are complete.
- b) Otherwise, the concrete sample will be pulverized and tested. If analysis is negative then closure is complete.
- c) Otherwise, the subgrade soil will be tested for pH, Fluoride, Chloride, CAM 17 metal, Volatile Organic Compound (VOC), Semi Volatile Organic Compound (SVOCs), and Waste Extraction (STLC).





# MATERIAL SAFETY DATA SHEET

# Vitrex ULTRA

|                           | NY NAME AND ADD                                                            | DRESS:                                                                                                                |                              |                                                                  |
|---------------------------|----------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------|------------------------------|------------------------------------------------------------------|
| 9055 Rancho<br>Rancho Cuc | chnologies Corporation<br>o Park Court<br>amonga, CA 91730<br>909-944-7771 |                                                                                                                       |                              | Effective: April 1, 2007                                         |
| 2. INGRED                 | DIENTS:                                                                    |                                                                                                                       |                              |                                                                  |
| See Secti                 | the second second second second second second                              | zardous Components<br>ermined hazardous by OSHA definition<br>if applicable).                                         | CAS Number<br>NA             | Approximate %<br>NA                                              |
| 3. HAZARI                 | DS IDENTIFICATION                                                          | l:                                                                                                                    |                              |                                                                  |
|                           | Clear                                                                      | EMERGENCY OVE<br>straw colored liquid with a mild odor<br>skin and to mucous membranes if                             | . May be irritating to       |                                                                  |
| Eyes:                     | Contact may cause in                                                       | ritation.                                                                                                             |                              |                                                                  |
| Skin:                     | Skin contact may cau                                                       | se irritation, possibly severe.                                                                                       |                              |                                                                  |
| Ingestion:<br>Inhalation: | May be harmful if inge<br>May be mildly irritating                         | ested.<br>g to lungs, nose and throat.                                                                                |                              |                                                                  |
| 4. FIRST A                | ND:                                                                        |                                                                                                                       |                              | 11                                                               |
| Eyes:                     | Immediately flush eye                                                      | s with plenty of water for 15 minutes. If irrita                                                                      | tion develops, get media     | al attention.                                                    |
| Skin:                     | Remove contaminated<br>contaminated items b                                | d clothing and shoes. Wash affected area w efore reuse.                                                               | ith plenty of soap and w     | ater. Get medical attention. Wash                                |
| Ingestion:                | If conscious, give per                                                     | son 1 to 2 glasses of water. Get medical hel                                                                          | p.                           |                                                                  |
| Inhalation:               | Remove victim from a                                                       | rea of exposure. If unconscious, give oxyge                                                                           | n. Give artificial respirati | on if not breathing. Get medical help.                           |
| Medical Con               | ditions Aggravated: Cond                                                   | litions aggravated may include disorders of t                                                                         | he skin, respiratory and     | nervous systems.                                                 |
| 5. FIRE AM                | ND EXPLOSION HAZ                                                           | ARD DATA:                                                                                                             |                              |                                                                  |
| Extinguisher              | Limits in Air:<br>Media:<br>Fighting Procedures:                           | 212°F. / 100°C<br>None established<br>Standard methods including dry chemic<br>Water should be used to keep fire-expo |                              | n and water fog.<br>event runoff from fire control from entering |

streams, sewers or drinking water supply.

Oxides of carbon and nitrogen.

Combustion Products:

#### 6. ACCIDENTAL RELEASE MEASURES:

- Small Spill: Use proper personal protective equipment. Dike area to contain spill. Pick up spill on absorbent, non-combustible material. Place into a chemical waste container. Don't flush into sewers or natural waterways. Wipe area with water to remove last traces.
- Large Spill: Contain material as described above. If necessary, call the local fire or police department for immediate emergency assistance.

#### 7. HANDLING AND STORAGE:

Handling: Do not eat, drink or smoke in handling area. Wear proper eye and skin protection. Follow proper handling procedures. Storage: Keep container tightly closed. Store in cool (60-80°F) ventilated area. Keep separate from s trong acids, and oxidizers and away from heat, sparks and open flame.

#### 8. EXPOSURE CONTROLS/ PERSONAL PROTECTION:

#### Exposure Guidelines:

|                                                                                                                                            | Hazardous Component                                                                                                                                                                                                                   | Exposure      | <u>e Limits</u> |  |
|--------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|-----------------|--|
|                                                                                                                                            |                                                                                                                                                                                                                                       | OSHA PEL, ppm | ACGIH TLV, ppm  |  |
|                                                                                                                                            | None                                                                                                                                                                                                                                  | NA            | NA              |  |
| Respiratory Protection:<br>Ventilation:<br>Protective Gloves:<br>Eye Protection:<br>Other Protective Equipment:<br>Work Hygiene Practices: | Use NIOSH approved organic vapor ai<br>Use in well-ventillated area with local ex<br>Impervious chemical, etc.<br>Glasses, goggles or face shield, etc.<br>Eye fountain, safety shower, etc.<br>Do not eat, drink, or smoke when hand | xhaust.       |                 |  |

#### 9. PHYSICAL AND CHEMICAL PROPERTIES:

| рН 100%                          | 10.3 – 11.3      | Specific Gravity    | 0.921 @ 20°C       |
|----------------------------------|------------------|---------------------|--------------------|
| pH 10%                           | 9.0 - 10.0       | Appearance          | Clear straw liquid |
| Volatile Organic Compound (VOC): |                  | Odor                | Mild               |
| EPA Method 24:                   | 942.1 g/L        | Solubility in water | Very Soluble       |
| Vapor Pressure, VOC Components:  | 0.05 mmHg at 20℃ | Boiling Point       | 165°- 175℃         |

#### **10. STABILITY AND REACTIVITY:**

| Stability:                | Stable                                                          |
|---------------------------|-----------------------------------------------------------------|
| Hazardous Polymerization: | Will not occur                                                  |
| Incompatibility:          | Strong acids and oxidizers                                      |
| Hazardous Decomposition:  | Oxides of carbon, nitrogen                                      |
| Other:                    | Do not add nitrates due to possible formation of nitrosoamines. |

#### **11. TOXICOLOGICAL INFORMATION:**

| Acute Toxicology:   | No data is available on product as a whole. |
|---------------------|---------------------------------------------|
| Chronic Toxicology: | Not established on product as a whole.      |
| Carcinogenicity:    | Contains no known or suspected carcinogens. |

#### **12. ECOLOGICAL INFORMATION:**

| Environmental Fate and Effects | 5:               |
|--------------------------------|------------------|
| Ecotoxicity:                   | Not established. |
| Mobility:                      | Not established. |
| Persistence and Degradability: | Not established. |
| Bioaccumulative Potential:     | Not established. |

#### **13. DISPOSAL INFORMATION:**

Disposal of Material:

Use approved treatment, transporters and disposal sites. USEPA guidelines for the classification determination are listed in 40 CFR Parts 261.3.

#### Empty Containers:

Keep containers closed when not in use. Do not reuse empty containers.

#### **14. TRANSPORTATION:**

Not regulated.

|                           | US DOT: 49CFR172.101                                        |
|---------------------------|-------------------------------------------------------------|
| Proper Shipping Name:     | Compounds, Cleaning Liquid.<br>Non-hazardous, Non-flammable |
| Hazard Class or Division: | None                                                        |
| Identification No.:       | None                                                        |
| Packing Group:            | None                                                        |
| LABEL:                    | None                                                        |
| Placard:                  | None                                                        |

#### **15. REGULATORY INFORMATION:**

| 29CFR 1910.1200:<br>States Right-to-Know:<br>TSCA Listed:<br>CERCLA:<br>SARA TITLE III, Section 313<br>SARA 302:<br>SARA 311/312:<br>California Proposition 65:<br>Canada:<br>RoHS Compliant: | Propylene glyco<br>2-(2-aminoetho<br>Yes<br>No | ryl alcohol CAS # 93<br>I 107-98-2 PA<br>ky) ethanol 929-06-/ |                                |               |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------|---------------------------------------------------------------|--------------------------------|---------------|
| 16. OTHER INFORMATI                                                                                                                                                                           | ON:                                            |                                                               |                                | <u> </u>      |
| NFPA CODES:<br>HMIS CODES:                                                                                                                                                                    | HEALTH: 1<br>HEALTH: 1                         | FIRE: 0<br>FIRE: 0                                            | REACTIVITY: 0<br>REACTIVITY: 0 | PROTECTION: X |

The data contained herein is based on information currently available to Aqueous Technologies Corporation and is believed to be factual. As a formulator, blender, and compounder, Aqueous Technologies Corporation does not manufacture the raw materials used in this product and correspondingly relies on information provided to Aqueous Technologies Corporation from material safety data sheets on the specific raw materials in the construction of this material safety data sheet. Such information is to the best of Aqueous Technologies Corporation's knowledge and belief to be accurate and reliable as of the date of this MSDS. HOWEVER, NO REPRESENTATION, WARRANTY OR GUARANTEE IS MADE AS TO THE ACCURACY, RELIABILITY, OR COMPLETENESS. It is the user's responsibility to satisfy himself as to the suitability and completeness of such information for his own particular application. This information is not intended to be all-inclusive as to the manner and conditions of use, handling and storage. Other factors may involve other or additional safety or performance considerations. This data is not to be taken as a warranty or representation of which Aqueous Technologies Corporation assumes legal responsibility. Copyright 2005 Aqueous Technologies Corporation. All rights reserved.

Appendix B

# Health and Safety Plan

#### **AVAGO**

August 24, 2015

- Purpose This Safety Plan identifies the potential hazards which Advanced Chemical Transport, Inc. (ACT) personnel may be exposed to during the performance of duties outlined in this job. Therefore, ACT personnel shall not participate in this job without having read this plan in its entirety and signed off that they have read and understand its contents. This plan has been developed to be as complete as possible, however, should conditions dictate revisions or additions to this plan, amendments shall be added, and distributed to all persons involved with this plan. This plan works in concert with ACT's corporate "Safety and Health Programs" as well as the approved "Scope of Work".
- Requirements Completion of a HASP II is required for anything beyond the scope of a HASP I specifically a HASP II is required for confined space entry, special projects, excavations, equipment demolition, tank/sump cleaning, and remediation activities. This list is not all inclusive. If ever in doubt, contact the Compliance Director.
- Scope Flush acid waste lines with water from labs to holding tank. Customer will pump tank #1 to tank #2. ACT will pressure wash and vacuum out tank #1. Customer will pump down tank #2. ACT will pressure wash and remove heavy sediments. Waste will be drummed and stage for customer. ACT will remove approx. 20 feet of stainless steel exhaust to main connection and cap. Waste will be placed in CYB for customer. ACT will remove 15 feet of 2-inch PVC acid drain lines to floor and cap. ( into CYB) ACT will decontaminate floor 8' X 20'. ACT will take samples as described in scope.

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# Background

Client Name:AvagoClient Contact:Jeff Madigan (408) 834-9975Address:350 W Trimble Rd. San Jose, Ca.Project Date(s)8/31/15 thru 9/4/15ACT AccountJuliana CayetanoManager:

ACT Project Manager: Doug Cameron



## Management of Change

|                                        | The procedures in this Safety Plan have been developed based on ACT's understanding of<br>the proposed activities. Every effort has been made to address the chemical hazards that<br>may be encountered during the implementation of the proposed actions. Similarly, this<br>document also discusses the physical hazards associated with the proposed activities.<br>However, unanticipated site-specific conditions or situations may occur during the<br>implementation of this project. As such, this Safety Plan must be considered a working<br>document that is subject to change to meet the needs of this dynamic project. |
|----------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Modifications<br>to the Safety<br>Plan | Should significant additional information become available regarding potential on-site hazards, it may be necessary to modify this Safety Plan. All proposed modifications to this Safety Plan must be reviewed and approved by ACT's Compliance Director before such modifications are implemented.                                                                                                                                                                                                                                                                                                                                  |

The Project Manager will ensure that all personnel covered by this Safety Plan receive copies of modified sections of the Safety Plan. Sign-off forms will accompany each addendum and must be signed by all personnel covered by the addendum. The Safety Plan addenda should be distributed during the daily safety meeting so that they can be reviewed and discussed.

# Emergency Contacts – *To be Posted at Site*

| <b>•</b> • • • <b>•</b>                         |           |                                             | (400) 640 1002                |         |  |  |  |
|-------------------------------------------------|-----------|---------------------------------------------|-------------------------------|---------|--|--|--|
| Project Manager                                 |           | Doug Can                                    | Doug Cameron (408) 640-1003   |         |  |  |  |
| Secondary Lead                                  | Rick Bern | ier (831)419-5936                           |                               |         |  |  |  |
| Site Health & Safety Officer                    |           | Terrace L                                   | um (408) 639-1350             |         |  |  |  |
| ACT Compliance Director                         |           | Krista Har                                  | rsono: 619-571-5737           |         |  |  |  |
| ACT Office                                      |           | (408) 548                                   | -5050                         |         |  |  |  |
| Client Contact                                  |           | Jeffery M                                   | Jeffery Madigan (408)834-9975 |         |  |  |  |
| Onsite Emergency ERT#/Extension (If applicable) |           | 911                                         |                               |         |  |  |  |
| Fire Department                                 |           | 911                                         | 911                           |         |  |  |  |
| Police / Sheriff Department                     |           | 911                                         | 911                           |         |  |  |  |
| Nearest Hospital / Emergency Room               |           | Regional Medical Center S.J. (408) 259-1000 |                               |         |  |  |  |
| Nearest Non-Emergency Treatment Center          |           | US Health                                   | 1 works (408) 988-6868        |         |  |  |  |
| Prepared By:                                    | Issue dat | e:                                          | Replaces:                     | Page:   |  |  |  |
| Advanced Chemical Transport, Inc.               | June 4, 2 | 015                                         | April 7, 2015                 | 2 of 12 |  |  |  |

#### Training and Recordkeeping

All ACT personnel and subcontractors (if any) working at the Site will have current OSHA 40hour training and 8-hour refresher courses. Medical surveillance, personal protection, training and respirator fit testing requirements will be in accordance with 29 CFR 1910.120 and 8 CCR 5144. In addition all work will be conducted in accordance with OSHA's Excavation Standard, 29 CFR 1926, Subpart P.

The records related to the training, health and safety of all personnel and subcontractors during the activities of each project will be maintained by the Project Manager. The training provided to all personnel who perform work at **Avago** shall include:

- The work practices that must be followed.
- The use of personal protective equipment that will typically be required.
- Procedures to be followed if a hazardous atmosphere exists or could reasonably be expected to develop.
- ACT's policy on reporting incidents.

# Medical Surveillance

Pre-Prior to employment with ACT, all field personnel are given a complete medical evaluation toEmploymentensure that they are able to safely complete their job duties in accordance with 29 CFR1910.120(f).

EmployeeThe primary concern during work under this contract at Avago is trace residual chemicalsExposure(corrosive). Accurate determination of the extent of employee exposure to the siteMonitoringcontaminants will enable ACT to determine compliance with OSHA requirements,<br/>permissible exposure limits, and to evaluate the effectiveness of personal protective<br/>equipment. Air monitoring is recommended [in accordance with 29 CFR 1910.120(h)] to<br/>survey and assess the worker exposure and allow both the Project Manager and Compliance<br/>Director to make informed decisions regarding the up or down grade of personal protective<br/>equipment. Personal sampling is the preferred method of evaluating worker's exposure to<br/>airborne contaminates.

# Assignment of Responsibilities

ProjectThe Project Manager (PM) will have overall responsibility for the implementation of theManagerSafety Plan. This will include communicating site requirements to all personnel regarding<br/>appropriate changes to the Safety Plan. The Project Manager may delegate his authority to<br/>the Site Health and Safety Officer. The Project Manager will be responsible for conducting<br/>the daily safety meetings prior to working.

| Prepared By:                      | Issue date:  | Replaces:     | Page:   |
|-----------------------------------|--------------|---------------|---------|
| Advanced Chemical Transport, Inc. | June 4, 2015 | April 7, 2015 | 3 of 12 |

Site Health and The Site Health and Safety Officer will be the first line supervisor responsible for ensuring that work crews comply with all the site health and safety requirements. He/she will report all violations to the Project Manager immediately. The Site Health and Safety Officer will be assigned by the Project Manager and be responsible for the following:

- Update the Safety Plan as directed, by Project Manager
- Maintain records of all safety and training meetings, including sign-in sheets and subjects covered
- Maintain Standard Operating Procedures up to date and make revisions when necessary

#### Technicians

- Perform scope of work as outlined below while maintaining regard for safety precautions set by site health and safety officer
  - Review and document understanding of this Safety Plan
  - Attend and participate in scheduled safety meetings and training
  - Understand proper use of required PPE for specific jobs
  - Halt work and contact the Project Lead / Supervisors for any work outside the Safety Plan (see Scope of Work)
  - Immediately inform the Project Lead / Supervisors of any unsafe conditions or newly recognized hazards

#### Scope of Work

Flush acid waste lines with water in Proto Type Lab and Engineering Lab. The lines will drain to tank #1 (NS-2) in Basement. ACT will verify all lines and ports pH at 7. Cap and plug. Acid waste lines will remain. ACT will clean floor area in Engineering Lab (10X20). ACT will remove exhaust duct in Test Lab. Customer will transfer liquid from Tank #1 to Tank #2 and drain down Tank #2. ACT will remove remaining solid and liquid and pressure wash tanks. (Non-Entry) waste will be drummed as waste.

#### Completely describe each step required to complete the task:

-Review safety plan (HASP//). Review job scope with contact.

-Secure work area and don proper PPE.

-inspect tools and equipment at the start of each day.

-Connect water hose to supply and flush lines (Proto-Lab and Engineering Lab) and all tie-ins (150'of hose). Check pH. Re-cap.

-In Engineering Lab, remove stainless steel exhaust to main above Tee-bar and cap. There are 3 exhaust ducts, 1-inch copper and 1-inch stainless steel from pump. (dead end) place in Triwall as haz-waste.

-ACT will decontaminate a 10'X20' floor in the Engineering Lad. Samples may be taken for lab.

-ACT will remove exhaust duct in Test Lab to main and cap. Place in Tri-wall as waste. -Tank #1and #2 will be pressure washed with electric washer (Non-Entry). Liquid and solids will be removed by vacuum and pumps then placed into drums. Waste will be handled by customer. Samples may be taken of tank interior and/or rinse water.

| Prepared By:                      | Issue date:  | Replaces:     | Page:   |
|-----------------------------------|--------------|---------------|---------|
| Advanced Chemical Transport, Inc. | June 4, 2015 | April 7, 2015 | 4 of 12 |

•

# Hazard Assessment & Control

| Chemical                                   | Concentration      | TLV/P  | EL         | IDLH           | SDS              | OSHA             | Routes of          |
|--------------------------------------------|--------------------|--------|------------|----------------|------------------|------------------|--------------------|
|                                            | (units)            |        |            |                | available        | Carcinoger       | n Exposure         |
|                                            |                    |        |            |                |                  |                  |                    |
| Nitric Acid                                | 1%<                | 2 PPM  |            |                | Yes              | no               | Inhalation/contact |
| Sulfuric :                                 | 1%<                | 1 mg/n | n3         | 50 ppm         | Yes              |                  | Inhalation/contact |
| Hydrochloric<br>Acid                       | 1%<                | 5 ppm  |            | 50 ppm         | Yes              | no               | Inhalation/contact |
|                                            |                    | ļ      |            |                |                  |                  |                    |
|                                            |                    | Yes    | No         | How to Cont    | rol:             |                  |                    |
| Biologics                                  |                    |        | x          |                |                  |                  |                    |
| -                                          | <b>om</b> //f      |        | ^          |                |                  |                  |                    |
| Chemical Reaction<br>indicate which high I |                    |        |            |                |                  |                  |                    |
| was consulted; whor<br>the HASP.)          |                    |        |            |                |                  |                  |                    |
| Cold                                       |                    |        | x          |                |                  |                  |                    |
| Confined Space                             |                    | Н      | x          |                |                  |                  |                    |
| Dust                                       |                    | Н      | x          |                |                  |                  |                    |
| Electrical                                 |                    | Н      | X          |                |                  |                  |                    |
| Explosion                                  |                    | Н      | x          |                |                  |                  |                    |
| Fall                                       |                    | ×      | Ô          | l adder use a  | bove 6' require  | es fall protecti | ion                |
| Fire                                       |                    | ×      | ×          |                | bove o require   | es lan protect   | ion.               |
| Hazardous Mate                             | rials - lif yes    | X      | Ê          | Trace amour    | nt will be found | lin AWN and      | ducting $(10/2)$   |
| table above must be                        |                    | X      |            | mace amound    | it will be found |                  |                    |
| Heat                                       |                    | х      |            | Stav hvdrate   | d with water a   | nd breaks.       |                    |
| Heavy Equipmer                             | nt                 |        | x          | ,,             |                  |                  |                    |
| Hot Work                                   |                    | П      | X          |                |                  |                  |                    |
| (Any type of work the spark/flame)         | at produces a      |        |            |                |                  |                  |                    |
| LOTO                                       |                    |        | х          |                |                  |                  |                    |
| Mechanical                                 |                    |        | х          |                |                  |                  |                    |
| Noise level abov                           | e 85 dBA           |        | х          | If noise level | above 85 the e   | ear plugs will   | be worn.           |
| Oxygen deficien                            | cy                 |        | х          |                |                  | F                |                    |
| Overhead work                              | -                  | x      |            | Area will be   | controlled and   | l hard hats wa   | arn                |
| Radiation                                  |                    |        | x          |                |                  |                  |                    |
| Rigging / Materia                          | al Handling        |        | х          |                |                  |                  |                    |
| Slippery Surfaces                          | -                  |        | х          |                |                  |                  |                    |
| Prepared By:                               |                    | lss    | ue date:   |                | Replaces:        | T                | Page:              |
| Advanced Chemica                           | al Transport, Inc. |        | ne 4, 2015 | 5              | April 7, 2015    |                  | 5 of 12            |

|                                                                                                                                                                                                                        | Safety Plan                                                                                                                                                                                   |                   |                                       |                          |                                   |              |                       |          |       |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|---------------------------------------|--------------------------|-----------------------------------|--------------|-----------------------|----------|-------|
|                                                                                                                                                                                                                        |                                                                                                                                                                                               | Yes               | No                                    | How to Co                | ontrol:                           |              |                       |          |       |
| Vibration<br>Fall (is yes, comple<br>inspection below pr<br>equipment)                                                                                                                                                 |                                                                                                                                                                                               | ×                 | ×                                     |                          |                                   |              |                       |          |       |
| <b>item</b><br>Harness                                                                                                                                                                                                 |                                                                                                                                                                                               |                   |                                       |                          |                                   |              |                       | Yes<br>X | No    |
|                                                                                                                                                                                                                        | tears, rips, fraying, a                                                                                                                                                                       |                   | oloring?                              |                          |                                   |              |                       | X        | Ц     |
| •                                                                                                                                                                                                                      | ttachment points pr                                                                                                                                                                           |                   |                                       |                          |                                   |              |                       | Ň        | Ļ     |
| IS Harness passed<br>ANSI A10.32-2004 states the s                                                                                                                                                                     | cks and/or bent clip:<br>l its expiration date?<br>ervice life of feil protection equipment                                                                                                   | I                 |                                       | r shail be 5 years unles | is otherwise specified by the mar | nufacturer ) |                       |          | X     |
| <u>Lanyards</u><br>Is the lanyard free                                                                                                                                                                                 | e of tears, rips, frayir                                                                                                                                                                      | ng. and           | discolorin                            | g?                       |                                   |              |                       |          |       |
| -                                                                                                                                                                                                                      | proper length for th                                                                                                                                                                          |                   |                                       |                          |                                   |              |                       |          | đ     |
| Are any of the clip<br>Are lanyards pass<br>(ANSI A10.32-2004 states the s<br>Connectors & An                                                                                                                          | ps/attachments crac<br>ed its expiration dat                                                                                                                                                  | ked or l<br>e?    | bent?                                 |                          | ss otherwise specified by the mar | sufacturer ) |                       | ×        |       |
| Are locking mech                                                                                                                                                                                                       |                                                                                                                                                                                               |                   |                                       |                          |                                   |              |                       | x        | H     |
| -                                                                                                                                                                                                                      | nd hooks show stitch                                                                                                                                                                          | ning tea          | rs?                                   |                          |                                   |              |                       | x        | ليا   |
| Inspected By: Do                                                                                                                                                                                                       |                                                                                                                                                                                               | 0                 |                                       |                          |                                   |              |                       | Ë        | v     |
|                                                                                                                                                                                                                        | Protective Equip                                                                                                                                                                              | ment              |                                       |                          |                                   |              |                       |          | x<br> |
| Personal<br>Task Descriptio                                                                                                                                                                                            | Protective Equip                                                                                                                                                                              | e lines:          |                                       |                          | YNA                               |              |                       |          |       |
| Personal<br>Task Descriptio                                                                                                                                                                                            | -<br>Protective Equip                                                                                                                                                                         | e lines:          |                                       | ter.                     | X NA                              |              |                       |          | ×     |
| Personal<br>Task Descriptio<br>Respiratory                                                                                                                                                                             | -<br>Protective Equip<br>n: Flush acid wast                                                                                                                                                   | e lines<br>Respir | rator<br>                             |                          | X NA                              | ield         | □ NA                  |          | ×     |
| Personal<br>Task Descriptio<br>Respiratory<br>Head / Face                                                                                                                                                              | - Protective Equip n: Flush acid wast Air Purifying Other X Safety glasses                                                                                                                    | e lines<br>Respir |                                       | SCBA                     |                                   |              | NA<br>Pek (poly coate | ed)      | ×     |
| Personal<br>Task Descriptio<br>Respiratory<br>Head / Face<br>Body / Torso                                                                                                                                              | Protective Equip                                                                                                                                                                              | e lines<br>Respir |                                       | SCBA                     | Splash Sh                         | 🗌 Туч        |                       | ed)      | ×     |
| Personal<br>Task Descriptio<br>Respiratory<br>Head / Face<br>Body / Torso<br>Feet                                                                                                                                      | Protective Equip<br>n: Flush acid wast<br>Air Purifying<br>Other<br>X Safety glasses<br>Other<br>X Uniform<br>X Uniform<br>X Tyvek<br>Rubber boot                                             | e lines<br>Respir | Han                                   | SCBA                     | Splash Sh                         | 🗌 Туч        | ek (poly coate        | ed)      | ×     |
| Personal Task Descriptio Respiratory Head / Face Body / Torso Feet Hands                                                                                                                                               | Protective Equip                                                                                                                                                                              | ts                | Hai                                   | SCBA                     | Splash Sh                         | 🗌 Туч        | ek (poly coate        |          |       |
| <ul> <li>Personal</li> <li>Task Descriptio</li> <li>Respiratory</li> <li>Head / Face</li> <li>Body / Torso</li> <li>Feet</li> <li>Hands</li> </ul>                                                                     | Protective Equip<br>n: Flush acid wast<br>Air Purifying<br>Other<br>X Safety glasses<br>Other<br>X Uniform<br>X Uniform<br>X Tyvek<br>Rubber boot<br>Other<br>X Nitrile<br>Other              | ts                | Hai<br>Hai<br>No<br>Oth<br>Boo<br>Lea | SCBA                     | Splash Sh                         | 🗌 Туч        | ek (poly coate        |          | X     |
| <ul> <li>Personal</li> <li>Task Descriptio</li> <li>Respiratory</li> <li>Head / Face</li> <li>Body / Torso</li> <li>Feet</li> <li>Hands</li> <li>Task Descriptio</li> <li>Respiratory</li> <li>Prepared By:</li> </ul> | Protective Equip<br>n: Flush acid wast<br>Air Purifying<br>Other<br>X Safety glasses<br>Other<br>X Uniform<br>X Uniform<br>X Tyvek<br>Rubber boot<br>Other<br>X Nitrile<br>Other<br>X Nitrile | ts                | Hai<br>Hai<br>No<br>Oth<br>Boo<br>Lea | SCBA                     | Splash Sh                         | <u></u> Туч  | ek (poly coate        |          |       |

| Avago Health & S                | Safety Plan                                                                             |                                                          |                                                 |                        |
|---------------------------------|-----------------------------------------------------------------------------------------|----------------------------------------------------------|-------------------------------------------------|------------------------|
|                                 | Other                                                                                   |                                                          |                                                 |                        |
| Head / Face                     | ⊠ Safety glasses<br>□ Other                                                             | Hard hat                                                 | Splash Shield                                   |                        |
| Body / Torso                    | 🔀 Uniform<br>🔲 Tyvek                                                                    | Nomex                                                    | Saranex Tyve                                    | ek (poly coated)       |
| Feet                            | Rubber boots                                                                            | Boot Covers                                              | Steel toe                                       |                        |
| Hands                           | X Nitrile                                                                               | X Leather                                                | D PVC                                           | Silver shield          |
| Task Description                | : Pressure wash and va                                                                  | cuum out tanks.                                          |                                                 |                        |
| Respiratory                     | Air Purifying Respi                                                                     | rator SCBA                                               |                                                 |                        |
| Head / Face                     | X Safety glasses                                                                        | Hard hat                                                 | X Splash Shield                                 |                        |
| Body / Torso                    | X Uniform                                                                               | Nomex                                                    | Saranex X Tyvek                                 | (poly coated)          |
| Feet                            | Rubber boots                                                                            | Boot Covers                                              | X Steel toe                                     |                        |
| Hands                           | X Nitrile                                                                               | Leather                                                  |                                                 | Silver shield          |
| 10 Equipn                       | nent                                                                                    |                                                          |                                                 |                        |
| Specialized<br>Equipment        | <ul> <li>Manifold system</li> <li>Confined space eq</li> <li>Other</li> </ul>           |                                                          | te equipment 🗌 Stabi<br>g equipment 🗌 HazC      | lization Kit<br>at Kit |
| Other<br>Equipment              | X Power Tools<br>X Pressure washer<br>Diaphragm pump<br>Siphon pump<br>Heavy equipment: | X Power head/dro<br>Generator<br>Siphon pump<br>Man lift | um vac 🔲 HEPA vac<br>🗌 Mercury v<br>🗌 Lutz pump | _                      |
| Meters                          | LEL/O2                                                                                  | <pre>」 Jerome     Other</pre>                            | Geiger                                          | PID                    |
| Prepared By:<br>Advanced Chemic |                                                                                         | sue date:<br>ine 4, 2015                                 | Replaces:<br>April 7, 2015                      | Page:<br>7 of 12       |

| Avago Health & S                                                                                    | Safety Plan                                                                                                   |                              |                            |                                 |                                    |                                 |                            |
|-----------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------|------------------------------|----------------------------|---------------------------------|------------------------------------|---------------------------------|----------------------------|
| Safety<br>Equipment                                                                                 | LOTO X                                                                                                        | Fire extingui<br>] Grounding |                            | First Aid Kit<br>] Portable eye |                                    | Barrier /tape/s<br>Portable sho | -                          |
| 11 Monito                                                                                           | ring                                                                                                          |                              |                            |                                 |                                    |                                 |                            |
| Is Monitoring<br>Required?                                                                          | Yes Yes                                                                                                       | X No                         |                            |                                 |                                    |                                 |                            |
| Monitor<br>Information<br>Monitor<br>Information                                                    | Device Name                                                                                                   | 3                            | Model                      |                                 | SN                                 | Last Calil                      | oration Date               |
| Atmospheric<br>Monitoring<br>O2<br>LEL<br>H2S<br>CO<br>Organic/Other<br>(Specify)<br>Note: O2 below | Allowable<br>Levels<br>19.5% - 23.5%<br>10% or less<br>10 PPM or less<br>35 PPM or less<br>19.5% requires air | Time                         | 1 <sup>st</sup><br>Reading | Time<br>02 is above 2           | 2 <sup>nd</sup><br>Reading<br>3.5% | Time                            | 3 <sup>rd</sup><br>Reading |



## **Medical Emergencies**

In the unlikely event of a release of hazardous material into the environment, or a fire or explosion which may present a threat to human health or the environment, **the Project Manager must STOP the project and assess the hazard presented by the incident**, and notify all project personnel and the onsite client contact. A written report describing the event and actions taken must be submitted within 24 hours to the Compliance Director.

In addition, the Project Manager shall stop all normal facility operations and take all necessary measures to mitigate the hazard presented by any release of contaminated material, fire or explosion.



First AidIn responding to any medical emergency, it is important that the responding personnel<br/>consider their individual safety first. Do not enter any area where a chemical contaminant<br/>might be present without appropriate levels of protection. First aid procedures are specific

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| Avago Health 8        | Safety Plan                                                                                                                                                                       |                                                                              |                            |                         |  |
|-----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------|----------------------------|-------------------------|--|
|                       |                                                                                                                                                                                   | <ol> <li>ACT employees will revie<br/>ach chemical used in the wo</li> </ol> |                            |                         |  |
| Life                  | • Call 911                                                                                                                                                                        |                                                                              |                            |                         |  |
| Threatening           |                                                                                                                                                                                   | s is an emergency                                                            |                            |                         |  |
| Injuries &            |                                                                                                                                                                                   | ature of the emergency                                                       |                            |                         |  |
| Illness               | Identify the lo                                                                                                                                                                   | ocation by giving the facility r                                             | ame and address:           |                         |  |
|                       | Avago                                                                                                                                                                             |                                                                              |                            |                         |  |
|                       | 350 W. T                                                                                                                                                                          | rimble                                                                       |                            |                         |  |
|                       | San Jose,                                                                                                                                                                         | Ca.                                                                          |                            |                         |  |
|                       |                                                                                                                                                                                   | up the phone until the Emerg                                                 |                            | ıp first                |  |
|                       |                                                                                                                                                                                   | ope of your training, adminis                                                |                            |                         |  |
|                       |                                                                                                                                                                                   | 11 to arrange appropriate<br>gency treatment center:                         | neans of transfer of the   | injured party to the    |  |
|                       | Regional                                                                                                                                                                          | Medical Hospital                                                             |                            |                         |  |
|                       |                                                                                                                                                                                   | h Jackson ave                                                                |                            |                         |  |
|                       | San Jose,                                                                                                                                                                         | Ca. 95116                                                                    |                            |                         |  |
|                       | • The supervise that employe                                                                                                                                                      | or of the injured employee m                                                 | ust go to the emergency    | treatment center with   |  |
|                       | • •                                                                                                                                                                               | e.<br>party is an ACT employee,                                              | the Project Manager mu     | st fill out a Report of |  |
|                       | -                                                                                                                                                                                 | 24 hours of the emergence                                                    |                            | •                       |  |
| Non-Life              | • Determine th                                                                                                                                                                    | e extent and nature of the in                                                | jury                       |                         |  |
| Threatening           | <ul> <li>Notify the Property</li> </ul>                                                                                                                                           | oject Lead                                                                   |                            |                         |  |
| Injuries &<br>Illness | Arrange for treatment ce                                                                                                                                                          | the injured employee to be<br>nter:                                          | e accompanied to the ne    | earest Medical Group    |  |
|                       | U.S. Hea                                                                                                                                                                          | th Works                                                                     |                            |                         |  |
|                       | 988 Wals<br>Santa Cla                                                                                                                                                             | h Ave,<br>ra, Ca. 95050                                                      |                            |                         |  |
|                       | • The supervise                                                                                                                                                                   | or of the injured employee m<br>hat employee and accompan                    | _                          |                         |  |
|                       |                                                                                                                                                                                   |                                                                              |                            |                         |  |
|                       | <ul> <li>Receive medical treatment and follow the physician's directions</li> <li>Request a physician's statement (work release) restricting or permitting the injured</li> </ul> |                                                                              |                            |                         |  |
|                       | • •                                                                                                                                                                               | e to return to work. Submit t                                                |                            | • •                     |  |
|                       |                                                                                                                                                                                   | ect Lead must fill out a rep                                                 |                            | -                       |  |
|                       | -                                                                                                                                                                                 | from the ACT website.                                                        |                            |                         |  |
|                       |                                                                                                                                                                                   | <u></u>                                                                      |                            | ·····                   |  |
| Prepared By:          | ical Transport, Inc.                                                                                                                                                              | Issue date:                                                                  | Replaces:<br>April 7, 2015 | Page:                   |  |
| Auvanceu Chem         |                                                                                                                                                                                   | June 4, 2015                                                                 |                            | 9 of 12                 |  |

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# **14** Approval Signatures

| Approved               | Name            | Signature                              | Date    |  |
|------------------------|-----------------|----------------------------------------|---------|--|
|                        | Douglas Cameron |                                        |         |  |
| Author / Originator    |                 |                                        | 8/25/15 |  |
| Operations/GM          |                 | ······································ |         |  |
| High Hazard Specialist |                 |                                        |         |  |
| Compliance             | Krista Harsono  |                                        |         |  |

Compliance

| Prepared By:                      | Issue date:  | Replaces:     | Page:    |
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|                                   |              |               |          |

### Appendix A Employee Acknowledgement

I hereby acknowledge that I have read and understand the Safety Plan and I agree to perform work in accordance with this plan, as well as ACT's site specific programs and policies.

I have had the opportunity to ask questions regarding the overall Safety Plan and understand that compliance with this plan is a condition of my employment.

| Employee Print Name                               | Sigr                        | nature                     | Date              |
|---------------------------------------------------|-----------------------------|----------------------------|-------------------|
| Employee Print Name                               | Sigr                        | nature                     | Date              |
| Employee Print Name                               | Sigr                        | nature                     | Date              |
| Employee Print Name                               | Sigr                        | nature                     | Date              |
| Employee Print Name                               | Sigr                        | nature                     | Date              |
| Employee Print Name                               | Sigr                        | nature                     | Date              |
| Employee Print Name                               | Sigr                        | nature                     | Date              |
| Employee Print Name                               | Sigr                        | nature                     | Date              |
| Employee Print Name                               | Sigr                        | nature                     | Date              |
|                                                   |                             |                            |                   |
|                                                   |                             |                            |                   |
| Prepared By:<br>Advanced Chemical Transport, Inc. | Issue date:<br>June 4, 2015 | Replaces:<br>April 7, 2015 | Page:<br>11 of 12 |

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## Appendix B Map to Medical Facilities

| Prepared By:                      | Issue date:  | Replaces:     | Page:    |
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Appendix C



## Avago Technologies – Trimble Facility Decontamination Plan

Santa Clara County Department of Environmental Health Attn: Socorro Guzman Hazardous Materials Compliance Division 1555 Berger Drive, Suite 300 San Jose, CA 95112-2716

# Closure plan for the Avago Technologies facility, located at 350 Trimble Road, San Jose, CA 95131.

Avago Technologies leases the facility at the above address. Avago Technologies used the two floors and part of the basement at the above mentioned address. Avago Technologies will be turning it over to Lumileds for its use. Cleaning and deconning of the labs and the Acid Waste Neutralization Systems (AWN) will begin upon approval of permits. All lab equipment will deconned by Advanced Chemical Transport (ACT) staff. Fume hoods, floors, ducts, and AWN will be cleaned and deconned by ACT. The Health and Safety Plan (HASP) will be developed by ACT. Only the lab areas identified by Avago Technologies will be cleaned and deconned by ACT. All facility chemicals will be lab-packed by Veolia at another time perscribed by Avago Technologies. All hazardous waste generated by ACT staff will be placed into proper DOT approved container and will be transported off-site by Veolia (at another time) for proper disposal. ACT will sample all labs and the cleaned AWN with pH paper to ensure no trace chemical exposure is left. ACT will take wipe samples for analytical testing by a California State certified laboratory. The Santa Clara County Department of Environmental Health, Hazardous Materials Compliance Division and the San Jose Fire Department, Hazardous Materials Divison will conduct an on-site inspection during the cleaning and deconning as needed. All reports and analytical samples will be sent after they are completed to the respected divisions.

The following is the itemized list of work to be perfomed (also in attachment B):

- A- Enviro Safetech with subcontractor will prepare a Site Specific H&S Plan for this project.
- B- Enviro Safetech will prepare a closure plan to be submitted to any requesting regulatory agencies.
- C- All work to be completed in modified Level D PPE with Tyvek suits, gloves, safety glasses, and steel toe boots.
- D- Flush water with electric pressure washer for 5 minutes from 2nd level drain pipe leading to AWN SYSTEM COLLECTION TANK in basement.
- E- Flush water with electric pressure washer for 5 minutes from 1st level drain pipe
   (3) and from each drain opening (15) and from vent (4) or high point (3) leading to AWN SYSTEM COLLECTION TANK in basement.
- F- Cut out with electric saws and remove stainless steel scrubbed exhaust duct C/W inorganic acids and bases on 1st level approximately (30' of 12" duct and 10' of 4"



duct). Cap duct back to main in interstitial space above T bar. Containerize waste into Cubic Yard Boxes (2).

- G- Cut out with electric saws and remove 12" poly scrubbed exhaust duct back to above T Bar on 2nd level. Cap remaining duct in place. Approximately 10' or less of duct to be removed. Containerize into Cubic Yard Boxes (1).
- H- Enviro Safetech with subcontractor to clean the floor 1st level and on 2nd level over an approximate 20' x 20' square foot area on each level. Enviro Safetech with subcontractor to utilize water and detergent and scrub brushes to clean floor in these areas C/W inorganic acids and bases. All rinse waters and debris to be collected and placed into UN SPEC containers for disposal as a hazardous waste.
- I- Utilize pH paper and Spilfyter test strips to check for pH and fluoride residue on the floor surfaces. The wipe samples will be mapped to a site diagram.
- J- Allow rinse water from pressure washing of lines to collect into tank in basement.
- K- Client to assist in pumping water from tank in basement to AWN TANK at the facilities service room.
- L- Enviro Safetech with subcontractor to Decon the AWN SYSTEM COLLECTION TANK located in the basement by pressure washing the tank interior and then vacuuming out the remaining contents that are unable to be pumped to the AWN TANK on the facilities service room.
- M- All rinse waters unable to be pumped to the facilities service room will be pumped into UN SPEC drums for disposal.
- N- Enviro Safetech and subcontractor will utilize confined space entry equipment during this process but will not physically enter the tank other to break the plane.
- O- Enviro Safetech and subcontractor to sample the final rinse water vacuumed out of the tank for pH, CAM 17 metals, VOC, and SVOC on a 5 working day TAT at a licensed laboratory.
- P- Client to pump down the AWN Tank at the facilities service room and treat as much material in the tank as possible thru the regular AWN.
- Q- Client to allow Enviro Safetech's subcontractor to flush water to the tank from the ACID and BASE Product Supply leg pumps with dedicated lines, which also service other tanks in the same area.
- R- Enviro Safetech and subcontractor to pressure wash the tank interior and vacuum out any remaining contents that cannot be treated into UN SPEC drums.
- S- Enviro Safetech and subcontractor will utilize confined space entry equipment during this process but will not physically enter the tank other to break the plane.
- T- Enviro Safetech and subcontractor to sample the final rinse water vacuumed out of the tank for pH, CAM 17 metals, VOC, and SVOC on a 5 working day TAT at a licensed laboratory.



If you have any questions please feel free to give me a call at my cell listed below.

Prepared and submitted by,

Alf Matyon

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Jeffrey Madigan Environmental Health and Safety Specialist jmadigan@envirosafetech.com

Enclosure

Appendix D




| ID | Task Name                           | Start      | Finish     | Duration |    | Oct 2 | 015 |    |   |   |   |          |   |   |   | No | ov 2015 | 5 |     |      |    |    |    |    |
|----|-------------------------------------|------------|------------|----------|----|-------|-----|----|---|---|---|----------|---|---|---|----|---------|---|-----|------|----|----|----|----|
| īD | Task Ivanie                         | Start      | FINISN     | Duration | 28 | 29    | 30  | 31 | 1 | 2 | 3 | 4        | 5 | 6 | 7 | 8  | 9       | 1 | 0 1 | 1 12 | 13 | 14 | 15 | 16 |
| 1  | County Application amendment filing | 10/28/2015 | 10/28/2015 | 1d       |    |       |     |    |   |   |   |          |   |   |   |    |         |   |     |      |    |    |    |    |
| 2  | Approval of closure plan by county  | 10/28/2015 | 11/3/2015  | 5d       |    |       |     |    |   |   |   | <b>b</b> |   |   |   |    |         |   |     |      |    |    |    |    |
| 3  | Core sampling                       | 11/4/2015  | 11/4/2015  | 1d       |    |       |     |    |   |   | l | +        |   |   |   |    |         |   |     |      |    |    |    |    |
| 4  | Core sample (Wipe- testing)         | 11/5/2015  | 11/6/2015  | 2d       |    |       |     |    |   |   |   |          | [ |   |   |    |         |   |     |      |    |    |    |    |
| 5  | Tanks & Pipe decontamination        | 11/5/2015  | 11/6/2015  | 2d       |    |       |     |    |   |   |   |          |   |   |   |    |         |   |     |      |    |    |    |    |
| 6  | Decontamination sample collection   | 11/5/2015  | 11/6/2015  | 2d       |    |       |     |    |   |   |   |          |   |   |   |    |         |   |     |      |    |    |    |    |
| 7  | Testing decontamination sample      | 11/9/2015  | 11/11/2015 | 3d       |    |       |     |    |   |   |   |          |   |   |   |    |         |   |     |      |    |    |    |    |
| 8  | Lab test submital to the county     | 11/16/2015 | 11/16/2015 | 1d       |    |       |     |    |   | 1 |   |          |   |   |   |    |         |   |     |      |    |    |    |    |
| 9  |                                     |            |            |          |    |       |     |    |   |   |   |          |   |   |   |    |         |   |     |      |    |    |    |    |
| 10 |                                     |            |            |          |    |       |     |    |   |   |   |          |   |   |   |    |         |   | _   |      |    |    |    |    |
| 11 |                                     |            |            |          |    |       |     |    |   |   |   |          |   |   |   |    |         |   |     |      |    |    |    |    |

#### Guzman, Socorro

From: Sent: To: Subject: Guzman, Socorro Tuesday, September 15, 2015 2:40 PM 'mo@envirosafetech.com' Avago 350 W Trible Rd, San Jose

Hello M,

To follow up on our earlier conversation, please clarify the following in the proposed closure report:

- 1. Is the "tank in basement" a treatment tank? (Lift Stehron)
- 2. The wipe sample map noted in section I was not included with the closure plan.
- 3. Is the collected rinsate being treated and is HF being treated as well.
- 4. The wipe samples include pH and Fluoride but the rinse water does not call out Fluoride.
- 5. Feed chemicals? Disposal ?
- 6. An agreement/Understanding from Lumileds that Avago will not be core sampling and future contamination if any will be the responsibility of either Avago or Lumileds.

I would like to be present for the wipe sampling. Lastly, I will forward you the soft copy of the invoice that will also be physically mailed out.

If you have any questions please let me know.

Thanks, Socorro

Socorro Guzman, REHS Hazardous Materials Specialist (408) 918-1946 socorro.guzman@deh.sccgov.org Hazardous Materials Compliance Division with DEH 1555 Berger Drive, Suite 300 San Jose, CA 95112 Please note: I am not in the office on Monday's



#### Avago Technologies - Trimble Facility Decontamination Plan

Santa Clara County Department of Environmental Health Attn: Socorro Guzman Hazardous Materials Compliance Division 1555 Berger Drive, Suite 300 San Jose, CA 95112-2716

## Closure plan for the Avago Technologies facility, located at 350 Trimble Road, San Jose, CA 95131.

Avago Technologies leases the facility at the above address. Avago Technologies used the two floors and part of the basement at the above mentioned address. Avago Technologies will be turning it over to Lumileds for its use. Cleaning and deconning of the labs and the Acid Waste Neutralization Systems (AWN) will begin upon approval of permits. All lab equipment will deconned by Advanced Chemical Transport (ACT) staff. Fume hoods, floors, ducts, and AWN will be cleaned and deconned by ACT. The Health and Safety Plan (HASP) will be developed by ACT. Only the lab areas identified by Avago Technologies will be cleaned and deconned by ACT. All facility chemicals will be lab-packed by Veolia at another time perscribed by Avago Technologies. All hazardous waste generated by ACT staff will be placed into proper DOT approved container and will be transported off-site by Veolia (at another time) for proper disposal. ACT will sample all labs and the cleaned AWN with pH paper to ensure no trace chemical exposure is left. ACT will take wipe samples for analytical testing by a California State certified laboratory. The Santa Clara County Department of Environmental Health, Hazardous Materials Compliance Division and the San Jose Fire Department, Hazardous Materials Divison will conduct an on-site inspection during the cleaning and deconning as needed. All reports and analytical samples will be sent after they are completed to the respected divisions.

The following is the itemized list of work to be perfomed (also in attachment B):

- A- Enviro Safetech with subcontractor will prepare a Site Specific H&S Plan for this project.
- B- Enviro Safetech will prepare a closure plan to be submitted to any requesting regulatory agencies.
- C- All work to be completed in modified Level D PPE with Tyvek suits, gloves, safety glasses, and steel toe boots.
- D- Flush water with electric pressure washer for 5 minutes from 2nd level drain pipe leading to AWN SYSTEM COLLECTION TANK in basement.
- E- Flush water with electric pressure washer for 5 minutes from 1st level drain pipe (3) and from each drain opening (15) and from vent (4) or high point (3) leading to AWN SYSTEM COLLECTION TANK in basement.
- F- Cut out with electric saws and remove stainless steel scrubbed exhaust duct C/W inorganic acids and bases on 1st level approximately (30' of 12" duct and 10' of 4"



duct). Cap duct back to main in interstitial space above T bar. Containerize waste into Cubic Yard Boxes (2).

- G- Cut out with electric saws and remove 12" poly scrubbed exhaust duct back to above T Bar on 2nd level. Cap remaining duct in place. Approximately 10' or less of duct to be removed. Containerize into Cubic Yard Boxes (1).
- Enviro Safetech with subcontractor to clean the floor 1st level and on 2nd level Hover an approximate 20' x 20' square foot area on each level. Enviro Safetech with subcontractor to utilize water and detergent and scrub brushes to clean floor in these areas C/W inorganic acids and bases. All rinse waters and debris to be collected and placed into UN SPEC containers for disposal as a hazardous waste.
- I-Utilize pH paper and Spilfyter test strips to check for pH and fluoride residue on the floor surfaces. The wipe samples will be mapped to a site diagram. Den't receive ward write
- Allow rinse water from pressure washing of lines to collect into tank in basement. I-
- K-Client to assist in pumping water from tank in basement to AWN TANK at the facilities service room.
- Enviro Safetech with subcontractor to Decon the AWN SYSTEM COLLECTION See the Lrequest TANK located in the basement by pressure washing the tank interior and then vacuuming out the remaining contents that are unable to be pumped to the AWN TANK on the facilities service room.
- M- All rinse waters unable to be pumped to the facilities service room will be pumped into UN SPEC drums for disposal. 1000000001
- N-Enviro Safetech and subcontractor will utilize confined space entry equipment during this process but will not physically enter the tank other to break the plane.
- 0-Enviro Safetech and subcontractor to sample the final rinse water vacuumed out of the tank for pH, CAM 17 metals, VOC, and SVOC on a 5 working day TAT at a licensed laboratory.
- P-Client to pump down the AWN Tank at the facilities service room and treat as much material in the tank as possible thru the regular AWN.
- Q-Client to allow Enviro Safetech's subcontractor to flush water to the tank from the ACID and BASE Product Supply leg pumps with dedicated lines, which also service other tanks in the same area.
- R-Enviro Safetech and subcontractor to pressure wash the tank interior and vacuum out any remaining contents that cannot be treated into UN SPEC drums.
- S-Enviro Safetech and subcontractor will utilize confined space entry equipment during this process but will not physically enter the tank other to break the plane.
- T-Enviro Safetech and subcontractor to sample the final rinse water vacuumed out of the tank for pH, CAM 17 metals, VOC, and SVOC on a 5 working day TAT at a licensed laboratory.

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If you have any questions please feel free to give me a call at my cell listed below.

Prepared and submitted by,

Madigan

Jeffrey Madigan Environmental Health and Safety Specialist jmadigan@envirosafetech.com

Enclosure

#### EMALINI MARTINALA - A CONTRACTOR - CONTRACTOR

## **County of Santa Clara**

Department of Environmental Health

1555 Berger Drive, Suite 300 San Jose, California 95112-2716 (408) 918-3400 www.EHinfo.org



April 10, 2012

PHILIP LOPEZ AVAGO TECHNOLOGIES US.INC. 370 WEST TRIMBLE ROAD SAN JOSE CA 95131 EPA I.D.: CAL000337123 Initial Authorization: 10/4/2005 Renewal Date: April 10, 2012

Dear Onsite Treatment Facility:

The County of Santa Clara Hazardous Materials Compliance Division (HMCD) has received and reviewed your facility's PBR Renewal Notification to ensure it is administratively complete. It has not been reviewed for technical adequacy. The technical review will be conducted during a facility inspection by this office. A copy of the Hazardous Waste Tiered Permit Audit Checklist-Permit By Rule can be found on website www.EHinfo.org.

The treatment unit (s) listed below is / are hereby authorized pursuant to Title 22 of the California Code of Regulations (CCR). Your authorization continues until you notify this office that you have stopped treating wastes and have fully closed the unit(s) pursuant to all applicable closure requirements of CCR Title 22 and your closure plan.

Ms. Violeta Mislang with the state Department of Toxic Substances Control (DTSC) can be contacted at (714) 484-5387 for questions concerning the Phase I Environmental Assessment/Corrective Action Program. If you have any questions regarding this letter please contact me at (408) 918-1985 or e-mail: <u>ruben.williams@deh.sccgov.org.</u>

Sincerely,

Pulsen Williams

Ruben Williams, CHMM, REA Senior Hazardous Materials Specialist Hazardous Materials Compliance Division

Units authorized to operate at this location:

#### **UNDER PERMIT BY RULE: NS-2**



| RECEIVED BY:<br>SANTA CLARA COUNTY UNIFIED PROGRAM CO<br>DEPT OF ENV. HEALTH FACILITY INF<br>BUSINESS OWNER/OPER.<br>2012 FEB 27 PM 3: 26                                         | ORMATIO          | N       |                | ON                 |              |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|---------|----------------|--------------------|--------------|
|                                                                                                                                                                                   |                  |         |                | Pa                 | ige of       |
| I. IDENTIF                                                                                                                                                                        |                  |         |                |                    |              |
| FACILITY ID #<br>(Agency Use Only)                                                                                                                                                |                  | INNING  | DATE 100       | ENDING DATE        | 101          |
| BUSINESS NAME (Same as FACILITY NAME or DBA - Doing Business As)                                                                                                                  | 3/1/             | 12      |                | 3/1/13<br>SS PHONE | 402          |
| Avago Technolgies U.S. Inc.                                                                                                                                                       |                  |         | 408-43         |                    | 444          |
| BUSINESS SITE ADDRESS                                                                                                                                                             |                  |         | 408-45.        | 5-7400             | 103          |
| 350 W. Trimble Rd.                                                                                                                                                                |                  |         |                |                    |              |
| СПУ                                                                                                                                                                               | 104              |         | ZIP CODE       |                    | 105          |
| San Jose                                                                                                                                                                          |                  | CA      | 95131          |                    |              |
| DUN & BRADSTREET                                                                                                                                                                  |                  | 106     | SIC CODE (4 di | igit #)            | 107          |
| 60-837-4406                                                                                                                                                                       |                  | -       | 3674           | * 1. C             |              |
| COUNTY                                                                                                                                                                            |                  |         |                |                    | 108          |
| Santa Clara                                                                                                                                                                       |                  | 100     | BURDIEGE ON    | NATON BUOME        | 110          |
| BUSINESS OPERATOR NAME                                                                                                                                                            |                  | 109     |                | ERATOR PHONE       | 110          |
| Avago Technologies U.S. Inc.<br>II. BUSINES                                                                                                                                       | CONVER           |         | 408-435-740    | 0                  |              |
| OWNER NAME                                                                                                                                                                        | SUWNER           | 111     | OWNER PHON     | F                  | 112          |
| Avago Technologies U.S. Inc.                                                                                                                                                      |                  |         | 408-435-740    |                    |              |
| OWNER MAILING ADDRESS                                                                                                                                                             |                  |         | 100 155 7 10   | 0                  | 113          |
| 350 W. Trimble Rd.                                                                                                                                                                |                  |         |                |                    |              |
| CITY                                                                                                                                                                              | 114 ST           | TATE    | 115            | ZIP CODE           | 116          |
| San Jose                                                                                                                                                                          | C                |         |                | 95131              |              |
| III. ENVIRONMEN                                                                                                                                                                   |                  |         |                |                    | _            |
| CONTACT NAME                                                                                                                                                                      | 11.              | 7       | CONTACT PHO    |                    | 118          |
| Philip Lopez<br>CONTACT MAILING ADDRESS                                                                                                                                           |                  | -       | 408-435-405    | 8                  | 119          |
| 350 W. Trimble Rd.                                                                                                                                                                |                  |         |                |                    | 11%          |
| CITY                                                                                                                                                                              | 120 51           | TATE    | 121            | ZIP CODE           | 122          |
| San Jose                                                                                                                                                                          | C                |         | 12.7           | 95131              |              |
| -PRIMARY- IV. EMERGENC                                                                                                                                                            | V CONTAC         | TC      |                | -SECONDARY-        |              |
|                                                                                                                                                                                   | NAME             | 10      |                | -SECONDART-        | 178          |
|                                                                                                                                                                                   | Mitch Cole       |         |                |                    | 128          |
|                                                                                                                                                                                   | TITLE            |         |                |                    | 129          |
|                                                                                                                                                                                   | Environment      | al Engi | neer           |                    |              |
|                                                                                                                                                                                   | BUSINESS PHO     |         |                |                    | 130          |
| 408-435-4058                                                                                                                                                                      | 408-964-256      | 2       |                |                    |              |
|                                                                                                                                                                                   | 24-HOUR PHO      | NE*     |                |                    | 131          |
|                                                                                                                                                                                   | 408-435-595      | 9       |                |                    |              |
|                                                                                                                                                                                   | PAGER #          |         |                |                    | 132          |
| 408-590-5164<br>ADDITIONAL LOCALLY COLLECTED INFORMATION:                                                                                                                         | 408-592-322      | 2       |                |                    |              |
| Property Owner: Avago Technologies                                                                                                                                                |                  |         | DI SI          | 100 105 5 100      | 133          |
| Billing Address: 350 W. Trimble Rd, San Jose Ca 95131                                                                                                                             |                  |         |                | 408-435-7400       |              |
| Certification: Based on my inquiry of those individuals responsible for obtaining the<br>am familiar with the information submitted and believe the information is true, accurate | te, and complete |         |                |                    | examined and |
| SIGNATURE OF DESIGNATED REPRESENTATIVE                                                                                                                                            | DATE             | 134     |                | UMENT PREPARER     | 135          |
| NAME OF SIGNER (print) 136                                                                                                                                                        | 2/7/12           |         | Philip Lope    | ez                 |              |
| NAME OF SIGNER (print) 136<br>Philip Lopez                                                                                                                                        | TITLE OF SIG     |         |                |                    | 137          |
| * See Instructions on next page.                                                                                                                                                  | Facilities N     | lanage  | C              |                    |              |

| RECEIVED BY:<br>SANTA ELARA COUNTY<br>DEPT OF ENV. HEALTH<br>2012 FEB 27 PM 3: 26<br>UNIFIED PROGRAM CONS<br>FACILITY INFOI<br>BUSINESS AC                                                                                                                                                                                                                                                                                                            | RMATION              | ξM                                                                                                                                                   |
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| 2017 LD E:                                                                                                                                                                                                                                                                                                                                                                                                                                            |                      | Page 1 of                                                                                                                                            |
| I. FACILITY IDEN                                                                                                                                                                                                                                                                                                                                                                                                                                      | TIFICATION           |                                                                                                                                                      |
| ACILITY ID #<br>BUSINESS NAME (Same as Facility Name or DBA - Doing Business As)                                                                                                                                                                                                                                                                                                                                                                      |                      | PA ID # (Hazardous Waste Only) 2<br>CAL000337123                                                                                                     |
| Avago Technologies, U.S. Inc.                                                                                                                                                                                                                                                                                                                                                                                                                         |                      |                                                                                                                                                      |
| II. ACTIVITIES DE                                                                                                                                                                                                                                                                                                                                                                                                                                     | CLARATION            |                                                                                                                                                      |
| NOTE: If you check YES to<br>please submit the Business Owner/Operator                                                                                                                                                                                                                                                                                                                                                                                |                      |                                                                                                                                                      |
| Does your facility                                                                                                                                                                                                                                                                                                                                                                                                                                    |                      | ise complete these pages of the UPCF                                                                                                                 |
| A. HAZARDOUS MATERIALS                                                                                                                                                                                                                                                                                                                                                                                                                                |                      |                                                                                                                                                      |
| Iave on site (for any purpose) hazardous materials at or above 55 gallons for iquids, 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? | ⊠ YES □ NO 4         | HAZARDOUS MATERIALS INVENTORY<br>- CHEMICAL DESCRIPTION (OES 2731)                                                                                   |
| 3. UNDERGROUND STORAGE TANKS (USTs)                                                                                                                                                                                                                                                                                                                                                                                                                   | and the state of the | UST FACILITY (Formerly SWRCB Form A)                                                                                                                 |
| . Own or operate underground storage tanks?                                                                                                                                                                                                                                                                                                                                                                                                           | YES NO 5             | the second se                                      |
| t. Intend to upgrade existing or install new USTs?                                                                                                                                                                                                                                                                                                                                                                                                    | TYES NO 6            | UST FACILITY<br>UST TANK (one per tank)<br>UST INSTALLATION - CERTIFICATE OF<br>COMPLIANCE (one page per tank) (Formerly Form C)                     |
| b. Need to report closing a UST?                                                                                                                                                                                                                                                                                                                                                                                                                      | 🗆 YES 🖾 NO 7         | UST TANK (closure portion - one page per tank)                                                                                                       |
| C. ABOVE GROUND PETROLEUM STORAGE TANKS (ASTs)<br>Own or operate ASTs above these thresholds:<br>any tank capacity is greater than 660 gallons, or<br>the total capacity for the facility is greater than 1,320 gallons?                                                                                                                                                                                                                              | □ YES 🖾 NO 8         | NO FORM REQUIRED TO CUPAS                                                                                                                            |
| D. HAZARDOUS WASTE                                                                                                                                                                                                                                                                                                                                                                                                                                    |                      |                                                                                                                                                      |
| . Generate hazardous waste?                                                                                                                                                                                                                                                                                                                                                                                                                           | YES INO 9            | EPA ID NUMBER – provide at the top of this<br>page                                                                                                   |
| <ol> <li>Recycle more than 100 kg/month of excluded or exempted recyclable<br/>materials (per H&amp;SC §25143.2)?</li> </ol>                                                                                                                                                                                                                                                                                                                          |                      |                                                                                                                                                      |
| <ol> <li>Treat hazardous waste on site?</li> </ol>                                                                                                                                                                                                                                                                                                                                                                                                    | YES NO 1             | Forms 1772)<br>ONSITE HAZARDOUS WASTE                                                                                                                |
| I. Treatment subject to financial assurance requirements (for Permit by Rule and Conditional Authorization)?                                                                                                                                                                                                                                                                                                                                          | YES 🗌 NO 12          | TREATMENT – UNIT (one page per unit) (Formeri<br>DTSC Forms 1772 A,B,C,D and L)<br>CERTIFICATION OF FINANCIAL<br>ASSURANCE (Formerly DTSC Form 1232) |
| 5. Consolidate hazardous waste generated at a remote site?                                                                                                                                                                                                                                                                                                                                                                                            | □ YES ⊠ NO 1:        | bills in the forthe foot in territory to machy                                                                                                       |
| 5. Need to report the closure/removal of a tank that was classified as<br>hazardous waste and cleaned onsite?                                                                                                                                                                                                                                                                                                                                         | 🗆 YES 🖾 NO 14        | 4 DTSC Form 1196)<br>HAZARDOUS WASTE TANK CLOSURE<br>CERTIFICATION (Formerly DTSC Form 1249)                                                         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                      |                                                                                                                                                      |

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2012 FEB 27 PM 3: 26

## SELEVITON MEMBERS

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| n nerste Wardstells<br>References                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 347/34 6 4                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
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| (143) - 1800 - 100 - 110 - 110 (170) - 120                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                            | (21212-2-21) division of 10012 and 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| an 1917, Self Restaurant Market States (1917)<br>A SP B M B M S                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | - 74 (S) 24Y 🗍                             | Value ogtor baronnont oprovo (1997)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
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| USA EXELATION CONCERNENCIALES (<br>USA EXELATE VOID - CONCERNENCIALES (<br>COMPLIANCE RECENTATION (CONCERNENCE)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Last primary construction JP(n) 1800                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | L YES BIND                                 | Calific Englished and a substant                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| AND OT CEAR BUILD MAD WE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                            | <ol> <li>ALQYET REALWO FOR EDUCTION REAL STORAGE TANKS (ASTS)</li> <li>O'SH &amp; Operan, AND School here threalloads;</li> <li>O'SH &amp; Operan, AND School here the following;</li> </ol>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
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|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 1 。 07.百 837 题。                            | ora de la Anavia a substante de la Anavia.<br>En la de la desta de la Anavia de                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| pop<br>RECWO ARE EXEMPTING VIEW OF PROVIDENCE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | · · · · · · · · · · · · · · · · · · ·      | eidstande nomena a tiskelete of exemption of examples of the second second second second second second second s                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 1127 W REALEANAL LEADER                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | ) * 07 B 20 D                              | meanais (30 - 1403) - 50 MASTIN<br>Solo instantons variate og 1.427                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
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| ALLAN ARKARALA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                            | •                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| AND MARKED AD ADDA WALLEN DE<br>DES MARKED AD ADDA AD                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | - 11 GX 🗋 - 897 🖸                          | <ul> <li>Fredham subject to fitancial associates requirements (for Pennis by Relation fronticion) Automic Went?</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| MERACE SEARCH STRAND WERE AND A STRAND ST                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | · · · · · · · · · · · · · · · · · · ·      | tale stores a betavaige week wathor of presidents. T                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| ла состана<br>на ССВОС М. СССТАНИ С ВЕРИСТ<br>СОСРЕДАНИИ СОСТАНИЕТИ С<br>СОСРЕДАНИИ СОСТАНИЕТИ С                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 9 - 02 😨 232 🗋                             | (c) Music means the absence converts of a tank that was absorbed as<br>foundations works on dealed solution                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| •<br>• • • • • • • • • • • • • • • • • • •                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | halvelste sammeret                         | 19. martin 1<br>19. martin 19. martin 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |

至1-代合行对的基本目的内容。

523.55001607444

| RECEIVE                                                                                                                                                                                                                                                                                                                         | D BY:UNIFIED PROGR                                                                                                                                                                                                                            | AM CONSOLIDATED FORM                                                                                                |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------|
| SANTA CLAR                                                                                                                                                                                                                                                                                                                      | A COUNTY HAZA                                                                                                                                                                                                                                 | AM CONSOLIDATED FORM<br>RDOUS WASTE                                                                                 |
| UNSITE HAZARDO                                                                                                                                                                                                                                                                                                                  | US WASTE TREA                                                                                                                                                                                                                                 | TMENT NOTIFICATION – FACILITY PAGE                                                                                  |
| 2012 FEB 27                                                                                                                                                                                                                                                                                                                     | 141 3 20                                                                                                                                                                                                                                      | Page of                                                                                                             |
|                                                                                                                                                                                                                                                                                                                                 | I. FACILIT                                                                                                                                                                                                                                    | TY IDENTIFICATION                                                                                                   |
| BUSINESS NAME (Same as FACILITY NAME                                                                                                                                                                                                                                                                                            | or DBA - Doing Business As) 3                                                                                                                                                                                                                 | FACILITY ID#                                                                                                        |
| Avago Technologies U.S. Inc.                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                               | I. STATUS                                                                                                           |
| NOTIFICATION STATUS 600                                                                                                                                                                                                                                                                                                         | PERMIT STATUS (Check all th                                                                                                                                                                                                                   | R COLECCI VIANO                                                                                                     |
| 🔲 a. Amended                                                                                                                                                                                                                                                                                                                    | 🖾 a. Facility Permit                                                                                                                                                                                                                          | d. Variance                                                                                                         |
| 🗖 b. Initial                                                                                                                                                                                                                                                                                                                    | D b. Interim Status                                                                                                                                                                                                                           | e. Consent Agreement                                                                                                |
| 🖾 c. Renewal (PBR Only)                                                                                                                                                                                                                                                                                                         | C. Standardized Permit                                                                                                                                                                                                                        |                                                                                                                     |
|                                                                                                                                                                                                                                                                                                                                 | III. NUMBER                                                                                                                                                                                                                                   | OF UNITS AT FACILITY                                                                                                |
|                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                               | tier. Attach one unit notification page for each unit except CE-CL)                                                 |
| A Conditionally Exempt-5                                                                                                                                                                                                                                                                                                        | Small Quantity Treatment (CESQT                                                                                                                                                                                                               | ) (May not function under any other tier.) 602                                                                      |
| B Conditionally Exempt Sp                                                                                                                                                                                                                                                                                                       | becified Wastestream (CESW)                                                                                                                                                                                                                   |                                                                                                                     |
| C Conditionally Authorized                                                                                                                                                                                                                                                                                                      | I (CA)                                                                                                                                                                                                                                        |                                                                                                                     |
| DI Permit by Rule (PBR)                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                               |                                                                                                                     |
| E Conditionally Exempt – I                                                                                                                                                                                                                                                                                                      | Limited (CEL)                                                                                                                                                                                                                                 |                                                                                                                     |
| F Conditionally Exempt C                                                                                                                                                                                                                                                                                                        | ommercial Laundry (CE-CL) (No                                                                                                                                                                                                                 | unit page is required for laundries.)                                                                               |
| GI TOTAL UNITS (Must ec                                                                                                                                                                                                                                                                                                         | ual the number of unit notification                                                                                                                                                                                                           | pages attached plus the number of CE-CL units.)                                                                     |
|                                                                                                                                                                                                                                                                                                                                 | IV. CERTIFICA                                                                                                                                                                                                                                 | ATION AND SIGNATURE                                                                                                 |
| economically practicable and that I have<br>future threat to human health and the envir<br><u>Tiered Permitting Certification</u> - I certify<br>regulations for the indicated permitting to<br>attachments were prepared under my dire<br>information submitted. Based on my ir<br>information is, to the best of my knowledge | selected the practicable method of<br>ronment.<br>y that the unit or units described<br>ier, including generator and second<br>ction or supervision in accordance<br>iquiry of the person or persons we<br>and belief, true, accurate, and co |                                                                                                                     |
| SIGNATURE OF SWINER OPERATOR                                                                                                                                                                                                                                                                                                    | ties for submitting false informatio                                                                                                                                                                                                          | n, including the possibility of fines and imprisonment for knowing violations. DATE 001                             |
|                                                                                                                                                                                                                                                                                                                                 | _                                                                                                                                                                                                                                             | 2/7/12                                                                                                              |
| NAME OF OWNER/OPERATOR                                                                                                                                                                                                                                                                                                          | 604,                                                                                                                                                                                                                                          | TITLE OF OWNER/OPERATOR 605                                                                                         |
| Philip Lopez                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                               | Facilities Manager                                                                                                  |
| REQUEST FOR SHORTENED REVIEW<br>State Reason for Request:                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                               | □ Yes ⊠ No<br>1ENTS (Check if attached)                                                                             |
| ALL tiers except CE-CL (Laundries) mus                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                               | PBR ONLY                                                                                                            |
| □ 1. One unit specific notification page                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                               | and the second    |
| 2. Plot Plan (or other grid/map)                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                               | 2. Notification of local agency or agencies     3. Notification of property owner, if different from business owner |
| PBR & CA ONLY:                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                               |                                                                                                                     |
| <ul> <li>☑ 1. Closure Financial Assurance (form</li> <li>☐ Self Certified (&lt;\$10,000)</li> </ul>                                                                                                                                                                                                                             | Other mechanism                                                                                                                                                                                                                               |                                                                                                                     |
| 2. Prior Enforcement History, if appli                                                                                                                                                                                                                                                                                          | cable                                                                                                                                                                                                                                         |                                                                                                                     |

|                                                          | EIVED BY:<br>LARA COUNTY UNIFIEI<br>FENV. HEALTH<br>CERTIFICAT                                                                                                                    | HAZARDO                                                            |                                               | ASSUR                                             |                                              | RS                                |                             |
|----------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------|-----------------------------------------------|---------------------------------------------------|----------------------------------------------|-----------------------------------|-----------------------------|
|                                                          |                                                                                                                                                                                   | -                                                                  |                                               | _                                                 | 700                                          |                                   |                             |
| a. Initial Certificati                                   |                                                                                                                                                                                   |                                                                    | c. Annual Certification                       |                                                   |                                              | Page                              | of                          |
| BUSINESS NAME (Same a                                    |                                                                                                                                                                                   | an asterisk in the left man                                        | in next to the amended information            |                                                   |                                              |                                   |                             |
|                                                          |                                                                                                                                                                                   |                                                                    |                                               |                                                   |                                              |                                   | _                           |
| Avago Technologies<br>FACILITY ID#                       |                                                                                                                                                                                   | 1111                                                               | FACILITY EP ID#                               |                                                   | Autoration .                                 |                                   | 2                           |
|                                                          |                                                                                                                                                                                   |                                                                    |                                               | CAL00                                             | 0337123                                      |                                   |                             |
| TYPE OF OPERATION                                        | 🖾 a. PBR-FTU 🔲 b                                                                                                                                                                  |                                                                    | ] c. Other:                                   |                                                   |                                              |                                   | 701                         |
|                                                          | 110                                                                                                                                                                               | CONTRACTOR STREAM                                                  | CLOSURE COST                                  |                                                   |                                              |                                   |                             |
| NOTE: In addition to the                                 | dollar figure below, a written estimat                                                                                                                                            | te of closure costs m                                              | ust be attached when yo                       | n submit this                                     | section of this page,                        |                                   | 702.                        |
|                                                          |                                                                                                                                                                                   |                                                                    | COSTS: \$ 34,820                              |                                                   |                                              |                                   | 104.                        |
|                                                          | III. EXEMPTION FI                                                                                                                                                                 | ROM FINANC                                                         | IAL ASSURANCE                                 | E REQUI                                           | REMENTS                                      |                                   |                             |
| 1 am not required to provid                              | le a mechanism because:                                                                                                                                                           |                                                                    |                                               |                                                   |                                              |                                   |                             |
| a. I certify that my                                     | closure cost estimate is less than or e                                                                                                                                           | equal to \$10,000, or                                              |                                               |                                                   |                                              |                                   | 703                         |
|                                                          |                                                                                                                                                                                   |                                                                    |                                               |                                                   |                                              |                                   | -                           |
| b. Specify other rea                                     | isons:                                                                                                                                                                            |                                                                    |                                               |                                                   |                                              |                                   | 704                         |
|                                                          |                                                                                                                                                                                   |                                                                    |                                               |                                                   |                                              |                                   |                             |
| C. As a PBR owner                                        | or operator, I have not operated mor                                                                                                                                              | e than thirty days in                                              | a calendar year. (Does                        | not apply to (                                    | Conditional Authorizat                       | tion)                             | 705                         |
|                                                          |                                                                                                                                                                                   |                                                                    | ASSURANCE M                                   |                                                   |                                              |                                   |                             |
| I am required to prov                                    | ide a mechanism and it is attached to                                                                                                                                             |                                                                    | 706                                           | 1                                                 | ISM ID NUMBER(S)                             | :                                 | 708                         |
|                                                          | OF CLOSURE ASSURANCE MEC                                                                                                                                                          |                                                                    | 05 707                                        | 3061674                                           |                                              |                                   |                             |
| MECHANISM TYPE                                           | a. Closure Trust Fund                                                                                                                                                             | d. Closure In                                                      |                                               | 1                                                 | g. Multiple Finan                            | cial Mechanist                    | ms 709                      |
| (Check one item only)                                    | b. Surety Bond                                                                                                                                                                    | e. Financial                                                       | test and Corporate Guara                      |                                                   | h. Certificate of I                          |                                   |                             |
|                                                          | Closure Letter of Credit                                                                                                                                                          | C Alternativ                                                       | e Mechanism                                   |                                                   | ⊠ i. Savings Accou                           | int                               |                             |
| FINANCIAL INSTITUTIO                                     | ON, INSURANCE OR SURETY CO                                                                                                                                                        | MPANY/OTHER                                                        | ORGANIZATION                                  |                                                   |                                              |                                   | 710                         |
| Citbank New York                                         |                                                                                                                                                                                   |                                                                    |                                               |                                                   |                                              |                                   |                             |
| ADDRESS 111 Wa                                           | II St                                                                                                                                                                             |                                                                    |                                               |                                                   |                                              |                                   | 711                         |
|                                                          |                                                                                                                                                                                   | 712                                                                | Lucante Francis                               | 713                                               |                                              |                                   | 714                         |
| CITY New Yo                                              | ork                                                                                                                                                                               |                                                                    | STATE NY                                      |                                                   | ZIP CODE 1004                                | 3                                 |                             |
|                                                          | V. OWN                                                                                                                                                                            | ER OR OPER                                                         | ATOR CERTIFIC                                 | ATION                                             |                                              |                                   |                             |
| that qualified personnel j<br>directly responsible for g | FICATION a a. C<br>law that this document and all attack<br>properly gather and evaluate the inf<br>athering the information, the inform<br>ubmitting false information, includin | hments were prepare<br>ormation submitted<br>ation is, to the best | Based on my inquiry<br>of my knowledge and be | r supervision<br>of the person<br>elief, true, ac | n or persons who mar<br>curate and complete. | hage the system<br>I am aware the | m, or those<br>at there are |
| SIGNATURE OF OWNER                                       |                                                                                                                                                                                   |                                                                    | DATE 2/21/12                                  | 2                                                 |                                              | - Strong were Chick               | 716                         |
| NAME OF OWNER/OPE                                        | RATOR (Print)                                                                                                                                                                     | 717                                                                | TITLE OF OWNER/                               | OPERATOR                                          | 0                                            |                                   | 718                         |
| Anthony Maslowski                                        | 1                                                                                                                                                                                 |                                                                    | VP Finance                                    |                                                   |                                              |                                   |                             |

### **County of Santa Clara**

Department of Environmental Health

1555 Berger Drive, Suite 300 San Jose, California 95112-2716 (408) 918-3400 www.EHinfo.org





May 17, 2013

PHILIP LOPEZ AVAGO TECHNOLOGIES US.INC. 370 WEST TRIMBLE ROAD SAN JOSE CA 95131 EPA I.D.: CAL000337123 Initial Authorization: 10/4/2005 Renewal Date: May 17, 2013

Dear Onsite Treatment Facility:

The County of Santa Clara Hazardous Materials Compliance Division (HMCD) has received your your facility's PBR Renewal Notification submitted via the California Environmental Reporting System (CERS). It has not been reviewed for technical adequacy. The technical review will be conducted during a facility inspection by this office. A copy of the Hazardous Waste Tiered Permit Audit Checklist-Permit By Rule can be found on website www.EHinfo.org.

The treatment unit (s) listed below is / are hereby authorized pursuant to Title 22 of the California Code of Regulations (CCR). Your authorization continues until you notify this office that you have stopped treating wastes and have fully closed the unit(s) pursuant to all applicable closure requirements of CCR Title 22 and your closure plan.

Ms. Violeta Mislang with the state Department of Toxic Substances Control (DTSC) can be contacted at (714) 484-5387 for questions concerning the Phase I Environmental Assessment/Corrective Action Program. If you have any questions regarding this letter please contact me at (408) 918-1985 or e-mail: <u>ruben.williams@deh.sccgov.org.</u>

Sincerely,

Ruben D. Williams

Ruben Williams, CHMM, REA Senior Hazardous Materials Specialist Hazardous Materials Compliance Division

Units authorized to operate at this location:

**UNDER PERMIT BY RULE: NS-2** 

### **County of Santa Clara**

Department of Environmental Health

1555 Berger Drive, Suite 300 San Jose, California 95112-2716 (408) 918-3400 www.EHinfo.org



January 14, 2016

PHILIP LOPEZ AVAGO TECHNOLOGIES

CERS ID: 10352107 SITE ADDRESS:

350 W TRIMBLE RD SAN JOSE, CA 95131 350 W TRIMBLE RD SAN JOSE, 95131

## RE: ONSITE HAZARDOUS WASTE TREATMENT PROGRAM - 2016 PBR ANNUAL RENEWAL

Dear Tiered Permit Facility:

This letter is provided by the County of Santa Clara Department of Environmental Health (DEH) to remind and assist you in the annual renewal of information required of facilities treating waste onsite under Permit by Rule (PBR).

By January 1, 2013 all PBR facilities were required to file their Tiered Permitting annual renewal notification electronically in the California Environmental Reporting System (CERS). Thank you for electronically submitting your information. In order to update/re-submit your previously provided information, please review the steps below and ensure that you have completed them **before March 1, 2016**.

Log into CERS. After selecting your facility, press "Start" on the Tiered Permitting bar and choose to start a new submittal based on your last submittal.



Board of Supervisors: Mike Wasserman, Cindy Chavez, Dave Cortese, Ken Yeager, S. Joseph Simitian County Executive: Jeffrey V. Smith

Make (edit) and save adjustments to your estimated closure costs at the "FINANCIAL ASSURANCE CERTIFICATION" link. The inflation factor that should be applied to your 2016 estimate is 1.001.



After updating your closure cost estimate, we recommend that you evaluate the financial mechanism and verify that it is adequate to cover the current closure cost estimate. Facilities that have filed using the Financial Test and Corporate Guarantee mechanism must submit updated information to this Department within ninety days of the close of your firm's fiscal year in order to maintain eligibility. All <u>original</u> financial or bank documents must be submitted to the Department.

After adjusting and saving the estimated closure cost changes, please review all of your other Tiered Permitting Facility information to make sure it reflects any changes required in response to a 2015 inspection, if one occurred.



In an effort to assist facilities with submitting complete CERS submittals please note the following items:

- A copy of your tank and container integrity assessment should be scanned and attached to the submittal. DEH will no longer accept submittals noting "stored at facility"
- Your updated closure cost on the financial assurance certification MUST match the cost shown in your "estimate of closure costs"
- Your closure cost estimate should include the costs for hiring a PE to sign off on your closure, as well as the County closure permit cost of \$2,598.

Once you feel that all of your information and any changes have been reviewed and saved, review and update any facility and HMBP information. If no changes were made to facility information or the HMBP you may update this info using the "Create all HMBP Submittal Elements" button.



Submit all of the information using the "Submit Selected Elements" button. Any information with a check mark next to it will be submitted.

| confirm, Certify, and Submit Your Facility Sub                                                                                   | bmittal                                          | Submit Selected Elements 🐼                      |
|----------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------|-------------------------------------------------|
| ertification Statement: Based on my own knowledge and/or on                                                                      | my inquiry of those individuals responsible for  | or obtaining the info                           |
| CERS Account username mickey.pierce@deh.sccgov.org), certif<br>formation submitted and believe the information is true, accurate | fy on 1/20/2015 under penalty of law that I have | ve personally examined and am familiar with the |

Add Comment To Regulator

Once you have submitted a complete Tiered Permit annual renewal in CERS and supplied any required supporting original documentation, you will have complied with the 2016 annual notification requirements as required by California Code of Regulations, Title 22, Section 67450.3(c). Failing to do so will result in your business being cited for a violation of the Hazardous Waste Control Law. DEH will review all CERS submittals, and if the data submitted is found to be complete, will accept the submittal. The acceptance from CERS will contain your annual authorization to operate for 2016.

If you have any questions regarding your PBR renewal, please contact me at (408) 918-1982 or mickey.pierce@deh.sccgov.org.

Sincerely,

Mickey J Pierce Senior Hazardous Materials Specialist Hazardous Materials Compliance Division

## San Jose Business Activity Document (SJ BAD)

.

| Facility Name: Philips Lumileds Lighting Coupary 1<br>Site Address: 370 W. TRIMBLE Rd. San Jose, C<br>Emerg/Environ Contact: Mitch Cole                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | New $\Box$ Update All $\Box$ Update Highlighted<br>A = 95131<br>Phone: $(40P) = 964 - 2562$<br>Email: |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|
| and the second se | New D Undate All D Undate Highlighted                                                                 |
| Business Code: 🗌 Individual 🔲 Partnership 🖾 Corp/LLC 🔲 Local Ag                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | gency 🗌 Other:                                                                                        |
| Send invoices/permits to mailing address of: 	Facility Owner Bil                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Phone: (108) 964-5300                                                                                 |
| Program Information                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                       |
| □ APSA Fac. Type: □ SPCC Exempt □ <10K gal □ 10-50K gal □ 5<br>□ UST #Tanks:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                       |
| Cal APR                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | PE PR                                                                                                 |
| HW Generator Qty/yr: RCRA LQG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | PE PR                                                                                                 |
| $\square$ HW Treatment Tier: $\square$ PBR $\square$ CA $\square$ CE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | PEPR                                                                                                  |
| HW Recycler Qty/mo:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | PEPR                                                                                                  |
| Paperwork         □ Scan attached HMBP <sup>1</sup> □ Split / merge / rename HMBP in Unprocessed end         □ HMBP already processed and available at <sup>2</sup> :       □ eDocs       □ File       □ Other:         Files:       □ No file currently exists for this facility       □ Existing file(s) attached                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                       |
| <sup>1</sup> Clerical staff responsible for making and mailing ER copy of HMBP.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                       |
| <sup>2</sup> Inspection staff responsible for making ER copy of HMBP and placing it in the appropriate basket for mail                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | ing.                                                                                                  |
| Comments: NEW HOURP Permit.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                       |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                       |
| Prepared by: <u>Ric Gatdul</u> Date:<br>Senior/Manager/Initials: <u>3</u> Date: <u>3/5/12</u> Input                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                       |

#### **County of Santa Clara Department of Environmental Health Hazardous Materials Program** 1555 Berger Drive, Suite 300 San Jose, California 95112-2716 (408)918-3400; Fax (408)280-6479 **www.EHinfo.org/hazmat**



September 09, 2016

LUMILEDS LLC 370 W TRIMBLE RD SAN JOSE, CA 95131

Owner ID: OW0153753 PIN: 538844

## Re: Failure to Electronically Submit a Hazardous Materials Business Plan (HMBP) for LUMILEDS LLC, 370 W TRIMBLE RD BLDG 91, SAN JOSE CA 95131.

Dear Business Owner/Operator,

Our records indicate that you have a Hazardous Materials Business Plan (HMBP) permit with our office because your facility handles hazardous materials above State reporting thresholds. However, your business has not submitted or recertified your facility's HMBP annually, as required by California Health and Safety Code section 25508(a)(1)(A).

Effective January 1, 2013, HMBPs are required to be submitted electronically. You may satisfy this requirement by using our local electronic reporting website, FrontCounter (<u>https://frontcounter.sccgov.org/</u>). Within 30 days, complete your annual submission using FrontCounter.

To request access to FrontCounter, visit the website and click "Sign up now." Complete the form using your Owner ID Number and PIN, provided above. As long as the information is entered correctly, you should receive an e-mail within minutes containing your username and password. Check your spam/junk e-mail folder for automated messages from DEH.HMCD@deh.sccgov.org if you have not received a response within 24 hours.

It is important that you respond to this notice. Failure to electronically submit your HMBP within 30 days may result in penalties of up to \$5000 per violation per day pursuant to California Health and Safety Code sections 25508(b) and 25515(b).

To learn more about Hazardous Materials Business Plan requirements and electronic reporting, visit our website at <u>www.ehinfo.org/hazmat</u>, and select "Hazardous Materials Business Plans" from the Programs and Services menu. If you require assistance, please contact Myra Reichardt by phone at (408) 918-1984, or via e-mail at <u>hmcd.cers@cep.sccgov.org</u>.

Sincerely, Richard Owens Senior Hazardous Materials Specialist

#### UNIFIED PROGRAM CONSOLIDATED FORM FACILITY INFORMATION BUSINESS OWNER/OPERATOR IDENTIFICATION

|                                                                        |        |          |        |       | -     |         |      |       |      | ÷   |      |        |        |            |       |          |          |               |       |                       | Page _      | of      |
|------------------------------------------------------------------------|--------|----------|--------|-------|-------|---------|------|-------|------|-----|------|--------|--------|------------|-------|----------|----------|---------------|-------|-----------------------|-------------|---------|
|                                                                        |        |          |        |       |       |         |      | I     | . 1  | DE  | NT   | IF     | ICAT   | <b>OI</b>  | N     |          |          |               |       |                       |             |         |
| FACILITY ID #                                                          |        |          |        |       | Τ     |         | Т    |       | Т    |     |      | Τ      | 71     |            | BEG   | INNIN    | G DATI   | 3 10          | 00.   | ENDING DATE           |             | 101.    |
| (Agency Use Only)                                                      |        |          |        |       |       |         |      |       |      |     | ļ    |        |        |            | 01/0  | 1/201    | 2        |               |       | 12/31/2012            |             |         |
| BUSINESS NAME (Same as FACII                                           | JTY NA | ME       | or DBA | – Doi | ing l | Busines | s A: | s)    |      |     |      |        | •      |            |       |          | 3.       | BUSI          | NES   | S PHONE               |             | 102.    |
| Philips Lumileds Lighting                                              | Com    | īра      | iny LI | C     |       |         |      |       |      |     |      |        |        |            |       |          |          | (408          | ) 96  | 4-5300                |             |         |
| BUSINESS SITE ADDRESS                                                  |        |          |        |       |       |         |      |       |      |     |      |        |        |            |       |          |          |               |       |                       |             | 103.    |
| 370 West Trimble Road                                                  |        |          |        |       |       |         |      |       |      |     |      |        |        |            |       |          |          |               |       |                       |             |         |
| CITY                                                                   | -      |          |        |       |       |         |      |       |      |     | _    |        |        | 10         | 04.   | ~        | ZIPO     | CODE          |       |                       |             | 105.    |
| San Jose                                                               |        |          |        |       |       |         |      |       |      |     |      |        |        |            | ·     | CA       | 951      | 31            |       |                       |             |         |
| DUN & BRADSTREET                                                       | ···-   |          |        |       |       |         |      |       |      |     |      |        |        |            |       | 106.     | SIC      | CODE (        | 4 dig | it #)                 |             | 107.    |
| 12-499-8217                                                            |        |          |        |       |       |         |      |       |      |     |      |        |        |            |       |          | 3674     | 4             |       |                       |             |         |
| COUNTY                                                                 |        |          |        |       |       |         |      |       |      |     |      |        |        |            |       |          |          |               |       |                       |             | 108.    |
| Santa Clara                                                            |        |          |        |       |       |         |      |       |      |     |      |        |        |            |       |          |          |               |       | ,                     |             |         |
| BUSINESS OPERATOR NAME                                                 |        |          |        |       |       |         |      |       |      |     |      |        |        |            |       | 109.     | BUS      | NESS          | OPEI  | ATOR PHONE            |             | 110.    |
| Philips Lumileds Lighting                                              | Com    | pa       | ny LL  | C     |       |         |      |       |      |     |      |        |        |            |       |          | (408     | ) 964-        | -530  | 0                     |             |         |
|                                                                        |        | <u> </u> |        |       |       |         |      | п.    | B    | BUS | INF  | S      | SON    | NI         | ER    |          |          | <u> </u>      |       |                       |             |         |
| OWNER NAME                                                             |        |          |        |       |       |         | -    | -     |      |     |      |        |        |            |       | 111.     | OWN      | ER PH         | ONE   |                       |             | 112.    |
| Philips Lumileds Lighting                                              | Com    | pa       | ny LL  | .C    |       |         |      |       |      |     |      |        |        |            |       |          | (408     | ) 964-        | 530   | 0                     |             |         |
| OWNER MAILING ADDRESS                                                  |        |          |        |       |       |         |      |       |      |     |      |        |        |            |       |          |          |               |       |                       |             | 113.    |
| 370 West Trimble Road                                                  |        |          |        |       |       |         |      |       |      |     |      |        |        |            |       |          |          |               |       |                       |             |         |
| CITY                                                                   |        |          |        |       |       |         |      |       | _    |     |      | _      | 114    |            | ST.   | ATE      |          | 115:          | T     | ZIP CODE              |             | 116.    |
| San Jose                                                               |        |          |        |       |       |         |      |       |      |     |      |        |        |            | CA    | 1        |          |               |       | 95131                 |             |         |
|                                                                        |        |          |        |       |       | Ш       | . ]  | ENV   | IR   | ON  | M    | CN     | TAL    | CC         | DNT.  | ACT      |          |               |       |                       |             |         |
| CONTACT NAME                                                           |        |          |        |       |       |         |      |       |      |     |      |        |        |            | 117.  |          | CON      | <b>FACT</b> F | OHY   | 1E                    |             | 118.    |
| <sup>·</sup> Mitch Cole                                                |        |          |        |       |       |         |      |       |      |     |      |        |        |            |       |          | 408-     | 964-2         | 562   |                       |             |         |
| CONTACT MAILING ADDRES                                                 | S      |          |        |       |       |         |      |       | _    |     |      |        |        |            |       |          |          |               |       |                       |             | 119.    |
| 370 West Trimble Road                                                  |        |          |        |       |       |         |      |       |      |     |      |        |        |            |       |          |          |               |       |                       |             |         |
| CITY                                                                   |        |          |        |       |       |         |      |       |      |     |      |        | 120    | -          | ST    | ATE      |          | 121.          |       | ZIP CODE              |             | 122.    |
| San Jose                                                               |        |          |        |       |       |         |      |       |      |     |      |        |        |            | CA    | L        |          |               | 9     | 95131                 |             |         |
| -PRIMARY                                                               | _      |          |        |       |       | I       | V    | . EN  | Æ    | RG  | EN   | C      | Y CO   | NT         | AC1   | rs       |          |               |       | -SECONDARY            | ,           |         |
| NAME                                                                   |        |          |        |       |       |         |      |       |      | 12  | 23.  | N      | NAME   |            |       |          |          |               |       |                       |             | 128.    |
| Mitch Cole                                                             |        |          |        |       |       |         |      |       |      |     |      | I      | Dan J  | ano        | wski  |          |          |               |       |                       |             |         |
| TITLE                                                                  |        |          |        |       |       |         |      |       | _    | 12  | 4.   |        | TITLE  |            |       |          |          |               |       |                       |             | 129.    |
| Environmental Engineer                                                 |        |          |        |       |       |         |      |       |      |     |      | l F    | Facili | ies        | Man   | ager     |          |               |       |                       |             |         |
| BUSINESS PHONE                                                         |        | -        |        |       |       |         |      |       |      | 12  | 5.   |        | USIN   |            |       |          |          |               |       |                       |             | 130.    |
| 408-964-2562                                                           |        |          |        |       |       |         |      |       |      |     |      | 4      | 108-9  | 54-2       | 2665  |          |          |               |       |                       |             |         |
| 24-HOUR PHONE*                                                         |        |          |        |       |       |         |      |       |      | 12  | .6.  |        | 4-HO   | _          | _     |          |          |               |       |                       |             | 131.    |
| 408-964-5300                                                           |        |          |        |       |       |         |      |       |      |     |      | 4      | 108-9  | 54-5       | 5300  |          |          |               |       |                       |             |         |
| PAGER #                                                                |        |          |        |       |       |         | _    |       |      | 12  | 7.   | _      | AGER   | _          |       |          |          |               |       |                       |             | 132.    |
| 408-592-3222                                                           |        |          |        |       |       |         |      |       |      |     |      | n      | ı∕a    |            |       |          |          |               |       |                       |             |         |
| ADDITIONAL LOCALLY COLI                                                | LECT   | ED       | INFOR  | MA    |       | ON:     |      |       |      |     |      |        |        |            |       |          |          |               |       |                       | · · · · · · | 133.    |
| Property Owner: Philips                                                |        |          |        |       |       |         | m    | anv I | J.   | С   |      |        |        |            |       |          | Pho      | ne No         | .: 40 | 8-964-5300            |             |         |
|                                                                        |        |          | -      |       | -     |         | -    | •     |      |     | - 04 |        |        |            |       |          |          |               |       |                       |             |         |
| Billing Address: 370 We                                                | st 1r  | m        | DIE RO | bad,  | , S   | an Jo   | DSC  | e, Ca | 1110 | omi | a 93 | 11     | 51     |            |       |          |          |               |       |                       |             |         |
|                                                                        |        |          |        |       |       |         |      |       |      |     |      |        |        |            |       |          |          |               |       |                       |             |         |
|                                                                        | _      |          |        |       |       |         |      |       |      |     |      |        |        |            |       |          |          |               |       |                       |             |         |
| Certification: Based on my inqui<br>am familiar with the information s |        |          |        |       |       |         |      |       |      |     |      |        |        |            |       | rtify ur | nder per | alty of       | law   | that I have personali | y examir    | ned and |
| SIGNATURE OF OWNER OPERATO                                             | ROR    | ĐE       | SIGNA  | ED    | RE    | PRES    | ĒŇ   | TATIV | F    |     |      | 7      | DATI   | <u>n</u> . |       | 134      | NAM      | E OF DO       | CUM   | IENT PREPARER         | <u> </u>    | 135     |
| 11                                                                     |        |          |        |       |       |         |      |       | -    |     |      |        | 10     | 1 et       | 1 20  | 312      | Mit      | ch Co         | le    |                       |             | 1       |
| NAME OF SIGNER (Partin)                                                |        |          |        |       |       | -       | -    |       |      | 1   | 36.  | $\neg$ |        |            | SIGN  |          | 1.1110   |               |       |                       | <u> </u>    | 137.    |
| Jan Bouten                                                             |        |          |        |       |       |         |      |       |      |     |      |        | Chie   | fF         | inano | ial O    | fficer   |               |       |                       |             |         |

Jan Bouten \* See Instructions on next page.

| UNIFIED PROGRAM CON<br>FACILITY INFO<br>BUSINESS AC                                                                                            | RMATION                   | RM                                                                                                 |
|------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|----------------------------------------------------------------------------------------------------|
|                                                                                                                                                |                           | Page 1 of                                                                                          |
| I. FACILITY IDEN                                                                                                                               | TIFICATION                |                                                                                                    |
| FACILITY ID #                                                                                                                                  | l.                        | EPA ID # (Hazardous Waste Only) 2.                                                                 |
| BUSINESS NAME (Same as Facility Name or DBA - Doing Business As)                                                                               |                           | CAR 000 085 081                                                                                    |
| Philips Lumileds Lighting Company                                                                                                              |                           | -                                                                                                  |
| II. ACTIVITIES DE                                                                                                                              | CLARATION                 |                                                                                                    |
| NOTE: If you check YES t                                                                                                                       | o any part of this        | s list,                                                                                            |
| please submit the Business Owner/Operator                                                                                                      | Identification pa         | age (OES Form 2730).                                                                               |
| Does your facility                                                                                                                             | If Yes, ple               | ase 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 | YES INO                   | HAZARDOUS MATERIALS INVENTORY                                                                      |
| quantity for an extremely hazardous substance specified in 40 CFR Part 355,                                                                    |                           | - CHEMICAL DESCRIPTION (OES 2731)                                                                  |
| 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?                                                                              |                           |                                                                                                    |
| B. UNDERGROUND STORAGE TANKS (USTs)<br>1. Own or operate underground storage tanks?                                                            | YES NO                    | UST FACILITY (Formerly SWRCB Form A)<br>UST TANK (one page per tank) (Formerly Form B)             |
| <ol> <li>Intend to upgrade existing or install new USTs?</li> </ol>                                                                            |                           |                                                                                                    |
| 2. Mont to apprate existing of material new objects.                                                                                           |                           | UST TANK (one per tank)                                                                            |
|                                                                                                                                                |                           | UST INSTALLATION - CERTIFICATE OF                                                                  |
| 3. Need to report closing a UST?                                                                                                               | YES NO 7                  | COMPLIANCE (one page per tank) (Formerly Form C)<br>UST TANK (closure portion – one page per tank) |
| C. ABOVE GROUND PETROLEUM STORAGE TANKS (ASTs)                                                                                                 |                           |                                                                                                    |
| Own or operate ASTs above these thresholds:                                                                                                    |                           |                                                                                                    |
| any tank capacity is greater than 660 gallons, or                                                                                              | 🗌 YES 🖾 NO 🛛              | NO FORM REQUIRED TO CUPAS                                                                          |
| the total capacity for the facility is greater than 1,320 gallons?<br>D. HAZARDOUS WASTE                                                       |                           |                                                                                                    |
| <ul> <li><u>D. HAZARDOUS WASTE</u></li> <li>Generate hazardous waste?</li> </ul>                                                               |                           | EPA ID NUMBER – provide at the top of this                                                         |
|                                                                                                                                                | YES 🗌 NO 🤋                | page                                                                                               |
| 2. Recycle more than 100 kg/month of excluded or exempted recyclable materials (per H&SC §25143.2)?                                            |                           | RECYCLABLE MATERIALS REPORT (one                                                                   |
| 3. Treat hazardous waste on site?                                                                                                              | YES 🖾 NO 1                | 0. per recycler)<br>ONSITE HAZARDOUS WASTE                                                         |
|                                                                                                                                                | YES 🗌 NO 1                | 11. TREATMENT – FACILITY (Formerly DTSC<br>Forms 1772)                                             |
|                                                                                                                                                |                           | ONSITE HAZARDOUS WASTE                                                                             |
|                                                                                                                                                |                           | TREATMENT - UNIT (one page per unit) (Formerly<br>DTSC Forms 1772 A.B.C.D and L)                   |
| 4. Treatment subject to financial assurance requirements (for Permit by                                                                        | YES 🗌 NO 1                | CERTIFICATION OF FINANCIAL                                                                         |
| Rule and Conditional Authorization)?                                                                                                           |                           |                                                                                                    |
| 5. Consolidate hazardous waste generated at a remote site?                                                                                     | 🗌 YES 🔯 NO I              | REMOTE WASTE / CONSOLIDATION<br>3. SITE ANNUAL NOTIFICATION (Formerly<br>DTSC Form 1196)           |
| 6. Need to report the closure/removal of a tank that was classified as hazardous waste and cleaned onsite?                                     | 🗆 YES 🛛 NO 1              | HAZARDOLIS WASTE TANK CLOSURE                                                                      |
| E. LOCAL REQUIREMENTS (You may also be required to provide additional int                                                                      | formation by your CUPA or | r local agency.) 15.                                                                               |
|                                                                                                                                                |                           |                                                                                                    |
|                                                                                                                                                |                           |                                                                                                    |
|                                                                                                                                                |                           |                                                                                                    |
|                                                                                                                                                |                           |                                                                                                    |
|                                                                                                                                                |                           |                                                                                                    |

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# Hazardous Materials Inventory Statement For use by Unidocs Member Agencies or where approved by your Local Jurisdiction

| Date: 01/1:                      |          |                                                              |                                             |                      |                          |                         |                     |                                        |                                                         | 0                     | : 1 of 84                |                    |
|----------------------------------|----------|--------------------------------------------------------------|---------------------------------------------|----------------------|--------------------------|-------------------------|---------------------|----------------------------------------|---------------------------------------------------------|-----------------------|--------------------------|--------------------|
| <b>Business</b> Na               | ame: Ph  | ilips Lumileds                                               |                                             |                      | 1                        | MAP IL                  | : Buildin           | g 91 l                                 | Baseme                                                  | nt Faci               | lity ID#:                |                    |
| DOT<br>HAZ CLASS                 | Location | CHEMICAL NAME<br>(COMMON NAME)                               | HAZARDOU                                    | S CO.                | MPON                     | ENTS                    | PHYSICAL<br>STATE   | QUAN                                   | TITIES                                                  | STORAGE<br>CONTAINERS | STORAGE<br>CODES         | SARA<br>CATEGORIES |
| 9: MISC<br>HAZARDOUS<br>MATERIAL | A,5      | Waste dust with<br>Arsenic<br>()<br>CAS#: NONE               | name<br>waste dust with<br>arsenic          | <u>ehs</u><br>N      | <u>%</u><br>100          | <u>cus</u>              | SOLID<br>(MIXTURE)  | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 300 LBS<br>200 LBS<br>300 LBS<br>200 LBS<br>365<br>N/A  | #Error                | pres: AMB<br>temp: AMB   | #Error             |
| B: CORROSIVES                    | C,4      | Acid Neutralization<br>Lift Stations (2)<br>()<br>CAS#: NONE | name<br>water<br>acids, bases,<br>oxidizers | <u>ehs</u><br>N<br>N | <u>%</u><br>98-99<br>0-2 | <u>cas</u>              | LIQUID<br>(MIXTURE) | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 2870 GAL<br>2870 GAL<br>1850 GAL<br>0 GAL<br>365<br>N/A | #Error                | pres: AMB<br>temp: AMB   | #Error             |
| 2.2:<br>NONFLAMMABL<br>E GASES   | D,6      | Argon<br>()<br>CAS#: 7440-37-1                               | name<br>argon                               | <u>ehs</u><br>N      | <u>%</u><br>100          | <u>cas</u><br>7440-37-1 | GAS<br>(PURE)       |                                        |                                                         | #Error                | pres: > AMB<br>temp: AMB | #Error             |
| B: CORROSIVES                    | D,8      | Acid Wastewater<br>Sump<br>(Not in Use)<br>CAS#: NONE        | name<br>acid wastewater<br>sump             | <u>ehs</u><br>N      | <u>%</u><br>100          | <u>cas</u>              | LIQUID<br>(MIXTURE) | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 90 GAL<br>90 GAL<br>90 GAL<br>0 GAL<br>365<br>N/A       | #Error                | pres: AMB<br>temp: AMB   | #Error             |

| Date: 01/1:<br>Business Na                    |                          | lips Lumileds                                                 |                                                     |                 |                   | MAP IL                               | : Buildin           | g 91 l                                 | Basemer                                                      |                       | e: 2 of 84<br>ility ID#:  |                    |
|-----------------------------------------------|--------------------------|---------------------------------------------------------------|-----------------------------------------------------|-----------------|-------------------|--------------------------------------|---------------------|----------------------------------------|--------------------------------------------------------------|-----------------------|---------------------------|--------------------|
| DOT<br>HAZ CLASS                              | Location                 | CHEMICAL NAME<br>(COMMON NAME)                                | HAZARDOU                                            | S COM           | IPON              | ENTS                                 | PHYSICAL<br>STATE   | QUAN                                   | NTITIES                                                      | STORAGE<br>CONTAINERS | STORAGE<br>CODES          | SARA<br>CATEGORIES |
| 8: CORROSIVES                                 | D,8                      | HF ACID /ARSENIC<br>DRAIN SUMP<br>(Not in Use)<br>CAS#: NONE  | <u>name</u><br>hf acid /arsenic<br>drain sump       | ehs<br>N        | <u>%</u><br>100   | <u>cas</u>                           | LIQUID<br>(MIXTURE) | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 96 GAL<br>0 GAL<br>96 GAL<br>0 GAL<br>365<br>N/A             | #Error                | pres: AMB<br>temp: AMB    | #Error             |
| 3: FLAMMABLE<br>AND<br>COMBUSTIBLE<br>LIQUIDS | D,8                      | Solvent Drain Sump<br>(Not In Use)<br>CAS#: NONE              | name<br>solvent drain<br>sump                       | <u>ehs</u><br>N | <u>%</u><br>100   | <u>cas</u>                           | LIQUID<br>(MIXTURE) | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 96 GAL<br>9 GAL<br>96 GAL<br>0 GAL<br>365<br>N/A             | #Error                | pres: AMB<br>temp: AMB    | #Error             |
| 2.2:<br>NONFLAMMABL<br>E GASES                | E,6                      | Nitrogen, Liquid<br>()<br>CAS#: 7727-37-9                     | <u>name</u><br>nitrogen, liquid                     | ehs<br>N        | <u>%</u><br>100   | <u>cas</u><br>7727-37-9              | LIQUID<br>(PURE)    | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 15000 CUFT<br>5000 CUFT<br>5000 CUFT<br>0 CUFT<br>365<br>N/A | #Error                | pres: > AMB<br>temp: CRYO | #Error             |
| 5.1: TOXIC<br>SUBSTANCES                      | H,6                      | Arsenic Slurry lift<br>Station<br>(Slurry Room)<br>CAS#: NONE | name<br>water<br>gallium arsenide<br>cutting slurry | <u>ehs</u><br>N |                   | <u>cas</u><br>7732-18-5<br>1303-00-0 | LIQUID<br>(MIXTURE) | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 100 GAL<br>100 GAL<br>100 GAL<br>0 GAL<br>365<br>N/A         | #Error                | pres: AMB<br>temp: AMB    | #Error             |
| 2.2:<br>NONFLAMMABL<br>E GASES                | III/V Tech<br>Shop (F,7) | Argon 💊<br>()<br>CAS#: 7440-37-1                              | <u>name</u><br>argon                                | ehs<br>N        | <u>%</u><br>100 7 | <u>cas</u><br>7440-37-1              | GAS<br>(PURE)       | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 280 CUFT<br>280 CUFT<br>280 CUFT<br>0 CUFT<br>365<br>N/A     | #Error                | pres: > AMB<br>temp: AMB  | #Error             |

| Date: 01/1:<br>Business No                    |                          | ips Lumileds                                                                              |                                           |                 |                 | MAP ID                  | : Buildin         | g 91 l                                 | Baseme                                                   |                       | e: 3 of 84<br>lity ID#:  |                    |
|-----------------------------------------------|--------------------------|-------------------------------------------------------------------------------------------|-------------------------------------------|-----------------|-----------------|-------------------------|-------------------|----------------------------------------|----------------------------------------------------------|-----------------------|--------------------------|--------------------|
| DOT<br>HAZ CLASS                              | Location                 | CHEMICAL NAME<br>(COMMON NAME)                                                            | HAZARDOU                                  | S COM           | 1PON            | ENTS                    | PHYSICAL<br>STATE | QUAN                                   | TITIES                                                   | STORAGE<br>CONTAINERS | STORAGE<br>CODES         | SARA<br>CATEGORIES |
| NONE                                          | III/V Tech<br>Shop (F,7) | Ethylene Glycol<br>()<br>CAS#: 107-21-1                                                   | name<br>ethylene glycol                   | <u>ehs</u><br>N | <u>%</u><br>100 | <u>cas</u><br>107-21-1  | LIQUID<br>(PURE)  | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 1 GAL<br>1 GAL<br>1 GAL<br>0 GAL<br>365<br>N/A           | #Error                | pres: AMB<br>temp: AMB   | #Error             |
| 2.2:<br>NONFLAMMABL<br>E GASES                | III/V Tech<br>Shop (F,7) | Helium<br>()<br>CAS#: 7440-59-7                                                           | <u>name</u><br>helium                     | <u>ehs</u><br>N | <u>%</u><br>100 | <u>cas</u><br>7440-59-7 | GAS<br>(PURE)     | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 488 CUFT<br>488 CUFT<br>244 CUFT<br>0 CUFT<br>365<br>N/A | #Error                | pres: > AMB<br>temp: AMB | #Error             |
| 3: FLAMMABLE<br>AND<br>COMBUSTIBLE<br>LIQUIDS | III/V Tech<br>Shop (F,7) | Isopropyl Alcohol<br>()<br>CAS#: 67-63-0                                                  | name<br>isopropyl alcohol                 | <u>ehs</u><br>N | <u>%</u><br>100 | <u>cas</u><br>67-63-0   | LIQUID<br>(PURE)  | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 1 GAL<br>1 GAL<br>1 GAL<br>0 GAL<br>365<br>N/A           | #Error                | pres: AMB<br>temp: AMB   | #Error             |
| NONE                                          | III/V Tech<br>Shop (F,7) | MISCELLANEOUS<br>COMBUSTIBLE OILS<br>(MISCELLANEOUS<br>COMBUSTIBLE<br>OILS)<br>CAS#: NONE | name<br>miscellaneous<br>combustible oils | <u>ehs</u><br>N | <u>%</u><br>100 | <u>cas</u>              | LIQUID<br>(PURE)  | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 3 GAL<br>3 GAL<br>1 GAL<br>N/A<br>365<br>N/A             | #Error                | pres: AMB<br>temp: AMB   | NONE               |
| 2.2:<br>NONFLAMMABL<br>E GASES                | III/V Tech<br>Shop (F,7) | Nitrogen<br>()<br>CAS#: 7727-37-9                                                         | <u>name</u><br>nitrogen                   | <u>ehs</u><br>N | <u>%</u><br>100 | <u>cas</u><br>7727-37-9 | GAS<br>(PURE)     | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 324 CUFT<br>324 CUFT<br>244 CUFT<br>0 CUFT<br>365<br>N/A | #Error                | pres: > AMB<br>temp: AMB | #Error             |

| Date: 01/13<br>Business No                    |          | lips Lumileds                            |                                  |                 |                 | MAP ID                  | : Buildin         | g 91 l                                 | Basemer                                                     |                       | e: 4 of 84<br>ility ID#:  |                    |
|-----------------------------------------------|----------|------------------------------------------|----------------------------------|-----------------|-----------------|-------------------------|-------------------|----------------------------------------|-------------------------------------------------------------|-----------------------|---------------------------|--------------------|
| DOT<br>HAZ CLASS                              | Location | CHEMICAL NAME<br>(COMMON NAME)           | HAZARDOU.                        | S COM           | PON             | ENT <mark>S</mark>      | PHYSICAL<br>STATE | QUAN                                   | NTITIES                                                     | STORAGE<br>CONTAINERS | STORAGE<br>CODES          | SARA<br>CATEGORIES |
| 2.2:<br>NONFLAMMABL<br>E GASES                | J,7      | Argon, Liquid<br>()<br>CAS#: 7440-37-1   | <u>name</u><br>argon, liquid     | <u>ehs</u><br>N | <u>%</u><br>100 | <u>cas</u><br>7440-37-1 | GAS<br>(PURE)     | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 9972 CUFT<br>9972 CUFT<br>4986 CUFT<br>0 CUFT<br>365<br>N/A | #Error                | pres: > AMB<br>temp: CRYO | #Error             |
| 2.1:<br>FLAMMABLE<br>GASES                    | L,6      | Acetylene<br>()<br>CAS#: 74-86-2         | name<br>acetylene                | <u>ehs</u><br>N | <u>%</u><br>100 | <u>cas</u><br>74-86-2   | GAS<br>(PURE)     | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 140 CUFT<br>140 CUFT<br>140 CUFT<br>0 CUFT<br>365<br>N/A    | #Error                | pres: > AMB<br>temp: AMB  | #Error             |
| 2.2:<br>NONFLAMMABL<br>E GASES                | L,6      | Argon •<br>()<br>CAS#: 7440-37-1         | <u>name</u><br>argon             | <u>ehs</u><br>N | <u>%</u><br>100 | <u>cas</u><br>7440-37-1 | GAS<br>(PURE)     | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 496 CUFT<br>496 CUFT<br>248 CUFT<br>0 CUFT<br>365<br>N/A    | #Error                | pres: > AMB<br>temp: AMB  | #Error             |
| 3: Flammable<br>and<br>combustible<br>Liquids | L,6      | Isopropyl Alcohol<br>()<br>CAS#: 67-63-0 | <u>name</u><br>isopropyl alcohol | <u>ehs</u><br>N | <u>%</u><br>100 | <u>cas</u><br>67-63-0   | LIQUID<br>(PURE)  | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 2 GAL<br>2 GAL<br>1 GAL<br>0 GAL<br>365<br>N/A              | #Error                | pres: AMB<br>temp: AMB    | #Error             |
| 2.2:<br>NONFLAMMABL<br>E GASES                | L,6      | Oxygen<br>()<br>CAS#: 7782-44-7          | <u>name</u><br>oxygen            | <u>ehs</u><br>N | <u>%</u><br>100 | <u>cas</u><br>7782-44-7 | GAS<br>(PURE)     | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 248 CUFT<br>248 CUFT<br>248 CUFT<br>0 CUFT<br>365<br>N/A    | #Error                | pres: > AMB<br>temp: AMB  | #Error             |

| Date: 01/1<br>Business No                     |           | lips Lumileds                                           |                                                                            |                           |                                  | MAP IL                                                   | : Buildin           | g 91 l                                 | Baseme                                                     |                       | e: 5 of 84<br>lity ID#:  |                    |
|-----------------------------------------------|-----------|---------------------------------------------------------|----------------------------------------------------------------------------|---------------------------|----------------------------------|----------------------------------------------------------|---------------------|----------------------------------------|------------------------------------------------------------|-----------------------|--------------------------|--------------------|
| DOT<br>HAZ CLASS                              | Location  | CHEMICAL NAME<br>(COMMON NAME)                          | HAZARDOU                                                                   | S COM                     | IPON                             | ENTS                                                     | PHYSICAL<br>STATE   | QUAN                                   | TITIES                                                     | STORAGE<br>CONTAINERS | STORAGE<br>CODES         | SARA<br>CATEGORIES |
| 2.1:<br>FLAMMABLE<br>GASES                    | L,6       | Paint, Spray<br>()<br>CAS#: NONE                        | <u>name</u><br>paint, spray                                                | ehs<br>N                  | <u>%</u><br>100                  | <u>cus</u>                                               | LIQUID<br>(MIXTURE) | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 1 GAL<br>1 GAL<br>0.125 GAL<br>0 GAL<br>365<br>N/A         | #Error                | pres: > AMB<br>temp: AMB | #Error             |
| 3: FLAMMABLE<br>AND<br>COMBUSTIBLE<br>LIQUIDS | L,6       | PVC Cement and<br>Primer<br>(Weld-On PVC)<br>CAS#: NONE | tetrahydrofuran<br>methyl ethyl<br>ketone<br>cyclohexanone<br>acetone      | <u>ehs</u><br>N<br>N<br>N | <u>%</u><br>50<br>15<br>18<br>11 | <u>cas</u><br>109-99-9<br>79-93-3<br>108-94-1<br>67-64-1 | LIQUID<br>(MIXTURE) | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 8 GAL<br>8 GAL<br>0.25 GAL<br>0 GAL<br>N/A<br>N/A          | #Error                | pres: AMB<br>temp: AMB   | #Error             |
| NONE                                          | LL Stores | Antifreez<br>()<br>CAS#: NONE                           | name<br>diethylene glycol                                                  | ehs<br>N                  | <u>%</u><br>95                   | <u>cas</u><br>111-46-6                                   | LIQUID<br>(MIXTURE) | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 10 GAL<br>10 GAL<br>1 GAL<br>0 GAL<br>365<br>N/A           | #Error                | pres: AMB<br>temp: AMB   | #Error             |
| NONE                                          | LL Stores | MISCELLANEOUS<br>COMBUSTIBLE OILS<br>()<br>CAS#: NONE   | name<br>miscellaneous<br>combustible oils                                  | <u>ehs</u><br>N           | <u>%</u><br>100                  | <u>cas</u>                                               | LIQUID<br>(PURE)    | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 35 GAL<br>35 GAL<br>5 GAL<br>0 GAL<br>365<br>N/A           | #Error                | pres: AMB<br>temp: AMB   | NONE               |
| 2.1:<br>FLAMMABLE<br>GASES                    | LL Stores | Sprayon Dry Film<br>Mold Release<br>()<br>CAS#: NONE    | name<br>1,1-<br>difluoromethane<br>dimethyl ether<br>heptane<br>2-propanol | ehs<br>N<br>N<br>N<br>N   |                                  | <u>cas</u><br>75-37-6<br>115-10-6<br>142-82-5<br>67-63-0 | LIQUID<br>(MIXTURE) | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 1.125 GAL<br>1.125 GAL<br>0.094 GAL<br>0 GAL<br>365<br>N/A | #Error                | pres: > AMB<br>temp: AMB | #Error             |

| Date: 01/1:<br>Business No                    |                 | ilips Lumileds                            |                                                                     |                 |                  | MAP II                  | : Buildin           | g 91 l                                 | Baseme                                                   |                       | 2: 6 of 84<br>(lity ID#: |                    |
|-----------------------------------------------|-----------------|-------------------------------------------|---------------------------------------------------------------------|-----------------|------------------|-------------------------|---------------------|----------------------------------------|----------------------------------------------------------|-----------------------|--------------------------|--------------------|
| DOT<br>HAZ CLASS                              | Location        | CHEMICAL NAME<br>(COMMON NAME)            | HAZARDOU                                                            | s con           | IPON             | ENTS                    | PHYSICAL<br>STATE   | QUAN                                   | TITIES                                                   | STORAGE<br>CONTAINERS | STORAGE<br>CODES         | SARA<br>CATEGORIES |
| 3: FLAMMABLE<br>AND<br>COMBUSTIBLE<br>LIQUIDS | Machine<br>Shop | Acetone<br>()<br>CAS#: 67-64-1            | name<br>acetone                                                     | <u>ehs</u><br>N | <u>%</u><br>100  | <u>cas</u><br>67-64-1   | LIQUID<br>(PURE)    | AVG<br>LC<br>WST<br>DAYS               | 2 GAL<br>2 GAL<br>1 GAL<br>0 GAL<br>365<br>N/A           | #Error                | pres: AMB<br>temp: AMB   | #Error             |
| 2.1:<br>FLAMMABLE<br>GASES                    | Machine<br>Shop | Acetylene <b>p</b><br>()<br>CAS#: 74-86-2 | name<br>acetylene                                                   | <u>ehs</u><br>N | <u>%</u><br>100  | <u>cas</u><br>74-86-2   | GAS<br>(PURE)       | AVG<br>LC                              | 107 CUFT<br>107 CUFT<br>107 CUFT<br>0 CUFT<br>365<br>N/A | #Error                | pres: > AMB<br>temp: AMB | #Error             |
| 2.2:<br>NONFLAMMABL<br>E GASES                | Machine<br>Shop | Argon<br>()<br>CAS#: 7440-37-1            | <u>name</u><br>argon                                                | <u>ehs</u><br>N | <u>%</u><br>100  | <u>cas</u><br>7440-37-1 | GAS<br>(PURE)       | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 560 CUFT<br>280 CUFT<br>280 CUFT<br>0 CUFT<br>365<br>N/A | #Error                | pres: > AMB<br>temp: AMB | #Error             |
| NONE                                          | Machine<br>Shop | Grotan<br>()<br>CAS#: 4719-04-4           | name<br>hexahydro-1,3,5-<br>tris(2-<br>hydroxyethyl)-s-<br>triazine | <u>ehs</u><br>N | <u>%</u><br>78.5 | <u>cas</u><br>4719-04-4 | LIQUID<br>(MIXTURE) | AVG<br>LC<br>WST                       | 2 GAL<br>2 GAL<br>1 GAL<br>0 GAL<br>365<br>N/A           | #Error                | pres: AMB<br>temp: AMB   | #Error             |

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| Date: 01/1:<br>Business No                    |                   | ips Lumileds                                          |                                                                              |                 | 1                 | MAP ID                               | : Buildin           | g 91 E                                 | Baseme                                                   |                       | ge: 7 of 84<br>cility ID#: |                    |
|-----------------------------------------------|-------------------|-------------------------------------------------------|------------------------------------------------------------------------------|-----------------|-------------------|--------------------------------------|---------------------|----------------------------------------|----------------------------------------------------------|-----------------------|----------------------------|--------------------|
| DOT<br>HAZ CLASS                              | Location          | CHEMICAL NAME<br>(COMMON NAME)                        | HAZARDOUS                                                                    | COM             | PONE              |                                      | PHYSICAL<br>STATE   | QUAN                                   | TITIES                                                   | STORAGE<br>CONTAINERS | STORAGE<br>CODES           | SARA<br>CATEGORIES |
| 3: FLAMMABLE<br>AND<br>COMBUSTIBLE<br>LIQUIDS | Machine<br>Shop   | Isopropyl Alcohol<br>()<br>CAS#: 67-63-0              | <u>name</u><br>isopropyl alcohol                                             | <u>ehs</u><br>N | <u>%</u><br>100   | <u>cas</u><br>67-63-0                | LIQUID<br>(PURE)    | AVG<br>LC                              | 2 GAL<br>2 GAL<br>1 GAL<br>0 GAL<br>365<br>N/A           | #Error                | pres: AMB<br>temp: AMB     | #Error             |
| 3: FLAMMABLE<br>AND<br>COMBUSTIBLE<br>LIQUIDS | Machine<br>Shop   | Kerosene<br>()<br>CAS#: 8008-20-6                     | <u>name</u><br>kerosene                                                      | <u>ehs</u><br>N | <u>%</u><br>100 8 | <u>cas</u><br>3008-20-6              | LIQUID<br>(PURE)    | AVG<br>LC                              | 5 GAL<br>5 GAL<br>5 GAL<br>0 GAL<br>365<br>N/A           | #Error                | pres: AMB<br>temp: AMB     | #Error             |
| NONE                                          | Machine<br>Shop   | MISCELLANEOUS<br>COMBUSTIBLE OILS<br>()<br>CAS#: NONE | name<br>miscellaneous<br>combustible oils                                    | <u>ehs</u><br>N | <u>%</u><br>100   | <u>cas</u>                           | LIQUID<br>(PURE)    | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 80 GAL<br>54 GAL<br>5 GAL<br>0 GAL<br>365<br>N/A         | #Error                | pres: AMB<br>temp: AMB     | NONE               |
| 2.2:<br>NONFLAMMABL<br>E GASES                | Machine 🥌<br>Shop | Oxygen<br>()<br>CAS#: 7782-44-7                       | <u>name</u><br>oxygen                                                        | <u>ehs</u><br>N | <u>%</u><br>100 : | <u>cas</u><br>7782-44-7              | GAS<br>(PURE)       | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 125 CUFT<br>125 CUFT<br>125 CUFT<br>0 CUFT<br>365<br>N/A | #Error                | pres: > AMB<br>temp: AMB   | #Error             |
| NONE                                          | Machine<br>Shop   | S-500 CF<br>()<br>CAS#: NONE                          | name<br>petroleum<br>distillates (heavy)<br>petroleum<br>distillates (light) | ehs<br>N<br>n   |                   | <u>cas</u><br>4742-52-5<br>4742-53-6 | LIQUID<br>(MIXTURE) | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 30 GAL<br>30 GAL<br>5 GAL<br>0 GAL<br>365<br>N/A         | #Error                | pres: AMB<br>temp: AMB     | #Error             |

| Date: 01/1:<br>Business No                    |                                | lips Lumileds                          |                                                                                         |                      |                 | MAP ID                                              | : Buildin           | g 91 i                                 | Baseme                                                     |                       | e: 8 of<br>lity ID# |                    |
|-----------------------------------------------|--------------------------------|----------------------------------------|-----------------------------------------------------------------------------------------|----------------------|-----------------|-----------------------------------------------------|---------------------|----------------------------------------|------------------------------------------------------------|-----------------------|---------------------|--------------------|
| DOT<br>HAZ CLASS                              | Location                       | CHEMICAL NAME<br>(COMMON NAME)         | HAZARDOU                                                                                | S CON                | IPON            | ENTS                                                | PHYSICAL<br>STATE   | QUA                                    | NTITIES                                                    | STORAGE<br>CONTAINERS | STOR<br>COL         | SARA<br>CATEGORIES |
| 3: FLAMMABLE<br>AND<br>COMBUSTIBLE<br>LIQUIDS | Machine<br>Shop                | Waste Oils<br>()<br>CAS#: NONE         | <u>name</u><br>waste oils                                                               | <u>ehs</u><br>N      | <u>%</u><br>100 | <u>cus</u>                                          | LIQUID<br>(MIXTURE) | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 165 GAL<br>110 GAL<br>55 GAL<br>275 GAL<br>365<br>N/A      | #Error                | pres:<br>temp:      | #Error             |
| 3: FLAMMABLE<br>AND<br>COMBUSTIBLE<br>LIQUIDS | Machine<br>Shop                | WD-40 Lubricant<br>()<br>CAS#: NONE    | name<br>aliphatic<br>petroleum<br>distifilates<br>hydrocarbon<br>perrollant base<br>oil | <u>ehs</u><br>N<br>N | 25 (            | <u>cas</u><br>8052-41-3<br>58476-85-7<br>54742-65-0 | LIQUID<br>(PURE)    | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 0.28 GAL<br>0.28 GAL<br>0.093 GAL<br>0 GAL<br>365<br>N/A   | #Error                | pres:<br>temp:      | #Error             |
| 2.2:<br>NONFLAMMABL<br>E GASES                | N,7:<br>vacuum<br>pump<br>room | Argon<br>()<br>CAS#: 7440-37-1         | <u>name</u><br>argon                                                                    | ehs<br>N             | <u>%</u><br>100 | <u>cas</u><br>7440-37-1                             | GAS<br>(PURE)       | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 1088 CUFT<br>1088 CUFT<br>272 CUFT<br>0 CUFT<br>365<br>N/A | #Error                | pres:<br>temp:      | #Error             |
| 2.2:<br>NONFLAMMABL<br>E GASES                | N,7:<br>vacuum<br>pump<br>room | Carbon Dioxide<br>()<br>CAS#: 124-38-9 | name<br>carbon dioxide                                                                  | <u>ehs</u><br>N      | <u>%</u><br>100 | <u>cas</u><br>124-38-9                              | GAS<br>(PURE)       | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 525 CUFT<br>525 CUFT<br>525 CUFT<br>0 CUFT<br>365<br>N/A   | #Error                | pres:               | #Error             |
| 2.2:<br>NONFLAMMABL<br>E GASES                | N,7:<br>vacuum<br>pump<br>room | Helium<br>()<br>CAS#: 7440-59-7        | <u>name</u><br>helium                                                                   | <u>ehs</u><br>N      | <u>%</u><br>100 | <u>cas</u><br>7440-59-7                             | GAS<br>(PURE)       | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 488 CUFT<br>488 CUFT<br>244 CUFT<br>0 CUFT<br>365<br>N/A   | #Error                | pres: :<br>temp: i  | #Error             |

| Date: 01/1:<br>Business No     |                                | ilips Lumileds                                                    |                                   |                      |                     | MAP ID                               | : Buildin         | g 91 l                                 | Basemer                                                    |                       | e: 9 of 84<br>lity ID#:  |                    |
|--------------------------------|--------------------------------|-------------------------------------------------------------------|-----------------------------------|----------------------|---------------------|--------------------------------------|-------------------|----------------------------------------|------------------------------------------------------------|-----------------------|--------------------------|--------------------|
| DOT<br>HAZ CLASS               | Location                       | CHEMICAL NAME<br>(COMMON NAME)                                    | HAZARDO                           | US CON               | IPON                | ENTS                                 | PHYSICAL<br>STATE | QUA                                    | NTITIES                                                    | STORAGE<br>CONTAINERS | STORAGE<br>CODES         | SARA<br>CATEGORIES |
| 2.2:<br>NONFLAMMABL<br>E GASES | N,7:<br>vacuum<br>pump<br>room | <ul> <li>Nitrogen</li> <li>()</li> <li>CAS#: 7727-37-9</li> </ul> | <u>name</u><br>nitrogen           | <u>ehs</u><br>N      | <u>%</u><br>100     | <u>cas</u><br>7727-37-9              | GAS<br>(PURE)     | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 1020 CUFT<br>1020 CUFT<br>255 CUFT<br>0 CUFT<br>365<br>N/A | #Error                | pres: > AMB<br>temp: AMB | #Error             |
| 2.2:<br>NONFLAMMABL<br>E GASES | N,7:<br>vacuum<br>pump<br>room | Nitrous Oxide<br>()<br>CAS#: 10024-97-2                           | <u>name</u><br>nitrous oxide      | <u>ehs</u><br>N      | <u>%</u><br>100     | <u>cas</u><br>10024-97-2             | GAS<br>(PURE)     | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 522 CUFT<br>522 CUFT<br>522 CUFT<br>0 CUFT<br>365<br>N/A   | #Error                | pres: > AMB<br>temp: AMB | #Error             |
| 2.2:<br>NONFLAMMABL<br>E GASES | N,7:<br>vacuum<br>pump<br>room | Oxygen<br>()<br>CAS#: 7782-44-7                                   | <u>name</u><br>oxygen             | <u>ehs</u><br>N      | <u>%</u><br>100     | <u>cas</u><br>7782-44-7              | GAS<br>(PURE)     | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 250 CUFT<br>250 CUFT<br>125 CUFT<br>0 CUFT<br>365<br>N/A   | #Error                | pres: > AMB<br>temp: AMB | #Error             |
| 2.2:<br>NONFLAMMABL<br>E GASES | N,7:<br>vacuum<br>pump<br>room | Silane 1% in Nitrogen<br>()<br>CAS#: NONE                         | <u>name</u><br>silane<br>nitrogen | <u>ehs</u><br>N<br>N | <u>%</u><br>1<br>99 | <u>cus</u><br>7803-62-5<br>7727-37-9 | GAS<br>(MIXTURE)  | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 207 CUFT<br>207 CUFT<br>0 CUFT                             | #Error                | pres: > AMB<br>temp: AMB | #Error             |
| 2.2:<br>NONFLAMMABL<br>E GASES | N,7:<br>vacuum<br>pump<br>room | Sulfur Hexafluoride<br>()<br>CAS#: 2551-62-4                      | name<br>sulfur<br>hexafluoride    | <u>ehs</u><br>N      | <u>%</u><br>100     | <u>cas</u><br>2551-62-4              | GAS<br>(PURE)     | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 261 CUFT<br>261 CUFT<br>261 CUFT<br>0 CUFT<br>365<br>N/A   | #Error                | pres: > AMB<br>temp: AMB | #Error             |

| Date: 01/1:<br>Business No                    |                                | ilips Lumileds                                                                          |                                              |                      |                       | MAP II                   | : Buildin           | g 91 l                                 | Baseme                                                   |                       | e: 10 of 84<br>ility ID#: |                    |
|-----------------------------------------------|--------------------------------|-----------------------------------------------------------------------------------------|----------------------------------------------|----------------------|-----------------------|--------------------------|---------------------|----------------------------------------|----------------------------------------------------------|-----------------------|---------------------------|--------------------|
| DOT<br>HAZ CLASS                              | Location                       | CHEMICAL NAME<br>(COMMON NAME)                                                          | HAZARDOU                                     | S CON                | IPON.                 | ENTS                     | PHYSICAL<br>STATE   | QUAN                                   | NTITIES                                                  | STORAGE<br>CONTAINERS | STORAGE<br>CODES          | SARA<br>CATEGORIES |
| 2.2:<br>NONFLAMMABL<br>E GASES                | N,7:<br>vacuum<br>pump<br>room | Tetrafluoromethane<br>(Halocarbon 14)<br>CAS#: 75-73-0                                  | <u>name</u><br>tetrafluoromethar<br>e        | <u>ehs</u><br>n N    | <u>%</u><br>100       | <u>cas</u><br>75-73-0    | GAS<br>(PURE)       | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 616 CUFT<br>616 CUFT<br>308 CUFT<br>0 CUFT<br>365<br>N/A | #Error                | pres: > AMB<br>temp: AMB  | #Error             |
| 2.2:<br>NONFLAMMABL<br>E GASES                | N,7:<br>vacuum<br>pump<br>room | CAS#: 75-46-7                                                                           | <u>name</u><br>trifluoromethane              | <u>ehs</u><br>N      | <u>%</u><br>100       | <u>cas</u><br>75-46-7    | GAS<br>(PURE)       | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 387 CUFT<br>387 CUFT<br>387 CUFT<br>0 CUFT<br>365<br>N/A | #Error                | pres: > AMB<br>temp: AMB  | #Error             |
| NONE                                          | N,7:<br>vacuum<br>pump<br>room | Waste Fomblin<br>contaminated filters<br>and rags<br>(Perfluoronated oil)<br>CAS#: NONE | <u>name</u><br>rags, filters<br>fomblin oils | <u>ehs</u><br>N<br>N | <u>%</u><br>95<br>5 6 | <u>cas</u><br>59991-67-9 | SOLID<br>(MIXTURE)  | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 50 LBS<br>50 LBS<br>500 LBS<br>0 LBS<br>365<br>N/A       | #Error                | pres: AMB<br>temp: AMB    | NONE               |
| 3: FLAMMABLE<br>AND<br>COMBUSTIBLE<br>LIQUIDS | N,7:<br>vacuum<br>pump<br>room | Waste Oils<br>()<br>CAS#: NONE                                                          | <u>name</u><br>waste oils                    | <u>ehs</u><br>N      | <u>%</u><br>100       | <u>cas</u>               | LIQUID<br>(MIXTURE) | AVG<br>LC<br>WST                       | 10 GAL<br>10 GAL<br>5 GAL<br>0 GAL<br>365<br>N/A         | #Error                | pres: AMB<br>temp: AMB    | #Error             |
| 3: FLAMMABLE<br>AND<br>COMBUSTIBLE<br>LIQUIDS | P.6                            | Acetone<br>()<br>CAS#: 67-64-1                                                          | name<br>acetone                              | <u>ehs</u><br>N      | <u>%</u><br>100       | <u>cas</u><br>67-64-1    | LIQUID<br>(PURE)    | LC<br>WST                              | 2 GAL<br>2 GAL<br>1 GAL<br>0 GAL<br>365<br>N/A           | #Error                | pres: AMB<br>temp: AMB    | #Error             |

| Date: 01/1                                    |          | iling Lungila de                                                |                                                                                                         |                 |                 | MIDID                                              | Duild               |                                        |                                                     | 0                     | e: 11 of 84            |                    |
|-----------------------------------------------|----------|-----------------------------------------------------------------|---------------------------------------------------------------------------------------------------------|-----------------|-----------------|----------------------------------------------------|---------------------|----------------------------------------|-----------------------------------------------------|-----------------------|------------------------|--------------------|
|                                               | ame: Ph  | ilips Lumileds                                                  |                                                                                                         |                 |                 | MAP ID                                             | : Buildin           | g 91 L                                 | 3asemer                                             |                       | ility ID#:             | and a second       |
| DOT<br>HAZ CLASS                              | Location | CHEMICAL NAME<br>(COMMON NAME)                                  | HAZARDOUS                                                                                               | COM             | 1PON            | ENTS                                               | PHYSICAL<br>STATE   | QUAN                                   | TITIES                                              | STORAGE<br>CONTAINERS | STORAGE<br>CODES       | SARA<br>CATEGORIES |
| 3: FLAMMABLE<br>AND<br>COMBUSTIBLE<br>LIQUIDS | P,6      | Isopropyl Alcohol<br>()<br>CAS#: 67-63-0                        | <u>name</u><br>isopropyl alcohol                                                                        | <u>ehs</u><br>N | <u>%</u><br>100 | <u>cas</u><br>67-63-0                              | LIQUID<br>(PURE)    | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 2 GAL<br>2 GAL<br>1 GAL<br>0 GAL<br>365<br>N/A      | #Error                | pres: AMB<br>temp: AMB | #Error             |
| 3: FLAMMABLE<br>AND<br>COMBUSTIBLE<br>LIQUIDS | P,6      | Methanol<br>()<br>CAS#: 67-56-1                                 | <u>name</u><br>methanol                                                                                 | <u>ehs</u><br>N | <u>%</u><br>100 | <u>cas</u><br>67-56-1                              | LIQUID<br>(PURE)    | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 1 GAL<br>1 GAL<br>1 GAL<br>0 GAL<br>365<br>N/A      | #Error                | pres: AMB<br>temp: AMB | #Error             |
| NONE                                          | P,6      | Miscellaneous<br>Silicones<br>()<br>CAS#: NONE                  | name<br>methyltriacetoxys<br>ilane<br>octamethylcyclot<br>etrasiloxane<br>ps340<br>silica fumed         |                 | 5               | <u>cas</u><br>4253-34-3<br>556-67-2<br>70131-67-8  | LIQUID<br>(MIXTURE) | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 5 LBS<br>5 LBS<br>0.2205 LBS<br>0 LBS<br>365<br>N/A | #Error                | pres: AMB<br>temp: AMB | NONE               |
| NONE                                          | P,6      | Proprietary<br>phosphorescence<br>compounds<br>()<br>CAS#: NONE | name<br>proprietary<br>phosphorescenc<br>e compounds                                                    | <u>ehs</u><br>N | <u>%</u><br>100 | <u>cas</u>                                         | SOLID<br>(MIXTURE)  | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR |                                                     | #Error                | pres: AMB<br>temp: AMB | #Error             |
| 3: FLAMMABLE<br>AND<br>COMBUSTIBLE<br>LIQUIDS | P,8      | Stripper Lift Station<br>()<br>CAS#: NONE                       | tame<br>dodecyl benzene<br>sulfonic acid<br>heavy aromatic<br>solcent naptha<br>n-methyl<br>pyrrolidone | <u>ehs</u><br>N |                 | <u>cas</u><br>27176-87-0<br>64742-94-5<br>872-50-4 | LIQUID<br>(MIXTURE) | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 150 GAL<br>50 GAL<br>150 GAL<br>0 GAL<br>365<br>N/A | #Error                | pres: AMB<br>temp: AMB | #Error             |

| Date: 01/1:<br>Business No     |                  | lips Lumileds                                  |                                   |                      |                 | MAP IL                                | : Buildin         | g 91 l                                  | Basemei                                                    |                       | e: 12 of 84<br>lity ID#: |                    |
|--------------------------------|------------------|------------------------------------------------|-----------------------------------|----------------------|-----------------|---------------------------------------|-------------------|-----------------------------------------|------------------------------------------------------------|-----------------------|--------------------------|--------------------|
| DOT<br>HAZ CLASS               | Location         | CHEMICAL NAME<br>(COMMON NAME)                 | HAZARDOU                          | s co                 | MPON            | ENTS                                  | PHYSICAL<br>STATE | QUAN                                    | NTITIES                                                    | STORAGE<br>CONTAINERS | STORAGE<br>CODES         | SARA<br>CATEGORIES |
| 2.2:<br>NONFLAMMABL<br>E GASES | R&D Gas<br>Vault | Breathing Air<br>()<br>CAS#: NONE              | <u>name</u><br>oxygen<br>nitrogen | <u>ehs</u><br>N<br>N |                 | <u>cas</u><br>7782-44-7<br>7727-37-9  | GAS<br>(MIXTURE)  | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR  | 930 CUFT<br>930 CUFT<br>310 CUFT<br>0 CUFT<br>365<br>N/A   | #Error                | pres: > AMB<br>temp: AMB | #Error             |
| 2.2:<br>NONFLAMMABL<br>E GASES | R&D Gas<br>Vault | Nitrogen<br>()<br>CAS#: 7727-37-9              | <u>name</u><br>nitrogen           | <u>ehs</u><br>N      | <u>%</u><br>100 | <u>cas</u><br>7727-37-9               | GAS<br>(PURE)     | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CU/R | 1216 CUFT<br>1216 CUFT<br>304 CUFT<br>0 CUFT<br>365<br>N/A | #Error                | pres: > AMB<br>temp: AMB | #Error             |
| 2.2:<br>NONFLAMMABL<br>E GASES | R&D Gas<br>Vault | Silane 100 ppm in<br>Argon<br>()<br>CAS#: NONE | <u>name</u><br>silane<br>argon    | <u>ehs</u><br>N<br>N |                 | <u>cas</u><br>7803-62-5<br>97640-37-1 | GAS<br>(MIXTURE)  | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR  | 302 CUFT<br>302 CUFT<br>302 CUFT<br>0 CUFT<br>365<br>N/A   | #Error                | pres: > AMB<br>temp: AMB | #Error             |
| 2.2:<br>NONFLAMMABL<br>E GASES | R&D Gas<br>Vault | Trifluoromethane<br>()<br>CAS#: 75-46-7        | <u>name</u><br>trifluoromethane   | <u>ehs</u><br>N      | <u>%</u><br>100 | <u>cas</u><br>75-46-7                 | GAS<br>(PURE)     | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR  | 387 CUFT<br>387 CUFT<br>387 CUFT<br>0 CUFT<br>365<br>N/A   | #Error                | pres: > AMB<br>temp: AMB | #Error             |

| Date: 01/1:<br>Business Na                    |                  | lips Lumileds                                       |                                                                                                            |                      |                      | MAP ID                                             | : Buildin           | g 91 l                                 | Lower                                          |                       | e: 13 of 84<br>lity ID#: |                    |
|-----------------------------------------------|------------------|-----------------------------------------------------|------------------------------------------------------------------------------------------------------------|----------------------|----------------------|----------------------------------------------------|---------------------|----------------------------------------|------------------------------------------------|-----------------------|--------------------------|--------------------|
| DOT<br>HAZ CLASS                              | Location         | CHEMICAL NAME<br>(COMMON NAME)                      | HAZARDOU                                                                                                   | S COM                | PON                  | ENTS                                               | PHYSICAL<br>STATE   | QUAN                                   | TITIES                                         | STORAGE<br>CONTAINERS | STORAGE<br>CODES         | SARA<br>CATEGORIES |
| 8: CORROSIVES                                 | Advanced<br>Labs | Acetic Acid<br>()<br>CAS#: 64-19-7                  | name<br>acetic acid<br>water                                                                               | <u>ehs</u><br>N<br>N | <u>%</u><br>90<br>10 | <u>cas</u><br>64-19-7<br>7732-18-5                 | LIQUID<br>(PURE)    | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 2 GAL<br>2 GAL<br>1 GAL<br>0 GAL<br>365<br>N/A | #Error                | pres: AMB<br>temp: AMB   | #Error             |
| 3: FLAMMABLE<br>AND<br>COMBUSTIBLE<br>LIQUIDS | Advanced<br>Labs | Acetone<br>()<br>CAS#: 67-64-1                      | <u>name</u><br>acetone                                                                                     | <u>ehs</u><br>N      | <u>%</u><br>100      | <u>cus</u><br>67-64-1                              | LIQUID<br>(PURE)    | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 3 GAL<br>3 GAL<br>1 GAL<br>0 GAL<br>365<br>N/A | #Error                | pres: AMB<br>temp: AMB   | #Error             |
| 6.1: TOXIC<br>SUBSTANCES                      | Advanced<br>Labs | Ammonium Fluoride,<br>41%<br>()<br>CAS#: 12125-01-8 | <u>name</u><br>ammonium<br>fluoride<br>water                                                               | <u>ehs</u><br>N<br>N |                      | <u>cas</u><br>12125-01-8<br>7732-18-5              | LIQUID<br>(PURE)    | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 1 GAL<br>1 GAL<br>1 GAL<br>0 GAL<br>365<br>N/A | #Error                | pres: AMB<br>temp: AMB   | #Error             |
| 8: CORROSIVES                                 | Advanced<br>Labs | Ammonium<br>Hydroxide 30%<br>()<br>CAS#: 1336-21-6  | <u>name</u><br>ammonium<br>hydroxide<br>water                                                              | <u>ehs</u><br>N<br>N | <u>%</u><br>30<br>70 | <u>cas</u><br>1336-21-6<br>7732-18-5               | LIQUID<br>(PURE)    | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 2 GAL<br>2 GAL<br>1 GAL<br>0 GAL<br>365<br>N/A | #Error                | pres: AMB<br>temp: AMB   | #Error             |
| 3: FLAMMABLE<br>AND<br>COMBUSTIBLE<br>LIQUIDS | Advanced<br>Labs | Amyl Acetate<br>()<br>CAS#: 628-63-7                | name<br>1-methoxy-2-<br>propanol acetate<br>cresol novolak<br>resin<br>diazonaphtoquin<br>esulfonic esters | N                    |                      | <u>cas</u><br>108-65-6<br>117520-84-(<br>5610-94-6 | LIQUID<br>(MIXTURE) | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 1 GAL<br>1 GAL<br>1 GAL<br>0 GAL<br>365<br>N/A | #Error                | pres: AMB<br>temp: < AMB | #Error             |

| Date: 01/13/2012<br>Business Name: Philips Lumileds |                  |                                                    |                                                                                                            |                           |                     |                                                   | : Buildin           | g 91 i                                 | Lower                                                   | Page: 14 of 84<br>Facility ID#: |                |              |                    |  |
|-----------------------------------------------------|------------------|----------------------------------------------------|------------------------------------------------------------------------------------------------------------|---------------------------|---------------------|---------------------------------------------------|---------------------|----------------------------------------|---------------------------------------------------------|---------------------------------|----------------|--------------|--------------------|--|
| DOT<br>HAZ CLASS                                    | Location         | CHEMICAL NAME<br>(COMMON NAME)                     | HAZARDOU                                                                                                   | S COM                     | PON                 | ENTS                                              | PHYSICAL<br>STATE   | QUAI                                   | TITIES                                                  | STORAGE<br>CONTAINERS           |                | RAGE<br>DES  | SARA<br>CATEGORIES |  |
| NONE                                                | Advanced<br>Labs | AU 660 Plating<br>system<br>()                     | name<br>water<br>sodium gold<br>sulfite                                                                    | <u>ehs</u><br>N<br>N      | 2                   | <u>cas</u><br>7732-18-5                           | LIQUID<br>(MIXTURE) | MAX<br>AVG<br>LC<br>WST<br>DAYS        | 4 GAL<br>4 GAL<br>0.24 GAL<br>N/A<br>365                | #Error                          |                | AMB<br>AMB   | #Error             |  |
| 8: CORROSIVES                                       | Advanced<br>Labs | CAS#: NONE<br>AZ 3:2 developer<br>()<br>CAS#: NONE | sodium sulfite<br>name<br>sodium<br>metasilicate<br>water                                                  | n<br><u>ehs</u><br>N<br>N | <u>%</u><br>1       | 7757-83-7<br><u>cas</u><br>6834-92-0<br>7732-18-5 | LIQUID<br>(MIXTURE) | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 2 GAL<br>2 GAL<br>2 GAL<br>1 GAL<br>0 GAL<br>365<br>N/A | #Error                          |                | AMB<br>AMB   | #Error             |  |
| 8: CORROSIVES                                       | Advanced<br>Labs | AZ 300 MIF<br>Developer<br>()<br>CAS#: NONE        | name<br>tetramethyl<br>ammonium<br>hydroxide<br>water                                                      | <u>ehs</u><br>N           | <u>%</u><br>2<br>98 | <u>cas</u><br>75-59-2<br>7732-18-5                | LIQUID<br>(MIXTURE) | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 4 GAL<br>4 GAL<br>1 GAL<br>0 GAL<br>365<br>N/A          | #Error                          | pres:<br>temp: | AMB<br>AMB   | #Error             |  |
| 8: CORROSIVES                                       | Advanced<br>Labs | AZ 400K Developer<br>()<br>CAS#: NONE              | name<br>potassium<br>hydroxide<br>water                                                                    | <u>ehs</u><br>N<br>N      |                     | <u>cas</u><br>1310-58-3<br>7732-18-5              | LIQUID<br>(MIXTURE) | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 4 GAL<br>4 GAL<br>1 GAL<br>0 GAL<br>365<br>N/A          | #Error                          | pres:<br>temp: | AMB<br>AMB   | NONE               |  |
| 3: FLAMMABLE<br>AND<br>COMBUSTIBLE<br>LIQUIDS       | Advanced<br>Labs | AZ 4620 Photoresist<br>()<br>CAS#: NONE            | name<br>1-methoxy-2-<br>propanol acetate<br>cresol novolak<br>resin<br>diazonaphtoquin<br>esulfonic esters | <u>ehs</u><br>N<br>N<br>N |                     | <u>cas</u><br>108-65-6<br>17520-84-(<br>5610-94-6 | LIQUID<br>(MIXTURE) | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 1 GAL<br>1 GAL<br>1 GAL<br>0 GAL<br>365<br>N/A          | #Error                          | pres:<br>temp: | AMB<br>< AMB | #Error             |  |

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| Date:01/13/2012Business Name:Philips LumiledsMAP ID: |                  |                                                |                                                                                                            |                           |                            |                                                   | : Buildin           | g 91 L                                 | Lower                                                  | Page<br>Faci          |                            |                    |
|------------------------------------------------------|------------------|------------------------------------------------|------------------------------------------------------------------------------------------------------------|---------------------------|----------------------------|---------------------------------------------------|---------------------|----------------------------------------|--------------------------------------------------------|-----------------------|----------------------------|--------------------|
| DOT<br>HAZ CLASS                                     | Location         | CHEMICAL NAME<br>(COMMON NAME)                 | HAZARDOUS                                                                                                  | 5 СОЛ                     | IPON                       | ENTS                                              | PHYSICAL<br>STATE   | QUAN                                   | TITIES                                                 | STORAGE<br>CONTAINERS | STORAGE<br>CODES           | SARA<br>CATEGORIES |
| 3: Flammable<br>and<br>combustible<br>liquids        | Advanced<br>Labs | AZ P4620 Photoresist<br>()<br>CAS#: NONE       | name<br>1-methoxy-2-<br>propanol acetate<br>cresol novolak<br>resin<br>diazonaphtoquin<br>esulfonic esters | <u>ehs</u><br>N<br>N      |                            | <u>cas</u><br>108-65-6<br>17520-84-(<br>5610-94-6 | LIQUID<br>(MIXTURE) | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 1 GAL<br>1 GAL<br>1 GAL<br>0 GAL<br>365<br>N/A         | #Error                | pres: AMB<br>temp: < AMB   | #Error             |
| 3: FLAMMABLE<br>AND<br>COMBUSTIBLE<br>LIQUIDS        | Advanced<br>Labs | AZNLOF 2070<br>Photoresist<br>()<br>CAS#: NONE | name<br>1-methoxy-2-<br>propanol acetate<br>cresol novolak<br>resin<br>diazonaphtoquin<br>esulfonic esters | <u>ehs</u><br>N<br>N<br>N |                            | <u>cas</u><br>108-65-6<br>17520-84-(<br>5610-94-6 | LIQUID<br>(MIXTURE) | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 1 GAL<br>1 GAL<br>1 GAL<br>0 GAL<br>365<br>N/A         | #Error                | pres: AMB<br>temp: < AMB   | #Error             |
| 8: CORROSIVES                                        | Advanced<br>Labs | Bleach<br>()<br>CAS#: 7681-52-9                | name<br>sodium<br>hypochlorite<br>water                                                                    | <u>ehs</u><br>N<br>n      |                            | <u>cas</u><br>7681-52-9<br>7732-18-5              | LIQUID<br>(PURE)    | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 0.75 GAL<br>0.75 GAL<br>0.5 GAL<br>0 GAL<br>365<br>N/A | #Error                | pres: AMB<br>temp: AMB     | #Error             |
| 2.3: TOXIC<br>GASES                                  | Advanced<br>Labs | Boron Trichloride<br>()<br>CAS#: 10294-34-5    | name<br>boron trichloride                                                                                  | <u>ehs</u><br>N           | <u>%</u><br>100            | <u>cas</u><br>10294-34-5                          | GAS<br>(PURE)       | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 82 CUFT<br>82 CUFT<br>82 CUFT<br>0 CUFT<br>365<br>N/A  | #Error                | pres: > AMB<br>temp: > AMB | #Error             |
| 8: CORROSIVES                                        | Advanced<br>Labs | BPR Developer<br>()<br>CAS#: NONE              | name<br>water<br>lactic acid<br>polyglycol                                                                 | <u>ehs</u><br>N<br>N<br>n | <u>%</u><br>25<br>25<br>50 | <u>cas</u><br>7732-18-5<br>50-21-5<br>            | LIQUID<br>(MIXTURE) | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 1 GAL<br>1 GAL<br>1 GAL<br>0 GAL<br>N/A<br>N/A         | #Error                | pres: AMB<br>temp: AMB     | #Error             |

| Date: 01/13/2012<br>Business Name: Philips Lumileds |                  |                                                  |                                                                                                   |                         |                                     |                                      | ): Buildin          | g 91                                   | Lower                                                   | Page: 16 of 84<br>Facility ID#: |                         |   |                    |  |
|-----------------------------------------------------|------------------|--------------------------------------------------|---------------------------------------------------------------------------------------------------|-------------------------|-------------------------------------|--------------------------------------|---------------------|----------------------------------------|---------------------------------------------------------|---------------------------------|-------------------------|---|--------------------|--|
| DOT<br>HAZ CLASS                                    | Location         | CHEMICAL NAME<br>(COMMON NAME)                   | HAZARDOU                                                                                          | S COM                   | PON                                 | ENTS                                 | PHYSICAL<br>STATE   | QUA.                                   | NTITIES                                                 | STORAGE<br>CONTAINERS           | STORAG<br>CODES         | E | SARA<br>CATEGORIES |  |
| NONE                                                | Advanced<br>Labs | BPR Photostripper<br>()<br>CAS#: NONE            | methyl<br>pyrrolidone<br>ethylene glycol<br>heterocyclic<br>amine<br>surfactant                   | ehs<br>N<br>N<br>N<br>N | <u>%</u><br>50<br>35<br>15<br>5     | <u>cas</u><br>872-50-4<br>107-21-1   | LIQUID<br>(MIXTURE) | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 3 GAL<br>1 GAL<br>0 GAL                                 | #Error                          | pres: AME<br>temp: AME  |   | #Error             |  |
| 3: FLAMMABLE<br>AND<br>COMBUSTIBLE<br>LIQUIDS       | Advanced<br>Labs | BPR Thinner<br>()<br>CAS#: NONE                  | name<br>propylene glycol<br>monomethyl<br>ether                                                   | ehs<br>N                | <u>%</u><br><95                     | <u>cas</u><br>107-98-2               | LIQUID<br>(PURE)    | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 1 GAL<br>1 GAL<br>1 GAL<br>0 GAL<br>N/A<br>N/A          | #Error                          | pres: AME<br>temp: AME  |   | #Error             |  |
| 3: FLAMMABLE<br>AND<br>COMBUSTIBLE<br>LIQUIDS       | Advanced<br>Labs | BPR-100 Photoresist<br>()<br>CAS#: NONE          | name<br>propylene glycol<br>monomethyl<br>agnatic copolymer<br>acrylate ester<br>alicyclic ketone |                         | <u>%</u><br><50<br><40<br><25<br><5 | <u>cas</u><br>107-98-2<br>           | LIQUID<br>(MIXTURE) | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 0.25 GAL<br>0.25 GAL<br>0.25 GAL<br>0 GAL<br>N/A<br>N/A | #Error                          | pres: AME<br>temp: AME  |   | #Error             |  |
| 5.1: OXIDIZING<br>SUBSTANCES                        | Advanced<br>Labs | C-35 Gold Etch<br>(Film Gold Etch)<br>CAS#: NONE | name<br>iodine<br>potassium iodide                                                                | <u>ehs</u><br>N<br>N    | <u>%</u><br>100                     | <u>cas</u><br>7553-56-2<br>7681-11-0 | SOLID<br>(MIXTURE)  | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 30 LBS<br>30 LBS<br>0.25 LBS<br>0 LBS<br>365<br>N/A     | #Error                          | pres: AMB<br>temp: AMB  |   | #Error             |  |
| 2.3: TOXIC<br>GASES                                 | Advanced<br>Labs | Chlorine 100%<br>()<br>CAS#: 7782-50-5           | name<br>chlorine 100%                                                                             | <u>ehs</u><br>Y         | <u>%</u><br>100                     | <u>cas</u><br>7782-50-5              | GAS<br>(PURE)       | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 81 CUFT<br>81 CUFT<br>81 CUFT<br>0 CUFT<br>365<br>N/A   | #Error                          | pres: > AM<br>temp: AMB |   | #Error             |  |
| - 28 |  |  |  |
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| ÷    |  |  |  |

| Date: 01/13<br>Business Na                    | 1                | lips Lumileds                                     |                                              |                      |                 | MAP ID                               | : Buildin         | a 91 l                                 | ower                                                  | 0                     | :: 17 of 84<br>lity ID#: |                    |
|-----------------------------------------------|------------------|---------------------------------------------------|----------------------------------------------|----------------------|-----------------|--------------------------------------|-------------------|----------------------------------------|-------------------------------------------------------|-----------------------|--------------------------|--------------------|
| DOT<br>HAZ CLASS                              | Location         | CHEMICAL NAME<br>(COMMON NAME)                    | HAZARDOUS                                    | 5 сом                |                 |                                      | PHYSICAL<br>STATE |                                        | TITIES                                                | STORAGE<br>CONTAINERS | STORAGE<br>CODES         | SARA<br>CATEGORIES |
| 3: FLAMMABLE<br>AND<br>COMBUSTIBLE<br>LIQUIDS | Advanced<br>Labs | Hexamethlydisilazane<br>()<br>CAS#: 999-97-3      | name<br>hexamethlydisilaz<br>ane             | <u>ehs</u><br>N      | <u>%</u><br>100 | <u>cas</u><br>999-97-3               | LIQUID<br>(PURE)  | AVG<br>LC<br>WST                       | 1 GAL<br>1 GAL<br>0.25 GAL<br>0 GAL<br>365<br>N/A     | #Error                | pres: AMB<br>temp: AMB   | #Error             |
| 8: CORROSIVES                                 | Advanced<br>Labs | Hydrochloric acid 38%<br>()<br>CAS#: 7647-01-0    | name<br>hydrochloric acid<br>water           | <u>ehs</u><br>N<br>N |                 | <u>cas</u><br>7647-01-0<br>7732-18-5 | LIQUID<br>(PURE)  | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 1 GAL<br>1 GAL<br>1 GAL<br>0 GAL<br>365<br>N/A        | #Error                | pres: AMB<br>temp: AMB   | #Error             |
| 8: CORROSIVES                                 | Advanced<br>Labs | Hydrofluoric Acid 49%<br>()<br>CAS#: 7664-39-3    | name<br>hydrofluoric acid<br>water           | ehs<br>Y<br>N        |                 | <u>cax</u><br>7664-39-3<br>7732-18-5 | LIQUID<br>(PURE)  | AVG<br>LC<br>WST                       | 1 GAL<br>1 GAL<br>1 GAL<br>0 GAL<br>365<br>N/A        | #Error                | pres: AMB<br>temp: AMB   | #Error             |
| 2.3: TOXIC<br>GASES                           | Advanced<br>Labs | Hydrogen Bromide<br>()<br>CAS#: 10035-10-6        | <u>name</u><br>hydrogen<br>bromide           | <u>ehs</u><br>N      | <u>%</u><br>100 | <u>cas</u><br>10035-10-6             | GAS<br>(PURE)     | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 81 CUFT<br>81 CUFT<br>81 CUFT<br>0 CUFT<br>365<br>N/A | #Error                | pres: > AMB<br>temp: AMB | #Error             |
| 5.1: OXIDIZING<br>SUBSTANCES                  | Advanced<br>Labs | Hydrogen Peroxide<br>30%<br>()<br>CAS#: 7722-84-1 | <u>name</u><br>hydrogen<br>peroxide<br>water | <u>ehs</u><br>N<br>N |                 | <u>cas</u><br>7722-84-1<br>7732-18-5 | LIQUID<br>(PURE)  | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 12 GAL<br>12 GAL<br>1 GAL<br>0 GAL<br>365<br>N/A      | #Error                | pres: AMB<br>temp: AMB   | #Error             |

| Date: 01/13<br>Business Na                    |                  | lips Lumileds                                  |                                                                                         |                         |                     | MAP II                                                       | : Buildin           | g 91 l                                 | Lower                                               |                       | e: 18 of 84<br>lity ID#: |                    |
|-----------------------------------------------|------------------|------------------------------------------------|-----------------------------------------------------------------------------------------|-------------------------|---------------------|--------------------------------------------------------------|---------------------|----------------------------------------|-----------------------------------------------------|-----------------------|--------------------------|--------------------|
| DOT<br>HAZ CLASS                              | Location         | CHEMICAL NAME<br>(COMMON NAME)                 | HAZARDOU                                                                                | S COM                   | IPON                | ENTS                                                         | PHYSICAL<br>STATE   | QUAI                                   | NTITIES                                             | STORAGE<br>CONTAINERS | STORAGE<br>CODES         | SARA<br>CATEGORIES |
| 3: FLAMMABLE<br>AND<br>COMBUSTIBLE<br>LIQUIDS | Advanced<br>Labs | Isopropyl Alcohol<br>()<br>CAS#: 67-63-0       | name<br>isopropyl alcohol                                                               | <u>ehs</u><br>N         | <u>%</u><br>100     | <u>cas</u><br>67-63-0                                        | LIQUID<br>(PURE)    | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 12 GAL<br>12 GAL<br>1 GAL<br>0 GAL<br>365<br>N/A    | #Error                | pres: AMB<br>temp: AMB   | #Error             |
| N/A                                           | Advanced<br>Labs | LA95 Thinner<br>()<br>CAS#: NONE               | name<br>gamma-<br>butyrolactone<br>anisole                                              | <u>ehs</u><br>N<br>N    | <u>%</u><br>95<br>5 | <u>cas</u><br>96-48-0<br>100-66-3                            | LIQUID<br>(MIXTURE) | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 1 GAL<br>1 GAL<br>1 GAL<br>0 GAL<br>365<br>N/A      | #Error                | pres: AMB<br>temp: AMB   | #Error             |
| 3: FLAMMABLE<br>AND<br>COMBUSTIBLE<br>LIQUIDS | Advanced<br>Labs | Methanol<br>()<br>CAS#: 67-56-1                | <u>name</u><br>methanol                                                                 | <u>ehs</u><br>N         | <u>%</u><br>100     | <u>cas</u><br>67-56-1                                        | LIQUID<br>(PURE)    | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 6 GAL<br>6 GAL<br>1 GAL<br>0 GAL<br>365<br>N/A      | #Error                | pres: AMB<br>temp: AMB   | #Error             |
| NONE                                          | Advanced<br>Labs | Miscellaneous<br>Silicones<br>()<br>CAS#: NONE | methyltriacetoxys<br>ilane<br>octamethylcyclot<br>etrasiloxane<br>ps340<br>silica fumed |                         | 5                   | <u>cas</u><br>4253-34-3<br>556-67-2<br>70131-67-8            | LIQUID<br>(MIXTURE) | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 2 LBS<br>2 LBS<br>0.2205 LBS<br>0 LBS<br>365<br>N/A | #Error                | pres: AMB<br>temp: AMB   | NONE               |
| 8: CORROSIVES                                 | Advanced<br>Labs | Nickel Vanadium Etch<br>()<br>CAS#: NONE       | name<br>nitric acid<br>sulfuric acid<br>acetic acid<br>water                            | ehs<br>N<br>N<br>N<br>N | 17<br>17            | <u>cas</u><br>7697-37-2<br>7664-93-9<br>64-19-7<br>7732-18-5 | LIQUID<br>(MIXTURE) | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 2 GAL<br>2 GAL<br>1 GAL<br>0 GAL<br>365<br>N/A      | #Error                | pres: AMB<br>temp: AMB   | #Error             |

| Date: 01/13<br>Business Na                    |                  | lips Lumileds                                |                                                                                                         |                         |                      | MAP ID                                                        | : Buildin           | g 91 l                                 | ower                                                     | 0                     | e: 19 of 84<br>lity ID#: |                    |
|-----------------------------------------------|------------------|----------------------------------------------|---------------------------------------------------------------------------------------------------------|-------------------------|----------------------|---------------------------------------------------------------|---------------------|----------------------------------------|----------------------------------------------------------|-----------------------|--------------------------|--------------------|
| DOT<br>HAZ CLASS                              | Location         | CHEMICAL NAME<br>(COMMON NAME)               | HAZARDOUS                                                                                               | сом                     | PON                  | ENTS                                                          | PHYSICAL<br>STATE   | QUAN                                   | TITIES                                                   | STORAGE<br>CONTAINERS | STORAGE<br>CODES         | SARA<br>CATEGORIES |
| 8: CORROSIVES                                 | Advanced<br>Labs | Nitric Acid 70%<br>()<br>CAS#: 7697-37-2     | name<br>nitric acid<br>water                                                                            | <u>ehs</u><br>Y<br>N    |                      | <u>cas</u><br>7697-37-2<br>7732-18-5                          | LIQUID<br>(PURE)    | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 1 GAL<br>1 GAL<br>0.58 GAL<br>0 GAL<br>365<br>N/A        | #Error                | pres: AMB<br>temp: AMB   | #Error             |
| 2.2:<br>NONFLAMMABL<br>E GASES                | Advanced<br>Labs | Nitrogen Helium Mix<br>()<br>CAS#: NONE      | <u>name</u><br>nitrogen<br>helium                                                                       | <u>ehs</u><br>N<br>N    |                      | <u>cas</u><br>7727-37-9<br>7440-59-7                          | GAS<br>(MIXTURE)    | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 633 CUFT<br>211 CUFT<br>304 CUFT<br>0 CUFT<br>365<br>N/A | #Error                | pres: > AMB<br>temp: AMB | #Error             |
| 9: MISC<br>HAZARDOUS<br>MATERIAL              | Advanced<br>Labs | n-Methyl Pyrrolidone<br>()<br>CAS#: 872-50-4 | <u>name</u><br>n-methyl<br>pyrrolidone                                                                  | <u>ehs</u><br>N         | <u>%</u><br>NA       | <u>cas</u><br>872-50-4                                        | LIQUID<br>(PURE)    | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 4 GAL<br>4 GAL<br>1 GAL<br>0 GAL<br>365<br>N/A           | #Error                | pres: AMB<br>temp: AMB   | #Error             |
| 8: CORROSIVES                                 | Advanced<br>Labs | Nophenol EKC 922<br>()<br>CAS#: NONE         | name<br>dodecyl benzene<br>sulfonic acid<br>heavy aromatic<br>solvent naptha<br>catechol<br>naphthalene | ehs<br>N<br>N<br>N<br>N | NA                   | <u>cas</u><br>27176-87-0<br>64742-94-5<br>120-80-9<br>91-20-3 | LIQUID<br>(MIXTURE) | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 18 GAL<br>18 GAL<br>1 GAL<br>0 GAL<br>365<br>N/A         | #Error                | pres: AMB<br>temp: AMB   | #Error             |
| 3: Flammable<br>and<br>combustible<br>liquids | Advanced<br>Labs | NR7 6000P<br>()<br>CAS#: NONE                | name<br>cyclohexanone<br>resins<br>sensitizers                                                          | ehs<br>N                | 26<br>NA<br>NA<br>NA | <u>cas</u><br>108-94-1                                        | LIQUID<br>(MIXTURE) | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 4 GAL<br>4 GAL<br>2 GAL<br>0 GAL<br>365<br>N/A           | #Error                | pres: AMB<br>temp: AMB   | #Error             |

| Date: 01/13<br>Business Na                    |                  | lips Lumileds                                           |                                                                                       |                      | MAP II                                        | D: Buildin          | g 91 l                                 | Lower                                            |                       | 2: 20 of 84<br>2: 20 of 84<br>2: 20 of 84 |                    |
|-----------------------------------------------|------------------|---------------------------------------------------------|---------------------------------------------------------------------------------------|----------------------|-----------------------------------------------|---------------------|----------------------------------------|--------------------------------------------------|-----------------------|-------------------------------------------|--------------------|
| DOT<br>HAZ CLASS                              | Location         | CHEMICAL NAME<br>(COMMON NAME)                          | HAZARDOU                                                                              | S COMP               | ONENTS                                        | PHYSICAL<br>STATE   | QUAN                                   | NTITIES                                          | STORAGE<br>CONTAINERS | STORAGE<br>CODES                          | SARA<br>CATEGORIES |
| 3: FLAMMABLE<br>AND<br>COMBUSTIBLE<br>LIQUIDS | Advanced<br>Labs | NR9 3000PY<br>()<br>CAS#: NONE                          | name<br>cyclohexanone<br>resins<br>sensitizers                                        | N N                  | <u>6 cas</u><br>A 108-94-1<br>A<br>A          | LIQUID<br>(MIXTURE) | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR |                                                  | #Error                | pres: AMB<br>temp: AMB                    | #Error             |
| 3: FLAMMABLE<br>AND<br>COMBUSTIBLE<br>LIQUIDS | Advanced<br>Labs | OK73 Thinner<br>()<br>CAS#: NONE                        | name<br>propylene glycol<br>monomethyl<br>ether glycol<br>monomethyl<br>ether acetate | N 7                  | <u>cas</u><br>0 107-98-2<br>0 108-65-6        | LIQUID<br>(MIXTURE) | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 1 GAL<br>1 GAL<br>1 GAL<br>0 GAL<br>N/A<br>N/A   | #Error                | pres: AMB<br>temp: AMB                    | #Error             |
| 8: CORROSIVES                                 | Advanced<br>Labs | Phosphoric Acid, 80%<br>()<br>CAS#: 7664-38-2           | name<br>phosphoric acid<br>water                                                      | N 8                  | <u>6 cas</u><br>0 7664-38-2<br>0 7732-18-5    | LIQUID<br>(PURE)    | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 2 GAL<br>2 GAL<br>1 GAL<br>0 GAL<br>365<br>N/A   | #Error                | pres: AMB<br>temp: AMB                    | #Error             |
| 8: CORROSIVES                                 | Advanced<br>Labs | PMER Developer P-<br>7G<br>()<br>CAS#: NONE             | name<br>water<br>tetramethylammo<br>nium hydroxide<br>anionic surfactant              | N :                  | <u>6 cas</u><br>5 7732-18-5<br>3 75-59-2<br>2 | LIQUID<br>(MIXTURE) | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 9 GAL<br>9 GAL<br>2 GAL<br>0 GAL<br>N/A<br>N/A   | #Error                | pres: AMB<br>temp: AMB                    | #Error             |
| 8: CORROSIVES                                 | Advanced<br>Labs | Potassium Hydroxide<br>Pellets<br>()<br>CAS#: 1310-58-3 | name<br>potassium<br>hydroxide pellets                                                | <u>ehs 2</u><br>N 10 | <u>é cas</u><br>00 1310-58-3                  | SOLID<br>(PURE)     | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 15 LBS<br>15 LBS<br>5 LBS<br>0 LBS<br>365<br>N/A | #Error                | pres: AMB<br>temp: AMB                    | #Error             |

| Date: 01/13<br>Business Na       |                  | lips Lumileds                                                 |                                                                                                                |                      | - 4           | MAP ID                                        | : Buildin           | g 91 l                                 | ower                                                  | -                     | 2: 21 of 84<br>21 lity ID#: |                    |
|----------------------------------|------------------|---------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|----------------------|---------------|-----------------------------------------------|---------------------|----------------------------------------|-------------------------------------------------------|-----------------------|-----------------------------|--------------------|
| DOT<br>HAZ CLASS                 | Location         | CHEMICAL NAME<br>(COMMON NAME)                                | HAZARDOUS                                                                                                      | S CON                | IPON          | ENTS                                          | PHYSICAL<br>STATE   | QUAN                                   | TITIES                                                | STORAGE<br>CONTAINERS | STORAGE<br>CODES            | SARA<br>CATEGORIES |
| 8: CORROSIVES                    | Advanced<br>Labs | Potassium Hydroxide<br>Solution 1.0N<br>()<br>CAS#: 1310-58-3 | name<br>potassium<br>hydroxide<br>water                                                                        | <u>ehs</u><br>N<br>N |               | <u>cars</u><br>1310-58-3<br>7732-18-5         | LIQUID<br>(PURE)    | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 1 GAL<br>1 GAL<br>1 GAL<br>0 GAL<br>365<br>N/A        | #Error                | pres: AMB<br>temp: AMB      | #Error             |
| NONE                             | Advanced<br>Labs | PRS 3000<br>()<br>CAS#: NONE                                  | name<br>1-methyl-2-<br>pyrrolidinone<br>thiophene,<br>tetrahydro-, 1,1-<br>dioxide<br>monoisopropanol<br>amine | <u>ehs</u><br>N<br>N |               | <u>cus</u><br>872-50-4<br>126-33-0<br>78-96-6 | LIQUID<br>(MIXTURE) | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 1 GAL<br>1 GAL<br>1 GAL<br>0 GAL<br>365<br>N/A        | #Error                | pres: AMB<br>temp: AMB      | #Error             |
| 9: MISC<br>HAZARDOUS<br>MATERIAL | Advanced<br>Labs | Resist Developer RD6<br>()<br>CAS#: NONE                      | name<br>tetramethylammo<br>nium hydroxide<br>water                                                             | ehs<br>N<br>N        | 26<br>3<br>97 | <u>cas</u><br>75-59-2<br>7732-18-5            | LIQUID<br>(MIXTURE) | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 3 GAL<br>3 GAL<br>1 GAL<br>0 GAL<br>365<br>N/A        | #Error                | pres: AMB<br>temp: AMB      | #Error             |
| NONE                             | Advanced<br>Labs | RR4<br>()<br>CAS#: NONE                                       | <u>name</u><br>dimethyl<br>sulfoxide                                                                           | <u>ehs</u><br>N      | <u>%</u>      | <u>cas</u><br>- 67-68-5                       | LIQUID<br>(MIXTURE) | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 1 GAL<br>1 GAL<br>1 GAL<br>0 GAL<br>365<br>N/A        | #Error                | pres: AMB<br>temp: AMB      | #Error             |
| NONE                             | Advanced<br>Labs | RR41<br>()<br>CAS#: NONE                                      | <u>name</u><br>dimethyl<br>sulfoxide                                                                           | <u>ehs</u><br>N      | <u>%</u>      | <u>cas</u><br>- 67-68-5                       | LIQUID<br>(MIXTURE) | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 0.5 GAL<br>0.5 GAL<br>0.25 GAL<br>0 GAL<br>365<br>N/A | #Error                | pres: AMB<br>temp: AMB      | #Error             |

| Date: 01/1:<br>Business Na                    |                  | lips Lumileds                                     |                                                             |                      |                      | MAP ID                               | : Buildin           | g 91 i                                 | Lower                                                   |                       | e: 22 o<br>lity ID |              |                    |
|-----------------------------------------------|------------------|---------------------------------------------------|-------------------------------------------------------------|----------------------|----------------------|--------------------------------------|---------------------|----------------------------------------|---------------------------------------------------------|-----------------------|--------------------|--------------|--------------------|
| DOT<br>HAZ CLASS                              | Location         | CHEMICAL NAME<br>(COMMON NAME)                    | HAZARDOU                                                    | S COM                | PON                  | ENTS                                 | PHYSICAL<br>STATE   | QUAI                                   | NTITIES                                                 | STORAGE<br>CONTAINERS |                    | RAGE<br>DES  | SARA<br>CATEGORIES |
| 8: CORROSIVES                                 | Advanced<br>Labs | Silicon Tetrachloride<br>()<br>CAS#: 10026-04-7   | <u>name</u><br>silicon<br>tetrachloride                     | <u>ehs</u><br>N      | <u>%</u><br>100      | <u>cas</u><br>10026-04-7             | GAS<br>(PURE)       | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 82 CUFT<br>82 CUFT<br>82 CUFT<br>0 CUFT<br>365<br>N/A   | #Error                | pres:<br>temp:     | > AMB<br>AMB | #Error             |
| 8: CORROSIVES                                 | Advanced<br>Labs | Sodium Hydroxide,<br>50%<br>()<br>CAS#: 1310-73-2 | <u>name</u><br>sodium hydroxide<br>water                    | ehs<br>N<br>n        |                      | <u>cas</u><br>1310-73-2<br>7732-18-5 | LIQUID<br>(PURE)    | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 1 GAL<br>1 GAL<br>1 GAL<br>0 GAL<br>365<br>N/A          | #Error                | pres:<br>temp:     |              | #Error             |
| 3: FLAMMABLE<br>AND<br>COMBUSTIBLE<br>LIQUIDS | Advanced<br>Labs | Stripper 104<br>()<br>CAS#: NONE                  | name<br>dimethyl<br>sulfoxide<br>n-methyl-2-<br>pyrrolidone | <u>ehs</u><br>N<br>N | <u>%</u><br>60<br>40 | <u>cas</u><br>67-68-5<br>872-50-4    | LIQUID<br>(MIXTURE) | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 3 GAL<br>3 GAL<br>1 GAL<br>0 GAL<br>N/A<br>N/A          | #Error                | pres:<br>temp:     |              | #Error             |
| B: CORROSIVES                                 | Advanced<br>Labs | Sulfuric Acid, 81%<br>()<br>CAS#: 7664-93-9       | <u>name</u><br>sulfuric acid<br>water                       | ehs<br>Y<br>N        |                      | <u>cas</u><br>7664-93-9<br>7732-18-5 | LIQUID<br>(PURE)    | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 4 GAL<br>4 GAL<br>1 GAL<br>0 GAL<br>365<br>N/A          | #Error                | pres:<br>temp:     |              | #Error             |
| 3: CORROSIVES                                 | Advanced<br>Labs | Transetch N<br>()<br>CAS#: NONE                   | <u>name</u><br>phosphoric acid                              | <u>ehs</u><br>N      | <u>%</u>             | <u>cas</u><br>-7664-38-2             | LIQUID<br>(MIXTURE) | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 0.25 GAL<br>0.25 GAL<br>0.25 GAL<br>0 GAL<br>N/A<br>N/A | #Error                | pres:<br>temp:     |              | #Error             |

| Date: 01/13<br>Business Na                    |                  | lips Lumileds                                                            |                                                            |                      |                      | MAP ID                                            | : Buildin           | g 91 l                                 | ower                                           |                       | 2: 23 of 84<br>lity ID#: |                    |
|-----------------------------------------------|------------------|--------------------------------------------------------------------------|------------------------------------------------------------|----------------------|----------------------|---------------------------------------------------|---------------------|----------------------------------------|------------------------------------------------|-----------------------|--------------------------|--------------------|
| DOT<br>HAZ CLASS                              | Location         | CHEMICAL NAME<br>(COMMON NAME)                                           | HAZARDOUS                                                  | S CON                | IPON                 | ENTS                                              | PHYSICAL<br>STATE   | QUAN                                   | TITIES                                         | STORAGE<br>CONTAINERS | STORAGE<br>CODES         | SARA<br>CATEGORIES |
| 3: FLAMMABLE<br>AND<br>COMBUSTIBLE<br>LIQUIDS | Advanced<br>Labs | Wafer Bond Remover<br>()<br>CAS#: NONE                                   | name<br>1-dodecene<br>2-ethyl-1-decene<br>2-butyl-1-octene |                      |                      | <u>cas</u><br>112-41-4<br>71138-64-2<br>5698-48-6 | LIQUID<br>(MIXTURE) | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 6 GAL<br>6 GAL<br>1 GAL<br>0 GAL<br>365<br>N/A | #Error                | pres: AMB<br>temp: < AMB | #Error             |
| 3: FLAMMABLE<br>AND<br>COMBUSTIBLE<br>LIQUIDS | Advanced<br>Labs | WNRD Negative<br>Resist<br>Developer,VBF A III<br>()<br>CAS#: 64742-48-9 | <u>name</u><br>isoparaffinic<br>hydrocarbon                | <u>ehs</u><br>N      | <u>%</u><br>100      | <u>cas</u><br>64742-48-9                          | LIQUID<br>(MIXTURE) | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 1 GAL<br>1 GAL<br>1 GAL<br>0 GAL<br>365<br>N/A | #Error                | pres: AMB<br>temp: AMB   | #Error             |
| 8: CORROSIVES                                 | EPI Fab<br>North | Acetic Acid<br>()<br>CAS#: 64-19-7                                       | name<br>acetic acid<br>water                               | <u>ehs</u><br>N<br>N | <u>%</u><br>90<br>10 | <u>cas</u><br>64-19-7<br>7732-18-5                | LIQUID<br>(PURE)    | AVG<br>LC                              | 4 GAL<br>4 GAL<br>1 GAL<br>0 GAL<br>365<br>N/A | #Error                | pres: AMB<br>temp: AMB   | #Error             |
| 3: FLAMMABLE<br>AND<br>COMBUSTIBLE<br>LIQUIDS | EPI Fab<br>North | Acetone<br>()<br>CAS#: 67-64-1                                           | <u>name</u><br>acetone                                     | ehs<br>N             | <u>%</u><br>100      | <u>cas</u><br>67-64-1                             | LIQUID<br>(PURE)    | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 6 GAL<br>6 GAL<br>1 GAL<br>0 GAL<br>365<br>N/A | #Error                | pres: AMB<br>temp: AMB   | #Error             |
| NONE                                          | EPI Fab<br>North | Aluminum Chloride<br>()<br>CAS#: 7446-70-0                               | <u>name</u><br>aluminum<br>chloride                        | ehs<br>N             | <u>%</u><br>100      | <u>cas</u><br>7446-70-0                           | SOLID<br>(PURE)     | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 2 LBS<br>2 LBS<br>1 LBS<br>0 LBS<br>N/A<br>N/A | #Error                | pres: AMB<br>temp: AMB   | #Error             |

-

| Date: 01/13<br>Business Na     | 2010-00-00-00-00-00-00-00-00-00-00-00-00- | ips Lumileds                                        |                                        |                      |                 | MAP ID                                | : Buildin           | g 91 l                                 | Lower                                                       |                       | e: 24 of 84<br>lity ID#:  |                    |
|--------------------------------|-------------------------------------------|-----------------------------------------------------|----------------------------------------|----------------------|-----------------|---------------------------------------|---------------------|----------------------------------------|-------------------------------------------------------------|-----------------------|---------------------------|--------------------|
| DOT<br>HAZ CLASS               | Location                                  | CHEMICAL NAME<br>(COMMON NAME)                      | HAZARDOU                               | S COM                | PON             | ENTS                                  | PHYSICAL<br>STATE   | QUA                                    | NTITIES                                                     | STORAGE<br>CONTAINERS | STORAGE<br>CODES          | SARA<br>CATEGORIES |
| 6.1: TOXIC<br>SUBSTANCES       | EPI Fab<br>North                          | Ammonium Fluoride,<br>41%<br>()<br>CAS#: 12125-01-8 | name<br>ammonium<br>fluoride<br>water  | <u>ehs</u><br>N<br>N |                 | <u>cas</u><br>12125-01-8<br>7732-18-5 | LIQUID<br>(PURE)    | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 4 GAL<br>4 GAL<br>1 GAL<br>0 GAL<br>365<br>N/A              | #Error                | pres: AMB<br>temp: AMB    | #Error             |
| 8: CORROSIVES                  | EPI Fab<br>North                          | Ammonium<br>Hydroxide 30%<br>()<br>CAS#: 1336-21-6  | name<br>ammonium<br>hydroxide<br>water | <u>ehs</u><br>N<br>N |                 | <u>cas</u><br>1336-21-6<br>7732-18-5  | Liquid<br>(pure)    | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 10 GAL<br>10 GAL<br>1 GAL<br>0 GAL<br>365<br>N/A            | #Error                | pres: AMB<br>temp: AMB    | #Error             |
| NONE                           | EPI Fab<br>North                          | Antifreez<br>()<br>CAS#: NONE                       | name<br>diethylene glycol              | ehs<br>N             | <u>%</u><br>95  | <u>cas</u><br>111-46-6                | LIQUID<br>(MIXTURE) | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 1 GAL<br>1 GAL<br>1 GAL<br>0 GAL<br>365<br>N/A              | #Error                | pres: AMB<br>temp: AMB    | #Error             |
| 2.2:<br>NONFLAMMABL<br>E GASES | EPI Fab 🤸<br>North                        | Argon<br>()<br>CAS#: 7440-37-1                      | <u>name</u><br>argon                   | <u>ehs</u><br>N      | <u>%</u><br>100 | <u>cas</u><br>7440-37-1               | GAS<br>(PURE)       | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 560 CUFT<br>560 CUFT<br>280 CUFT<br>0 CUFT<br>365<br>N/A    | #Error                | pres: > AMB<br>temp: AMB  | #Error             |
| 2.2:<br>NONFLAMMABL<br>E GASES | EPI Fab<br>North                          | Argon, liquid<br>()<br>CAS#: 7440-37-1              | <u>name</u><br>argon, liquid           | <u>ehs</u><br>N      | <u>%</u><br>100 | <u>cas</u><br>7440-37-1               | GAS<br>(PURE)       | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 4000 CUFT<br>4000 CUFT<br>4000 CUFT<br>0 CUFT<br>365<br>N/A | #Error                | pres: > AMB<br>temp: CRYO | #Error             |

| Date: 01/1:<br>Business Na     |                  | ilips Lumileds                                             |                                         |                      |      | MAP ID                                            | : Buildin         | g 91 l                                 | Lower                                                 |                       | 2: 25 of 84<br>lity ID#: |                    |
|--------------------------------|------------------|------------------------------------------------------------|-----------------------------------------|----------------------|------|---------------------------------------------------|-------------------|----------------------------------------|-------------------------------------------------------|-----------------------|--------------------------|--------------------|
| DOT<br>HAZ CLASS               | Location         | CHEMICAL NAME<br>(COMMON NAME)                             | HAZARDO                                 | US CON               | IPON | NENTS                                             | PHYSICAL<br>STATE | QUAN                                   | <b>NTITIES</b>                                        | STORAGE<br>CONTAINERS | STORAGE<br>CODES         | SARA<br>CATEGORIES |
| 8: CORROSIVES                  | EPI Fab<br>North | Bleach<br>()<br>CAS#: 7681-52-9                            | name<br>sodium<br>hypochlorite<br>water | <u>ehs</u><br>N<br>n |      | <u>cas</u><br>7681-52-9<br>7732-18-5              | LIQUID<br>(PURE)  | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 2 GAL<br>1 GAL<br>1 GAL<br>0 GAL<br>365<br>N/A        | #Error                | pres: AMB<br>temp: AMB   | #Error             |
| 2.2:<br>NONFLAMMABL<br>E GASES | EPI Fab<br>North | Calibration Gas 1%<br>Hydrogen in air<br>()<br>CAS#: NONE  | name<br>nitrogen<br>oxygen<br>hydrogen  | <u>ehs</u><br>N<br>N | 20.5 | <u>cas</u><br>7727-37-9<br>7782-44-7<br>1333-74-0 | GAS<br>(MIXTURE)  | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 81 CUFT<br>27 CUFT<br>29 CUFT<br>0 CUFT<br>N/A<br>N/A | #Error                | pres: > AMB<br>temp: AMB | #Error             |
| 2.2:<br>NONFLAMMABL<br>E GASES | EPI Fab<br>North | Calibration Gas 1%<br>• Hydrogen in N2<br>()<br>CAS#: NONE | <u>name</u><br>nitrogen<br>hydrogen     | <u>ehs</u><br>N<br>N |      | <u>cas</u><br>7727-37-9<br>1333-74-0              | GAS<br>(MIXTURE)  | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 80 CUFT<br>80 CUFT<br>80 CUFT<br>0 CUFT<br>N/A<br>N/A | #Error                | pres: > AMB<br>temp: AMB | #Error             |
| 2.2:<br>NONFLAMMABL<br>E GASES | EPI Fab<br>North | Calibration Gas 2%<br>hydrogen in air<br>()<br>CAS#: NONE  | nitrogen<br>oxygen<br>hydrogen          | <u>ehs</u><br>N<br>N | 20.5 | <u>cas</u><br>7727-37-9<br>7782-44-7<br>1333-74-0 | GAS<br>(MIXTURE)  | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 29 CUFT<br>29 CUFT<br>29 CUFT<br>0 CUFT<br>N/A<br>N/A | #Error                | pres: > AMB<br>temp: AMB | #Error             |
| 2.2:<br>NONFLAMMABL<br>E GASES | EPI Fab<br>North | Calibration Gas 2%<br>Hydrogen in N2<br>()<br>CAS#: NONE   | <u>name</u><br>nitrogen<br>hydrogen     | <u>ehs</u><br>N<br>N |      | <u>cas</u><br>7727-37-9<br>1333-74-0              | GAS<br>(MIXTURE)  | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 80 CUFT<br>80 CUFT<br>80 CUFT<br>0 CUFT<br>N/A<br>N/A | #Error                | pres: > AMB<br>temp: AMB | #Error             |

| Date: 01/1:<br>Business No     |                  | ilips Lumileds                                        |                                      |                      |                 | MAP ID                               | : Buildin         | g 91 l                                 | Lower                                                       |                       | 2: 26 of 84<br>lity ID#: |                    |
|--------------------------------|------------------|-------------------------------------------------------|--------------------------------------|----------------------|-----------------|--------------------------------------|-------------------|----------------------------------------|-------------------------------------------------------------|-----------------------|--------------------------|--------------------|
| DOT<br>HAZ CLASS               | Location         | CHEMICAL NAME<br>(COMMON NAME)                        | HAZARDOU                             | S COM                | PON             | ENTS                                 | PHYSICAL<br>STATE | QUAN                                   | TITIES                                                      | STORAGE<br>CONTAINERS | STORAGE<br>CODES         | SARA<br>CATEGORIES |
| 5.1: OXIDIZING<br>SUBSTANCES   | EPI Fab<br>North | Chromium Trioxide<br>(Solid)<br>()<br>CAS#: 1333-82-0 | name<br>chromium<br>trioxide (solid) | <u>ehs</u><br>N      | <u>%</u><br>100 | <u>cas</u><br>1333-82-0              | SOLID<br>(PURE)   | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 1 LBS<br>1 LBS<br>1 LBS<br>0 LBS<br>N/A<br>N/A              | #Error                | pres: AMB<br>temp: AMB   | #Error             |
| NONE                           | EPI Fab<br>North | Ethylene Glycol<br>()<br>CAS#: 107-21-1               | name<br>ethylene glycol              | <u>ehs</u><br>N      | <u>%</u><br>100 | <u>cas</u><br>107-21-1               | LIQUID<br>(PURE)  | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 8 GAL<br>4 GAL<br>1 GAL<br>0 GAL<br>365<br>N/A              | #Error                | pres: AMB<br>temp: AMB   | #Error             |
| 2.2:<br>NONFLAMMABL<br>E GASES | EPI Fab<br>North | Germane 1000 ppm<br>in Argon<br>()<br>CAS#: NONE      | name<br>germaine<br>argon            | ehs<br>N<br>N        |                 | <u>cas</u><br>7782-65-2<br>7440-37-1 | GAS<br>(PURE)     | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 37.5 CUFT<br>37.5 CUFT<br>37.5 CUFT<br>0 CUFT<br>365<br>N/A | #Error                | pres: > AMB<br>temp: AMB | #Error             |
| 2.2:<br>NONFLAMMABL<br>E GASES | EPI Fab<br>North | Helium<br>()<br>CAS#: 7440-59-7                       | <u>name</u><br>helium                | ehs<br>N             | <u>%</u><br>100 | <u>cas</u><br>7440-59-7              | GAS<br>(PURE)     | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 976 CUFT<br>976 CUFT<br>244 CUFT<br>0 CUFT<br>365<br>N/A    | #Error                | pres: > AMB<br>temp: AMB | #Error             |
| 8: CORROSIVES                  | EPI Fab<br>North | Hydrochloric acid 38%<br>()<br>CAS#: 7647-01-0        | name<br>hydrochloric acid<br>water   | <u>ehs</u><br>N<br>N |                 | <u>cas</u><br>7647-01-0<br>7732-18-5 | Liquid<br>(Pure)  | AVG<br>LC<br>WST<br>DAYS               | 4 GAL<br>4 GAL<br>1 GAL<br>0 GAL<br>365<br>N/A              | #Error                | pres: AMB<br>temp: AMB   | #Error             |

1000

| Date: 01/13<br>Business Na               | CONTRACTOR STREET | ilips Lumileds                                                    |                                                 |                      |                 | MAP IL                               | : Buildin           | g 91 l                                 | ower                                                       |                       | e: 28 of 84<br>lity ID#: |                    |
|------------------------------------------|-------------------|-------------------------------------------------------------------|-------------------------------------------------|----------------------|-----------------|--------------------------------------|---------------------|----------------------------------------|------------------------------------------------------------|-----------------------|--------------------------|--------------------|
| DOT<br>HAZ CLASS                         | Location          | CHEMICAL NAME<br>(COMMON NAME)                                    | HAZARDOU                                        | S COM                | IPON            | ENTS                                 | PHYSICAL<br>STATE   | QUAN                                   | TITIES                                                     | STORAGE<br>CONTAINERS | STORAGE<br>CODES         | SARA<br>CATEGORIES |
| 2.2:<br>NONFLAMMABL<br>E GASES           | EPI Fab<br>North  | <ul> <li>Nitrogen</li> <li>()</li> <li>CAS#: 7727-37-9</li> </ul> | <u>name</u><br>nitrogen                         | <u>ehs</u><br>N      | <u>%</u><br>100 | <u>cas</u><br>7727-37-9              | GAS<br>(PURE)       | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 304 CUFT<br>304 CUFT<br>304 CUFT<br>0 CUFT<br>365<br>N/A   | #Error                | pres: > AMB<br>temp: AMB | #Error             |
| NONE                                     | EPI Fab<br>North  | Oil (hydrocarbon)<br>()<br>CAS#: NONE                             | <u>name</u><br>oil (hydrocarbon)                | <u>ehs</u><br>N      | <u>%</u><br>100 | <u>cas</u>                           | LIQUID<br>(MIXTURE) | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 2 GAL<br>2 GAL<br>2 GAL<br>0 GAL<br>365<br>N/A             | #Error                | pres: AMB<br>temp: AMB   | NONE               |
| 8: CORROSIVES                            | EPI Fab<br>North  | Phosphoric Acid, 80%<br>()<br>CAS#: 7664-38-2                     | name<br>phosphoric acid<br>water                | <u>ehs</u><br>N<br>N |                 | <u>cas</u><br>7664-38-2<br>7732-18-5 | LIQUID<br>(PURE)    | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 2 GAL<br>2 GAL<br>1 GAL<br>0 GAL<br>365<br>N/A             | #Error                | pres: AMB<br>temp: AMB   | #Error             |
| 4.2:<br>SPONTANEOUS<br>LY<br>COMBUSTIBLE | EPI Fab<br>North  | Proprietary<br>Pyrophoric Liquid<br>()<br>CAS#: NONE              | <u>name</u><br>proprietary<br>pyrophoric liquid | <u>ehs</u><br>N      | <u>%</u><br>100 | <u>cas</u>                           | LIQUID<br>(PURE)    | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 61.3 LBS<br>61.3 LBS<br>13.2 LBS<br>0 LBS<br>365<br>N/A    | #Error                | pres: AMB<br>temp: AMB   | #Error             |
| 2.2:<br>NONFLAMMABL<br>E GASES           | EPI Fab<br>North  | Silane 100 ppm in<br>Argon<br>()<br>CAS#: NONE                    | <u>name</u><br>silane<br>argon                  | <u>ehs</u><br>N<br>N |                 | <u>cas</u><br>7803-62-5<br>7440-37-1 | GAS<br>(MIXTURE)    | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 1208 CUFT<br>1208 CUFT<br>302 CUFT<br>0 CUFT<br>365<br>N/A | #Error                | pres: > AMB<br>temp: AMB | #Error             |

-

6

| Date: 01/13<br>Business Na                    |                  | ilips Lumileds                                    |                                       |                      |                 | MAP ID                               | : Buildin         | g 91 i                                 | Lower                                             |                       | 2: 27 of 84<br>lity ID#: |                    |
|-----------------------------------------------|------------------|---------------------------------------------------|---------------------------------------|----------------------|-----------------|--------------------------------------|-------------------|----------------------------------------|---------------------------------------------------|-----------------------|--------------------------|--------------------|
| DOT<br>HAZ CLASS                              | Location         | CHEMICAL NAME<br>(COMMON NAME)                    | HAZARDOU                              | S COM                | PON             | ENTS                                 | PHYSICAL<br>STATE | QUA                                    | NTITIES                                           | STORAGE<br>CONTAINERS | STORAGE<br>CODES         | SARA<br>CATEGORIES |
| 8: CORROSIVES                                 | EPI Fab<br>North | Hydrofluoric Acid 49%<br>()<br>CAS#: 7664-39-3    | hame<br>hydrofluoric acid<br>water    | ehs<br>Y<br>N        |                 | <u>cas</u><br>7664-39-3<br>7732-18-5 | Liquid<br>(Pure)  | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 2 GAL<br>1 GAL<br>0 GAL                           | #Error                | pres: AMB<br>temp: AMB   | #Error             |
| 5.1: OXIDIZING<br>SUBSTANCES                  | EPI Fab<br>North | Hydrogen Peroxide<br>30%<br>()<br>CAS#: 7722-84-1 | name<br>hydrogen<br>peroxide<br>water | <u>ehs</u><br>N<br>N |                 | <u>cas</u><br>7722-84-1<br>7732-18-5 | LIQUID<br>(PURE)  | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 4 GAL<br>4 GAL<br>1 GAL<br>0 GAL<br>365<br>N/A    | #Error                | pres: AMB<br>temp: AMB   | #Error             |
| 3: FLAMMABLE<br>AND<br>COMBUSTIBLE<br>LIQUIDS | EPI Fab<br>North | Isopropyl Alcohol<br>()<br>CAS#: 67-63-0          | name<br>isopropyl alcohol             | <u>ehs</u><br>N      | <u>%</u><br>100 | <u>cas</u><br>67-63-0                | LIQUID<br>(PURE)  | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 8 GAL<br>8 GAL<br>1 GAL<br>0 GAL<br>365<br>N/A    | #Error                | pres: AMB<br>temp: AMB   | #Error             |
| 3: FLAMMABLE<br>AND<br>COMBUSTIBLE<br>LIQUIDS | EPI Fab<br>North | Methanol<br>()<br>CAS#: 67-56-1                   | <u>nume</u><br>methanol               | <u>ehs</u><br>N      | <u>%</u><br>100 | <u>cas</u><br>67-56-1                | LIQUID<br>(PURE)  | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 5 GAL<br>5 GAL<br>1 GAL<br>0 GAL<br>365<br>N/A    | #Error                | pres: AMB<br>temp: AMB   | #Error             |
| B: CORROSIVES                                 | EPI Fab<br>North | Nitric Acid 70%<br>()<br>CAS#: 7697-37-2          | nitric acid<br>water                  | ehs<br>Y<br>N        |                 | <u>cas</u><br>7697-37-2<br>7732-18-5 | LIQUID<br>(PURE)  | AVG<br>LC<br>WST<br>DAYS               | 5 GAL<br>5 GAL<br>0.58 GAL<br>0 GAL<br>365<br>N/A | #Error                | pres: AMB<br>temp: AMB   | #Error             |

| Date: 01/13<br>Business Na       |                  | lips Lumileds                                      |                                                     |                      |                            |                                      |                    |                                        |                                                      |                       | e: 29 of 84<br>lity ID#: |                    |
|----------------------------------|------------------|----------------------------------------------------|-----------------------------------------------------|----------------------|----------------------------|--------------------------------------|--------------------|----------------------------------------|------------------------------------------------------|-----------------------|--------------------------|--------------------|
| DOT<br>HAZ CLASS                 | Location         | CHEMICAL NAME<br>(COMMON NAME)                     | HAZARDOU                                            | S COM                | PON                        | ENTS                                 | PHYSICAL<br>STATE  | QUAN                                   | TITIES                                               | STORAGE<br>CONTAINERS | STORAGE<br>CODES         | SARA<br>CATEGORIES |
| 8: CORROSIVES                    | EPI Fab<br>North | Sodium Hydroxide,<br>50%<br>()<br>CAS#: 1310-73-2  | name<br>sodium hydroxide<br>water                   | ehs<br>e N<br>n      |                            | <u>cas</u><br>1310-73-2<br>7732-18-5 | Liquid<br>(Pure)   | AVG<br>LC<br>WST<br>DAYS               | 1 GAL<br>1 GAL<br>1 GAL<br>0 GAL<br>365<br>N/A       | #Error                | pres: AMB<br>temp: AMB   | #Error             |
| 8: CORROSIVES                    | EPI Fab<br>North | Sulfuric Acid, 96%<br>()<br>CAS#: 7664-93-9        | name<br>sulfuric acid<br>water                      | ehs<br>Y<br>N        |                            | <u>cas</u><br>7664-93-9<br>7732-18-5 | LIQUID<br>(PURE)   | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 4 GAL<br>8 GAL<br>1 GAL<br>0 GAL<br>365<br>N/A       | #Error                | pres: AMB<br>temp: AMB   | #Error             |
| 9: MISC<br>HAZARDOUS<br>MATERIAL | EPI Fab<br>North | Waste Wafer Scrap<br>()<br>CAS#: NONE              | <u>name</u><br>gaas wafers<br>gan<br>gap<br>alingap | <u>ehs</u><br>N      | 26<br>10<br>40<br>30<br>20 | <u>cas</u>                           | SOLID<br>(MIXTURE) | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 350 LBS<br>300 LBS<br>350 LBS<br>0 LBS<br>365<br>N/A | #Error                | pres: AMB<br>temp: AMB   | #Error             |
| 8: CORROSIVES                    | EPI Fab<br>North | Zinc Chloride<br>()<br>CAS#: 7646-85-7             | name<br>zinc chloride                               | <u>ehs</u><br>N      | <u>%</u><br>100            | <u>cas</u><br>7646-85-7              | SOLID<br>(PURE)    | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 2 LBS<br>2 LBS<br>1 LBS<br>0 LBS<br>365<br>N/A       | #Error                | pres: AMB<br>temp: AMB   | #Error             |
| 8: CORROSIVES                    | EPI Fab<br>South | Ammonium<br>Hydroxide 30%<br>()<br>CAS#: 1336-21-6 | name<br>ammonium<br>hydroxide<br>water              | <u>ehs</u><br>N<br>N | <u>%</u><br>30<br>70       | <u>cas</u><br>1336-21-6<br>7732-18-5 | LIQUID<br>(PURE)   | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 40 GAL<br>40 GAL<br>1 GAL<br>0 GAL<br>365<br>N/A     | #Error                | pres: AMB<br>temp: AMB   | #Error             |

| Date: 01/1:<br>Business No     |                  | ilips Lumileds                                    |                                           |                      |                 | MAP ID                               | : Buildin         | g 91 i                                 | Lower                                                    |                       | 2: 30 of 84<br>lity ID#:   |                    |
|--------------------------------|------------------|---------------------------------------------------|-------------------------------------------|----------------------|-----------------|--------------------------------------|-------------------|----------------------------------------|----------------------------------------------------------|-----------------------|----------------------------|--------------------|
| DOT<br>HAZ CLASS               | Location         | CHEMICAL NAME<br>(COMMON NAME)                    | HAZARDOU                                  | S COM                | IPON            | ENTS                                 | PHYSICAL<br>STATE | QUA                                    | NTITIES                                                  | STORAGE<br>CONTAINERS | STORAGE<br>CODES           | SARA<br>CATEGORIES |
| 2.3: TOXIC<br>GASES            | EPI Fab<br>South | Boron Trichloride<br>()<br>CAS#: 10294-34-5       | name<br>boron trichloride                 | <u>ehs</u><br>N      | <u>%</u><br>100 | <u>cas</u><br>10294-34-5             | GAS<br>(PURE)     | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 330 CUFT<br>330 CUFT<br>330 CUFT<br>0 CUFT<br>365<br>N/A | #Error                | pres: > AMB<br>temp: > AMB | #Error             |
| NONE                           | EPI Fab<br>South | Ethylene Glycol<br>()<br>CAS#: 107-21-1           | name<br>ethylene glycol                   | ehs<br>N             | <u>%</u><br>100 | <u>cas</u><br>107-21-1               | LIQUID<br>(PURE)  | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 24 GAL<br>24 GAL<br>1 GAL<br>0 GAL<br>365<br>N/A         | #Error                | pres: AMB<br>temp: AMB     | #Error             |
| 2.2:<br>NONFLAMMABL<br>E GASES | EPI Fab<br>South | - Helium<br>()<br>CAS#: 7440-59-7                 | <u>name</u><br>helium                     | <u>ehs</u><br>N      | <u>%</u><br>100 | <u>cas</u><br>7440-59-7              | GAS<br>(PURE)     | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 732 CUFT<br>732 CUFT<br>244 CUFT<br>0 CUFT<br>365<br>N/A | #Error                | pres: > AMB<br>temp: AMB   | #Error             |
| 8: CORROSIVES                  | EPI Fab<br>South | Hydrochloric acid 38%<br>()<br>CAS#: 7647-01-0    | <u>name</u><br>hydrochloric acid<br>water | <u>ehs</u><br>N<br>N |                 | <u>cas</u><br>7647-01-0<br>7732-18-5 | LIQUID<br>(PURE)  | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 15 GAL<br>15 GAL<br>1 GAL<br>0 GAL<br>365<br>N/A         | #Error                | pres: AMB<br>temp: AMB     | #Error             |
| 5.1: OXIDIZING<br>SUBSTANCES   | EPI Fab<br>South | Hydrogen Peroxide<br>30%<br>()<br>CAS#: 7722-84-1 | name<br>hydrogen<br>peroxide<br>water     | <u>ehs</u><br>N<br>N |                 | <u>cas</u><br>7722-84-1<br>7732-18-5 | Liquid<br>(Pure)  | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 40 GAL<br>40 GAL<br>1 GAL<br>0 GAL<br>365<br>N/A         | #Error                | pres: AMB<br>temp: AMB     | #Error             |

| Date: 01/1:<br>Business Na                    |                  | ilips Lumileds                           |                                  |                 | MAP ID          | : Buildin                            | g 91 i            | Lower                                  |                                                      | e: 31 of 84<br>lity ID#: |                          |                    |
|-----------------------------------------------|------------------|------------------------------------------|----------------------------------|-----------------|-----------------|--------------------------------------|-------------------|----------------------------------------|------------------------------------------------------|--------------------------|--------------------------|--------------------|
| DOT<br>HAZ CLASS                              | Location         | CHEMICAL NAME<br>(COMMON NAME)           | HAZARDOU                         | s con           | IPON            | ENTS                                 | PHYSICAL<br>STATE | QUAI                                   | NTITIES                                              | STORAGE<br>CONTAINERS    | STORAGE<br>CODES         | SARA<br>CATEGORIES |
| 3: FLAMMABLE<br>AND<br>COMBUSTIBLE<br>LIQUIDS | EPI Fab<br>South | Isopropyl Alcohol<br>()<br>CAS#: 67-63-0 | <u>name</u><br>isopropyl alcohol | ehs<br>N        | <u>%</u><br>100 | <u>cas</u><br>67-63-0                | LIQUID<br>(PURE)  | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 8 GAL<br>8 GAL<br>1 GAL<br>0 GAL<br>365<br>N/A       | #Error                   | pres: AMB<br>temp: AMB   | #Error             |
| 6.1: TOXIC<br>SUBSTANCES                      | EPI Fab<br>South | Mercury<br>()<br>CAS#: 7439-97-6         | <u>name</u><br>mercury           | <u>ehs</u><br>N | <u>%</u><br>100 | <u>cas</u><br>7439-97-6              | LIQUID<br>(PURE)  | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 0.1 LBS<br>0.1 LBS<br>0.1 LBS<br>0 LBS<br>365<br>N/A | #Error                   | pres: AMB<br>remp: AMB   | #Error             |
| 3: FLAMMABLE<br>AND<br>COMBUSTIBLE<br>LIQUIDS | EPI Fab<br>South | Methanol<br>()<br>CAS#: 67-56-1          | <u>name</u><br>methanol          | <u>ehs</u><br>N | <u>%</u><br>100 | <u>cas</u><br>67-56-1                | LIQUID<br>(PURE)  | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 15 GAL<br>5 GAL<br>0 GAL                             | #Error                   | pres: AMB<br>temp: AMB   | #Error             |
| 8: CORROSIVES                                 | EPI Fab<br>South | Nitric Acid 70%<br>()<br>CAS#: 7697-37-2 | nitric acid<br>water             | ehs<br>Y<br>N   |                 | <u>cas</u><br>7697-37-2<br>7732-18-5 | LIQUID<br>(PURE)  | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 15 GAL<br>15 GAL<br>0.58 GAL<br>0 GAL<br>365<br>N/A  | #Error                   | pres: AMB<br>temp: AMB   | #Error             |
| 2.2:<br>NONFLAMMABL<br>E GASES                | EPI Fab<br>South | Nitrogen<br>()<br>CAS#: 7727-37-9        | <u>name</u><br>nitrogen          | ehs<br>N        | <u>%</u><br>100 | <u>cas</u><br>7727-37-9              | GAS<br>(PURE)     | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 304 CUFT<br>304 CUFT<br>0 CUFT                       | #Error                   | pres: > AMB<br>temp: AMB | #Error             |

| Date: 01/1:<br>Business Na               |                  | ilips Lumileds                                           |                                          |                      |                      | MAP IL                               | : Buildin          | g 91 l                                 | Lower                                                    | -                     | :: 32 of 84<br>lity ID#: |                    |
|------------------------------------------|------------------|----------------------------------------------------------|------------------------------------------|----------------------|----------------------|--------------------------------------|--------------------|----------------------------------------|----------------------------------------------------------|-----------------------|--------------------------|--------------------|
| DOT<br>HAZ CLASS                         | Location         | CHEMICAL NAME<br>(COMMON NAME)                           | HAZARDOU                                 | s con                | MPON                 | ENTS                                 | PHYSICAL<br>STATE  | QUAN                                   | NTITIES                                                  | STORAGE<br>CONTAINERS | STORAGE<br>CODES         | SARA<br>CATEGORIES |
| 8: CORROSIVES                            | EPI Fab<br>South | Phosphoric Acid, 80%<br>()<br>CAS#: 7664-38-2            | <u>name</u><br>phosphoric acid<br>water  | <u>ehs</u><br>N<br>N |                      | <u>cas</u><br>7664-38-2<br>7732-18-5 | LIQUID<br>(PURE)   | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 55 GAL<br>55 GAL<br>55 GAL<br>0 GAL<br>365<br>N/A        | #Error                | pres: AMB<br>temp: AMB   | #Error             |
| 4.2:<br>SPONTANEOUS<br>LY<br>COMBUSTIBLE | EPI Fab<br>South | Proprietary<br>Pyrophoric Liquid<br>()<br>CAS#: NONE     | name<br>proprietary<br>pyrophoric liquid | <u>ehs</u><br>N      | <u>%</u><br>100      | <u>cas</u>                           | LIQUID<br>(PURE)   | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 104.8 LBS<br>104.8 LBS<br>1.3 LBS<br>0 LBS<br>365<br>N/A | #Error                | pres: AMB<br>temp: AMB   | #Error             |
| 2.2:<br>NONFLAMMABL<br>E GASES           | EPI Fab<br>South | Silane 100 ppm in<br>Argon<br>()<br>CAS#: NONE           | name<br>silane<br>argon                  | <u>ehs</u><br>N<br>N |                      | <u>cas</u><br>7803-62-5<br>7440-37-1 | GAS<br>(MIXTURE)   | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 604 CUFT<br>604 CUFT<br>302 CUFT<br>0 CUFT<br>365<br>N/A | #Error                | pres: > AMB<br>temp: AMB | #Error             |
| 9: MISC<br>HAZARDOUS<br>MATERIAL         | EPI Fab<br>South | Waste Arsenic<br>Contaminated Debris<br>()<br>CAS#: NONE | name<br>debris<br>arsenic                | <u>ehs</u><br>N<br>N | <u>%</u><br>99<br><1 | <u>cas</u><br>NA<br>7440-38-2        | SOLID<br>(MIXTURE) | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 50 LBS<br>50 LBS<br>50 LBS<br>4000 LBS<br>365<br>N/A     | #Error                | pres: AMB<br>temp: AMB   | #Error             |
| 9: MISC<br>HAZARDOUS<br>MATERIAL         | EPI Fab<br>South | Waste Graphite<br>()<br>CAS#: NONE                       | name<br>waste graphite                   | ehs<br>N             | <u>%</u><br>100      | <u>cas</u>                           | SOLID<br>(MIXTURE) | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 100 LBS<br>100 LBS<br>30 LBS<br>2000 LBS<br>365<br>N/A   | #Error                | pres: AMB<br>temp: AMB   | #Error             |

| Date: 01/13<br>Business Na                    |                      | lips Lumileds                                  |                                                       |                 | AME PHYSICAL                     |                                    |                     |                                        |                                                        |                       | e: 33 of 84<br>lity ID#: |                    |
|-----------------------------------------------|----------------------|------------------------------------------------|-------------------------------------------------------|-----------------|----------------------------------|------------------------------------|---------------------|----------------------------------------|--------------------------------------------------------|-----------------------|--------------------------|--------------------|
| DOT<br>HAZ CLASS                              | Location             | CHEMICAL NAME<br>(COMMON NAME)                 | HAZARDOU                                              | S COM           | IPON                             | ENTS                               | PHYSICAL<br>STATE   | QUAN                                   | NTITIES                                                | STORAGE<br>CONTAINERS | STORAGE<br>CODES         | SARA<br>CATEGORIES |
| 4.2:<br>SPONTANEOUS<br>LY<br>COMBUSTIBLE      | EPI Fab<br>South     | Waste Pyrophoric<br>Debris<br>()<br>CAS#: NONE | <u>name</u><br>waste pyrophoric<br>debris             | <u>ehs</u><br>N | <u>%</u><br>100                  | <u>cus</u>                         | LIQUID<br>(MIXTURE) | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 150 LBS<br>150 LBS<br>30 LBS<br>4000 LBS<br>365<br>N/A | #Error                | pres: AMB<br>temp: AMB   | #Error             |
| 9: MISC<br>HAZARDOUS<br>MATERIAL              | EPI Fab<br>South     | Waste Wafer Scrap<br>()<br>CAS#: NONE          | <u>name</u><br>gaas wafers<br>gan<br>gap<br>alingap   | <u>ehs</u><br>N | <u>%</u><br>10<br>40<br>30<br>20 | <u>cas</u>                         | SOLID<br>(MIXTURE)  | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 54 LBS<br>50 LBS<br>50 LBS<br>700 LBS<br>365<br>N/A    | #Error                | pres: AMB<br>temp: AMB   | #Error             |
| 3: FLAMMABLE<br>AND<br>COMBUSTIBLE<br>LIQUIDS | Photolitho<br>graphy | Acetone<br>()<br>CAS#: 67-64-1                 | name<br>acetone                                       | ehs<br>N        | <u>%</u><br>100                  | <u>cas</u><br>67-64-1              | LIQUID<br>(PURE)    | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 3 GAL<br>2 GAL<br>1 GAL<br>0 GAL<br>365<br>N/A         | #Error                | pres: AMB<br>temp: AMB   | #Error             |
| 3: FLAMMABLE<br>AND<br>COMBUSTIBLE<br>LIQUIDS | Photolitho<br>graphy | Adhesion Promoter<br>()<br>CAS#: 999-97-3      | <u>name</u><br>hexamethyl<br>disilazane               | ehs<br>N        | <u>%</u><br>100                  | <u>cas</u><br>999-97-3             | LIQUID<br>(MIXTURE) | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 1 GAL<br>0.5 GAL<br>0.125 GAL<br>0 GAL<br>365<br>N/A   | #Error                | pres: AMB<br>temp: AMB   | #Error             |
| 8: CORROSIVES                                 | Photolitho<br>graphy | AZ 300 MIF<br>Developer<br>()<br>CAS#: NONE    | name<br>tetramethyl<br>ammonium<br>hydroxide<br>water | ehs<br>N        | <u>%</u><br>2<br>98              | <u>cas</u><br>75-59-2<br>7732-18-5 | LIQUID<br>(MIXTURE) | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 3 GAL<br>2 GAL<br>1 GAL<br>0 GAL<br>365<br>N/A         | #Error                | pres: AMB<br>temp: AMB   | #Error             |

| Date: 01/13<br>Business Na                    | a marked and         | lips Lumileds                                     |                                                                          |                       |                      | MAP IL                               | : Buildin           | ig 91 i                                | Lower                                            | 0                     | e: 34 of 84<br>lity ID#: |                    |
|-----------------------------------------------|----------------------|---------------------------------------------------|--------------------------------------------------------------------------|-----------------------|----------------------|--------------------------------------|---------------------|----------------------------------------|--------------------------------------------------|-----------------------|--------------------------|--------------------|
| DOT<br>HAZ CLASS                              | Location             | CHEMICAL NAME<br>(COMMON NAME)                    | HAZARDOU                                                                 | s co.                 | MPON                 | ENTS                                 | PHYSICAL<br>STATE   | QUAN                                   | NTITIES                                          | STORAGE<br>CONTAINERS | STORAGE<br>CODES         | SARA<br>CATEGORIES |
| 8: CORROSIVES                                 | Photolitho<br>graphy | AZ 400K Developer<br>()<br>CAS#: NONE             | name<br>potassium<br>hydroxide<br>water                                  | <u>ehs</u><br>N<br>N  | <u>%</u><br>2<br>98  | <u>cas</u><br>1310-58-3<br>7732-18-5 | LIQUID<br>(MIXTURE) | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 3 GAL<br>2 GAL<br>1 GAL<br>0 GAL<br>365<br>N/A   | #Error                | pres: AMB<br>temp: AMB   | NONE               |
| 3: FLAMMABLE<br>AND<br>COMBUSTIBLE<br>LIQUIDS | Photolitho<br>graphy | AZ EBR 70/30<br>()<br>CAS#: NONE                  | name<br>1-methoxy-2-<br>propanol<br>1-methoxy-2-<br>propanol acetate     | <u>ehs</u><br>N       | <u>%</u><br>70<br>30 | <u>cas</u><br>107-98-2<br>108-65-6   | LIQUID<br>(MIXTURE) | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 10 GAL<br>10 GAL<br>5 GAL<br>0 GAL<br>365<br>N/A | #Error                | pres: AMB<br>temp: AMB   | #Error             |
| 3: FLAMMABLE<br>AND<br>COMBUSTIBLE<br>LIQUIDS | Photolitho<br>graphy | EBR 2<br>()<br>CAS#: NONE                         | name<br>cyclohexanone                                                    | <u>ehs</u><br>N       | <u>%</u><br>100      | <u>cas</u><br>108-94-1               | LIQUID<br>(MIXTURE) |                                        | 10 GAL<br>10 GAL<br>5 GAL<br>0 GAL<br>365<br>N/A | #Error                | pres: AMB<br>temp: AMB   | #Error             |
| 3: FLAMMABLE<br>AND<br>COMBUSTIBLE<br>LIQUIDS | Photolitho<br>graphy | Isopropyl Alcohol<br>()<br>CAS#: 67-63-0          | <u>name</u><br>isopropyl alcohol                                         | ehs<br>N              | <u>%</u><br>100      | <u>cas</u><br>67-63-0                | LIQUID<br>(PURE)    | AVG<br>LC<br>WST<br>DAYS               | 3 GAL<br>2 GAL<br>1 GAL<br>0 GAL<br>365<br>N/A   | #Error                | pres: AMB<br>temp: AMB   | #Error             |
| 3: FLAMMABLE<br>AND<br>COMBUSTIBLE<br>LIQUIDS | Photolitho<br>graphy | Miscellaneous<br>Photoresists<br>()<br>CAS#: NONE | name<br>novolak resin<br>propylene glycol<br>monomethyl<br>ether acetate | <u>elis</u><br>N<br>N |                      | <u>cas</u><br>17520-84-(<br>108-65-6 | LIQUID<br>(MIXTURE) | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 16 GAL<br>16 GAL<br>1 GAL<br>0 GAL<br>365<br>N/A | #Error                | pres: AMB<br>temp: AMB   | #Error             |

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| Date: 01/1<br>Business No                     |                      | lips Lumileds                           |                                                |                 |                            | MAP ID                 | : Buildin           | g 91 L                                 | ower                                           | 0                     | e: 35 of 84<br>lity ID#: |                    |
|-----------------------------------------------|----------------------|-----------------------------------------|------------------------------------------------|-----------------|----------------------------|------------------------|---------------------|----------------------------------------|------------------------------------------------|-----------------------|--------------------------|--------------------|
| DOT<br>HAZ CLASS                              | Location             | CHEMICAL NAME<br>(COMMON NAME)          | HAZARDOU                                       | S COM           | IPON                       | ENTS                   | PHYSICAL<br>STATE   | QUAN                                   | TITIES                                         | STORAGE<br>CONTAINERS | STORAGE<br>CODES         | SARA<br>CATEGORIES |
| 3: FLAMMABLE<br>AND<br>COMBUSTIBLE<br>LIQUIDS | Photolitho<br>graphy | n-Butyl Acetate<br>()<br>CAS#: 123-86-4 | <u>name</u><br>n-butyl acetate                 | <u>ehs</u><br>N | <u>%</u><br>100            | <u>cas</u><br>123-86-4 | LIQUID<br>(PURE)    | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 6 GAL<br>6 GAL<br>2 GAL<br>0 GAL<br>365<br>N/A | #Error                | pres: AMB<br>temp: AMB   | #Error             |
| 3: FLAMMABLE<br>AND<br>COMBUSTIBLE<br>LIQUIDS | Photolitho<br>graphy | NR7 3000P<br>()<br>CAS#: NONE           | name<br>cyclohexanone<br>resins<br>sensitizers | ehs<br>N        | 26<br>NA<br>NA<br>NA       | <u>cas</u><br>108-94-1 | LIQUID<br>(MIXTURE) | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 4 GAL<br>4 GAL<br>2 GAL<br>0 GAL<br>365<br>N/A | #Error                | pres: AMB<br>temp: AMB   | #Error             |
| 3: FLAMMABLE<br>AND<br>COMBUSTIBLE<br>LIQUIDS | Photolitho<br>graphy | NR7 6000p<br>()<br>CAS#: NONE           | name<br>cyclohexanone<br>resins<br>sensitizers | <u>ehs</u><br>N | MA<br>NA<br>NA             | <u>cas</u><br>108-94-1 | LIQUID<br>(MIXTURE) | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 4 GAL<br>4 GAL<br>2 GAL<br>0 GAL<br>365<br>N/A | #Error                | pres: AMB<br>temp: AMB   | #Error             |
| 3: FLAMMABLE<br>AND<br>COMBUSTIBLE<br>LIQUIDS | Photolitho<br>graphy | NR7 6000py<br>()<br>CAS#: NONE          | name<br>cyclohexanone<br>resins<br>sensitizers | ehs<br>N        | 26<br>NA<br>NA<br>NA       | <u>cas</u><br>108-94-1 | LIQUID<br>(MIXTURE) | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 4 GAL<br>4 GAL<br>2 GAL<br>0 GAL<br>365<br>N/A | #Error                | pres: AMB<br>temp: AMB   | #Error             |
| B: FLAMMABLE<br>AND<br>COMBUSTIBLE<br>IQUIDS  | Photolitho<br>graphy | NR9 3000PY<br>()<br>CAS#: NONE          | name<br>cyclohexanone<br>resins<br>sensitizers | <u>ehs</u><br>N | <u>%</u><br>NA<br>NA<br>NA | <u>cas</u><br>108-94-1 | LIQUID<br>(MIXTURE) | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 4 GAL<br>4 GAL<br>2 GAL<br>0 GAL<br>365<br>N/A | #Error                | pres: AMB<br>temp: AMB   | #Error             |

| Date: 01/13<br>Business Na                    |                      | lips Lumileds                                  |                                                                            |                           |                     | MAP II                                          | ): Buildin          | g 91                                   | Lower                                          |                       | e: 36 of 84<br>lity ID#: |                    |
|-----------------------------------------------|----------------------|------------------------------------------------|----------------------------------------------------------------------------|---------------------------|---------------------|-------------------------------------------------|---------------------|----------------------------------------|------------------------------------------------|-----------------------|--------------------------|--------------------|
| DOT<br>HAZ CLASS                              | Location             | CHEMICAL NAME<br>(COMMON NAME)                 | HAZARDOU                                                                   | s co                      | MPON                | ENTS                                            | PHYSICAL<br>STATE   | QUA                                    | NTITIES                                        | STORAGE<br>CONTAINERS | STORAGE<br>CODES         | SARA<br>CATEGORIES |
| 3: FLAMMABLE<br>AND<br>COMBUSTIBLE<br>LIQUIDS | Photolitho<br>graphy | OCG Rinse<br>()<br>CAS#: 123-86-4              | <u>name</u><br>n-butyl acetate                                             | <u>ehs</u><br>N           | <u>%</u><br>100     | <u>cas</u><br>123-86-4                          | LIQUID<br>(PURE)    | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 4 GAL<br>2 GAL<br>0 GAL                        | #Error                | pres: AMB<br>temp: AMB   | #Error             |
| 8: CORROSIVES                                 | Photolitho<br>graphy | Resist Developer RD6<br>()<br>CAS#: NONE       | name<br>tetramethylammo<br>nium hydroxide<br>water                         | <u>ehs</u><br>N<br>N      | <u>%</u><br>3<br>97 | <u>cas</u><br>75-59-2<br>7732-18-5              | LIQUID<br>(MIXTURE) | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 4 GAL<br>2 GAL<br>0 GAL                        | #Error                | pres: AMB<br>temp: AMB   | #Error             |
| NONE                                          | Photolitho<br>graphy | Resist Remover RR41<br>()<br>CAS#: NONE        | name<br>dimethyl<br>sulfoxide                                              | <u>ehs</u><br>N           | <u>%</u>            | <u>cas</u><br>67-68-5                           | LIQUID<br>(MIXTURE) | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 4 GAL<br>4 GAL<br>2 GAL<br>0 GAL<br>365<br>N/A | #Error                | pres: AMB<br>temp: AMB   | #Error             |
| 8: CORROSIVES                                 | Photolitho<br>graphy | Resist Remover RR5<br>()<br>CAS#: NONE         | name<br>dimethyl<br>gluterate<br>dimethyl adipate<br>dimethyl<br>succinate | <u>ehs</u><br>N<br>n<br>N |                     | <u>cas</u><br>1119-40-0<br>627-93-0<br>106-65-0 | LIQUID<br>(MIXTURE) | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 4 GAL<br>4 GAL<br>2 GAL<br>0 GAL<br>395<br>N/A | #Error                | pres: AMB<br>temp: AMB   | #Error             |
| 3: FLAMMABLE<br>AND<br>COMBUSTIBLE<br>LIQUIDS | Photolitho<br>graphy | Waste flammable<br>liquids<br>()<br>CAS#: NONE | name<br>waste flammable<br>liquids                                         | <u>ehs</u><br>N           | <u>%</u><br>100     | cas                                             | LIQUID<br>(MIXTURE) | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 5 GAL<br>5 GAL<br>5 GAL<br>0 GAL<br>365<br>N/A | #Error                | pres: AMB<br>temp: AMB   | #Error             |

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| Date: 01/1:<br>Business Na                    | DOT CHEMICAL NAM     |                                                                          |                                              |                      |                                  | MAP ID                             | : Buildin           | g 91 L                                 | ower                                                     | 0                     | e: 37 of 84<br>lity ID#: |                    |
|-----------------------------------------------|----------------------|--------------------------------------------------------------------------|----------------------------------------------|----------------------|----------------------------------|------------------------------------|---------------------|----------------------------------------|----------------------------------------------------------|-----------------------|--------------------------|--------------------|
| DOT<br>HAZ CLASS                              | Location             | CHEMICAL NAME<br>(COMMON NAME)                                           | HAZARDOU                                     | IS COM               | IPON                             | ENTS                               | PHYSICAL<br>STATE   | QUAN                                   | TITIES                                                   | STORAGE<br>CONTAINERS | STORAGE<br>CODES         | SARA<br>CATEGORIES |
| 3: FLAMMABLE<br>AND<br>COMBUSTIBLE<br>LIQUIDS | Photolitho<br>graphy | WNRD Negative<br>Resist<br>Developer,VBF A III<br>()<br>CAS#: 64742-48-9 | name<br>isoparaffinic<br>hydrocarbon         | <u>ehs</u><br>N      | <u>%</u><br>100                  | <u>cas</u><br>64742-48-9           | LIQUID<br>(MIXTURE) | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 6 GAL<br>6 GAL<br>3 GAL<br>0 GAL<br>365<br>N/A           | #Error                | pres: AMB<br>temp: AMB   | #Error             |
| 3: FLAMMABLE<br>AND<br>COMBUSTIBLE<br>LIQUIDS | Photolitho<br>graphy | Xylene<br>()<br>CAS#: 1330-20-7                                          | <u>name</u><br>xylene                        | <u>ehs</u><br>N      | <u>%</u><br>100                  | <u>cas</u><br>1330-20-7            | LIQUID<br>(PURE)    | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 2 GAL<br>2 GAL<br>1 GAL<br>0 GAL<br>365<br>N/A           | #Error                | pres: AMB<br>temp: AMB   | #Error             |
| 2.2:<br>NONFLAMMABL<br>E GASES                | Quality<br>Control   | Carbon Dioxide<br>()<br>CAS#: 124-38-9                                   | name<br>carbon dioxide                       | <u>ehs</u><br>N      | <u>%</u><br>100                  | <u>cas</u><br>124-38-9             | GAS<br>(PURE)       | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 341 CUFT<br>341 CUFT<br>341 CUFT<br>0 CUFT<br>365<br>N/A | #Error                | pres: AMB<br>temp: AMB   | #Error             |
| 9: MISC<br>HAZARDOUS<br>MATERIAL              | Quality<br>Control   | Waste Wafer Scrap<br>()<br>CAS#: NONE                                    | name<br>gaas wafers<br>gan<br>gap<br>alingap | <u>ehs</u><br>N      | <u>%</u><br>10<br>40<br>30<br>20 | <u>cas</u>                         | SOLID<br>(MIXTURE)  | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 50 LBS<br>25 LBS<br>50 LBS<br>0 LBS<br>365<br>N/A        | #Error                | pres: AMB<br>temp: AMB   | #Error             |
| : CORROSIVES                                  | Thinning             | Acetic Acid<br>()<br>CAS#: 64-19-7                                       | name<br>acetic acid<br>water                 | <u>ehs</u><br>N<br>N | <u>%</u><br>90<br>10             | <u>cas</u><br>64-19-7<br>7732-18-5 | LIQUID<br>(PURE)    | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 5 GAL<br>5 GAL<br>1 GAL<br>0 GAL<br>365<br>N/A           | #Error                | pres: AMB<br>temp: AMB   | #Error             |

| Date: 01/1<br>Business No                     |          | lips Lumileds                            |                                                                         |                      |                     | MAP ID                                | Buildin             | g 91 l                                 | Lower                                            |                       | e: 38 of 84<br>ility ID#: |                    |
|-----------------------------------------------|----------|------------------------------------------|-------------------------------------------------------------------------|----------------------|---------------------|---------------------------------------|---------------------|----------------------------------------|--------------------------------------------------|-----------------------|---------------------------|--------------------|
| DOT<br>HAZ CLASS                              | Location | CHEMICAL NAME<br>(COMMON NAME)           | HAZARDOU                                                                | S COM                | IPON                | ENTS                                  | PHYSICAL<br>STATE   | QUAN                                   | <b>NTITIES</b>                                   | STORAGE<br>CONTAINERS | STORAGE<br>CODES          | SARA<br>CATEGORIES |
| 3: FLAMMABLE<br>AND<br>COMBUSTIBLE<br>LIQUIDS | Thinning | Acetone<br>()<br>CAS#: 67-64-1           | name<br>acetone                                                         | <u>ehs</u><br>N      | <u>%</u><br>100     | <u>cas</u><br>67-64-1                 | LIQUID<br>(PURE)    | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 2 GAL<br>2 GAL<br>1 GAL<br>0 GAL<br>365<br>N/A   | #Error                | pres: AMB<br>temp: AMB    | #Error             |
| NONE                                          | Thinning | Bayowet FT-248-R<br>()<br>CAS#: NONE     | name<br>tetraethyl<br>ammonium<br>perfluorooctane<br>sulfonate<br>water | <u>ehs</u><br>N      |                     | <u>cas</u><br>56773-42-3<br>7732-18-5 | LIQUID<br>(MIXTURE) | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 30 GAL<br>30 GAL<br>5 GAL<br>0 GAL<br>365<br>N/A | #Error                | pres: AMB<br>temp: AMB    | NONE               |
| NONE                                          | Thinning | Diamond Slurry<br>()<br>CAS#: NONE       | name<br>ethylene glycol<br>silicon dioxide                              | <u>ehs</u><br>N<br>N | <u>%</u><br>95<br>5 | <u>cas</u><br>107-21-1<br>7631-86-9   | LIQUID<br>(PURE)    | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 30 GAL<br>30 GAL<br>5 GAL<br>0 GAL<br>365<br>N/A | #Error                | pres: AMB<br>temp: AMB    | NONE               |
| B: FLAMMABLE<br>AND<br>COMBUSTIBLE<br>LIQUIDS | Thinning | Isopropyl Alcohol<br>()<br>CAS#: 67-63-0 | name<br>isopropyl alcohol                                               | <u>ehs</u><br>N      | <u>%</u><br>100     | <u>cas</u><br>67-63-0                 | LIQUID<br>(PURE)    | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 15 GAL<br>15 GAL<br>1 GAL<br>0 GAL<br>365<br>N/A | #Error                | pres: AMB<br>temp: AMB    | #Error             |

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| Date: 01/13<br>Business Na |          | lips Lumileds                                                               |                                                                                                 |                           |         |                                                               |                     |                                        |                                                   |                       | e: 39 of 84<br>lity ID#: |                    |
|----------------------------|----------|-----------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|---------------------------|---------|---------------------------------------------------------------|---------------------|----------------------------------------|---------------------------------------------------|-----------------------|--------------------------|--------------------|
| DOT<br>HAZ CLASS           | Location | CHEMICAL NAME<br>(COMMON NAME)                                              | HAZARDOUS                                                                                       | 5 CO.                     | MPON    | ENTS                                                          | PHYSICAL<br>STATE   | QUAN                                   | TITIES                                            | STORAGE<br>CONTAINERS | STORAGE<br>CODES         | SARA<br>CATEGORIES |
| 8: CORROSIVES              | Thinning | Nophenol EKC 922<br>()<br>CAS#: NONE                                        | dodecyl benzene<br>sulfonic acid<br>heavy aromatic<br>solvent naptha<br>catechol<br>naphthalene | <u>ehs</u><br>N<br>N<br>N | NA      | <u>cas</u><br>27176-87-0<br>64742-94-5<br>120-80-9<br>91-20-3 | LIQUID<br>(MIXTURE) | AVG<br>LC<br>WST                       | 9 GAL<br>9 GAL<br>1 GAL<br>0 GAL<br>365<br>N/A    | #Error                | pres: AMB<br>temp: AMB   | #Error             |
| 8: CORROSIVES              | Thinning | Phosphoric Acid, 80%<br>()<br>CAS#: 7664-38-2                               | name<br>phosphoric acid<br>water                                                                | <u>ehs</u><br>N<br>N      |         | <u>cas</u><br>7664-38-2<br>7732-18-5                          | LIQUID<br>(PURE)    | AVG<br>LC<br>WST                       | 1 GAL<br>1 GAL<br>1 GAL<br>0 GAL<br>365<br>N/A    | #Error                | pres: AMB<br>temp: AMB   | #Error             |
| 8: CORROSIVES              | Thinning | RR5<br>()<br>CAS#: NONE                                                     | name<br>dimethyl<br>gluterate<br>dimethyl adipate<br>dimethyl<br>succinate                      | <u>ehs</u><br>N<br>n<br>N |         | <u>cas</u><br>-1119-40-0<br>- 627-93-0<br>- 106-65-0          | LIQUID<br>(MIXTURE) | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 9 GAL<br>9 GAL<br>1 GAL<br>0 GAL<br>395<br>N/A    | #Error                | pres: AMB<br>temp: AMB   | #Error             |
| NONE                       | Thinning | Syton HT50, 1B761H<br>(Lapping Slurry)<br>CAS#: NONE                        | amorphous silica<br>titratable alkali<br>(as na2o)<br>water                                     |                           | 0.2 - 0 | <u>cas</u><br>07631-86-9<br>.3313-59-3<br>07732-18-5          | LIQUID<br>(PURE)    | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 55 GAL<br>55 GAL<br>55 GAL<br>0 GAL<br>365<br>N/A | #Error                | pres: AMB<br>temp: AMB   | #Error             |
| NONE                       | Thinning | Water Based Premix<br>Slurry (Boron Carbide<br>Mixture)<br>()<br>CAS#: NONE | <u>name</u><br>boron carbide<br>water                                                           | <u>ehs</u><br>N<br>N      |         | <u>cas</u><br>12069-32-8<br>7732-18-5                         | LIQUID<br>(MIXTURE) | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 10 GAL<br>10 GAL<br>5 GAL<br>0 GAL<br>365<br>N/A  | #Error                | pres: AMB<br>temp: AMB   | NONE               |

| Date: 01/1:<br>Business Na                    | Contraction of the second | lips Lumileds                                       |                                       |                      |                      | MAP IL                                | : Buildin           | g 91 i                                 | Lower                                                |                                     | e: 40 of 84<br>lity ID#: |                    |
|-----------------------------------------------|---------------------------|-----------------------------------------------------|---------------------------------------|----------------------|----------------------|---------------------------------------|---------------------|----------------------------------------|------------------------------------------------------|-------------------------------------|--------------------------|--------------------|
| DOT<br>HAZ CLASS                              | Location                  | CHEMICAL NAME<br>(COMMON NAME)                      | HAZARDO                               | ous com              | IPON                 | ENTS                                  | PHYSICAL<br>STATE   | QUAI                                   | NTITIES                                              | STORAG <mark>E</mark><br>CONTAINERS | STORAGE<br>CODES         | SARA<br>CATEGORIES |
| 3: Flammable<br>and<br>combustible<br>Liquids | Wafer Fab                 | 1-methyl 2-pyrrolidone<br>()<br>CAS#: 872-50-4      | hame<br>1-methyl 2-<br>pyrrolidone    | <u>ehs</u><br>N      | <u>%</u><br>100      | <u>cas</u><br>872-50-4                | LIQUID<br>(PURE)    | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 1 GAL<br>1 GAL<br>1 GAL<br>0 GAL<br>365<br>N/A       | #Error                              | pres: AMB<br>temp: AMB   | #Error             |
| 8: CORROSIVES                                 | Wafer Fab                 | Acetic Acid<br>()<br>CAS#: 64-19-7                  | name<br>acetic acid<br>water          | <u>ehs</u><br>N<br>N | <u>%</u><br>90<br>10 | <u>cas</u><br>64-19-7<br>7732-18-5    | LIQUID<br>(PURE)    | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 8 GAL<br>5 GAL<br>1 GAL<br>0 GAL<br>365<br>N/A       | #Error                              | pres: AMB<br>temp: AMB   | #Error             |
| 3: FLAMMABLE<br>AND<br>COMBUSTIBLE<br>LIQUIDS | Wafer Fab                 | Acetone<br>()<br>CAS#: 67-64-1                      | name<br>acetone                       | <u>ehs</u><br>N      | <u>%</u><br>100      | <u>cas</u><br>67-64-1                 | LIQUID<br>(PURE)    | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 24 GAL<br>24 GAL<br>1 GAL<br>0 GAL<br>365<br>N/A     | #Error                              | pres: AMB<br>temp: AMB   | #Error             |
| 3: FLAMMABLE<br>AND<br>COMBUSTIBLE<br>LIQUIDS | Wafer Fab                 | Adhesion Promoter<br>()<br>CAS#: 999-97-3           | name<br>hexamethyl<br>disilazane      | <u>ehs</u><br>N      | <u>%</u><br>100      | <u>cas</u><br>999-97-3                | LIQUID<br>(MIXTURE) | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 1 GAL<br>0.5 GAL<br>0.125 GAL<br>0 GAL<br>365<br>N/A | #Error                              | pres: AMB<br>temp: AMB   | #Error             |
| 5.1: TOXIC<br>SUBSTANCES                      | Wafer Fab                 | Ammonium Fluoride,<br>41%<br>()<br>CAS#: 12125-01-8 | name<br>ammonium<br>fluoride<br>water | <u>ehs</u><br>N<br>N |                      | <u>cas</u><br>12125-01-8<br>7732-18-5 | LIQUID<br>(PURE)    | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 6 GAL<br>6 GAL<br>1 GAL<br>0 GAL<br>365<br>N/A       | #Error                              | pres: AMB<br>temp: AMB   | #Error             |

1

| Date: 01/13<br>Business Na                    |           | lips Lumileds                                      |                                                                      |                      |                      | MAP IL                               | : Buildin           | g 91 l                                 | ower                                                     |                       | e: 41 of 84<br>lity ID#: |                    |
|-----------------------------------------------|-----------|----------------------------------------------------|----------------------------------------------------------------------|----------------------|----------------------|--------------------------------------|---------------------|----------------------------------------|----------------------------------------------------------|-----------------------|--------------------------|--------------------|
| DOT<br>HAZ CLASS                              | Location  | CHEMICAL NAME<br>(COMMON NAME)                     | HAZARDOU                                                             | S COM                | PON                  | ENTS                                 | PHYSICAL<br>STATE   | QUAN                                   | TITIES                                                   | STORAGE<br>CONTAINERS | STORAGE<br>CODES         | SARA<br>CATEGORIES |
| 8: CORROSIVES                                 | Wafer Fab | Ammonium<br>Hydroxide 30%<br>()<br>CAS#: 1336-21-6 | name<br>ammonium<br>hydroxide<br>water                               | ehs<br>N<br>N        |                      | <u>cus</u><br>1336-21-6<br>7732-18-5 | LIQUID<br>(PURE)    | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 36 GAL<br>36 GAL<br>1 GAL<br>0 GAL<br>365<br>N/A         | #Error                | pres: AMB<br>temp: AMB   | #Error             |
| 2.2:<br>NONFLAMMABL<br>E GASES                | Wafer Fab | Argon<br>()<br>CAS#: 7440-37-1                     | <u>name</u><br>argon                                                 | <u>ehs</u><br>N      | <u>%</u><br>100      | <u>cas</u><br>7440-37-1              | GAS<br>(PURE)       | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 840 CUFT<br>840 CUFT<br>280 CUFT<br>0 CUFT<br>365<br>N/A | #Error                | pres: > AMB<br>temp: AMB | #Error             |
| 8: CORROSIVES                                 | Wafer Fab | AZ 3:2 developer<br>() WIGC.<br>CAS#: NONE         | name<br>sodium<br>metasilicate<br>water                              | <u>ehs</u><br>N<br>N |                      | <u>cas</u><br>6834-92-0<br>7732-18-5 | LIQUID<br>(MIXTURE) | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 24 GAL<br>24 GAL<br>1 GAL<br>0 GAL<br>365<br>N/A         | #Error                | pres: AMB<br>temp: AMB   | #Error             |
| 8: CORROSIVES                                 | Wafer Fab | AZ 300 MIF<br>Developer<br>()<br>CAS#: NONE        | name<br>tetramethyl<br>ammonium<br>hydroxide<br>water                | <u>ehs</u><br>N<br>N | <u>%</u><br>2<br>98  | <u>cas</u><br>75-59-2<br>7732-18-5   | LIQUID<br>(MIXTURE) | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 8 GAL<br>8 GAL<br>1 GAL<br>0 GAL<br>365<br>N/A           | #Error                | pres: AMB<br>temp: AMB   | #Error             |
| 3: FLAMMABLE<br>AND<br>COMBUSTIBLE<br>LIQUIDS | Wafer Fab | AZ EBR 70/30<br>()<br>CAS#: NONE                   | name<br>1-methoxy-2-<br>propanol<br>1-methoxy-2-<br>propanol acetate | <u>ehs</u><br>N      | <u>%</u><br>70<br>30 | <u>cas</u><br>107-98-2<br>108-65-6   | LIQUID<br>(MIXTURE) | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 8 GAL<br>8 GAL<br>1 GAL<br>0 GAL<br>365<br>N/A           | #Error                | pres: AMB<br>temp: AMB   | #Error             |

| Date: 01/1:<br>Business Na                    |           | lips Lumileds                                         |                                                                       |                      |                 | MAP ID                                          | : Buildin           | g 91 l                                 | Lower                                                      |                       | e: 42 of<br>lity ID#: |                    |
|-----------------------------------------------|-----------|-------------------------------------------------------|-----------------------------------------------------------------------|----------------------|-----------------|-------------------------------------------------|---------------------|----------------------------------------|------------------------------------------------------------|-----------------------|-----------------------|--------------------|
| DOT<br>HAZ CLASS                              | Location  | CHEMICAL NAME<br>(COMMON NAME)                        | HAZARDOU                                                              | S COM                | IPON            | ENTS                                            | PHYSICAL<br>STATE   | QUA                                    | NTITIES                                                    | STORAGE<br>CONTAINERS | STORA<br>CODE         | SARA<br>CATEGORIES |
| 2.3: TOXIC<br>GASES                           | Wafer Fab | Boron Trichloride<br>()<br>CAS#: 10294-34-5           | <u>name</u><br>boron trichloride                                      | ehs<br>N             | <u>%</u><br>100 | <u>cas</u><br>10294-34-5                        | GAS<br>(PURE)       | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 330 CUFT<br>330 CUFT<br>330 CUFT<br>0 CUFT<br>365<br>N/A   | #Error                | pres: ><br>temp: A    | #Error             |
| 5.1: OXIDIZING<br>SUBSTANCES                  | Wafer Fab | C-35 Gold Etch<br>(Film Gold Etch)<br>CAS#: NONE      | name<br>iodine<br>potassium iodide                                    | <u>ehs</u><br>N<br>N |                 | <u>cas</u><br>7553-56-2<br>7681-11-0            | SOLID<br>(MIXTURE)  | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 42 Lbs<br>41 Lbs<br>0.25 Lbs<br>0 Lbs<br>365<br>N/A        | #Error                | pres: Al<br>temp: Al  | #Error             |
| 2.2:<br>NONFLAMMABL<br>E GASES                | Wafer Fab | Carbon Dioxide<br>(Fire Supression)<br>CAS#: 124-38-9 | name<br>carbon dioxide                                                | <u>ehs</u><br>N      | <u>%</u><br>100 | <u>cas</u><br>124-38-9                          | GAS<br>(PURE)       | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 4426 CUFT<br>4426 CUFT<br>880 CUFT<br>0 CUFT<br>365<br>N/A | #Error                | pres: ><br>temp: Al   | #Error             |
| 8: CORROSIVES                                 | Wafer Fab | EKC 265 Photoresist<br>Stripper<br>()<br>CAS#: NONE   | name<br>2-(2-<br>aminoethoxy)<br>ethanol<br>catechol<br>hydroxylamine | <u>ehs</u><br>N<br>N |                 | <u>cas</u><br>929-06-6<br>120-80-9<br>7803-49-8 | LIQUID<br>(MIXTURE) | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 18 GAL<br>18 GAL<br>1 GAL<br>N/A<br>365<br>N/A             | #Error                | pres: Al<br>temp: Al  | #Error             |
| 3: FLAMMABLE<br>AND<br>COMBUSTIBLE<br>LIQUIDS | Wafer Fab | Ethyl Alcohol<br>()<br>CAS#: 64-17-5                  | name<br>ethyl alcohol                                                 | ehs<br>N             | <u>%</u><br>100 | <u>cas</u><br>64-17-5                           | LIQUID<br>(PURE)    | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 2 GAL<br>2 GAL<br>1 GAL<br>0 GAL<br>365<br>N/A             | #Error                | pres: Al<br>temp: Al  | #Error             |

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| Date: 01/1:<br>Business Na     |           | ips Lumileds                                      |                                              |                      | 1                 | MAP ID                               | : Buildin         | g 91 L                                 | .ower                                                      |                       | e: 43 of<br>lity ID# |                    |
|--------------------------------|-----------|---------------------------------------------------|----------------------------------------------|----------------------|-------------------|--------------------------------------|-------------------|----------------------------------------|------------------------------------------------------------|-----------------------|----------------------|--------------------|
| DOT<br>HAZ CLASS               | Location  | CHEMICAL NAME<br>(COMMON NAME)                    | HAZARDOUS                                    | S COM                | PONI              | ENTS                                 | PHYSICAL<br>STATE | QUAN                                   | TITIES                                                     | STORAGE<br>CONTAINERS | STOR<br>COL          | SARA<br>CATEGORIES |
| NONE                           | Wafer Fab | Fomblin Oil<br>()<br>CAS#: 69991-67-9             | <u>name</u><br>fomblin oil                   | ehs<br>N             | <u>%</u><br>100 6 | <u>cas</u><br>9991-67-9              | LIQUID<br>(PURE)  | AVG<br>LC                              | 1 GAL<br>1 GAL<br>0.5 GAL<br>0 GAL<br>365<br>N/A           | #Error                | pres:<br>temp:       | NONE               |
| 2.2:<br>NONFLAMMABL<br>E GASES | Wafer Fab | Helium<br>()<br>CAS#: 7440-59-7                   | <u>name</u><br>helium                        | <u>ehs</u><br>N      | <u>%</u><br>100 7 | <u>cas</u><br>7440-59-7              | GAS<br>(PURE)     | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 1220 CUFT<br>1220 CUFT<br>244 CUFT<br>0 CUFT<br>365<br>N/A | #Error                | pres:<br>temp:       | #Error             |
| 8: CORROSIVES                  | Wafer Fab | Hydrochloric Acid<br>38%<br>()<br>CAS#: 7647-01-0 | name<br>hydrochloric acid<br>water           | ehs<br>N<br>N        |                   | <u>cas</u><br>7647-01-0<br>7732-18-5 | LIQUID<br>(PURE)  | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 18 GAL<br>18 GAL<br>1 GAL<br>0 GAL<br>365<br>N/A           | #Error                | pres:<br>temp:       | #Error             |
| 8: CORROSIVES                  | Wafer Fab | Hydrofluoric Acid 49%<br>()<br>CAS#: 7664-39-3    | name<br>hydrofluoric acid<br>water           | ehs<br>Y<br>N        |                   | <u>cas</u><br>7664-39-3<br>7732-18-5 | LIQUID<br>(PURE)  | AVG<br>LC                              | 18 GAL<br>18 GAL<br>1 GAL<br>0 GAL<br>365<br>N/A           | #Error                | pres:<br>temp:       | #Error             |
| 5.1: OXIDIZING<br>SUBSTANCES   | Wafer Fab | Hydrogen Peroxide<br>30%<br>()<br>CAS#: 7722-84-1 | <u>name</u><br>hydrogen<br>peroxide<br>water | <u>ehs</u><br>N<br>N |                   | <u>cas</u><br>7722-84-1<br>7732-18-5 | LIQUID<br>(PURE)  | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 36 GAL<br>36 GAL<br>1 GAL<br>0 GAL<br>365<br>N/A           | #Error                | pres:<br>temp:       | #Error             |

| Date: 01/1:<br>Business Na                    |           | lips Lumileds                            |                                                       |                 |                 | MAP II                               | : Buildin           | g 91 .                                 | Lower                                                    |                       | e: 44 of 84<br>lity ID#: |                    |
|-----------------------------------------------|-----------|------------------------------------------|-------------------------------------------------------|-----------------|-----------------|--------------------------------------|---------------------|----------------------------------------|----------------------------------------------------------|-----------------------|--------------------------|--------------------|
| DOT<br>HAZ CLASS                              | Location  | CHEMICAL NAME<br>(COMMON NAME)           | HAZARDOU                                              | s col           | MPON            | ENTS                                 | PHYSICAL<br>STATE   | QUA                                    | NTITIES                                                  | STORAGE<br>CONTAINERS | STORAGE<br>CODES         | SARA<br>CATEGORIES |
| 3: FLAMMABLE<br>AND<br>COMBUSTIBLE<br>LIQUIDS | Wafer Fab | Isopropyl Alcohol<br>()<br>CAS#: 67-63-0 | <u>name</u><br>isopropyl alcohol                      | ehs<br>N        | <u>%</u><br>100 | <u>cas</u><br>67-63-0                | LIQUID<br>(PURE)    | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 35 GAL<br>35 GAL<br>1 GAL<br>0 GAL<br>365<br>N/A         | #Error                | pres: AMB<br>temp: AMB   | #Error             |
| 2.3: TOXIC<br>GASES                           | Wafer Fab | Laser Gas Mix<br>()<br>CAS#: NONE        | <u>name</u><br>fluorine<br>helium                     | ehs<br>Y<br>N   |                 | <u>cas</u><br>7782-41-4<br>7440-59-7 | GAS<br>(MIXTURE)    | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 177 CUFT<br>177 CUFT<br>177 CUFT<br>0 CUFT<br>365<br>N/A | #Error                | pres: > AMB<br>temp: AMB | #Error             |
| 2.3: TOXIC<br>GASES                           | Wafer Fab | Laser Gas Mix<br>()<br>CAS#: NONE        | <u>name</u><br>fluorine<br>helium                     | ehs<br>Y<br>N   |                 | <u>cas</u><br>7782-41-4<br>7440-59-7 | GAS<br>(MIXTURE)    | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 177 CUFT<br>177 CUFT<br>177 CUFT<br>0 CUFT<br>365<br>N/A | #Error                | pres: > AMB<br>temp: AMB | #Error             |
| 8: CORROSIVES                                 | Wafer Fab | MA-D 532S Developer<br>()<br>CAS#: NONE  | name<br>tetramethyl<br>ammonium<br>hydroxide<br>water | <u>ehs</u><br>N |                 | <u>cas</u><br>75-59-2<br>7732-18-5   | LIQUID<br>(MIXTURE) | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 3 GAL<br>3 GAL<br>1 GAL<br>0 GAL<br>365<br>N/A           | #Error                | pres: AMB<br>temp: AMB   | #Error             |
| 3: FLAMMABLE<br>AND<br>COMBUSTIBLE<br>LIQUIDS | Wafer Fab | Methanol<br>()<br>CAS#: 67-56-1          | <u>name</u><br>methanol                               | <u>ehs</u><br>N | <u>%</u><br>100 | <u>cas</u><br>67-56-1                | LIQUID<br>(PURE)    | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 5 GAL<br>5 GAL<br>5 GAL<br>0 GAL<br>365<br>N/A           | #Error                | pres: AMB<br>temp: AMB   | #Error             |

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| Date: 01/1:<br>Business Na                    |           | lips Lumileds                                     |                                                                     |                      | d                    | MAP IL                               | : Buildin           | g 91 l                                 | Lower                                                 |                       | e: 45 of 84<br>lity ID#: |                    |
|-----------------------------------------------|-----------|---------------------------------------------------|---------------------------------------------------------------------|----------------------|----------------------|--------------------------------------|---------------------|----------------------------------------|-------------------------------------------------------|-----------------------|--------------------------|--------------------|
| DOT<br>HAZ CLASS                              | Location  | CHEMICAL NAME<br>(COMMON NAME)                    | HAZARDOU                                                            | s co                 | MPON                 | ENTS                                 | PHYSICAL<br>STATE   | QUAN                                   | NTITIES                                               | STORAGE<br>CONTAINERS | STORAGE<br>CODES         | SARA<br>CATEGORIES |
| NONE                                          | Wafer Fab | Microposit Remover<br>1165<br>()<br>CAS#: NONE    | 1-methyl-2-<br>pyrrolidinone<br>pyrrolidone<br>compound             | <u>ehs</u><br>N<br>N | <u>%</u><br>95<br>95 | <u>cas</u><br>872-50-4               | LIQUID<br>(MIXTURE) | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 2 GAL<br>2 GAL<br>1 GAL<br>0 GAL<br>365<br>N/A        | #Error                | pres: AMB<br>temp: AMB   | #Error             |
| 8: CORROSIVES                                 | Wafer Fab | Microstrip 2001<br>()<br>CAS#: NONE               | <u>name</u><br>2-(2-<br>aminoethoxy)<br>சுரின்ற்/-2-<br>pyrrolidone | <u>ehs</u><br>N<br>n | <u>%</u><br>50<br>50 | <u>cas</u><br>929-06-6<br>872-50-4   | LIQUID<br>(MIXTURE) | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 1 GAL<br>1 GAL<br>1 GAL<br>0 GAL<br>365<br>N/A        | #Error                | pres: AMB<br>temp: AMB   | #Error             |
| 3: FLAMMABLE<br>AND<br>COMBUSTIBLE<br>LIQUIDS | Wafer Fab | Miscellaneous<br>Photoresists<br>()<br>CAS#: NONE | novolak resin<br>propylene glycol<br>monomethyl<br>ether acetate    | <u>ehs</u><br>N<br>N |                      | <u>cas</u><br>17520-84-(<br>108-65-6 | LIQUID<br>(MIXTURE) | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 15 GAL<br>10 GAL<br>1 GAL<br>0 GAL<br>365<br>N/A      | #Error                | pres: AMB<br>temp: AMB   | #Error             |
| 3: FLAMMABLE<br>AND<br>COMBUSTIBLE<br>LIQUIDS | Wafer Fab | n-Butyl Acetate<br>()<br>CAS#: 123-86-4           | name<br>n-butyl acetate                                             | ehs<br>N             | <u>%</u><br>100      | <u>cas</u><br>123-86-4               | LIQUID<br>(PURE)    | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 4 GAL<br>4 GAL<br>1 GAL<br>0 GAL<br>365<br>N/A        | #Error                | pres: AMB<br>temp: AMB   | #Error             |
| 2.2:<br>NONFLAMMABL<br>E GASES                | Wafer Fab | Neon<br>()<br>CAS#: 1/9/7440                      | <u>name</u><br>neon                                                 | <u>ehs</u><br>N      | <u>%</u><br>100      | <u>cus</u><br>1/9/7440               | GAS<br>(PURE)       | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 177 CUFT<br>177 CUFT<br>177 CUFT<br>N/A<br>365<br>N/A | #Error                | pres: > AMB<br>temp: AMB | #Error             |

| Date: 01/1:<br>Business Na     |           | lips Lumileds                            |                                                                                                 |                                |                 | MAP IL                                                        | : Buildin           | g 91 i                                 | Lower                                                      |                       | e: 46 of 84<br>ility ID#: |                    |
|--------------------------------|-----------|------------------------------------------|-------------------------------------------------------------------------------------------------|--------------------------------|-----------------|---------------------------------------------------------------|---------------------|----------------------------------------|------------------------------------------------------------|-----------------------|---------------------------|--------------------|
| DOT<br>HAZ CLASS               | Location  | CHEMICAL NAME<br>(COMMON NAME)           | HAZARDOU                                                                                        | S COM                          | IPON            | ENTS                                                          | PHYSICAL<br>STATE   | QUAI                                   | NTITIES                                                    | STORAGE<br>CONTAINERS | STORAGE<br>CODES          | SARA<br>CATEGORIES |
| 8: CORROSIVES                  | Wafer Fab | Nickel Vanadium Etch<br>()<br>CAS#: NONE | name<br>nitric acid<br>sulfuric acid<br>acetic acid<br>water                                    | ehs<br>N<br>N<br>N<br>N        | 17<br>17        | <u>cas</u><br>7697-37-2<br>7664-93-9<br>64-19-7<br>7732-18-5  | LIQUID<br>(MIXTURE) | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 6 GAL<br>6 GAL<br>1 GAL<br>0 GAL<br>365<br>N/A             | #Error                | pres: AMB<br>temp: AMB    | #Error             |
| 8: CORROSIVES                  | Wafer Fab | Nitric Acid 70%<br>()<br>CAS#: 7697-37-2 | <u>name</u><br>nitric acid<br>water                                                             | ehs<br>Y<br>N                  |                 | <u>cas</u><br>7697-37-2<br>7732-18-5                          | LIQUID<br>(PURE)    | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 15 GAL<br>15 GAL<br>0.58 GAL<br>0 GAL<br>365<br>N/A        | #Error                | pres: AMB<br>temp: AMB    | #Error             |
| 2.2:<br>NONFLAMMABL<br>E GASES | Wafer Fab | Nitrogen<br>()<br>CAS#: 7727-37-9        | <u>name</u><br>nitrogen                                                                         | <u>ehs</u><br>N                | <u>%</u><br>100 | <u>cas</u><br>7727-37-9                                       | GAS<br>(PURE)       | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 1150 CUFT<br>1150 CUFT<br>230 CUFT<br>0 CUFT<br>365<br>N/A | #Error                | pres: > AMB<br>temp: AMB  | #Error             |
| 8: CORROSIVES                  | Wafer Fab | Nophenol EKC 922<br>()<br>CAS#: NONE     | dodecyl benzene<br>sulfonic acid<br>heavy aromatic<br>solvent naptha<br>catechol<br>naphthalene | <u>ehs</u><br>N<br>N<br>N<br>N | NA              | <u>cas</u><br>27176-87-0<br>64742-94-5<br>120-80-9<br>91-20-3 | LIQUID<br>(MIXTURE) | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 20 GAL<br>20 GAL<br>1 GAL<br>0 GAL<br>365<br>N/A           | #Error                | pres: AMB<br>temp: AMB    | #Error             |
| NONE                           | Wafer Fab | Oil<br>()<br>CAS#: NONE                  | name<br>10-30 motor oil                                                                         | <u>ehs</u><br>N                | <u>%</u><br>100 | <u>cas</u>                                                    | LIQUID<br>(PURE)    | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 5 GAL<br>5 GAL<br>1 GAL<br>0 GAL<br>365<br>N/A             | #Error                | pres: AMB<br>temp: AMB    | NONE               |

| Date: 01/13<br>Business Na     |           | ips Lumileds                                            |                                                    |                      |                     | MAP ID                               | : Buildin           | g 91 l                                 | Lower                                                    |                       | e: 47 of 84<br>lity ID#: |                    |
|--------------------------------|-----------|---------------------------------------------------------|----------------------------------------------------|----------------------|---------------------|--------------------------------------|---------------------|----------------------------------------|----------------------------------------------------------|-----------------------|--------------------------|--------------------|
| DOT<br>HAZ CLASS               | Location  | CHEMICAL NAME<br>(COMMON NAME)                          | HAZARDOUS                                          | S COM                | ΙΡΟΝ                | ENTS                                 | PHYSICAL<br>STATE   | QUAN                                   | NTITIES                                                  | STORAGE<br>CONTAINERS | STORAGE<br>CODES         | SARA<br>CATEGORIES |
| 8: CORROSIVES                  | Wafer Fab | OPD 4262 Developer<br>()<br>CAS#: NONE                  | name<br>tetramethylammo<br>nium hydroxide<br>water | <u>ehs</u><br>N<br>N | <u>%</u><br>3<br>97 | <u>cas</u><br>75-59-2<br>7732-18-5   | LIQUID<br>(MIXTURE) | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 2 GAL<br>2 GAL<br>1 GAL<br>0 GAL<br>365<br>N/A           | #Error                | pres: AMB<br>temp: AMB   | #Error             |
| 2.2:<br>NONFLAMMABL<br>E GASES | Wafer Fab | Oxygen<br>()<br>CAS#: 7782-44-7                         | <u>name</u><br>oxygen                              | <u>ehs</u><br>N      | <u>%</u><br>100     | <u>cas</u><br>7782-44-7              | GAS<br>(PURE)       | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 249 CUFT<br>249 CUFT<br>249 CUFT<br>0 CUFT<br>365<br>N/A | #Error                | pres: > AMB<br>temp: AMB | #Error             |
| 8: CORROSIVES                  | Wafer Fab | Phosphoric Acid, 80%<br>()<br>CAS#: 7664-38-2           | <u>name</u><br>phosphoric acid<br>water            | <u>ehs</u><br>N<br>N |                     | <u>cas</u><br>7664-38-2<br>7732-18-5 | LIQUID<br>(PURE)    | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 6 GAL<br>6 GAL<br>1 GAL<br>0 GAL<br>365<br>N/A           | #Error                | pres: AMB<br>temp: AMB   | #Error             |
| 8: CORROSIVES                  | Wafer Fab | Polyalkyl Methacrylate<br>()<br>CAS#: 9011-14-7         | <u>name</u><br>polyalkyl<br>methacrylate           | <u>ehs</u><br>N      | <u>%</u><br>100     | <u>cas</u><br>9011-14-7              | LIQUID<br>(PURE)    | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 0.75 GAL<br>0.25 GAL<br>0 GAL                            | #Error                | pres: AMB<br>temp: AMB   | #Error             |
| 8: CORROSIVES                  | Wafer Fab | Potassium Hydroxide<br>Pellets<br>()<br>CAS#: 1310-58-3 | <u>name</u><br>potassium<br>hydroxide pellets      | ehs<br>N             | <u>%</u><br>100     | <u>cas</u><br>1310-58-3              | SOLID<br>(PURE)     | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 90 LBS<br>60 LBS<br>5 LBS<br>0 LBS<br>365<br>N/A         | #Error                | pres: AMB<br>temp: AMB   | #Error             |

| Date: 01/1:<br>Business Na   |           | lips Lumileds                                                   |                                                                                                                |                      |                      | MAP IL                                        | ): Buildin          | ig 91 i                                | Lower                                              | Page: 48 of 84<br>Facility ID#: |                        |                    |
|------------------------------|-----------|-----------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|----------------------|----------------------|-----------------------------------------------|---------------------|----------------------------------------|----------------------------------------------------|---------------------------------|------------------------|--------------------|
| DOT<br>HAZ CLASS             | Location  | CHEMICAL NAME<br>(COMMON NAME)                                  | HAZARDOUS                                                                                                      | S COM                | IPON                 | ENTS                                          | PHYSICAL<br>STATE   | QUA                                    | NTITIES                                            | STORAGE<br>CONTAINERS           | STORAGE<br>CODES       | SARA<br>CATEGORIES |
| 5.1: OXIDIZING<br>SUBSTANCES | Wafer Fab | Potassium<br>Permanganate<br>()<br>CAS#: 7722-64-7              | <u>name</u><br>potassium<br>permanganate                                                                       | ehs<br>N             | <u>%</u><br>100      | <u>cas</u><br>7722-64-7                       | SOLID<br>(PURE)     | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 20 LBS<br>15 LBS<br>1.1 LBS<br>0 LBS<br>365<br>N/A | #Error                          | pres: AMB<br>temp: AMB | NONE               |
| 5.1: OXIDIZING<br>SUBSTANCES | Wafer Fab | Potassium<br>Permanganate, 1N<br>soln.<br>()<br>CAS#: 7722-64-7 | <u>name</u><br>potassium<br>permanganate<br>water                                                              | <u>ehs</u><br>N<br>N |                      | <u>cas</u><br>7722-64-7<br>7732-18-5          | LIQUID<br>(PURE)    | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 36 GAL<br>36 GAL<br>1 GAL<br>0 GAL<br>365<br>N/A   | #Error                          | pres: AMB<br>temp: AMB | NONE               |
| NONE                         | Wafer Fab | Proprietary<br>phosphorescence<br>compounds<br>()<br>CAS#: NONE | name<br>proprietary<br>phosphorescenc<br>e compounds                                                           | ehs<br>N             | <u>%</u><br>100      | <u>cas</u>                                    | SOLID<br>(MIXTURE)  | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 20 Lbs<br>20 Lbs<br>1 Lbs<br>0 Lbs<br>365<br>N/A   | #Error                          | pres: AMB<br>temp: AMB | NONE               |
| NONE                         | Wafer Fab | PRS 3000<br>()<br>CAS#: NONE                                    | name<br>1-methyl-2-<br>pyrrolidinone<br>thiophene,<br>tetrahydro-, 1,1-<br>dioxide<br>monoisopropanol<br>amine | <u>ehs</u><br>N<br>N | <u>%</u><br>50<br>40 | <u>cas</u><br>872-50-4<br>126-33-0<br>78-96-6 | LIQUID<br>(MIXTURE) | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 15 GAL<br>15 GAL<br>1 GAL<br>0 GAL<br>365<br>N/A   | #Error                          | pres: AMB<br>temp: AMB | #Error             |
| 8: CORROSIVES                | Wafer Fab | Resist Developer RD6<br>()<br>CAS#: NONE                        | name<br>tetramethylammo<br>nium hydroxide<br>water                                                             | <u>ehs</u><br>N<br>N | <u>%</u><br>3<br>97  | <u>cas</u><br>75-59-2<br>7732-18-5            | LIQUID<br>(MIXTURE) | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 10 GAL<br>10 GAL<br>1 GAL<br>0 GAL<br>365<br>N/A   | #Error                          | pres: AMB<br>temp: AMB | #Error             |

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| Date: 01/13<br>Business Na                    |           | ips Lumileds                                      |                                                                            |                           | MAP II                                              | : Buildin           | g 91 l                                 | Lower                                                    | Page<br>Faci          |                          |                    |
|-----------------------------------------------|-----------|---------------------------------------------------|----------------------------------------------------------------------------|---------------------------|-----------------------------------------------------|---------------------|----------------------------------------|----------------------------------------------------------|-----------------------|--------------------------|--------------------|
| DOT<br>HAZ CLASS                              | Location  | CHEMICAL NAME<br>(COMMON NAME)                    | HAZARDOU                                                                   | S COM                     | MPONENTS                                            | PHYSICAL<br>STATE   | QUAN                                   | TITIES                                                   | STORAGE<br>CONTAINERS | STORAGE<br>CODES         | SARA<br>CATEĞORIES |
| 8: CORROSIVES                                 | Wafer Fab | RR5<br>()<br>CAS#: NONE                           | dimethyl<br>gluterate<br>dimethyl adipate<br>dimethyl adipate<br>succinate | <u>ehs</u><br>N<br>n<br>N | <u>% cas</u><br>1119-40-0<br>627-93-0<br>106-65-0   | LIQUID<br>(MIXTURE) | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 6 GAL<br>6 GAL<br>1 GAL<br>0 GAL<br>395<br>N/A           | #Error                | pres: AMB<br>temp: AMB   | #Error             |
| 3: FLAMMABLE<br>AND<br>COMBUSTIBLE<br>LIQUIDS | Wafer Fab | Shellsol<br>(Mineral Spirits)<br>CAS#: NONE       | name<br>naphtha<br>(petroleum,<br>heavy alkylate                           | <u>ehs</u><br>N           | <u>% cax</u><br>100 64741-65-7                      | LIQUID<br>(PURE)    | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 1 GAL<br>1 GAL<br>1 GAL<br>0 GAL<br>365<br>N/A           | #Error                | pres: AMB<br>temp: AMB   | #Error             |
| 8: CORROSIVES                                 | Wafer Fab | Silicon Tetrachloride<br>()<br>CAS#: 10026-04-7   | name<br>silicon<br>tetrachloride                                           | <u>ehs</u><br>N           | <u>% cus</u><br>100 10026-04-7                      | GAS<br>(PURE)       | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 111 CUFT<br>111 CUFT<br>111 CUFT<br>0 CUFT<br>365<br>N/A | #Error                | pres: > AMB<br>temp: AMB | #Error             |
| 8: CORROSIVES                                 | Wafer Fab | Sodium Hydroxide,<br>50%<br>()<br>CAS#: 1310-73-2 | name<br>sodium hydroxide<br>water                                          | ehs<br>N<br>N             | <u>%</u> <u>cas</u><br>50 1310-73-2<br>50 7732-18-5 | LIQUID<br>(PURE)    | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 6 GAL<br>6 GAL<br>1 GAL<br>0 GAL<br>365<br>N/A           | #Error                | pres: AMB<br>temp: AMB   | #Error             |
| 8: CORROSIVES                                 | Wafer Fab | Sulfuric Acid, 81%<br>()<br>CAS#: 7664-93-9       | name<br>sulfuric acid<br>water                                             | ehs<br>Y<br>N             | <u>% cas</u><br>81 7664-93-9<br>19 7732-18-5        | LIQUID<br>(PURE)    | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 18 GAL<br>18 GAL<br>0.5 GAL<br>0 GAL<br>365<br>N/A       | #Error                | pres: AMB<br>temp: AMB   | #Error             |

| Date: 01/1:<br>Business Na                    |           |                                                                          | MA                                           | IP ID                | : Buildin                                                   | g 91 l              | Lower               | Pag<br>Fac                             |                                                    |                       |                          |                    |
|-----------------------------------------------|-----------|--------------------------------------------------------------------------|----------------------------------------------|----------------------|-------------------------------------------------------------|---------------------|---------------------|----------------------------------------|----------------------------------------------------|-----------------------|--------------------------|--------------------|
| DOT<br>HAZ CLASS                              | Location  | CHEMICAL NAME<br>(COMMON NAME)                                           | HAZARDO                                      | US COM               | IPONENT                                                     | rs                  | PHYSICAL<br>STATE   | QUAN                                   | NTITIES                                            | STORAGE<br>CONTAINERS | STORAGE<br>CODES         | SARA<br>CATEGORIES |
| 8: CORROSIVES                                 | Wafer Fab | Sulfuric Acid, 96%<br>()<br>CAS#: 7664-93-9                              | <u>name</u><br>sulfuric acid<br>water        | <u>ehs</u><br>Y<br>N | <u>%</u> <u>c</u><br>96 7664<br>4 7732                      |                     | LIQUID<br>(PURE)    | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 6 GAL<br>6 GAL<br>0.6 GAL<br>0 GAL<br>365<br>N/A   | #Error                | pres: AMB<br>temp: AMB   | #Error             |
| 9: MISC<br>HAZARDOUS<br>MATERIAL              | Wafer Fab | Waste Wafer Scrap<br>()<br>CAS#: NONE                                    | name<br>gaas wafers<br>gan<br>gap<br>alingap | <u>ehs</u><br>N      | %         £           10         40           30         20 | <u>as</u>           | SOLID<br>(MIXTURE)  | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 50 LBS<br>25 LBS<br>50 LBS<br>0 LBS<br>365<br>N/A  | #Error                | pres: AMB<br>temp: AMB   | #Error             |
| 3: FLAMMABLE<br>AND<br>COMBUSTIBLE<br>LIQUIDS | Wafer Fab | WNRD Negative<br>Resist<br>Developer,VBF A III<br>()<br>CAS#: 64742-48-9 | name<br>isoparaffinic<br>hydrocarbon         | <u>ehs</u><br>N      | <u>% c</u><br>100 6474:                                     | <u>as</u><br>2-48-9 | LIQUID<br>(MIXTURE) | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 10 GAL<br>10 GAL<br>1 GAL<br>0 GAL<br>365<br>N/A   | #Error                | pres: AMB<br>temp: AMB   | #Error             |
| 2.2:<br>NONFLAMMABL<br>E GASES                | Wafer Fab | Xenon<br>()<br>CAS#: 7440-63-3                                           | <u>name</u><br>xenon                         | <u>ehs</u><br>N      | <u>% c</u><br>100 7440                                      | <u>as</u><br>)-63-3 | GAS<br>(PURE)       | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 2 CUFT<br>2 CUFT<br>1 CUFT<br>0 CUFT<br>365<br>N/A | #Error                | pres: > AMB<br>temp: AMB | #Error             |
| 3: FLAMMABLE<br>AND<br>COMBUSTIBLE<br>LIQUIDS | Wafer Fab | Xylene<br>()<br>CAS#: 1330-20-7                                          | <u>name</u><br>xylene                        | <u>ehs</u><br>N      | <u>% cu</u><br>100 1330                                     | <u>as</u><br>)-20-7 | LIQUID<br>(PURE)    | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 2 GAL<br>2 GAL<br>1 GAL<br>0 GAL<br>365<br>N/A     | #Error                | pres: AMB<br>temp: AMB   | #Error             |

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| Date: 01/1:<br>Business Na                    |              | ilips Lumileds                                           |                                                  |                      |                          | MAP IL                                            | : Buildin           | g 91 S                                 | Service                                                     |                       | age: 51 of 84<br>acility ID#: |                    |
|-----------------------------------------------|--------------|----------------------------------------------------------|--------------------------------------------------|----------------------|--------------------------|---------------------------------------------------|---------------------|----------------------------------------|-------------------------------------------------------------|-----------------------|-------------------------------|--------------------|
| DOT<br>HAZ CLASS                              | Location     | CHEMICAL NAME<br>(COMMON NAME)                           | HAZARDOU                                         | S COM                | PON                      | ENTS                                              | PHYSICAL<br>STATE   | QUAN                                   | TITIES                                                      | STORAGE<br>CONTAINERS | STORAGE<br>CODES              | SARA<br>CATEGORIES |
| 9: MISC<br>HAZARDOUS<br>MATERIAL              | Bag<br>House | Waste Arsenic<br>contaminated debris<br>()<br>CAS#: NONE | <u>name</u><br>debris<br>arsenic                 | <u>ehs</u><br>N<br>n | <u>%</u><br>99<br>1      | <u>cas</u><br>7440-38-2                           | SOLID<br>(MIXTURE)  | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 200 Lbs<br>100 Lbs<br>100 Lbs<br>0 Lbs<br>365<br>N/A        | #Error                | pres: AMB<br>temp: AMB        | #Error             |
| 9: MISC<br>HAZARDOUS<br>MATERIAL              | Bag<br>House | Waste Baghouse<br>Fillers<br>(25 Yard Bin)<br>CAS#: NONE | name<br>debris<br>arsenic                        | <u>ehs</u><br>N<br>n | <u>%</u><br>99<br>1      | <u>cas</u><br>7440-38-2                           | SOLID<br>(MIXTURE)  | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 7000 Lbs<br>3000 Lbs<br>7000 Lbs<br>60000 Lbs<br>365<br>N/A | #Error                | pres: AMB<br>temp: AMB        | #Error             |
| 8: CORROSIVES                                 | Bag<br>House | Waste Ductwork<br>Condensate<br>()<br>CAS#: NONE         | name<br>phosphoric acid<br>arsenic<br>water      | ehs<br>N<br>N<br>N   | 2                        | <u>cas</u><br>7664-38-2<br>7440-38-2<br>7732-18-5 | LIQUID<br>(MIXTURE) | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 55 GAL<br>55 GAL<br>55 GAL<br>440 GAL<br>365<br>N/A         | #Error                | pres: AMB<br>temp: AMB        | #Error             |
| 3: FLAMMABLE<br>AND<br>COMBUSTIBLE<br>LIQUIDS | Bay 2        | 1-methyl 2-pyrrolidone<br>()<br>CAS#: 872-50-4           | name<br>1-methyl 2-<br>pyrrolidone               | <u>ehs</u><br>N      | <u>%</u><br>100          | <u>cas</u><br>872-50-4                            | LIQUID<br>(PURE)    | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 12 GAL<br>12 GAL<br>1 GAL<br>0 GAL<br>365<br>N/A            | #Error                | pres: AMB<br>temp: AMB        | #Error             |
| 3: FLAMMABLE<br>AND<br>COMBUSTIBLE<br>LIQUIDS | Bay 2        | A962-4 Reagent<br>Alcohol<br>()<br>CAS#: NONE            | name<br>isopropyl alcohol<br>methanol<br>ethanol | <u>ehs</u><br>N<br>N | <u>%</u><br>5<br>5<br>85 | <u>cas</u><br>67-63-0<br>67-56-1<br>64-17-5       | LIQUID<br>(MIXTURE) | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 12 GAL<br>8 GAL<br>1 GAL<br>0 GAL<br>365<br>N/A             | #Error                | pres: AMB<br>temp: AMB        | #Error             |

| Date: 01/1<br>Business No                     | 1000 1 1 0 0 | ilips Lumileds                                 |                                                                                                            |                    |                      | MAP IL                                            | : Buildin           | g 91 .                                 | Service                                               | Page<br>Yard Faci     |                          |                    |
|-----------------------------------------------|--------------|------------------------------------------------|------------------------------------------------------------------------------------------------------------|--------------------|----------------------|---------------------------------------------------|---------------------|----------------------------------------|-------------------------------------------------------|-----------------------|--------------------------|--------------------|
| DOT<br>HAZ CLASS                              | Location     | CHEMICAL NAME<br>(COMMON NAME)                 | HAZARDOU.                                                                                                  | S COM              | IPON                 | ENTS                                              | PHYSICAL<br>STATE   | QUAI                                   | NTITIES                                               | STORAGE<br>CONTAINERS | STORAGE<br>CODES         | SARA<br>CATEGORIES |
| 3: FLAMMABLE<br>AND<br>COMBUSTIBLE<br>LIQUIDS | Bay 2        | Acetone<br>()<br>CAS#: 67-64-1                 | <u>name</u><br>acetone                                                                                     | <u>ehs</u><br>N    | <u>%</u><br>100      | <u>cas</u><br>67-64-1                             | LIQUID<br>(PURE)    | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 432 GAL<br>288 GAL<br>1 GAL<br>0 GAL<br>365<br>N/A    | #Error                | pres: AMB<br>temp: AMB   | #Error             |
| 3: FLAMMABLE<br>AND<br>COMBUSTIBLE<br>LIQUIDS | Bay 2        | Adhesion Promoter<br>()<br>CAS#: 999-97-3      | name<br>hexamethyl<br>disilazane                                                                           | <u>ehs</u><br>N    | <u>%</u><br>100      | <u>cas</u><br>999-97-3                            | LIQUID<br>(MIXTURE) | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 1 GAL<br>0.75 GAL<br>0.125 GAL<br>0 GAL<br>365<br>N/A | #Error                | pres: AMB<br>temp: AMB   | #Error             |
| 3: FLAMMABLE<br>AND<br>COMBUSTIBLE<br>LIQUIDS | Bay 2        | AZ 4330-RS<br>Photoresist<br>()<br>CAS#: NONE  | name<br>1-methoxy-2-<br>propanol acetate<br>cresol novolak<br>resin<br>diazonaphtoquin<br>esulfonic esters | ehs<br>N<br>N<br>N |                      | <u>cas</u><br>108-65-6<br>17520-84-(<br>5610-94-6 | LIQUID<br>(MIXTURE) | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 8 GAL<br>1 GAL<br>1 GAL<br>0 GAL<br>365<br>N/A        | #Error                | pres: AMB<br>temp: < AMB | #Error             |
| 3: FLAMMABLE<br>AND<br>COMBUSTIBLE<br>LIQUIDS | Bay 2        | AZ 5214E 1R<br>Photoresist<br>()<br>CAS#: NONE | name<br>propylene glycol<br>monomethyl<br>ether acetate<br>cresol novolak<br>resin                         | <u>ehs</u><br>N    | <u>%</u><br>71<br>29 | <u>cas</u><br>108-65-6<br>17520-84-(              | LIQUID<br>(MIXTURE) | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 4 GAL<br>1 GAL<br>1 GAL<br>0 GAL<br>365<br>N/A        | #Error                | pres: AMB<br>temp: < AMB | #Error             |
| 3: FLAMMABLE<br>AND<br>COMBUSTIBLE<br>LIQUIDS | Bay 2        | AZ EBR 70/30<br>()<br>CAS#: NONE               | name<br>1-methoxy-2-<br>propanol<br>1-methoxy-2-<br>propanol acetate                                       | <u>ehs</u><br>N    | <u>%</u><br>70<br>30 | <u>cas</u><br>107-98-2<br>108-65-6                | LIQUID<br>(MIXTURE) | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 60 GAL<br>40 GAL<br>1 GAL<br>0 GAL<br>365<br>N/A      | #Error                | pres: AMB<br>temp: AMB   | #Error             |
| Date: 01/1<br>Business No                     |          | ilips Lumileds                           |                                                                                                            |                      |              | MAP ID                                             | : Buildin           | g 91 S                                 | Service                                        |                       | age: 53 of 84<br>Facility ID#: |                    |
|-----------------------------------------------|----------|------------------------------------------|------------------------------------------------------------------------------------------------------------|----------------------|--------------|----------------------------------------------------|---------------------|----------------------------------------|------------------------------------------------|-----------------------|--------------------------------|--------------------|
| DOT<br>HAZ CLASS                              | Location | CHEMICAL NAME<br>(COMMON NAME)           | HAZARDOU:                                                                                                  | S COM                | IPON         | ENTS                                               | PHYSICAL<br>STATE   | QUAN                                   | TITIES                                         | STORAGE<br>CONTAINER. | STORAGE<br>S CODES             | SARA<br>CATEGORIES |
| 3: FLAMMABLE<br>AND<br>COMBUSTIBLE<br>LIQUIDS | Bay 2    | AZ P1518 Photoresist<br>()<br>CAS#: NONE | propylene glycol<br>monomethyl<br>ether acetate<br>cresol novolak<br>resin                                 | <u>ehs</u><br>N      |              | <u>cas</u><br>108-65-6<br>117520-84-(              | LIQUID<br>(MIXTURE) | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 4 GAL<br>2 GAL<br>1 GAL<br>0 GAL<br>365<br>N/A | #Error                | pres: AMB<br>temp: < AMB       | #Error             |
| 3: FLAMMABLE<br>AND<br>COMBUSTIBLE<br>LIQUIDS | Bay 2    | AZ P4330 Photoresist<br>()<br>CAS#: NONE | name<br>1-methoxy-2-<br>propanol acetate<br>cresol novolak<br>resin<br>diazonaphtoquin<br>esulfonic esters | ehs<br>N<br>N<br>N   |              | <u>cas</u><br>108-65-6<br>117520-84-(<br>5610-94-6 | LIQUID<br>(PURE)    | AVG<br>LC<br>WST<br>DAYS               | 4 GAL<br>1 GAL<br>1 GAL<br>0 GAL<br>365<br>N/A | #Error                | pres: AMB<br>temp: < AMB       | #Error             |
| 3: FLAMMABLE<br>AND<br>COMBUSTIBLE<br>LIQUIDS | Bay 2    | AZ P4330-RS<br>()<br>CAS#: NONE          | name<br>1-methoxy-2-<br>propanol acetate<br>cresol novolak<br>resin<br>diazonaphtoquin<br>esulfonic esters | N                    |              | <u>cas</u><br>108-65-6<br>117520-84-(<br>5610-94-6 | LIQUID<br>(PURE)    | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 8 GAL<br>1 GAL<br>1 GAL<br>0 GAL<br>365<br>N/A | #Error                | pres: AMB<br>temp: < AMB       | #Error             |
| 3: FLAMMABLE<br>AND<br>COMBUSTIBLE<br>LIQUIDS | Bay 2    | Dynasolve 711<br>()<br>CAS#: NONE        | name<br>propylene glycol<br>mono methyl<br>ether<br>potassium<br>hydroxide<br>methanol                     | <u>ehs</u><br>N<br>N | <u>%</u><br> | <u>cas</u><br>107-98-2<br>1310-58-3<br>67-56-1     | LIQUID<br>(MIXTURE) | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 4 GAL<br>2 GAL<br>1 GAL<br>0 GAL<br>365<br>N/A | #Error                | pres: AMB<br>temp: AMB         | #Error             |

| Date: 01/1:<br>Business No                    |          | ilips Lumileds                                      |                                                                                |                           |                          | MAP IL                                          | : Buildin           | g 91 :                                 | Service                                             |                       | e: 54 of 84<br>ility ID#: |                    |
|-----------------------------------------------|----------|-----------------------------------------------------|--------------------------------------------------------------------------------|---------------------------|--------------------------|-------------------------------------------------|---------------------|----------------------------------------|-----------------------------------------------------|-----------------------|---------------------------|--------------------|
| DOT<br>HAZ CLASS                              | Location | CHEMICAL NAME<br>(COMMON NAME)                      | HAZARDOU                                                                       | S COM                     | IPON                     | ENTS                                            | PHYSICAL<br>STATE   | QUAN                                   | NTITIES                                             | STORAGE<br>CONTAINERS | STORAGE<br>CODES          | SARA<br>CATEGORIES |
| 3: FLAMMABLE<br>AND<br>COMBUSTIBLE<br>LIQUIDS | Bay 2    | Dynasolve 750<br>()<br>CAS#: NONE                   | propylene glycol<br>mono methyl<br>ether<br>potassium<br>hydroxide<br>methanol | <u>ehs</u><br>N<br>N<br>N | <u>%</u><br>60<br>5<br>7 | <u>cas</u><br>107-98-2<br>1310-58-3<br>67-56-1  | LIQUID<br>(MIXTURE) | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 8 GAL<br>4 GAL<br>1 GAL<br>0 GAL<br>365<br>N/A      | #Error                | pres: AMB<br>temp: AMB    | #Error             |
| 3: FLAMMABLE<br>AND<br>COMBUSTIBLE<br>LIQUIDS | Bay 2    | EBR 2<br>()<br>CAS#: NONE                           | name<br>cyclohexanone                                                          | <u>ehs</u><br>N           | <u>%</u><br>100          | <u>cas</u><br>108-94-1                          | LIQUID<br>(MIXTURE) | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 24 GAL<br>16 GAL<br>1 GAL<br>0 GAL<br>365<br>N/A    | #Error                | pres: AMB<br>temp: AMB    | #Error             |
| 8: CORROSIVES                                 | Bay 2    | EKC 265 Photoresist<br>Stripper<br>()<br>CAS#: NONE | name<br>2-(2-<br>aminoethoxy)<br>ethanol<br>catechol<br>hydroxylamine          | ehs<br>N<br>N<br>N        | <u>%</u><br>100          | <u>cas</u><br>929-06-6<br>120-80-9<br>7803-49-8 | LIQUID<br>(MIXTURE) | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 288 GAL<br>144 GAL<br>1 GAL<br>N/A<br>365<br>N/A    | #Error                | pres: AMB<br>temp: AMB    | #Error             |
| NONE                                          | Bay 2    | Ethylene Glycol<br>()<br>CAS#: 107-21-1             | name<br>ethylene glycol                                                        | ehs<br>N                  | <u>%</u><br>100          | <u>cas</u><br>107-21-1                          | LIQUID<br>(PURE)    | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 220 GAL<br>165 GAL<br>55 GAL<br>0 GAL<br>365<br>N/A | #Error                | pres: AMB<br>temp: AMB    | #Error             |
| NONE                                          | Bay 2    | Fluorosolvent 504<br>()<br>CAS#: NONE               | <u>name</u><br>perfluorocompou<br>nds                                          | <u>ehs</u><br>N           | <u>%</u><br>100          | <u>cas</u><br>86508-42-1                        | LIQUID<br>(PURE)    | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 12 GAL<br>12 GAL<br>0.25 GAL<br>0 GAL<br>365<br>N/A | #Error                | pres: AMB<br>temp: AMB    | NONE               |

| lips Lumileds                            |                                  |                 |                 | MAP ID:               | : Building        | 91                                     | Service                                            | Yard            | 0 | e: 55 o<br>lity ID‡ |             |
|------------------------------------------|----------------------------------|-----------------|-----------------|-----------------------|-------------------|----------------------------------------|----------------------------------------------------|-----------------|---|---------------------|-------------|
| CHEMICAL NAME<br>(COMMON NAME)           | HAZARDOU:                        | S COM           | IPON            |                       | PHYSICAL<br>STATE | QUA                                    | NTITIES                                            | STOR.<br>CONTAI |   |                     | RAGE<br>DES |
| lsopropyl Alcohol<br>()<br>CAS#: 67-63-0 | <u>name</u><br>isopropyl alcohol | <u>ehs</u><br>N | <u>%</u><br>100 | <u>cas</u><br>67-63-0 | LIQUID<br>(PURE)  | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 432 GAL<br>288 GAL<br>1 GAL<br>0 GAL<br>365<br>N/A | #Error          |   | pres:<br>temp:      |             |
| Methanol<br>()<br>CAS#: 67-56-1          | <u>name</u><br>methanol          | <u>ehs</u><br>N | <u>%</u><br>100 | <u>cas</u><br>67-56-1 | LIQUID<br>(PURE)  | MAX<br>AVG<br>LC<br>WST<br>DAYS        | 288 GAL<br>144 GAL<br>1 GAL<br>0 GAL<br>5 365      | #Error          |   | pres:<br>temp:      | AMB<br>AMB  |

DAYS 365 CUR N/A SARA

#Error

#Error

CATEGORIES

Date: 01/13/2012

DOT

HAZ CLASS

3: FLAMMABLE

3: FLAMMABLE

AND COMBUSTIBLE LIQUIDS

AND COMBUSTIBLE

LIQUIDS

**Business Name: Philips** 

Location

Bay 2

Bay 2

| 3: FLAMMABLE<br>AND<br>COMBUSTIBLE<br>LIQUIDS | Bay 2 | Mineral Spirit<br>()<br>CAS#: 64475-85-0 | <u>name</u><br>mineral spirit                   | ehs<br>N        | <u>%</u><br>100 644  | <u>cas</u><br>75-85-0  | LIQUID<br>(PURE)    | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 55 GAL<br>55 GAL<br>55 GAL<br>0 GAL<br>365<br>N/A | #Error | pres:<br>temp: | AMB<br>AMB | #Error |
|-----------------------------------------------|-------|------------------------------------------|-------------------------------------------------|-----------------|----------------------|------------------------|---------------------|----------------------------------------|---------------------------------------------------|--------|----------------|------------|--------|
| 3: FLAMMABLE<br>AND<br>COMBUSTIBLE            | Bay 2 | Miscellaneous<br>Photoresists            | <u>name</u><br>novolak resin                    | <u>ehs</u><br>N | <u>%</u><br>40-60175 | <u>cas</u><br>520-84-( | LIQUID<br>(MIXTURE) | AVG                                    | 40 GAL<br>16 GAL                                  | #Error | pres:<br>temp: |            | #Error |
| LIQUIDS                                       |       | ()<br>CAS#: NONE                         | propylene glycol<br>monomethyl<br>ether acetate | N               | 40-60 10             | 8-65-6                 |                     | LC<br>WST<br>DAYS                      |                                                   |        |                |            |        |

|                                               |       | CAS#: NONE                              | ether acetate                  |                 |                 |                        |                  | CUR                                    | N/A                                               |        |                |            |        |
|-----------------------------------------------|-------|-----------------------------------------|--------------------------------|-----------------|-----------------|------------------------|------------------|----------------------------------------|---------------------------------------------------|--------|----------------|------------|--------|
| 3: FLAMMABLE<br>AND<br>COMBUSTIBLE<br>LIQUIDS | Bay 2 | n-Butyl Acetate<br>()<br>CAS#: 123-86-4 | <u>name</u><br>n-butyl acetate | <u>ehs</u><br>N | <u>%</u><br>100 | <u>cas</u><br>123-86-4 | LIQUID<br>(PURE) | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 144 GAL<br>72 GAL<br>1 GAL<br>0 GAL<br>365<br>N/A | #Error | pres:<br>temp: | AMB<br>AMB | #Error |

| Date: 01/13<br>Business Na                    |          | lips Lumileds                        |                                                                                                                |                         |                      | MAP ID                                                        | : Buildin           | g 91                                   | Service                                            |                       | e: 56 of 84<br>cility ID#: |                    |
|-----------------------------------------------|----------|--------------------------------------|----------------------------------------------------------------------------------------------------------------|-------------------------|----------------------|---------------------------------------------------------------|---------------------|----------------------------------------|----------------------------------------------------|-----------------------|----------------------------|--------------------|
| DOT<br>HAZ CLASS                              | Location | CHEMICAL NAME<br>(COMMON NAME)       | HAZARDOU                                                                                                       | S COM                   | IPON                 | ENTS                                                          | PHYSICAL<br>STATE   | QUA                                    | NTITIES                                            | STORAGE<br>CONTAINERS | STORAGE<br>CODES           | SARA<br>CATEGORIES |
| 8: CORROSIVES                                 | Bay 2    | Nophenol EKC 922<br>()<br>CAS#: NONE | dodecyl benzene<br>sulfonic acid<br>heavy aromatic<br>solvent naptha<br>catechol<br>naphthalene                | ehs<br>N<br>N<br>N<br>N |                      | <u>cas</u><br>27176-87-0<br>64742-94-5<br>120-80-9<br>91-20-3 | LIQUID<br>(MIXTURE) | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 324 GAL<br>216 GAL<br>1 GAL<br>0 GAL<br>365<br>N/A | #Error                | pres: AMB<br>temp: AMB     | #Error             |
| 3: FLAMMABLE<br>AND<br>COMBUSTIBLE<br>LIQUIDS | Bay 2    | NR7-6000P<br>()<br>CAS#: NONE        | name<br>cyclohexanone<br>resins                                                                                | <u>ehs</u><br>N<br>N    | <u>%</u><br>100      | <u>cas</u><br>108-94-1                                        | LIQUID<br>(PURE)    | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 10 GAL<br>6 GAL<br>1 GAL<br>0 GAL<br>365<br>N/A    | #Error                | pres: AMB<br>temp: < AMB   | #Error             |
| 3: FLAMMABLE<br>AND<br>COMBUSTIBLE<br>LIQUIDS | Bay 2    | NR9-3000PY<br>()<br>CAS#: NONE       | name<br>cyclohexanone<br>resins                                                                                | <u>ehs</u><br>N<br>N    | <u>%</u><br>100      | <u>cas</u><br>108-94-1                                        | LIQUID<br>(PURE)    | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 10 GAL<br>6 GAL<br>1 GAL<br>0 GAL<br>365<br>N/A    | #Error                | pres: AMB<br>temp: < AMB   | #Error             |
| NONE                                          | Bay 2    | PRS 3000<br>()<br>CAS#: NONE         | name<br>1-methyl-2-<br>pyrrolidinone<br>thiophene,<br>tetrahydro-, 1,1-<br>dioxide<br>monoisopropanol<br>amine | <u>ehs</u><br>N<br>N    | 26<br>50<br>40<br>10 | <u>cas</u><br>872-50-4<br>126-33-0<br>78-96-6                 | LIQUID<br>(MIXTURE) | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 216 GAL<br>144 GAL<br>1 GAL<br>0 GAL<br>365<br>N/A | #Error                | pres: AMB<br>temp: AMB     | #Error             |
| 8: CORROSIVES                                 | Bay 2    | RR5<br>()<br>CAS#: NONE              | <u>name</u><br>rr5                                                                                             | <u>ehs</u><br>N         | <u>%</u><br>100      | <u>cas</u>                                                    | LIQUID<br>(MIXTURE) | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 108 GAL<br>52 GAL<br>1 GAL<br>0 GAL<br>395<br>N/A  | #Error                | pres: AMB<br>temp: AMB     | #Error             |

| Date: 01/1<br>Business N                      |          | lips Lumileds                                               |                                                                     |                           |                 | MAP ID                                               | : Buildin           | g 91 S                                 | Service                                             |                     | Page: 57 of 84<br>Facility ID#: |                    |
|-----------------------------------------------|----------|-------------------------------------------------------------|---------------------------------------------------------------------|---------------------------|-----------------|------------------------------------------------------|---------------------|----------------------------------------|-----------------------------------------------------|---------------------|---------------------------------|--------------------|
| DOT<br>HAZ CLASS                              | Location | CHEMICAL NAME<br>(COMMON NAME)                              | HAZARDOU                                                            | <u>s co</u> /             | MPON            | ENTS                                                 | PHYSICAL<br>STATE   | QUAN                                   | TITIES                                              | STORAGE<br>CONTAINE |                                 | SARA<br>CATEGORIES |
| NONE                                          | Bay 2    | Sodium Carbonate<br>()<br>CAS#: 497-19-8                    | <u>name</u><br>sodium<br>carbonate                                  | <u>ehs</u><br>N           | <u>%</u><br>100 | <u>cas</u><br>497-19-8                               | SOLID<br>(PURE)     | AVG<br>LC<br>WST                       | 150 LBS<br>150 LBS<br>25 LBS<br>0 LBS<br>365<br>N/A | #Error              | pres: > AMB<br>temp: AMB        | NONE               |
| NONE                                          | Bay 2    | Speedfam Water<br>Base Premix Slurry<br>()<br>CAS#: NONE    | non-hazardous<br>components                                         | ehs<br>N                  | <u>%</u><br>100 | <u>cus</u>                                           | LIQUID<br>(MIXTURE) |                                        | 200<br>140<br>5<br>N/A<br>N/A<br>N/A                | #Error              | pres: AMB<br>temp: AMB          | NONE               |
| NONE                                          | Bay 2 📢  | Syton HT50, 1B761H<br>(Lapping Slurry)<br>CAS#: NONE        | nume<br>amorphous silica<br>titratable alkali<br>(as na2o)<br>water |                           | 0.2 - 0         | <u>cas</u><br>07631-86-9<br>.3313-59-3<br>07732-18-5 | LIQUID<br>(PURE)    | AVG<br>LC<br>WST                       | 165 GAL<br>110 GAL<br>55 GAL<br>0 GAL<br>365<br>N/A | #Error              | pres: AMB<br>temp: AMB          | #Error             |
| NONE                                          | Bay 2    | Tin (IV) Oxide<br>Antimony doped<br>()<br>CAS#: NONE        | <u>name</u><br>water<br>tin(iv) oxide                               | <u>ehs</u><br>N<br>N      |                 | <u>cas</u><br>7732-18-5<br>18282-10-5                | LIQUID<br>(MIXTURE) | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 15 GAL<br>5 GAL<br>5 GAL<br>0 GAL<br>365<br>N/A     | #Error              | pres: AMB<br>temp: AMB          | NONE               |
| 3: Flammable<br>and<br>combustible<br>.iquids | Bay 2    | Waycoat Type 3 IC<br>Negative Resist 28<br>()<br>CAS#: NONE | name<br>xylenes<br>ethyl benzene<br>cyclized<br>polyisoprene        | <u>ehs</u><br>N<br>N<br>N | 20              | <u>cas</u><br>1330-20-7<br>100-41-4<br>68441-13-4    | LIQUID<br>(MIXTURE) | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 24 GAL<br>15 GAL<br>1 GAL<br>0 GAL<br>365<br>N/A    | #Error              | pres: AMB<br>temp: AMB          | #Error             |

| Date: 01/1:<br>Business No                    | 10-11-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1 | lips Lumileds                                                            |                                            |                      |                      | MAP ID                                | : Buildin           | g 91                                   | Service                                            |                       | ge: 58 of 84<br>cility ID#: |                    |
|-----------------------------------------------|-----------------------------------------|--------------------------------------------------------------------------|--------------------------------------------|----------------------|----------------------|---------------------------------------|---------------------|----------------------------------------|----------------------------------------------------|-----------------------|-----------------------------|--------------------|
| DOT<br>HAZ CLASS                              | Location                                | CHEMICAL NAME<br>(COMMON NAME)                                           | HAZARDOU                                   | S CON                | IPON                 | NENTS                                 | PHYSICAL<br>STATE   | QUA                                    | NTITIES                                            | STORAGE<br>CONTAINERS | STORAGE<br>CODES            | SARA<br>CATEGORIES |
| 3: FLAMMABLE<br>AND<br>COMBUSTIBLE<br>LIQUIDS | Bay 2                                   | WNRD Negative<br>Resist<br>Developer,VBF A III<br>()<br>CAS#: 64742-48-9 | name<br>isoparaffinic<br>hydrocarbon       | <u>ehs</u><br>N      | <u>%</u><br>100      | <u>cas</u><br>64742-48-9              | LIQUID<br>(MIXTURE) | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 108 GAL<br>1 GAL<br>0 GAL                          | #Error                | pres: AMB<br>temp: AMB      | #Error             |
| 3: FLAMMABLE<br>AND<br>COMBUSTIBLE<br>LIQUIDS | Bay 2                                   | Xylene<br>()<br>CAS#: 1330-20-7                                          | <u>name</u><br>xylene                      | <u>ehs</u><br>N      | <u>%</u><br>100      | <u>cas</u><br>1330-20-7               | LIQUID<br>(PURE)    | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 24 GAL<br>12 GAL<br>1 GAL<br>0 GAL<br>365<br>N/A   | #Error                | pres: AMB<br>temp: AMB      | #Error             |
| 8: CORROSIVES                                 | Bay 3                                   | Acetic Acid<br>()<br>CAS#: 64-19-7                                       | name<br>acetic acid<br>water               | <u>ehs</u><br>N<br>N | <u>%</u><br>90<br>10 | <u>cas</u><br>64-19-7<br>7732-18-5    | LIQUID<br>(PURE)    | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 96 GAL<br>72 GAL<br>1 GAL<br>0 GAL<br>365<br>N/A   | #Error                | pres: AMB<br>temp: AMB      | #Error             |
| 6.1: TOXIC<br>SUBSTANCES                      | Bay 3                                   | Ammonium Fluoride,<br>41%<br>()<br>CAS#: 12125-01-8                      | name<br>ammonium<br>fluoride<br>water      | <u>ehs</u><br>N<br>N |                      | <u>cas</u><br>12125-01-8<br>7732-18-5 | LIQUID<br>(PURE)    | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 24 GAL<br>12 GAL<br>1 GAL<br>0 GAL<br>365<br>N/A   | #Error                | pres: AMB<br>temp: AMB      | #Error             |
| NONE                                          | Bay 3                                   | Diamond Slurry<br>()<br>CAS#: NONE                                       | name<br>ethylene glycol<br>silicon dioxide | <u>ehs</u><br>N<br>N | <u>%</u><br>95<br>5  | <u>cas</u><br>107-21-1<br>7631-86-9   | LIQUID<br>(PURE)    | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 660 GAL<br>450 GAL<br>5 GAL<br>0 GAL<br>365<br>N/A | #Error                | pres: AMB<br>temp: AMB      | NONE               |

| Date: 01/1:<br>Business Na   |          | ilips Lumileds                                                              |                                              |                      |                 | MAP ID                                | : Building          | 915                                    | Service                                               | -                     | ge: 59 of 84<br>cility ID#: |                    |
|------------------------------|----------|-----------------------------------------------------------------------------|----------------------------------------------|----------------------|-----------------|---------------------------------------|---------------------|----------------------------------------|-------------------------------------------------------|-----------------------|-----------------------------|--------------------|
| DOT<br>HAZ CLASS             | Location | CHEMICAL NAME<br>(COMMON NAME)                                              | HAZARDOU                                     | 'S COM               | PON             | ENTS                                  | PHYSICAL<br>STATE   | QUAN                                   | TITIES                                                | STORAGE<br>CONTAINERS | STORAGE<br>CODES            | SARA<br>CATEGORIES |
| 5.1: OXIDIZING<br>SUBSTANCES | Bay 3    | Hydrogen Peroxide<br>30%<br>()<br>CAS#: 7722-84-1                           | <u>name</u><br>hydrogen<br>peroxide<br>water | <u>ehs</u><br>N<br>N |                 | <u>cas</u><br>7722-84-1<br>7732-18-5  | Liquid<br>(Pure)    | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 576 GAL<br>432 GAL<br>1 GAL<br>0 GAL<br>365<br>N/A    | #Error                | pres: AMB<br>temp: AMB      | #Error             |
| 8: CORROSIVES                | Bay 3    | Nitric Acid 70%<br>()<br>CAS#: 7697-37-2                                    | name<br>nitric acid<br>water                 | <u>ehs</u><br>Y<br>N |                 | <u>cas</u><br>7697-37-2<br>7732-18-5  | Liquid<br>(pure)    | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 118 GAL<br>100 GAL<br>0.58 GAL<br>0 GAL<br>365<br>N/A | #Error                | pres: AMB<br>temp: AMB      | #Error             |
| 5.1: OXIDIZING<br>SUBSTANCES | Bay 3    | Potassium<br>Permanganate<br>()<br>CAS#: 7722-64-7                          | <u>name</u><br>potassium<br>permanganate     | <u>ehs</u><br>N      | <u>%</u><br>100 | <u>cas</u><br>7722-64-7               | SOLID<br>(PURE)     | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 80 Lbs<br>60 Lbs<br>1 Lbs<br>0 Lbs<br>365<br>N/A      | #Error                | pres: AMB<br>temp: AMB      | #Error             |
| 5.1: OXIDIZING<br>SUBSTANCES | Bay 3    | Potassium<br>Permanganate, 1N-<br>soln.<br>()<br>CAS#: 7722-64-7            | name<br>potassium<br>permanganate<br>water   | <u>ehs</u><br>N<br>N |                 | <u>cas</u><br>7722-64-7<br>7732-18-5  | LIQUID<br>(PURE)    | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 192 GAL<br>128 GAL<br>1 GAL<br>0 GAL<br>365<br>N/A    | #Error                | pres: AMB<br>temp: AMB      | #Error             |
| NONE                         | Bay 3    | Water Based Premix<br>Slurry (Boron Carbide<br>Mixture)<br>()<br>CAS#: NONE | name<br>boron carbide<br>water               | <u>ehs</u><br>N<br>N |                 | <u>cas</u><br>12069-32-8<br>7732-18-5 | LIQUID<br>(MIXTURE) | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 200 GAL<br>150 GAL<br>2.5 GAL<br>0 GAL<br>365<br>N/A  | #Error                | pres: AMB<br>temp: AMB      | NONE               |

| Date: 01/1:<br>Business No     |          | ips Lumileds                                              |                                               |                           |                 | MAP IL                                            | : Buildin         | g 91 .                                 | Service \                                                  |                       | e: 60 of 84<br>ility ID#: |                    |
|--------------------------------|----------|-----------------------------------------------------------|-----------------------------------------------|---------------------------|-----------------|---------------------------------------------------|-------------------|----------------------------------------|------------------------------------------------------------|-----------------------|---------------------------|--------------------|
| DOT<br>HAZ CLASS               | Location | CHEMICAL NAME<br>(COMMON NAME)                            | HAZARDOL                                      | S COM                     | IPON            | ENTS                                              | PHYSICAL<br>STATE | QUAI                                   | TITIES                                                     | STORAGE<br>CONTAINERS | STORAGE<br>CODES          | SARA<br>CATEGORIES |
| 2.2:<br>NONFLAMMABL<br>E GASES | Bay 4 🔺  | Argon<br>()<br>CAS#: 7440-37-1                            | <u>name</u><br>argon                          | <u>ehs</u><br>N           | <u>%</u><br>100 | <u>cas</u><br>7440-37-1                           | GAS<br>(PURE)     | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 5000 CUFT<br>2260 CUFT<br>570 CUFT<br>0 CUFT<br>365<br>N/A | #Error                | pres: > AMB<br>temp: AMB  | #Error             |
| 2.2:<br>NONFLAMMABL<br>E GASES | Bay 4    | Calibration Gas 2%<br>hydrogen in air<br>()<br>CAS#: NONE | <u>name</u><br>nitrogen<br>oxygen<br>hydrogen | <u>ehs</u><br>N<br>N<br>N | 20.5            | <u>cas</u><br>7727-37-9<br>7782-44-7<br>1333-74-0 | GAS<br>(MIXTURE)  | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 210 CUFT<br>210 CUFT<br>29 CUFT<br>0 CUFT<br>N/A<br>N/A    | #Error                | pres: > AMB<br>temp: AMB  | #Error             |
| 2.2:<br>NONFLAMMABL<br>E GASES | Bay 4    | Carbon Dioxide<br>()<br>CAS#: 124-38-9                    | <u>name</u><br>carbon dioxide                 | <u>ehs</u><br>N           | <u>%</u><br>100 | <u>cas</u><br>124-38-9                            | GAS<br>(PURE)     | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 1364 CUFT<br>1364 CUFT<br>341 CUFT<br>0 CUFT<br>365<br>N/A | #Error                | pres: > AMB<br>temp: AMB  | #Error             |
| 2.2:<br>NONFLAMMABL<br>E GASES | Bay 4    | Helium<br>()<br>CAS#: 7440-59-7                           | <u>name</u><br>helium                         | <u>ehs</u><br>N           | <u>%</u><br>100 | <u>cus</u><br>7440-59-7                           | GAS<br>(PURE)     | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 1952 CUFT<br>1464 CUFT<br>244 CUFT<br>0 CUFT<br>365<br>N/A | #Error                | pres: > AMB<br>temp: AMB  | #Error             |
| 2.3: TOXIC<br>GASES            | Bay 4    | Laser Gas Mix<br>()<br>CAS#: NONE                         | <u>name</u><br>helium<br>fluorine             | ehs<br>N<br>Y             |                 | <u>cas</u><br>7440-59-7<br>7782-41-4              | GAS<br>(MIXTURE)  | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 177 CUFT<br>177 CUFT<br>177 CUFT<br>0 CUFT<br>365<br>N/A   | #Error                | pres: > AMB<br>temp: AMB  | #Error             |

| Date: 01/1.<br>Business No     |          | lips Lumileds                  |         |                 |                 | MAP IL                 | : Building        | 91                                     | Service                                               | Yard            | 0 | : 61 of 84<br>////ity ID#: |
|--------------------------------|----------|--------------------------------|---------|-----------------|-----------------|------------------------|-------------------|----------------------------------------|-------------------------------------------------------|-----------------|---|----------------------------|
| DOT<br>HAZ CLASS               | Location | CHEMICAL NAME<br>(COMMON NAME) | HAZARDO | US COM          | IPON            | ENTS                   | PHYSICAL<br>STATE | QUA                                    | NTITIES                                               | STORA<br>CONTAI |   | STORAGE<br>CODES           |
| 2.2:<br>NONFLAMMABL<br>E GASES | Bay 4    | Neon<br>()<br>CAS#: 1/9/7440   | neon    | <u>ehs</u><br>N | <u>%</u><br>100 | <u>cas</u><br>1/9/7440 | GAS<br>(PURE)     | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 177 CUFT<br>177 CUFT<br>177 CUFT<br>N/A<br>365<br>N/A | #Error          |   | pres: > AMB<br>temp: AMB   |

SARA

#Error

CATEGORIES

| 2.2:<br>NONFLAMMABL<br>E GASES | Bay 4   | Nitrogen<br>()<br>CAS#: 7727-37-9         | <u>name</u><br>nitrogen           | <u>ehs</u><br>N      | <u>%</u><br>100 | <u>cas</u><br>7727-37-9              | GAS<br>(PURE)    | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 1500 CUFT<br>970 CUFT<br>485 CUFT<br>0 CUFT<br>365<br>N/A  | #Error | pres: > AMB<br>temp: AMB | #Error |
|--------------------------------|---------|-------------------------------------------|-----------------------------------|----------------------|-----------------|--------------------------------------|------------------|----------------------------------------|------------------------------------------------------------|--------|--------------------------|--------|
| 2.1:<br>FLAMMABLE<br>GASES     | Bay 4   | Propane<br>()<br>CAS#: 74-98-6            | <u>name</u><br>propane            | <u>ehs</u><br>N      | <u>%</u><br>100 | <u>cas</u><br>74-98-6                | LIQUID<br>(PURE) | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 537 CUFT<br>537 CUFT<br>179 CUFT<br>0 CUFT<br>365<br>N/A   | #Error | pres: > AMB<br>temp: AMB | #Error |
| 2.1:<br>FLAMMABLE<br>GASES     | Bay 4   | Silane 1% in Nitrogen<br>()<br>CAS#: NONE | <u>name</u><br>silane<br>nitrogen | <u>ehs</u><br>N<br>N |                 | <u>cas</u><br>7803-62-5<br>7727-37-9 | GAS<br>(MIXTURE) | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 1035 CUFT<br>1035 CUFT<br>207 CUFT<br>0 CUFT<br>365<br>N/A | #Error | pres: > AMB<br>temp: AMB | #Error |
| 2.2:                           | Bay 4 🤜 | Silane 100 ppm in                         | name                              | ehs                  | %               | cas                                  | GAS              | MAX                                    | 3020 CUFT                                                  | #Error | pres: > AMB              | #Error |

| 2.2:<br>NONFLAMMABL<br>E GASES | Bay 4 🤜 | Silane 100 ppm in<br>Argon<br>()<br>CAS#: NONE | <u>name</u><br>silane<br>argon | <u>ehs</u><br>N<br>N | <u>% cas</u><br>0.01 7803-62-5<br>99.997440-37-1 | GAS<br>(MIXTURE) | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 3020 CUFT<br>2416 CUFT<br>302 CUFT<br>0 CUFT<br>365<br>N/A | #Error | pres: > AMB #Error<br>temp: AMB |
|--------------------------------|---------|------------------------------------------------|--------------------------------|----------------------|--------------------------------------------------|------------------|----------------------------------------|------------------------------------------------------------|--------|---------------------------------|
|                                |         |                                                |                                |                      |                                                  |                  |                                        |                                                            |        |                                 |

| Date: 01/13<br>Business Na     |          | ilips Lumileds                                         |                                        |                      |                 | MAP IL                               | : Buildin          | g 91 .                                 | Service                                                  |                       | ge: 62 of 84<br>cility ID#: |                    |
|--------------------------------|----------|--------------------------------------------------------|----------------------------------------|----------------------|-----------------|--------------------------------------|--------------------|----------------------------------------|----------------------------------------------------------|-----------------------|-----------------------------|--------------------|
| DOT<br>HAZ CLASS               | Location | CHEMICAL NAME<br>(COMMON NAME)                         | HAZARDOU                               | S COM                | PON             | ENTS                                 | PHYSICAL<br>STATE  | QUA                                    | NTITIES                                                  | STORAGE<br>CONTAINERS | STORAGE<br>CODES            | SARA<br>CATEGORIES |
| 8: CORROSIVES                  | Bay 4    | Silicon Tetrachloride<br>()<br>CAS#: 10026-04-7        | name<br>silicon<br>tetrachloride       | ehs<br>N             | <u>%</u><br>100 | <u>cas</u><br>10026-04-7             | GAS<br>(PURE)      | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 506 CUFT<br>253 CUFT<br>253 CUFT<br>0 CUFT<br>365<br>N/A | #Error                | pres: > AMB<br>temp: AMB    | #Error             |
| 2.2:<br>NONFLAMMABL<br>E GASES | Bay 4    | Tetrafluoromethane<br>(Halocarbon 14)<br>CAS#: 75-73-0 | <u>name</u><br>tetrafluoromethan<br>e  | <u>ehs</u><br>n N    | <u>%</u><br>100 | <u>cas</u><br>75-73-0                | GAS<br>(PURE)      | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 483 CUFT<br>483 CUFT<br>161 CUFT<br>0 CUFT<br>365<br>N/A | #Error                | pres: > AMB<br>temp: AMB    | #Error             |
| 2.2:<br>NONFLAMMABL<br>E GASES | Bay 4    | Trifluoromethane<br>()<br>CAS#: 75-46-7                | name<br>trifluoromethane               | <u>ehs</u><br>N      | <u>%</u><br>100 | <u>cas</u><br>75-46-7                | GAS<br>(PURE)      | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 774 CUFT<br>774 CUFT<br>387 CUFT<br>0 CUFT<br>365<br>N/A | #Error                | pres: > AMB<br>temp: AMB    | #Error             |
| 8: CORROSIVES                  | Bay 5    | Ammonium<br>Hydroxide 30%<br>()<br>CAS#: 1336-21-6     | name<br>ammonium<br>hydroxide<br>water | <u>ehs</u><br>N<br>N |                 | <u>cas</u><br>1336-21-6<br>7732-18-5 | LIQUID<br>(PURE)   | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 221 GAL<br>144 GAL<br>1 GAL<br>0 GAL<br>365<br>N/A       | #Error                | pres: AMB<br>temp: AMB      | #Error             |
| 5.1: OXIDIZING<br>SUBSTANCES   | Bay 7    | C-35 Gold Etch<br>(Film Gold Etch)<br>CAS#: NONE       | name<br>iodine<br>potassium iodide     | ehs<br>N<br>N        |                 | <u>cas</u><br>7553-56-2<br>7681-11-0 | SOLID<br>(MIXTURE) | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 70.4 LBS<br>35.2 LBS<br>0.22 LBS<br>0 LBS<br>365<br>N/A  | #Error                | pres: AMB<br>temp: AMB      | #Error             |

| Date: 01/13<br>Business Na |          | lips Lumileds                                     |                                                              |                      |     | MAP ID:                                           | Building            | 91 3                                   | Service                                               |                    | Page: 63 of 84<br>Facility ID#: |                    |
|----------------------------|----------|---------------------------------------------------|--------------------------------------------------------------|----------------------|-----|---------------------------------------------------|---------------------|----------------------------------------|-------------------------------------------------------|--------------------|---------------------------------|--------------------|
| DOT<br>HAZ CLASS           | Location | CHEMICAL NAME<br>(COMMON NAME)                    | HAZARDOUS                                                    | 5 СОМІ               | PON |                                                   | PHYSICAL<br>STATE   | QUAN                                   | NTITIES                                               | STORAG<br>CONTAINE |                                 | SARA<br>CATEGORIES |
| 8: CORROSIVES              | Bay 7    | Hydrochloric Acid<br>38%<br>()<br>CAS#: 7647-01-0 | name<br>hydrochloric acid<br>water                           | <u>ehs</u><br>N<br>N |     | <u>cas</u><br>7647-01-0<br>7732-18-5              | LIQUID<br>(PURE)    | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 432 GAL<br>288 GAL<br>1 GAL<br>0 GAL<br>365<br>N/A    | #Error             | pres: AMB<br>temp: AMB          | #Error             |
| 8: CORROSIVES              | Bay 7    | Hydrofluoric Acid 49%<br>()<br>CAS#: 7664-39-3    | name<br>hydrofluoric acid<br>water                           | ehs<br>Y<br>N        | 51  | <u>cas</u><br>7664-39-3<br>7732-18-5<br>7732-18-5 | LIQUID<br>(PURE)    | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 180 GAL<br>144 GAL<br>1 GAL<br>0 GAL<br>365<br>N/A    | #Error             | pres: AMB<br>temp: AMB          | #Error             |
| 8: CORROSIVES              | Bay 7    | Nickel Vanadium Etch<br>()<br>CAS#: NONE          | name<br>nitric acid<br>sulfuric acid<br>acetic acid<br>water | <u>ehs</u><br>N<br>N |     | <u>cas</u><br>7697-37-2<br>7664-93-9<br>64-19-7   | LIQUID<br>(MIXTURE) | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 10 GAL<br>5 GAL<br>1 GAL<br>0 GAL<br>365<br>N/A       | #Error             | pres: AMB<br>temp: AMB          | #Error             |
| 8: CORROSIVES              | Bay 7 💊  | Nitric Acid 70%<br>()<br>CAS#: 7697-37-2          | nitric acid<br>water                                         | <u>ehs</u><br>Y<br>N |     | <u>cas</u><br>7697-37-2<br>7732-18-5              | LIQUID<br>(PURE)    | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 118 GAL<br>100 GAL<br>0.58 GAL<br>0 GAL<br>365<br>N/A | #Error             | pres: AMB<br>temp: AMB          | #Error             |
| B: CORROSIVES              | Bay 7 🍾  | Phosphoric Acid, 80%<br>()<br>CAS#: 7664-38-2     | name<br>phosphoric acid<br>water                             | <u>ehs</u><br>N<br>N |     | <u>cas</u><br>7664-38-2<br>7732-18-5              | LIQUID<br>(PURE)    | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 563 GAL<br>419 GAL<br>55 GAL<br>0 GAL<br>365<br>N/A   | #Error             | pres: AMB<br>temp: AMB          | #Error             |

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| Date: 01/1:<br>Business Na |          | ilips Lumileds                                     |                                                                          |                      |                          | MAP IL                               | : Buildin           | g 91 .                                 | Service                                              |                       | ge: 64 of 84<br>cility ID#: |                    |
|----------------------------|----------|----------------------------------------------------|--------------------------------------------------------------------------|----------------------|--------------------------|--------------------------------------|---------------------|----------------------------------------|------------------------------------------------------|-----------------------|-----------------------------|--------------------|
| DOT<br>HAZ CLASS           | Location | CHEMICAL NAME<br>(COMMON NAME)                     | HAZARDOU                                                                 | S COMI               | PO                       | NENTS                                | PHYSICAL<br>STATE   | QUA                                    | NTITIES                                              | STORAGE<br>CONTAINERS | STORAGE<br>CODES            | SARA<br>CATEGORIES |
| 8: CORROSIVES              | Bay 7    | Sulfuric Acid, 81%<br>()<br>CAS#: 7664-93-9        | <u>name</u><br>sulfuric acid<br>water                                    | ehs<br>Y<br>N        |                          | <u>cas</u><br>7664-93-9<br>7732-18-5 | LIQUID<br>(PURE)    | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 252 GAL<br>126 GAL<br>1 GAL<br>0 GAL<br>365<br>N/A   | #Error                | pres: AMB<br>temp: AMB      | #Error             |
| 8: CORROSIVES              | Bay 7    | Sulfuric Acid, 96%<br>()<br>CAS#: 7664-93-9        | name<br>sulfuric acid<br>water                                           | <u>ehs</u><br>Y<br>N |                          | <u>cas</u><br>7664-93-9<br>7732-18-5 | LIQUID<br>(PURE)    | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 325 GAL<br>144 GAL<br>1 GAL<br>0 GAL<br>365<br>N/A   | #Error                | pres: AMB<br>temp: AMB      | #Error             |
| 8: CORROSIVES              | Bay 8    | Ammonium<br>Hydroxide 30%<br>()<br>CAS#: 1336-21-6 | name<br>ammonium<br>hydroxide<br>water                                   | N                    |                          | <u>cas</u><br>1336-21-6<br>7732-18-5 | LIQUID<br>(PURE)    | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 221 GAL<br>144 GAL<br>1 GAL<br>0 GAL<br>365<br>N/A   | #Error                | pres: AMB<br>temp: AMB      | #Error             |
| 8: CORROSIVES              | Bay 8    | AZ 3:2 developer<br>()<br>CAS#: NONE               | name<br>sodium<br>metasilicate<br>water                                  | N                    | <u>%</u><br>1<br>99      | <u>cas</u><br>6834-92-0<br>7732-18-5 | LIQUID<br>(MIXTURE) | DAYS                                   | 40 GAL<br>20 GAL<br>1 GAL<br>0 GAL<br>365<br>N/A     | #Error                | pres: AMB<br>temp: AMB      | #Error             |
| 8: CORROSIVES              | Bay 8    | PMER Developer P-<br>7G<br>()<br>CAS#: NONE        | name<br>water<br>tetramethylammo<br>nium hydroxide<br>anionic surfactant | N<br>N               | <u>%</u><br>95<br>3<br>2 | <u>cas</u><br>7732-18-5<br>75-59-2   | LIQUID<br>(MIXTURE) |                                        | 160 GAL<br>160 GAL<br>1.3 GAL<br>0 GAL<br>N/A<br>N/A | #Error                | pres: AMB<br>temp: AMB      | #Error             |



| Date: 01/13                                   |          |                                                         |                                                    |                      |                     |                                      |                     |                                        |                                                    |                    | Page: 65 of 84         |                    |
|-----------------------------------------------|----------|---------------------------------------------------------|----------------------------------------------------|----------------------|---------------------|--------------------------------------|---------------------|----------------------------------------|----------------------------------------------------|--------------------|------------------------|--------------------|
| <b>Business</b> Na                            | me: Phi  | lips Lumileds                                           |                                                    |                      |                     | MAP ID                               | : Buildin           | g 91 S                                 | Service                                            | Yard               | Facility ID#:          |                    |
| DOT<br>HAZ CLASS                              | Location | CHEMICAL NAME<br>(COMMON NAME)                          | HAZARDOUS                                          | S COM                | IPON                | ENTS                                 | PHYSICAL<br>STATE   | QUAN                                   | TITIES                                             | STORAG<br>CONTAINI |                        | SARA<br>CATEGORIES |
| 8: CORROSIVES                                 | Bay 8    | Potassium Hydroxide<br>Pellets<br>()<br>CAS#: 1310-58-3 | name<br>potassium<br>hydroxide pellets             | <u>ehs</u><br>N      | <u>%</u><br>100     | <u>cas</u><br>1310-58-3              | SOLID<br>(PURE)     | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 480 LBS<br>300 LBS<br>5 LBS<br>0 LBS<br>365<br>N/A | #Error             | pres: AMB<br>temp: AMB | #Error             |
| 3: FLAMMABLE<br>AND<br>COMBUSTIBLE<br>LIQUIDS | Bay 8    | Proprietary<br>Pyrophoric Liquid<br>()<br>CAS#: NONE    | name<br>proprietary<br>pyrophoric liquid           | <u>ehs</u><br>N      | <u>%</u><br>100     | <u>cas</u>                           | LIQUID<br>(PURE)    | AVG<br>LC                              | 250 LBS<br>175 LBS<br>9 LBS<br>0 LBS<br>365<br>N/A | #Error             | pres: AMB<br>temp: AMB | #Error             |
| 9: MISC<br>HAZARDOUS<br>MATERIAL              | Bay 8    | Resist Developer RD6<br>()<br>CAS#: NONE                | name<br>tetramethylammo<br>nium hydroxide<br>water | <u>ehs</u><br>N<br>N | <u>%</u><br>3<br>97 | <u>cax</u><br>75-59-2<br>7732-18-5   | LIQUID<br>(MIXTURE) | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 576 GAL<br>288 GAL<br>1 GAL<br>0 GAL<br>365<br>N/A | #Error             | pres: AMB<br>temp: AMB | #Error             |
| B: CORROSIVES                                 | Bay 8    | Sodium Hydroxide,<br>50%<br>()<br>CAS#: 1310-73-2       | name<br>sodium hydroxide<br>water                  | ehs<br>N<br>n        |                     | <u>cas</u><br>1310-73-2<br>7732-18-5 | LIQUID<br>(PURE)    | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 72 GAL<br>36 GAL<br>1 GAL<br>0 GAL<br>365<br>N/A   | #Error             | pres: AMB<br>temp: AMB | #Error             |

| Date: 01/1:<br>Business No                    |           | lips Lumileds                             |                                  |                 |                 | MAP II                  | : Buildin           | g 91                                   | Upper                                                      | -                     | e: 66 of 84<br>ility ID#: |                    |
|-----------------------------------------------|-----------|-------------------------------------------|----------------------------------|-----------------|-----------------|-------------------------|---------------------|----------------------------------------|------------------------------------------------------------|-----------------------|---------------------------|--------------------|
| DOT<br>HAZ CLASS                              | Location  | CHEMICAL NAME<br>(COMMON NAME)            | HAZARDOU                         | s con           | MPON            | ENTS                    | PHYSICAL<br>STATE   | QUA                                    | NTITIES                                                    | STORAGE<br>CONTAINERS | STORAGE<br>CODES          | SARA<br>CATEGORIES |
| 3: FLAMMABLE<br>AND<br>COMBUSTIBLE<br>LIQUIDS | East Labs | Acetone<br>()<br>CAS#: 67-64-1            | name<br>acelone                  | <u>ehs</u><br>N | <u>%</u><br>100 | <u>cas</u><br>67-64-1   | LIQUID<br>(PURE)    | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 2 GAL<br>1 GAL<br>0 GAL                                    | #Error                | pres: AMB<br>temp: AMB    | #Error             |
| 3: FLAMMABLE<br>AND<br>COMBUSTIBLE<br>LIQUIDS | East Labs | Adhesion Promoter<br>()<br>CAS#: 999-97-3 | name<br>hexamethyl<br>disilazane | <u>ehs</u><br>N | <u>%</u><br>100 | <u>cas</u><br>999-97-3  | LIQUID<br>(MIXTURE) | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 1 GAL<br>0.5 GAL<br>0.125 GAL<br>0 GAL<br>365<br>N/A       | #Error                | pres: AMB<br>temp: AMB    | #Error             |
| NONE                                          | East Labs | Aluminum Oxide<br>()<br>CAS#: 1344-28-1   | name<br>aluminum oxide           | <u>ehs</u><br>N | <u>%</u><br>100 | <u>cas</u><br>1344-28-1 | SOLID<br>(PURE)     | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 2 LBS<br>2 LBS<br>1 LBS<br>0 LBS<br>365<br>N/A             | #Error                | pres: AMB<br>temp: AMB    | NONE               |
| 2.2:<br>NONFLAMMABL<br>E GASES                | East Labs | Argon<br>()<br>CAS#: 7440-37-1            | name<br>argon                    | <u>ehs</u><br>N | <u>%</u><br>100 | <u>cas</u><br>7440-37-1 | GAS<br>(PURE)       | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 1140 CUFT<br>1140 CUFT<br>570 CUFT<br>0 CUFT<br>365<br>N/A | #Error                | pres: > AMB<br>temp: AMB  | #Error             |
| NONE                                          | East Labs | Calcium Carbonate<br>()<br>CAS#: 471-34-1 | name<br>calcium<br>carbonate     | <u>ehs</u><br>N | <u>%</u><br>100 | <u>cas</u><br>471-34-1  | SOLID<br>(PURE)     | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 2 LBS<br>2 LBS<br>2 LBS<br>0 LBS<br>365<br>N/A             | #Error                | pres: AMB<br>temp: AMB    | NONE               |

| Date: 01/1:<br>Business No                    |           | ips Lumileds                             |                                  |                 |                 | MAP ID                  | : Buildin         | g 91 l                                 | Jpper                                                         |                       | 2: 67 of 84<br>lity ID#:  |                    |
|-----------------------------------------------|-----------|------------------------------------------|----------------------------------|-----------------|-----------------|-------------------------|-------------------|----------------------------------------|---------------------------------------------------------------|-----------------------|---------------------------|--------------------|
| DOT<br>HAZ CLASS                              | Location  | CHEMICAL NAME<br>(COMMON NAME)           | HAZARDOU                         | S COM           | PON             | ENTS                    | PHYSICAL<br>STATE | QUAN                                   | TITIES                                                        | STORAGE<br>CONTAINERS | STORAGE<br>CODES          | SARA<br>CATEGORIES |
| NONE                                          | East Labs | Ethylene Glycol<br>()<br>CAS#: 107-21-1  | name<br>ethylene glycol          | ehs<br>N        | <u>%</u><br>100 | <u>cas</u><br>107-21-1  | LIQUID<br>(PURE)  |                                        | 1 GAL<br>1 GAL<br>1 GAL<br>0 GAL<br>365<br>N/A                | #Error                | pres: AMB<br>temp: AMB    | #Error             |
| 2.2:<br>NONFLAMMABL<br>E GASES                | East Labs | Helium<br>()<br>CAS#: 7440-59-7          | <u>name</u><br>helium            | <u>ehs</u><br>N | <u>%</u><br>100 | <u>cas</u><br>7440-59-7 | GAS<br>(PURE)     | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 488 CUFT<br>488 CUFT<br>244 CUFT<br>0 CUFT<br>365<br>N/A      | #Error                | pres: > AMB<br>temp: AMB  | #Error             |
| 2.2:<br>NONFLAMMABL<br>E GASES                | East Labs | Helium, Liquid<br>()<br>CAS#: 7440-59-7  | <u>name</u><br>helium, liquid    | <u>ehs</u><br>N | <u>%</u><br>100 | <u>cas</u><br>7440-59-7 | GAS<br>(PURE)     | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 1038 CUFT<br>1038 CUFT<br>346 CUFT<br>0 CUFT<br>365<br>N/A    | #Error                | pres: > AMB<br>temp: CRYO | #Error             |
| 3: FLAMMABLE<br>AND<br>COMBUSTIBLE<br>LIQUIDS | East Labs | Isopropyl Alcohol<br>()<br>CAS#: 67-63-0 | <u>name</u><br>isopropyl alcohol | ehs<br>N        | <u>%</u><br>100 | <u>cas</u><br>67-63-0   | LIQUID<br>(PURE)  | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 2 GAL<br>2 GAL<br>1 GAL<br>0 GAL<br>365<br>N/A                | #Error                | pres: AMB<br>temp: AMB    | #Error             |
| 4.1:<br>Flammable<br>Solids                   | East Labs | MANGANESE<br>()<br>CAS#: 7439-96-5       | <u>name</u><br>manganese         | ehs<br>N        | <u>%</u><br>100 | <u>cas</u><br>7439-96-5 | SOLID<br>(PURE)   | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 1.1023 LBS<br>1.1023 LBS<br>1.1023 LBS<br>0 LBS<br>365<br>N/A |                       | pres: AMB<br>temp: AMB    | #Error             |

| Date: 01/1:<br>Business Na                    |           | lips Lumileds                                                   |                                                      |                 |                  | МАР П                   | ): Buildin         | g 91                                   | Upper                                                       |                       | e: 68 of 84<br>lity ID#:  |                    |
|-----------------------------------------------|-----------|-----------------------------------------------------------------|------------------------------------------------------|-----------------|------------------|-------------------------|--------------------|----------------------------------------|-------------------------------------------------------------|-----------------------|---------------------------|--------------------|
| DOT<br>HAZ CLASS                              | Location  | CHEMICAL NAME<br>(COMMON NAME)                                  | HAZARDOU                                             | S COM           | 1PON             | ENTS                    | PHYSICAL<br>STATE  | QUA                                    | NTITIES                                                     | STORAGE<br>CONTAINERS | STORAGE<br>CODES          | SARA<br>CATEGORIES |
| 3: FLAMMABLE<br>AND<br>COMBUSTIBLE<br>LIQUIDS | East Labs | Methanol<br>()<br>CAS#: 67-56-1                                 | <u>name</u><br>methanol                              | <u>ehs</u><br>N | <u>%</u><br>100  | <u>cas</u><br>67-56-1   | LIQUID<br>(PURE)   | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 1 GAL<br>1 GAL<br>1 GAL<br>0 GAL<br>365<br>N/A              | #Error                | pres: AMB<br>temp: AMB    | #Error             |
| 2.2:<br>NONFLAMMABL<br>E GASES                | East Labs | Nitrogen<br>()<br>CAS#: 7727-37-9                               | <u>name</u><br>nitrogen                              | <u>ehs</u><br>N | <u>%</u><br>100  | <u>cas</u><br>7727-37-9 | GAS<br>(PURE)      | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 1515 CUFT<br>1515 CUFT<br>505 CUFT<br>0 CUFT<br>365<br>N/A  | #Error                | pres: > AMB<br>temp: AMB  | #Error             |
| 2.2:<br>NONFLAMMABL<br>E GASES                | East Labs | Nitrogen, Liquid<br>()<br>CAS#: 7727-37-9                       | name<br>nitrogen, liquid                             | <u>ehs</u><br>N | <u>26</u><br>100 | <u>cas</u><br>7727-37-9 | LIQUID<br>(PURE)   | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 5000 CUFT<br>5000 CUFT<br>5000 CUFT<br>0 CUFT<br>365<br>N/A | #Error                | pres: > AMB<br>temp: CRYO | #Error             |
| NONE                                          | East Labs | Oil<br>()<br>CAS#: NONE                                         | <u>name</u><br>oil                                   | <u>ehs</u><br>N | <u>%</u><br>100  | <u>cus</u>              | LIQUID<br>(PURE)   | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 2 GAL<br>2 GAL<br>2 GAL<br>0 GAL<br>365<br>N/A              | #Error                | pres: AMB<br>temp: AMB    | NONE               |
| NONE                                          | East Labs | Proprietary<br>phosphorescence<br>compounds<br>()<br>CAS#: NONE | name<br>proprietary<br>phosphorescenc<br>e compounds | ehs<br>N        | <u>%</u><br>100  | <u>cas</u>              | SOLID<br>(MIXTURE) | AVG<br>LC<br>WST<br>DAYS               | 7 LBS<br>7 LBS<br>0.5 LBS<br>0 LBS<br>365<br>N/A            | #Error                | pres: AMB<br>temp: AMB    | NONE               |

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| Date: 01/1<br>Business N |           | lips Lumileds                                     |                                |                      |                 | MAP ID                               | : Buildin          | g 91 l                                 | Jpper                                                   | -                     | e: 69 of 84<br>lity ID#: |                    |
|--------------------------|-----------|---------------------------------------------------|--------------------------------|----------------------|-----------------|--------------------------------------|--------------------|----------------------------------------|---------------------------------------------------------|-----------------------|--------------------------|--------------------|
| DOT<br>HAZ CLASS         | Location  | CHEMICAL NAME<br>(COMMON NAME)                    | HAZARDOU                       | S COM                | IPON            | ENTS                                 | PHYSICAL<br>STATE  | QUAN                                   | TITIES                                                  | STORAGE<br>CONTAINERS | STORAGE<br>CODES         | SARA<br>CATEGORIES |
| NONE                     | East Labs | Silicon Dioxide<br>()<br>CAS#: 7631-86-9          | <u>name</u><br>silicon dioxide | <u>ehs</u><br>N      | <u>%</u><br>100 | <u>cas</u><br>7631-86-9              | SOLID<br>(PURE)    | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 2 LBS<br>2 LBS<br>2 LBS<br>0 LBS<br>365<br>N/A          | #Error                | pres: AMB<br>temp: AMB   | NONE               |
| 6.1: TOXIC<br>SUBSTANCES | East Labs | Silver<br>()<br>CAS#: 7440-22-4                   | <u>name</u><br>silver          | <u>ehs</u><br>N      | <u>%</u><br>100 | <u>cas</u><br>7440-22-4              | SOLID<br>(PURE)    | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 0.25 LBS<br>0.25 LBS<br>0.25 LBS<br>0 LBS<br>365<br>N/A | #Error                | pres: AMB<br>temp: AMB   | #Error             |
| NONE                     | East Labs | Solder (Lead Tin)<br>()<br>CAS#: NONE             | <u>name</u><br>tin<br>lead     | <u>ehs</u><br>N<br>n |                 | <u>cas</u><br>7440-31-5<br>7439-92-1 | SOLID<br>(MIXTURE) | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 5 LBS<br>5 LBS<br>5 LBS<br>0 LBS<br>365<br>N/A          | #Error                | pres: AMB<br>temp: AMB   | NONE               |
| NONE                     | East Labs | Solder Paste<br>(Gold/Indium)<br>()<br>CAS#: NONE | <u>name</u><br>gold<br>tin     | <u>ehs</u><br>N<br>N |                 | <u>cas</u><br>7440-57-5<br>7440-31-5 | SOLID<br>(MIXTURE) | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 10 LBS<br>10 LBS<br>0.2 LBS<br>0 LBS<br>365<br>N/A      | #Error                | pres: AMB<br>temp: AMB   | NONE               |
| NONE                     | East Labs | Titanium Dioxide<br>()<br>CAS#: 13463-67-7        | name<br>titanium dioxide       | <u>ehs</u><br>N      | <u>%</u><br>100 | <u>cas</u><br>13463-67-7             | SOLID<br>(PURE)    | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 1 LBS<br>1 LBS<br>1 LBS<br>0 LBS<br>365<br>N/A          | #Error                | pres: AMB<br>temp: AMB   | #Error             |

| Date: 01/1:<br>Business Na       | NUMBER OF A STR | lips Lumileds                                                |                                                                                                      |                 |                      | MAP II                                         | ): Buildin          | g 91                                   | Upper                                                |                       | e: 70 c<br>lity ID |              |                    |
|----------------------------------|-----------------|--------------------------------------------------------------|------------------------------------------------------------------------------------------------------|-----------------|----------------------|------------------------------------------------|---------------------|----------------------------------------|------------------------------------------------------|-----------------------|--------------------|--------------|--------------------|
| DOT<br>HAZ CLASS                 | Location        | CHEMICAL NAME<br>(COMMON NAME)                               | HAZARDOU                                                                                             | S COM           | PON                  | ENTS                                           | PHYSICAL<br>STATE   | QUA                                    | NTITIES                                              | STORAGE<br>CONTAINERS |                    | RAGE<br>DES  | SARA<br>CATEGORIES |
| 9: MISC<br>HAZARDOUS<br>MATERIAL | East Labs       | ZINC OXIDE<br>()<br>CAS#: 1314-13-2                          | <u>name</u><br>zinc oxide                                                                            | <u>ehs</u><br>N | <u>%</u><br>100      | <u>cas</u><br>1314-13-2                        | SOLID<br>(PURE)     | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 0.25 LBS<br>0.25 LBS<br>0 LBS                        | #Error                |                    | AMB<br>AMB   | NONE               |
| 9: MISC<br>HAZARDOUS<br>MATERIAL | East Labs       | ZINC SULFIDE<br>()<br>CAS#: 1314-98-3                        | name<br>zinc sulfide                                                                                 | ehs<br>N        | <u>%</u><br>100      | <u>cas</u><br>1314-98-3                        | SOLID<br>(PURE)     | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 4.5 LBS<br>4.5 LBS<br>4.5 LBS<br>0 LBS<br>365<br>N/A | #Error                |                    | AMB<br>AMB   | #Error             |
| 2.2:<br>NONFLAMMABL<br>E GASES   | West Lab        | 403A Super Cold 134<br>Plus<br>()<br>CAS#: 811-97-2          | name<br>403a super cold<br>134 plus                                                                  | <u>ehs</u><br>N | <u>%</u><br>100      | <u>cas</u><br>811-97-2                         | LIQUID<br>(PURE)    | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 1 GAL<br>0.25 GAL<br>0 GAL                           | #Error                |                    | > AMB<br>AMB | #Error             |
| NONE                             | West Lab        | 5768<br>Biokleensaponifer<br>Concentrate<br>()<br>CAS#: NONE | name<br>diethylene glycol<br>monobutyl ether<br>monoethanolami<br>ne<br>1-methyl-2-<br>pyrrolidinone | N               | <75                  | <u>cas</u><br>112-34-5<br>141-43-5<br>872-50-4 | LIQUID<br>(MIXTURE) | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 4 GAL<br>4 GAL<br>1 GAL<br>0 GAL<br>365<br>N/A       | #Error                | pres:<br>temp:     | AMB<br>AMB   | #Error             |
| 8: CORROSIVES                    | West Lab        | Acetic Acid<br>()<br>CAS#: 64-19-7                           | name<br>acetic acid<br>water                                                                         | ehs<br>N<br>N   | <u>%</u><br>90<br>10 | <u>cas</u><br>64-19-7<br>7732-18-5             | LIQUID<br>(PURE)    | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 1 GAL<br>1 GAL<br>1 GAL<br>0 GAL<br>365<br>N/A       | #Error                | pres:<br>temp:     |              | #Error             |

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| Date: <b>01/1</b><br>Business No              | a state and a state of the | lips Lumileds                                    |                                                                                                     |                      |                            | MAP ID                                         | : Buildin           | g 91 l                                 | Upper                                                 |                       | e: 71 of 84<br>lity ID#: |                    |
|-----------------------------------------------|----------------------------|--------------------------------------------------|-----------------------------------------------------------------------------------------------------|----------------------|----------------------------|------------------------------------------------|---------------------|----------------------------------------|-------------------------------------------------------|-----------------------|--------------------------|--------------------|
| DOT<br>HAZ CLASS                              | Location                   | CHEMICAL NAME<br>(COMMON NAME)                   | HAZARDOUS                                                                                           | S COM                | MPON                       | ENTS                                           | PHYSICAL<br>STATE   | QUAN                                   | <b>TITIES</b>                                         | STORAGE<br>CONTAINERS | STORAGE<br>CODES         | SARA<br>CATEGORIES |
| 3: FLAMMABLE<br>AND<br>COMBUSTIBLE<br>LIQUIDS | West Lab                   | Acetone<br>()<br>CAS#: 67-64-1                   | <u>name</u><br>acetone                                                                              | <u>ehs</u><br>N      | <u>%</u><br>100            | <u>cus</u><br>67-64-1                          | LIQUID<br>(PURE)    | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 8 GAL<br>8 GAL<br>1 GAL<br>0 GAL<br>365<br>N/A        | #Error                | pres: AMB<br>temp: AMB   | #Error             |
| NONE                                          | West Lab                   | BIOACT EC-ULTRA<br>()<br>CAS#: NONE              | name<br>isopropyl<br>myristate<br>Rurpropy<br>tetradeconate]                                        | ehs<br>N<br>N        |                            | <u>cas</u><br>110-27-0<br>9003-11-6            | LIQUID<br>(MIXTURE) | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 1 GAL<br>1 GAL<br>1 GAL<br>0 GAL<br>365<br>N/A        | #Error                | pres: AMB<br>temp: AMB   | #Error             |
| 5.1: OXIDIZING<br>SUBSTANCES                  | West Lab                   | C-35 Gold Etch<br>(Film Gold Etch)<br>CAS#: NONE | name<br>iodine<br>potassium iodide                                                                  | <u>ehs</u><br>N      | <u>%</u><br>100            | <u>cas</u><br>7553-56-2<br>7681-11-0           | SOLID<br>(MIXTURE)  | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 0.5 Lbs<br>0.5 Lbs<br>0.25 Lbs<br>0 Lbs<br>365<br>N/A | #Error                | pres: AMB<br>temp: AMB   | #Error             |
| 3: FLAMMABLE<br>AND<br>COMBUSTIBLE<br>LIQUIDS | West Lab                   | Cee Bee C-105 HF<br>()<br>CAS#: NONE             | mame<br>methylene<br>chloride<br>toluene<br>aromatic<br>petroleum<br>ethylehenzene<br>sulfonic acid | <u>ehs</u><br>N<br>N | <u>%</u><br>20<br>10<br>60 | <u>cas</u><br>75-09-2<br>108-88-3<br>8030-30-6 | LIQUID<br>(MIXTURE) | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 2 GAL<br>2 GAL<br>1 GAL<br>0 GAL<br>365<br>N/A        | #Error                | pres: AMB<br>temp: AMB   | #Error             |

| Date: 01/1<br>Business N                      | Contraction of the | lips Lumileds                                               |                                                                                        |                    |                          | MAP IL                                         | : Buildin           | g 91                                   | Upper                                                   | -                     | 2: 72 of 84<br>Tity ID#: |                    |
|-----------------------------------------------|--------------------|-------------------------------------------------------------|----------------------------------------------------------------------------------------|--------------------|--------------------------|------------------------------------------------|---------------------|----------------------------------------|---------------------------------------------------------|-----------------------|--------------------------|--------------------|
| DOT<br>HAZ CLASS                              | Location           | CHEMICAL NAME<br>(COMMON NAME)                              | HAZARDOU                                                                               | S COM              | IPON                     | ENTS                                           | PHYSICAL<br>STATE   | QUA                                    | NTITIES                                                 | STORAGE<br>CONTAINERS | STORAGE<br>CODES         | SARA<br>CATEGORIES |
| 3: FLAMMABLE<br>AND<br>COMBUSTIBLE<br>LIQUIDS | West Lab           | Diethylene Glycol<br>Dimethyl Ether<br>()<br>CAS#: 111-96-6 | name<br>diethylene glycol<br>dimethyl ether                                            | ehs<br>Y           | <u>%</u><br>100          | <u>cas</u><br>111-96-6                         | LIQUID<br>(MIXTURE) | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 0.25 GAL<br>0.25 GAL<br>0.25 GAL<br>0 GAL<br>365<br>N/A | #Error                | pres: AMB<br>temp: AMB   | #Error             |
| 3: FLAMMABLE<br>AND<br>COMBUSTIBLE<br>LIQUIDS | West Lab           | Dynasolve 711<br>()<br>CAS#: NONE                           | name<br>propylene glycol<br>mono methyl<br>ether<br>potassium<br>hydroxide<br>methanol | ehs<br>N<br>N<br>N | <u>%</u><br>             | <u>cas</u><br>107-98-2<br>1310-58-3<br>67-56-1 | LIQUID<br>(MIXTURE) | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 2 GAL<br>2 GAL<br>1 GAL<br>0 GAL<br>365<br>N/A          | #Error                | pres: AMB<br>temp: AMB   | #Error             |
| 3: FLAMMABLE<br>AND<br>COMBUSTIBLE<br>LIQUIDS | West Lab           | Dynasolve 750<br>()<br>CAS#: NONE                           | name<br>propylene glycol<br>mono methyl<br>ether<br>potassium<br>hydroxide<br>methanol | ehs<br>N<br>N<br>N | <u>%</u><br>60<br>5<br>7 | <u>cas</u><br>107-98-2<br>1310-58-3<br>67-56-1 | LIQUID<br>(MIXTURE) | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 2 GAL<br>2 GAL<br>1 GAL<br>0 GAL<br>365<br>N/A          | #Error                | pres: AMB<br>temp: AMB   | #Error             |
| NONE                                          | West Lab           | Ethylene Glycol<br>()<br>CAS#: 107-21-1                     | name<br>ethylene glycol                                                                | ehs<br>N           | <u>%</u><br>100          | <u>cas</u><br>107-21-1                         | LIQUID<br>(PURE)    | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 1 GAL<br>1 GAL<br>1 GAL<br>0 GAL<br>365<br>N/A          | #Error                | pres: AMB<br>temp: AMB   | #Error             |
| NONE                                          | West Lab           | HD3561, Hardener<br>()<br>CAS#: 4246-51-9                   | <u>name</u><br>1-polyglycol<br>amine                                                   | <u>ehs</u><br>N    | <u>%</u><br>100          | <u>cas</u><br>4246-51-9                        | LIQUID<br>(MIXTURE) | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 0.25 GAL<br>0.25 GAL<br>0.25 GAL<br>0 GAL<br>365<br>N/A | #Error                | pres: AMB<br>temp: AMB   | #Error             |

| Business N                                    | ame: Phi | lips Lumileds                                                            |                                                           |                 | ļ                 | MAP ID                   | : Buildin           | g 91 l                                 | Jpper                                                   | Faci                  | ility ID#:             |                    |
|-----------------------------------------------|----------|--------------------------------------------------------------------------|-----------------------------------------------------------|-----------------|-------------------|--------------------------|---------------------|----------------------------------------|---------------------------------------------------------|-----------------------|------------------------|--------------------|
| DOT<br>HAZ CLASS                              | Location | CHEMICAL NAME<br>(COMMON NAME)                                           | HAZARDOUS                                                 | S CON           | IPON              | ents                     | PHYSICAL<br>STATE   | QUAN                                   | TITIES                                                  | STORAGE<br>CONTAINERS | STORAGE<br>CODES       | SARA<br>CATEGORIES |
| 3: FLAMMABLE<br>AND<br>COMBUSTIBLE<br>LIQUIDS | West Lab | Heptane<br>()<br>CAS#: 142-82-5                                          | <u>name</u><br>heptane                                    | ehs<br>N        | <u>%</u><br>100   | <u>cus</u><br>142-82-5   | LIQUID<br>(PURE)    | AVG<br>LC<br>WST                       | 1 GAL<br>1 GAL<br>0.25 GAL<br>0 GAL<br>365<br>N/A       | #Error                | pres: AMB<br>temp: AMB | #Error             |
| 3: FLAMMABLE<br>AND<br>COMBUSTIBLE<br>LIQUIDS | West Lab | Hexane<br>()<br>CAS#: 38661-72-2                                         | <u>name</u><br>hexane                                     | <u>ehs</u><br>N | <u>%</u><br>100 3 | <u>cas</u><br>38661-72-2 | LIQUID<br>(PURE)    | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 1.25 GAL<br>1.25 GAL<br>0.25 GAL<br>0 GAL<br>365<br>N/A | #Error                | pres: AMB<br>temp: AMB | #Error             |
| 3: FLAMMABLE<br>AND<br>COMBUSTIBLE<br>LIQUIDS | West Lab | HYDROTREATED<br>HEAVY PARAFFINIC<br>DISTILLATE<br>()<br>CAS#: 64742-54-7 | name<br>oil, severely<br>refined paraffinic<br>distillate | <u>ehs</u><br>N | <u>%</u><br>100 ( | <u>cas</u><br>54742-54-7 | LIQUID<br>(MIXTURE) | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 2 GAL<br>2 GAL<br>1 GAL<br>0 GAL<br>365<br>N/A          | #Error                | pres: AMB<br>temp: AMB | #Error             |
| 3: FLAMMABLE<br>AND<br>COMBUSTIBLE<br>LIQUIDS | West Lab | Isopropyl Alcohol<br>()<br>CAS#: 67-63-0                                 | name<br>isopropyl alcohol                                 | ehs<br>N        | <u>%</u><br>100   | <u>cas</u><br>67-63-0    | LIQUID<br>(PURE)    | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 2 GAL<br>2 GAL<br>1 GAL<br>0 GAL<br>365<br>N/A          | #Error                | pres: AMB<br>temp: AMB | #Error             |
|                                               |          | Methonol                                                                 | name                                                      | ehs             | %                 | cas                      |                     | un                                     | 1.23                                                    | 4 <b>5</b>            |                        | 4C                 |

| :: Flammable<br>IND<br>Combustible<br>Iquids | West Lab | Methanol<br>()<br>CAS#: 67-56-1 | <u>name</u><br>methanol | <u>ehs</u><br>N | <u>%</u><br>100 | <u>cas</u><br>67-56-1 | LIQUID<br>(PURE) | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 5 GAL<br>5 GAL<br>1 GAL<br>0 GAL<br>365<br>N/A | #Error | pres:<br>temp: | AMB<br>AMB | #Error |
|----------------------------------------------|----------|---------------------------------|-------------------------|-----------------|-----------------|-----------------------|------------------|----------------------------------------|------------------------------------------------|--------|----------------|------------|--------|
|                                              |          | x                               |                         |                 |                 |                       |                  |                                        |                                                |        |                |            |        |

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| Date: 01/1:<br>Business No                    | Contract of the | lips Lumileds                                      |                                                                                                 |                 |                       | MAP IL                                            | : Buildin           | ig 91                                  | Upper                                                    |                       | e: 74 of 84<br>ility ID#: |                    |
|-----------------------------------------------|-----------------|----------------------------------------------------|-------------------------------------------------------------------------------------------------|-----------------|-----------------------|---------------------------------------------------|---------------------|----------------------------------------|----------------------------------------------------------|-----------------------|---------------------------|--------------------|
| DOT<br>HAZ CLASS                              | Location        | CHEMICAL NAME<br>(COMMON NAME)                     | HAZARDOU                                                                                        | S COM           | IPON                  | ENTS                                              | PHYSICAL<br>STATE   | QUA                                    | NTITIES                                                  | STORAGE<br>CONTAINERS | STORAGE<br>CODES          | SARA<br>CATEGORIES |
| NONE                                          | West Lab        | Miscellaneous<br>Epoxies<br>()<br>CAS#: NONE       | name<br>miscellaneous<br>epoxies                                                                | ehs<br>N        | <u>%</u><br>100       | <u>cas</u>                                        | LIQUID<br>(PURE)    | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 2 GAL<br>2 GAL<br>2 GAL<br>0 GAL<br>365<br>N/A           | #Error                | pres: AMB<br>temp: AMB    | #Error             |
| NONE                                          | West Lab        | Miscellaneous LED<br>Colorants<br>()<br>CAS#: NONE | name<br>miscellaneous<br>led colorants                                                          | <u>ehs</u><br>N | <u>%</u><br>100<br>20 | <u>cas</u><br>7631-86-9                           | LIQUID<br>(PURE)    | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 20 LBS<br>20 LBS<br>1 LBS<br>0 LBS<br>365<br>N/A         | #Error                | pres: AMB<br>temp: AMB    | #Error             |
| NONE                                          | West Lab        | Miscellaneous<br>Silicones<br>()<br>CAS#: NONE     | mame<br>methyltriacetoxys<br>ilane<br>octamethylcyclot<br>etrasiloxane<br>ps340<br>silica fumed |                 | 5                     | <u>cas</u><br>4253-34-3<br>556-67-2<br>70131-67-8 | LIQUID<br>(MIXTURE) | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 2 LBS<br>2 LBS<br>0.2205 LBS<br>0 LBS<br>365<br>N/A      | #Error                | pres: AMB<br>temp: AMB    | NONE               |
| 2.2:<br>NONFLAMMABL<br>E GASES                | West Lab        | Nitrogen<br>()<br>CAS#: 7727-37-9                  | <u>name</u><br>nitrogen                                                                         | ehs<br>N        | <u>%</u><br>100       | <u>cas</u><br>7727-37-9                           | GAS<br>(PURE)       | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 230 CUFT<br>230 CUFT<br>230 CUFT<br>0 CUFT<br>365<br>N/A | #Error                | pres: > AMB<br>temp: AMB  | #Error             |
| 3: FLAMMABLE<br>AND<br>COMBUSTIBLE<br>LIQUIDS | West Lab        | Octane<br>()<br>CAS#: 296-98-8                     | name<br>octane                                                                                  | <u>ehs</u><br>N | <u>%</u><br>100       | <u>cas</u><br>296-98-8                            | LIQUID<br>(PURE)    | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 0.25 GAL<br>0.25 GAL<br>0.25 GAL<br>0 GAL<br>365<br>N/A  | #Error                | pres: AMB<br>temp: AMB    | #Error             |

| Date: 01/1<br>Business N                      |          | ilips Lumileds                                 |                                    |                 | M                   | AP ID                 | : Chemic            | al Ste                                 | orage                                                             |                       | e: 76 of<br>lity ID#. |                    |
|-----------------------------------------------|----------|------------------------------------------------|------------------------------------|-----------------|---------------------|-----------------------|---------------------|----------------------------------------|-------------------------------------------------------------------|-----------------------|-----------------------|--------------------|
| DOT<br>HAZ CLASS                              | Location | CHEMICAL NAME<br>(COMMON NAME)                 | HAZARDOU                           | S CON           | IPONEN              | TS                    | PHYSICAL<br>STATE   | QUAN                                   | NTITIES                                                           | STORAGE<br>CONTAINERS | STOR.<br>COD          | SARA<br>CATEGORIES |
| 3: FLAMMABLE<br>AND<br>COMBUSTIBLE<br>LIQUIDS | T-12     | Diesel Fuel<br>()<br>CAS#: 68476-34-6          | hame<br>diesel fuel                | <u>ehs</u><br>N | <u>%</u><br>100 684 | <u>cus</u><br>76-34-6 | LIQUID<br>(PURE)    | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 240 GAL<br>240 GAL<br>240 GAL<br>0 GAL<br>365<br>N/A              | #Error                | pres: 4<br>temp: 4    | #Error             |
| 3: FLAMMABLE<br>AND<br>COMBUSTIBLE<br>LIQUIDS | T-15     | Diesel Fuel<br>()<br>CAS#: 68476-34-6          | <u>name</u><br>diesel fuel         | <u>ehs</u><br>N | <u>%</u><br>100 684 | <u>cas</u><br>76-34-6 | LIQUID<br>(PURE)    | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 12000 GAL<br>5000 GAL<br>12000 GAL<br>0 GAL<br>365<br>N/A         | #Error                | pres: 4<br>temp: 4    | #Error             |
| 2.1:<br>FLAMMABLE<br>GASES                    | Т9       | Hydrogen, Liquid<br>()<br>CAS#: 1333-74-0      | <u>name</u><br>hydrogen, liquid    | <u>ehs</u><br>N | <u>%</u><br>100 133 | <u>cas</u><br>33-74-0 | LIQUID<br>(PURE)    | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 840000 CUFT<br>840000 CUFT<br>420000 CUFT<br>0 CUFT<br>365<br>N/A |                       | pres: ><br>temp: (    | #Error             |
| 2.2:<br>NONFLAMMABL<br>E GASES                | T9 👞     | Nitrogen, Liquid<br>()<br>CAS#: 7727-37-9      | <u>name</u><br>nitrogen, liquid    | <u>ehs</u><br>N | <u>%</u><br>100 772 | <u>cas</u><br>27-37-9 | LIQUID<br>(PURE)    | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 838098 CUFT<br>838098 CUFT<br>838098 CUFT<br>0 CUFT<br>365<br>N/A |                       | pres: ><br>temp: (    | #Error             |
| 8: Flammable<br>and<br>combustible<br>.iquids | W16      | Waste Stripper<br>Solution<br>()<br>CAS#: NONE | name<br>waste stripper<br>solution | <u>ehs</u><br>N | <u>%</u><br>100     | <u>cas</u>            | LIQUID<br>(MIXTURE) | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 718 GAL<br>500 GAL<br>718 GAL<br>21600 GAL<br>365<br>N/A          | #Error                | pres: 4<br>temp: 4    | #Error             |

| Date: <b>01/1</b><br>Business N |          | lips Lumileds                         |                                  | Λ               | MAP I           | D: Buildin | g 91 (              | Upper                                  | 0                                                     | 2: 75 of 84<br>lity ID#: |                          |                    |
|---------------------------------|----------|---------------------------------------|----------------------------------|-----------------|-----------------|------------|---------------------|----------------------------------------|-------------------------------------------------------|--------------------------|--------------------------|--------------------|
| DOT<br>HAZ CLASS                | Location | CHEMICAL NAME<br>(COMMON NAME)        | HAZARDOU                         | s con           | MPONE           | INTS       | PHYSICAL<br>STATE   | QUAI                                   | TITIES                                                | STORAGE<br>CONTAINERS    | STORAGE<br>CODES         | SARA<br>CATEGORIES |
| NONE                            | West Lab | Oil (hydrocarbon)<br>()<br>CAS#: NONE | <u>name</u><br>oil (hydrocarbon) | <u>ehs</u><br>N | <u>%</u><br>100 | <u>cas</u> | LIQUID<br>(MIXTURE) | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 5 GAL<br>5 GAL<br>5 GAL<br>0 GAL<br>365<br>N/A        | #Error                   | pres: AMB<br>temp: AMB   | NONE               |
| 2.1:<br>FLAMMABLE<br>GASES      | West Lab | Paint, Spray<br>()<br>CAS#: NONE      | <u>name</u><br>paint, spray      | <u>ehs</u><br>N | <u>%</u><br>100 | cas        | LIQUID<br>(MIXTURE) | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 4.5 GAL<br>4.5 GAL<br>0.75 GAL<br>0 GAL<br>365<br>N/A | #Error                   | pres: > AMB<br>temp: AMB | #Error             |

| Date: 01/1.<br>Business No                    |          | ilips Lumileds                                    |                       |                 | Ι               | MAP I      | D: Chemic           | al Sto                                 | orage                                                      | 0                     | 2: 77 of 84<br>lity ID#: |                    |
|-----------------------------------------------|----------|---------------------------------------------------|-----------------------|-----------------|-----------------|------------|---------------------|----------------------------------------|------------------------------------------------------------|-----------------------|--------------------------|--------------------|
| DOT<br>HAZ CLASS                              | Location | CHEMICAL NAME<br>(COMMON NAME)                    | HAZARDOU              | US COM          | MPONE           | ENTS       | PHYSICAL<br>STATE   | QUAN                                   | TITIES                                                     | STORAGE<br>CONTAINERS | STORAGE<br>CODES         | SARA<br>CATEGORIES |
| 3: Flammable<br>and<br>combustible<br>liquids | W2       | Waste Solvent<br>(Empty on Standby)<br>CAS#: NONE | name<br>waste solvent | ehs<br>N        | <u>%</u><br>100 | <u>cas</u> | LIQUID<br>(MIXTURE) | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 1200 GAL<br>0 GAL<br>1200 GAL<br>0 GAL<br>365<br>N/A       | #Error                | pres: AMB<br>temp: AMB   | #Error             |
| 3: FLAMMABLE<br>AND<br>COMBUSTIBLE<br>LIQUIDS | W3       | Waste Solvent<br>()<br>CAS#: NONE                 | name<br>waste solvent | <u>ehs</u><br>N | <u>%</u><br>100 | <u>cas</u> | LIQUID<br>(MIXTURE) | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 1200 GAL<br>500 GAL<br>1200 GAL<br>20000 GAL<br>365<br>N/A | #Error                | pres: AMB<br>temp: AMB   | #Error             |

| Date: 01/1:<br>Business No     |          | ilips Lumileds                                                    |                              |                 |                 | MAP IL                  | : Gas Va          | ult                                    |                                                              |                       | e: 78 of 84<br>lity ID#:  |                    |
|--------------------------------|----------|-------------------------------------------------------------------|------------------------------|-----------------|-----------------|-------------------------|-------------------|----------------------------------------|--------------------------------------------------------------|-----------------------|---------------------------|--------------------|
| DOT<br>HAZ CLASS               | Location | CHEMICAL NAME<br>(COMMON NAME)                                    | HAZARDOU                     | US CON          | 1PON            | ENTS                    | PHYSICAL<br>STATE | QUAN                                   | NTITIES                                                      | STORAGE<br>CONTAINERS | STORAGE<br>CODES          | SARA<br>CATEGORIES |
| 2.2:<br>NONFLAMMABL<br>E GASES | 103      | Argon, Liquid<br>()<br>CAS#: 7440-37-1                            | <u>name</u><br>argon, liquid | <u>ehs</u><br>N | <u>%</u><br>100 | <u>cas</u><br>7440-37-1 | GAS<br>(PURE)     | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 5764 CUFT<br>5764 CUFT<br>5764 CUFT<br>0 CUFT<br>365<br>N/A  | #Error                | pres: > AMB<br>temp: CRYO | #Error             |
| 2.3: TOXIC<br>GASES            | 103      | Chlorine 100%<br>()<br>CAS#: 7782-50-5                            | name<br>chlorine 100%        | <u>ehs</u><br>Y | <u>%</u><br>100 | <u>cas</u><br>7782-50-5 | GAS<br>(PURE)     | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 486 CUFT<br>486 CUFT<br>486 CUFT<br>0 CUFT<br>365<br>N/A     | #Error                | pres: > AMB<br>temp: AMB  | #Error             |
| 2.2:<br>NONFLAMMABL<br>E GASES | 103      | Helium<br>()<br>CAS#: 7440-59-7                                   | <u>name</u><br>helium        | <u>ehs</u><br>N | <u>%</u><br>100 | <u>cas</u><br>7440-59-7 | GAS<br>(PURE)     | AVG<br>LC<br>WST<br>DAYS               | 77 CUFT<br>77 CUFT<br>77 CUFT<br>0 CUFT<br>365<br>N/A        | #Error                | pres: > AMB<br>temp: AMB  | #Error             |
| 2.3: TOXIC<br>GASES            | 103      | Hydrogen Chloride<br>100%<br>()<br>CAS#: 7647-01-0                | hydrogen<br>chloride 100%    | <u>ehs</u><br>N | <u>%</u><br>100 | <u>cas</u><br>7647-01-0 | GAS<br>(PURE)     | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 13992 CUFT<br>11660 CUFT<br>583 CUFT<br>0 CUFT<br>365<br>N/A |                       | pres: > AMB<br>temp: AMB  | #Error             |
| 2.2:<br>NONFLAMMABL<br>E GASES | 103      | <ul> <li>Nitrogen</li> <li>()</li> <li>CAS#: 7727-37-9</li> </ul> | <u>name</u><br>nitrogen      | <u>ehs</u><br>N | <u>%</u><br>100 | <u>cas</u><br>7727-37-9 | GAS<br>(PURE)     | DAYS                                   | 2990 CUFT<br>2990 CUFT<br>230 CUFT<br>0 CUFT<br>365<br>N/A   | #Error                | pres: > AMB<br>temp: AMB  | #Error             |

| Date: 01/1:<br>Business No     |          | ilips Lumileds                                                    |                                |                      |                      | MAP ID                                | : Gas Va          | ult                                    |                                                             |                       | e: 79 o<br>lity ID |              |                    |
|--------------------------------|----------|-------------------------------------------------------------------|--------------------------------|----------------------|----------------------|---------------------------------------|-------------------|----------------------------------------|-------------------------------------------------------------|-----------------------|--------------------|--------------|--------------------|
| DOT<br>HAZ CLASS               | Location | CHEMICAL NAME<br>(COMMON NAME)                                    | HAZARDO                        | US CON               | IPON                 | ENTS                                  | PHYSICAL<br>STATE | QUAN                                   | TITIES                                                      | STORAGE<br>CONTAINERS |                    | RAGE<br>DES  | SARA<br>CATEGORIES |
| 2.2:<br>NONFLAMMABL<br>E GASES | 105      | <ul> <li>Nitrogen</li> <li>()</li> <li>CAS#: 7727-37-9</li> </ul> | <u>name</u><br>nitrogen        | <u>ehs</u><br>N      | <u>%</u><br>100      | <u>cas</u><br>7727-37-9               | GAS<br>(PURE)     | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 4600 CUFT<br>3910 CUFT<br>230 CUFT<br>0 CUFT<br>365<br>N/A  | #Error                | pres:<br>temp:     | > AMB<br>AMB | #Error             |
| 2.3: TOXIC<br>GASES            | 106      | Arsine 100%<br>()<br>CAS#: 7784-42-1                              | name<br>arsine 100%            | ehs<br>Y             | <u>%</u><br>100      | <u>cas</u><br>7784-42-1               | GAS<br>(PURE)     | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 3750 CUFT<br>3000 CUFT<br>150 CUFT<br>0 CUFT<br>365<br>N/A  | #Error                | pres:<br>temp:     | > AMB<br>AMB | #Error             |
| 2.2:<br>NONFLAMMABL<br>E GASES | 106      | <ul> <li>Nitrogen</li> <li>()</li> <li>CAS#: 7727-37-9</li> </ul> | <u>name</u><br>nitrogen        | <u>ehs</u><br>N      | <u>%</u><br>100      | <u>cas</u><br>7727-37-9               | GAS<br>(PURE)     | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 11500 CUFT<br>9200 CUFT<br>230 CUFT<br>0 CUFT<br>365<br>N/A | #Error                | pres:<br>temp:     | > AMB<br>AMB | #Error             |
| 2.3: TOXIC<br>GASES            | 106      | Phosphine 10% in<br>Hydrogen<br>()<br>CAS#: NONE                  | name<br>phosphine<br>hydrogen  | <u>ehs</u><br>Y<br>N | <u>%</u><br>10<br>90 | <u>cas</u><br>7803-51-2<br>133-74-0   | GAS<br>(MIXTURE)  | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 5080 CUFT<br>4572 CUFT<br>254 CUFT<br>0 CUFT<br>365<br>N/A  | #Error                |                    | > AMB<br>AMB | #Error             |
| 2.2:<br>NONFLAMMABL<br>E GASES | 106      | Silane 100 ppm in<br>Argon<br>()<br>CAS#: NONE                    | <u>name</u><br>silane<br>argon | <u>ehs</u><br>N<br>N |                      | <u>cas</u><br>7803-62-5<br>97440-37-1 | GAS<br>(MIXTURE)  | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 3322 CUFT<br>3322 CUFT<br>302 CUFT<br>0 CUFT<br>365<br>N/A  | #Error                | pres:<br>temp:     | > AMB<br>AMB | #Error             |

| Date: 01/1:<br>Business No     |          | ilips Lumileds                                         |                                       |                      |                 | MAP IL                               | ): Gas Va         | ult                                    |                                                            |                       | e: 80 of 84<br>ility ID#: |                    |
|--------------------------------|----------|--------------------------------------------------------|---------------------------------------|----------------------|-----------------|--------------------------------------|-------------------|----------------------------------------|------------------------------------------------------------|-----------------------|---------------------------|--------------------|
| DOT<br>HAZ CLASS               | Location | CHEMICAL NAME<br>(COMMON NAME)                         | HAZARDOU                              | S COM                | PON             | ENTS                                 | PHYSICAL<br>STATE | QUAI                                   | NTITIES                                                    | STORAGE<br>CONTAINERS | STORAGE<br>CODES          | SARA<br>CATEGORIES |
| 2.2:<br>NONFLAMMABL<br>E GASES | 106 🎙    | Tetrafluoromethane<br>(Halocarbon 14)<br>CAS#: 75-73-0 | <u>nume</u><br>tetrafluoromethar<br>e | <u>ehs</u><br>n N    | <u>%</u><br>100 | <u>cas</u><br>75-73-0                | GAS<br>(PURE)     | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 308 CUFT<br>308 CUFT<br>308 CUFT<br>0 CUFT<br>365<br>N/A   | #Error                | pres: > AMB<br>temp: AMB  | #Error             |
| 2.2:<br>NONFLAMMABL<br>E GASES | 107      | Nitrogen<br>()<br>CAS#: 7727-37-9                      | <u>name</u><br>nitrogen               | <u>ehs</u><br>N      | <u>%</u><br>100 | <u>cas</u><br>7727-37-9              | GAS<br>(PURE)     | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 3450 CUFT<br>3220 CUFT<br>230 CUFT<br>0 CUFT<br>365<br>N/A | #Error                | pres: > AMB<br>temp: AMB  | #Error             |
| 2.3: TOXIC<br>GASES            | 107      | Phosphine 100%<br>()<br>CAS#: 7803-51-2                | <u>name</u><br>phosphine 100%         | ehs<br>Y             | <u>%</u><br>100 | <u>cas</u><br>7803-51-2              | GAS<br>(PURE)     | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 9576 CUFT<br>7524 CUFT<br>342 CUFT<br>0 CUFT<br>365<br>N/A | #Error                | pres: > AMB<br>temp: AMB  | #Error             |
| 2.1:<br>FLAMMABLE<br>GASES     | 107      | Silane 25% ppm in<br>Helium<br>()<br>CAS#: NONE        | <u>name</u><br>silane<br>helium       | <u>ehs</u><br>N<br>N |                 | <u>cas</u><br>7803-62-5<br>7440-59-7 | GAS<br>(MIXTURE)  | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 302 CUFT<br>302 CUFT<br>302 CUFT<br>0 CUFT<br>365<br>N/A   | #Error                | pres: > AMB<br>temp: AMB  | #Error             |
| 2.3: TOXIC<br>GASES            | Bay A 🥑  | Chlorine 100%<br>()<br>CAS#: 7782-50-5                 | name<br>chlorine 100%                 | <u>ehs</u><br>Y      | <u>%</u><br>100 | <u>cas</u><br>7782-50-5              | GAS<br>(PURE)     | AVG<br>LC<br>WST<br>DAYS               | 486 CUFT<br>486 CUFT<br>486 CUFT<br>0 CUFT<br>365<br>N/A   | #Error                | pres: > AMB<br>temp: AMB  | #Error             |

| MAP ID: Gas Vault |  |
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Date: 01/13/2012

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| Business No                    | ame: Ph  |                                                    |                                   | MA                   | P ID                                    | : Gas Va             | ult               |                                        | Faci                                                       | lity ID#:             |                          |                    |
|--------------------------------|----------|----------------------------------------------------|-----------------------------------|----------------------|-----------------------------------------|----------------------|-------------------|----------------------------------------|------------------------------------------------------------|-----------------------|--------------------------|--------------------|
| DOT<br>HAZ CLASS               | Location | CHEMICAL NAME<br>(COMMON NAME)                     | HAZARDOU                          | US CON               | IPONENT                                 | S                    | PHYSICAL<br>STATE | QUAN                                   | TITIES                                                     | STORAGE<br>CONTAINERS | STORAGE<br>CODES         | SARA<br>CATEGORIES |
| 2.3: TOXIC<br>GASES            | Bay A    | Hydrogen Chloride<br>100%<br>()<br>CAS#: 7647-01-0 | name<br>hydrogen<br>chloride 100% | <u>ehs</u><br>N      | <u>%</u> <u>c</u><br>100 7647           | 7-01-0               | GAS<br>(PURE)     | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 6413 CUFT<br>5830 CUFT<br>583 CUFT<br>0 CUFT<br>365<br>N/A | #Error                | pres: > AMB<br>temp: AMB | #Error             |
| 2.3: TOXIC<br>GASES            | Bay B    | Arsine 100%<br>()<br>CAS#: 7784-42-1               | name<br>arsine 100%               | ehs<br>Y             | <u>%</u> <u>c</u><br>100 7784           | <u>as</u><br>1-42-1  | GAS<br>(PURE)     | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 900 CUFT<br>900 CUFT<br>150 CUFT<br>0 CUFT<br>365<br>N/A   | #Error                | pres: > AMB<br>temp: AMB | #Error             |
| 2.2:<br>NONFLAMMABL<br>E GASES | Bay B    | Breathing Air<br>()<br>CAS#: NONE                  | <u>name</u><br>oxygen<br>nitrogen | <u>ehs</u><br>N<br>N | <u>%</u> <u>c</u><br>21 7782<br>79 7727 |                      | GAS<br>(MIXTURE)  |                                        | 2170 CUFT<br>930 CUFT<br>310 CUFT<br>0 CUFT<br>365<br>N/A  | #Error                | pres: > AMB<br>temp: AMB | #Error             |
| 2.2:<br>NONFLAMMABL<br>E GASES | Bay B    | Helium<br>()<br>CAS#: 7440-59-7                    | <u>name</u><br>helium             | <u>ehs</u><br>N      | <u>% c</u><br>100 7440                  | <u>cas</u><br>0-59-7 | GAS<br>(PURE)     | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 231 CUFT<br>231 CUFT<br>77 CUFT<br>0 CUFT<br>365<br>N/A    | #Error                | pres: > AMB<br>temp: AMB | #Error             |
| 2.1:<br>FLAMMABLE<br>GASES     | Bay B    | Hydrogen<br>()<br>CAS#: 1333-74-0                  | <u>name</u><br>hydrogen           | <u>ehs</u><br>N      | <u>%</u> <u>c</u><br>100 1333           | <u>:as</u><br>3-74-0 | GAS<br>(PURE)     | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 1290 CUFT<br>774 CUFT<br>258 CUFT<br>0 CUFT<br>365<br>N/A  | #Error                | pres: > AMB<br>temp: AMB | #Error             |

| Date: 01/1:<br>Business No     | lips Lumileds |                                                  |                                      | MAP ID               | : Gas Va                                                                   | Page<br>Faci      |                                        |                                                            |                       |                          |                    |
|--------------------------------|---------------|--------------------------------------------------|--------------------------------------|----------------------|----------------------------------------------------------------------------|-------------------|----------------------------------------|------------------------------------------------------------|-----------------------|--------------------------|--------------------|
| DOT<br>HAZ CLASS               | Location      | CHEMICAL NAME<br>(COMMON NAME)                   | HAZARDOU                             | s co.                | MPONENTS                                                                   | PHYSICAL<br>STATE | QUAN                                   | VTITIES                                                    | STORAGE<br>CONTAINERS | STORAGE<br>CODES         | SARA<br>CATEGORIES |
| 2.2:<br>NONFLAMMABL<br>E GASES | Bay B         | Nitrogen<br>()<br>CAS#: 7727-37-9                | <u>name</u><br>nitrogen              | ehs<br>N             | <u>% cas</u><br>100 7727-37-9                                              | GAS<br>(PURE)     | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 2300 CUFT<br>2300 CUFT<br>230 CUFT<br>0 CUFT<br>365<br>N/A | #Error                | pres: > AMB<br>temp: AMB | #Error             |
| 2.2:<br>NONFLAMMABL<br>E GASES | Bay B         | Oxygen<br>()<br>CAS#: 7782-44-7                  | <u>name</u><br>oxygen                | <u>ehs</u><br>N      | <u>% cas</u><br>100 7782-44-7                                              | GAS<br>(PURE)     | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 498 CUFT<br>498 CUFT<br>249 CUFT<br>0 CUFT<br>365<br>N/A   | #Error                | pres: > AMB<br>temp: AMB | #Error             |
| 2.3: TOXIC<br>GASES            | Bay B         | Phosphine 10% in<br>Hydrogen<br>()<br>CAS#: NONE | <u>name</u><br>phosphine<br>hydrogen | ehs<br>Y<br>N        | %         cas           10         7803-51-2           90         133-74-0 | GAS<br>(MIXTURE)  | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 3302 CUFT<br>2032 CUFT<br>254 CUFT<br>0 CUFT<br>365<br>N/A | #Error                | pres: > AMB<br>temp: AMB | #Error             |
| 2.3: TOXIC<br>GASES            | Bay B 🎍       | Phosphine 100%<br>()<br>CAS#: 7803-51-2          | name<br>phosphine 100%               | ehs<br>Y             | <u>% cus</u><br>100 7803-51-2                                              | GAS<br>(PURE)     | AVG<br>LC<br>WST<br>DAYS               | 4104 CUFT<br>2736 CUFT<br>342 CUFT<br>0 CUFT<br>365<br>N/A | #Error                | pres: > AMB<br>temp: AMB | #Error             |
| 2.2:<br>NONFLAMMABL<br>E GASES | Bay B         | Silane 10 ppm in<br>Argon<br>()<br>CAS#: NONE    | <u>name</u><br>silane<br>argon       | <u>ehs</u><br>N<br>N | <u>%</u> <u>cas</u><br>0.0017803-62-5<br>99.9997440-37-1                   | GAS<br>(MIXTURE)  | AVG<br>LC<br>WST                       | 472 CUFT<br>472 CUFT<br>236 CUFT<br>0 CUFT<br>N/A<br>N/A   | #Error                | pres: > AMB<br>temp: AMB | #Error             |

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| Date: 01/1.<br>Business No     | ilips Lumileds |                                                   |                                 | MAP II               | ): Gas Va                                        | Page: 83 of 84<br>Facility ID#: |                                        |                                                            |                       |                          |                    |
|--------------------------------|----------------|---------------------------------------------------|---------------------------------|----------------------|--------------------------------------------------|---------------------------------|----------------------------------------|------------------------------------------------------------|-----------------------|--------------------------|--------------------|
| DOT<br>HAZ CLASS               | Location       | CHEMICAL NAME<br>(COMMON NAME)                    | HAZARDOU.                       | s col                | <b>MPONENTS</b>                                  | PHYSICAL<br>STATE               | QUAN                                   | TITIES                                                     | STORAGE<br>CONTAINERS | STORAGE<br>CODES         | SARA<br>CATEGORIES |
| 2.2:<br>NONFLAMMABL<br>E GASES | Bay B          | Silane 100 ppm in<br>Argon<br>()<br>CAS#: NONE    | <u>name</u><br>silane<br>argon  | <u>ehs</u><br>N<br>N | <u>% cas</u><br>0.01 7803-62-5<br>99.997440-37-1 | GAS<br>(MIXTURE)                | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 3926 CUFT<br>3926 CUFT<br>302 CUFT<br>0 CUFT<br>365<br>N/A | #Error                | pres: > AMB<br>temp: AMB | #Error             |
| 2.3: TOXIC<br>GASES            | Bay C          | Arsine 100%<br>()<br>CAS#: 7784-42-1              | name<br>arsine 100%             | <u>ehs</u><br>Y      | <u>% cas</u><br>100 7784-42-1                    | GAS<br>(PURE)                   | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 450 CUFT<br>450 CUFT<br>150 CUFT<br>0 CUFT<br>365<br>N/A   | #Error                | pres: > AMB<br>temp: AMB | #Error             |
| 2.3: TOXIC<br>GASES            | Bay C          | Phosphine 100%<br>()<br>CAS#: 7803-51-2           | <u>name</u><br>phosphine 100%   | ehs<br>Y             | <u>% cas</u><br>100 7803-51-2                    | GAS<br>(PURE)                   | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 4104 CUFT<br>2736 CUFT<br>342 CUFT<br>0 CUFT<br>365<br>N/A | #Error                | pres: > AMB<br>temp: AMB | #Error             |
| 2.2:<br>NONFLAMMABL<br>E GASES | Bay C          | Silane 1.3% in Helium<br>()<br>CAS#: NONE         | <u>name</u><br>silane<br>helium | <u>ehs</u><br>N<br>N | 26 cas<br>1.3 7803-62-5<br>98.7 7440-59-7        | GAS<br>(MIXTURE)                | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 3926 CUFT<br>3926 CUFT<br>302 CUFT<br>0 CUFT<br>365<br>N/A | #Error                | pres: > AMB<br>temp: AMB | #Error             |
| 2.1:<br>FLAMMABLE<br>GASES     | Bay C          | Silane 100 ppm in<br>Hydrogen<br>()<br>CAS#: NONE | name<br>silane<br>hydrogen      | ehs<br>N<br>N        | <u>% cas</u><br>0.01 7803-62-5<br>99.99 133-74-0 | GAS<br>(MIXTURE)                | MAX<br>AVG<br>LC<br>WST<br>DAVS<br>CUR | 236 CUFT<br>236 CUFT<br>236 CUFT<br>0 CUFT<br>365<br>N/A   | #Error                | pres: > AMB<br>temp: AMB | #Error             |

| Business Name: Philips Lumileds               |                    |                                       |                             |                 |                   | MAP ID                   | : Gas Va          | ult                                    |                                                                | Faci                  |                            |                    |
|-----------------------------------------------|--------------------|---------------------------------------|-----------------------------|-----------------|-------------------|--------------------------|-------------------|----------------------------------------|----------------------------------------------------------------|-----------------------|----------------------------|--------------------|
| DOT<br>HAZ CLASS                              | Location           | CHEMICAL NAME<br>(COMMON NAME)        | HAZARDOU                    | S COM           | MPON              | ENTS                     | PHYSICAL<br>STATE | QUAI                                   | NTITIES                                                        | STORAGE<br>CONTAINERS | STORAGE<br>CODES           | SARA<br>CATEGORIES |
| 2.2:<br>NONFLAMMABL<br>E GASES                | Bulk NH3<br>Pad    | Ammonia 100%<br>()<br>CAS#: 7664-41-7 | <u>name</u><br>ammonia 100% | ehs<br>Y        | <u>%</u><br>100   | <u>cas</u><br>7664-41-7  | LIQUID<br>(PURE)  | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 1216720 CU<br>608360 CUF<br>608360 CUF<br>0 CUFT<br>365<br>N/A | ۲                     | pres: > AMB<br>temp: > AMB | #Error             |
| 3: FLAMMABLE<br>AND<br>COMBUSTIBLE<br>LIQUIDS | Under<br>Generator | Diesel Fuel<br>()<br>CAS#: 68476-34-6 | <u>name</u><br>diesel fuel  | <u>ehs</u><br>N | <u>%</u><br>100 6 | <u>cas</u><br>68476-34-6 | LIQUID<br>(PURE)  | MAX<br>AVG<br>LC<br>WST<br>DAYS<br>CUR | 250 GAL<br>250 GAL<br>250 GAL<br>0 GAL<br>365<br>N/A           | #Error                | pres: AMB<br>temp: AMB     | #Error             |

#### Emergency Response Team Program Plan



370 West Trimble Road San Jose, California 95131 January 20, 2012





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#### C. ERT RESPONSE TO CALL-OUT

Upon being paged, team members will group at the designated area and await instructions from the IC.

D. MERT RESPONSE TO CALL-OUT

In a medical emergency, the MERT will respond to the scene of the emergency, bringing supplies to that location.

E. ERT RESPONSE TO BUILDING EVACUATION

The ERT and MERT will report to the Building 91 flagpole to await further instructions from the IC.

#### **IV. MEDICAL EMERGENCY**

A. MEDICAL COVERAGE

Emergency coverage will be provided by the site OHN and/or shift Medical Emergency Response Team.

B. OHN/MERT Actions for Medical Emergencies Response

The OHN or MERT members arriving at the scene will assume charge of the injured person(s). She/he will ensure that the following takes place:

- 1. Assess the victim's condition.
- 2. Assign first aid support roles, as needed.
- 3. Ensure that the patient's safety is the first priority throughout the incident.
- 4. Ensure that a MERT member is with the victim at all times.
- 5. Inform SRC/IC whether or not an ambulance is required:
  - (a) It is important to tell the 911 operator the suspected nature of the medical emergency.
  - (b) Confirm with the SRC Operator/IC that an ambulance was contacted and ask for arrival time.
- 6. Keep Incident Commander updated.
- 7. Emergency care will be provided to victim(s) until they are released by the OHN/MERT.
- C. IC's Actions for Medical Emergencies Response

Upon arriving at the scene, the Incident Commander will assume procedural charge of the emergency. He/she will ensure that the following takes place:

- 1. Ensure that the patient's safety is the first priority throughout the incident.
- 2. Ensure that the MERT members responding to the incident is thoroughly protected against all injurious or hazardous conditions.
- 3. Ensure that an OHN, MERT, or ERT member is with the victim at all times.

- 2. Determine whether ERT should be called out.
- 3. Establish a command post in the "Cold Zone" of the incident.
- 4. The command post will function as a communication center. The Incident Commander will be the overall authority and must remain stationed at the Command Post. All communications and decisions will come from this source.
- 5. Assign roles (Safety, Operations, Security, etc.) as needed.
- 6. Decide on necessity of shutdown, evacuation, search and rescue.
- C. Evaluate Need for Evacuation
  - 1. Evacuate anyone present in the "Hot or Warm Zone" of the Incident.
  - 2. Evaluate if the building needs to be evacuated by considering the following questions:
    - a. Use alarm system(s) to determine the need for evacuation.
    - b. Should building air intakes be closed?
    - c. Should any pipe valves be closed?
    - d. If toxic gases are involved, determine wind direction and direct all personnel upwind for their protection.
    - e. Should other hazardous or non-compatible material be quickly moved to another location?
    - f. Should any electrical sources be shut off?
  - 3. ERT members will assist in any evacuations. Posted evacuation routes in work areas will be used during evacuations except when incident activities or zones block posted evacuation routes. In these cases, employees must be rerouted to alternate evacuation routes.
- D. Securing the Area

1. Hot and Warm zones need to be determined based on nature of incident. These off-limit areas surrounding the incident should be cordoned off immediately with barrier tape and traffic cones. Stairways and elevators leading to an off-limit area should also be secured.

- 2. Site Security, along with area's managers, should assist in monitoring these boundaries so only authorized personnel are allowed to enter.
- E. Entry Team

A buddy team consisting of two Entry Team members (two backup ready to assist) should enter the hazardous area as soon as possible to identify the spilled product and its hazards.

- 1. These two entry team members should be equipped with full protective suits and respiratory protection as needed.
- 2. Personal protection and equipment to be used should be determined by the IC and the Safety Officer.

F. Containment/Spill Cleanup for Large Spills Greater Than 2' Diameter (Spills less than 2' diameter may be handled locally)

1. IC establishes ERT command post in a non-hazardous location. Assesses and evaluates the emergency:


The IC determines whether the gas release is within the ERT's capabilities. If not, the San Jose Fire Department is notified. If this is the case, then ERT will assist the San Jose Fire Department, serve as a resource, and ensure personnel safety.

- 4. The ERT assembles at the Command Post.
- 5. The IC will ensure that emergency shut-off valves are activated either automatically by the Life Safety System or manually from the emergency control station in the Security Response Center.
- 6. Perimeter of hazard area is secured by Security and ERT. The IC will determine if additional evacuations are necessary.
- 7. Any rescue operations will be conducted by ERT rescue crews wearing appropriate levels of PPE. After victims are removed from the hazard area, they should be decontaminated as necessary, prior to being turned over to the OHN or MERT members for first aid.
- 8. For situations that require ERT entry into the affected area, the IC will assess the situation and direct the ERT members to don the appropriate PPE (based on input from the Safety Officer) for entry into the affected area. Typically the PPE requirements for entry into a toxic gas scenario would include: SCBA, chemical protective gloves, and an encapsulating suit if a corrosive environment might be anticipated.
- 9. The IC will select the necessary air monitoring equipment for ERT members to evaluate the source and the extent of the release (i.e. MDA TLD Gas Monitor; Micro5PID monitor).
- 10. In cases where a shut-off valve cannot be activated remotely from the SRC, then ERT should attempt a shutdown of the leaking gas source by closing manual valves, if this can be done without risk. Any tools or equipment that might be utilized to stop or control the gas release should be included. (Note: Only non-sparking tools may be used in conditions where flammable or explosive condition may exist).
- 11. ERT members may enter the affected area, only after it has been determined that they are properly protected against any threat to their health and safety, in teams of two and with one member in constant radio contact with the Operations or Entry Leader.
- 12. Upon entering the area the ERT members may then identify and evaluate the source of the gas leak and stop the flow of gas if they have the means of doing so and there is no apparent threat to their health and safety.
- 13. If a gas leak cannot be contained or treated effectively, then the EHS Department must be alerted in order to contact the appropriate regulatory agencies for notification of significant gas concentrations that might escape the boundaries of the facility and have a potential impact on the surrounding community.
- 14. Immediately after the emergency, once the materials are decontaminated, packaged, and labeled the Environmental Engineer/Emergency Coordinator shall provide for treating, storing, or disposing of recovered waste, contaminated soil or surface water, or any other material that results from a release, fire or explosion at the facility.
- 15. The ERT will restore equipment to state of readiness and document the incident response during a debriefing.

All other hazardous gas release will follow the below procedure.

1. SRC will activate the ERT, and review the Life Safety/Gas Monitoring Systems for indications of a release, noting the location and extent of the release.

results from a release, fire or explosion at the facility.

- 16. The ERT will restore equipment to state of readiness and document the incident response during a debriefing.
- H. Agency Notification
  - The Incident Commander should consult with the Environmental Engineer about the need to notify the agencies listed below. If such an accidental release occurs, the facility must immediately notify the local emergency planning commission and state emergency response commission for any area likely to be affected by the release. In addition, spills of CERCLA hazardous substances must also be reported to the National Response Center at 800-424-8802.
    - a. Office of Emergency Services (800-852-7550)
    - b. Regional Water Quality Board (510-622-2369)
    - c. Cal/OSHA District Office (Oakland) (510-622-2916)
    - d. Dept. of Fish & Game (707-944-5523)
    - e. BAAQMD (415-771-6000)
    - f. SJ/SC Water Pollution Control Plant (408-793-5375 or 408-945-3000) Sanitary Sewer Overflow (SSO) Dispatch (408-794-1900) SC County (408-918-3400)
    - g. Dept. of Toxic Substances Control (510-540-2122)
  - <sup>\*</sup> 2. In the event of a significant fire, the San Jose Fire Department will be automatically notified via internal systems. When the Fire Department arrives on site, all Response Team efforts will come under their control. Response Team members will stand by in advisory capacity to assist where needed and directed by the Fire Department person in charge.

## VI. ERT ORGANIZATION

- A. Team Organization
  - 1. ERT is comprised of the ERT Program Manager, Incident Commanders, OHN, MERT, Chemical Handlers, Facilities, Production and Line Maintenance personnel. The Program Manager will act as backup for the Incident Commanders.
  - 2. In-house Support Personnel: Support groups (including environmental engineering, facilities operations/maintenance, process engineering, design engineering, etc.) consisting of persons with process, chemical and safety backgrounds and available for advice to the Incident Commander.

## VII. RESPONSIBILITIES OF TEAM MEMBERS

- A. Responsibilities of ERT Program Manager
  - 1. Selection of team members.
  - 2. Provides training for ERT team, both monthly training as well as 40 hour training.
  - 3. Evaluation of team performance.

- 3. Coordinates Medical activities with operations during joint emergencies.
- 4. Passes medical information over to ambulance on arrival.
- E. Responsibilities of Entry team
  - 1. Removes victims.
  - 2. Identify the spill.
  - 3. Contain the spill.
  - 4. Assist in shutting down production equipment.
  - 5. Decon victims, personnel and equipment.
  - 6. Cleanup the spill.
- F. Responsibilities of ERT
  - 1. Assist in roping off area of concern and crowd control.
  - 2. Assist OHN or MERT in the care of injured persons.
  - 3. Suit-up Entry Team and Decon Team.
  - 4. Review MSDS and other reference materials.
  - 5. Maintain emergency response equipment and supplies.

## **VIII. RESPONSIBILITIES OF IN-HOUSE SUPPORT PERSONNEL**

Other support groups (including facilities electricians, HVAC, plumbing, engineering, process engineering, design engineering, etc.) consisting of persons with process, chemical and safety backgrounds are available for advice to the Incident Commander.

- A. Responsibilities of Health & Safety Staff
  - 1. The Safety Liaison will act as a resource for ERT IC when present.
  - 2. The Occupational Health Nurse will act as a resource to MERT and ERT IC when present.
  - 3. Provide training courses and drills to ERT members and MERT, as required.
  - 4. Notify outside regulatory agencies when required (e.g., Fire Department, Cal/OSHA, etc.).
- B. Responsibilities of SRC Staff
  - 1. Monitor alarms.
  - 2. Assist in evacuating affected areas.
  - 3. Control personnel and vehicles, as directed.
  - 4. Secure perimeters of emergency scene, as directed.
  - 5. Direct emergency vehicles to emergency scene.
  - 6. Assist in roping and securing off area of concern.
  - 7. The security staff will be available to support the team in the event of an emergency in those functions that are part of their regular duties.

hours of monthly training annually.

- **B.** Training ERT
  - 1. Monthly training sessions, which include review of the following (12 hrs):
    - \* Decontamination
    - \* Suit-Up
    - \* Hazardous Materials Response/Gas Releases
    - \* Personal Protective Equipment
    - \* Hazard Detection & Monitoring Devices
    - \* Incident Command System
    - \* SCBA Suit-up
    - \* Search & Rescue/Victim Handling
    - \* Fire Suppression
  - 2. Semi-annual Drills
- C. Training MERT
  - 1. Bi-monthly training sessions which include reviews of the following:
    - \* First Aid Training/Certification
    - \* Cardiopulmonary Resuscitation (CPR)
    - \* Bloodborne Pathogens
    - \* Basic Observation and Assessments
    - \* Vital Signs
    - \* Administration of oxygen
    - \* Interface with Professional Emergency Medical Services.
    - \*. Disaster Management/Lift & Moving Patients
  - 2. Drills
  - 3. AED training and annual certification

### X. Document Control Log

|                | TITLE                                       | Philips Lumileds Emergency Response Team Program Plan |              |               |            |
|----------------|---------------------------------------------|-------------------------------------------------------|--------------|---------------|------------|
|                | DOCUMENT OWNER                              | Joyce Gee                                             |              |               |            |
| <b>REV NO.</b> | CHANGE DETAILS                              |                                                       | INITIATED BY | AUTHORIZED BY | DATE       |
| 1.0            | Updated with bulk ammor<br>information      | nia response                                          | Joyce Gee    | Dan Janowski  | 11/19/2010 |
| 2.0            | Verified/updated contact r<br>phone numbers | names and                                             | Joyce Gee    | Dan Janowski  | 1/20/2012  |

## LOGISTIC SECTION CHIEF CHECKLIST (IC←LOGISTICS)

**RESPONSIBILITIES:** Responsible for providing facilities, services and material in support of the incident.

## **DUTY CHECKLIST:**

- [ ] Obtain situation briefing from Incident Commander
- [ ] Don Identification vest
- [ ] Appoint and brief staff as needed.
  - ] Security
  - [ ] Staging

8

- [ ] Establish location of Personnel Staging Area.
- [ ] Determine and provide logistic needs to support present and planned incident operations.
- [ ] Coordinate and process requests for additional resources.
- [ ] Advise IC on current service and support capabilities
- [ ] Confer with Incident Commander, Plans, & Operations as needed.
- [ ] Ensure general welfare and safety of Logistics Section personnel
- [ ] Forward all reports/documentation to Incident Commander.



| Date:                             | Time:                                      | TIONS WORKSHEET Location:          |                             |
|-----------------------------------|--------------------------------------------|------------------------------------|-----------------------------|
| Incident Descrip                  | otion:                                     |                                    |                             |
|                                   | IC                                         | Safety Officer                     | ]                           |
| Scribe                            |                                            | PIO                                | ]                           |
| Evacuation Group<br>Supervisor    | Operations /<br>HazMat Group<br>Supervisor | Logistics                          | Medical Group<br>Supervisor |
| Security /<br>Site Access Control | Entry Team Leader                          | Medical Team Leader                |                             |
| Verify Site Access Cont           | trol ID Hot Warm Cold                      | Zones - Up hill, Up Wind of hazard | ]                           |
| Assign Entry Team Lea             | ider & Decon Team Leader                   |                                    |                             |
| Verify Pre-entry medic            | als with Medical Team Lead                 | ler                                |                             |
| Verify Site Safety Plan           | with Safety Officer                        |                                    |                             |
| Chemical Involved:                |                                            |                                    |                             |
| Chemical Hazards:                 |                                            |                                    |                             |
| Incident Objectives:              |                                            |                                    |                             |

Action Plan: Keep everyone on same page. Establish communications with Fire Dept

Revision Date: January 20, 2012 Title: Philips Lumileds ERT Plan Document Owner: Joyce Gee

## SAFETY OFFICER (IC←SAFETY)

**RESPONSIBILITIES**: Responsible for monitoring and assessing hazardous and unsafe situations and developing measures for assuring personnel safety. The Safety Officer will also collect hazard information for any chemical substances likely to be experienced during the incident.

- [ ] Obtain situation briefing from Incident Commander.
- [ ] Don Identification vest/
- [ ] Identify existing and potential hazardous situations associated with the incident.
- [ ] Keep all personnel informed of existing and impending hazards.
- [ ] Complete Site Safety Plan
- [ ] Réview Incident Action Plan.
- [ ] Review and brief team on Site Safety Plan, ensure sign off by IC and Operations
- [ ] Exercise emergency authority to stop and prevent unsafe actions.
- [ ] Investigate accidents occurring within incident area.
- [ ] Survey the area for dangerous situations.
- [ ] Evaluate the following items, do they pose a safety hazard, do they need to be mitigated?

### Utilities

- [ ] Natural gas. [ ] Electrical power.
- [] Sewer. [] Water.

### **Hazardous Materials**

- [ ] Toxic gasses. [ ] Corrosives. [ ] Oxidizers.
- [ ] Flammable gasses/liquids.
- [ ] Poisons. [ ] Other \_\_\_\_\_

### **Buildings**

- [ ] Structural integrity.
- [ ] Flooding as it relates to fire control activities.
- [ ] Rupture of vessels, tanks or pipes possible dangers.
- [ ] Maintain log of activities and other pertinent information.
- [ ] Forward all reports to IC.

# **DECON TEAM LEADER**

**RESPONSIBILITIES:** Establish and manage Decontamination Operations. Reports to HazMat Group Supervisor, or Operations, or IC

| Date: | ······                  | Time Started:                         |  |
|-------|-------------------------|---------------------------------------|--|
| 1.    | ID Material             |                                       |  |
|       | Hazards:                | · · · · · · · · · · · · · · · · · · · |  |
|       | Decon Solution          |                                       |  |
|       | Level of Protection for | r Decon Team:                         |  |

2. (Sketch Map ON BACK) ID Hot Zone, Cold Zone, Decon Corridor Consider: Uphill, upwind . . . consider run-off ID Water Source

### 3. Personnel Tracking

| Name<br>DECON TEAM | Trained /<br>Qualified | Pre<br>suit up<br>Meds | Time<br>on Air | Time<br>off Air | Post<br>suit up<br>meds |
|--------------------|------------------------|------------------------|----------------|-----------------|-------------------------|
|                    |                        |                        |                |                 |                         |
|                    |                        |                        |                |                 |                         |
|                    |                        |                        |                |                 |                         |

### 4. Post Incident Critique / Comments / Suggestions (use back if necessary)

| Completed by: |                  |  |
|---------------|------------------|--|
| L             | Name / Signature |  |

| Date: |  |
|-------|--|
| Duit. |  |

Return all pages to IC to complete incident report

Revision Date: January 20, 2012 Title: Philips Lumileds ERT Plan Document Owner: Joyce Gee

## STAGING AREA MANAGER CHECKLIST (IC←LOGISTICS←STAGING)

## **RESPONSIBILITIES:** Responsible for managing all activities within the staging area.

## **DUTY CHECKLIST:**

- [ ] Obtain briefing from Logistics.
- [ ] Don identification Vest.
- [ ] Assemble all unassigned personnel in personnel Staging Area.
- [ ] Establish staging area layout.
- [ ] Determine any support needs for equipment, feeding, sanitation and security
- [ ] Take a separate count of Chemical Handlers and Support Personnel.
- [ ] Release personnel as requested by Incident Commander, Operations, Logistics or Planning.
- [ ] Request maintenance service for equipment at Staging Area as appropriate.
- [ ] Keep record of equipment released.
- [ ] Update Logistics as necessary.
- [ ] Maintain staging area in orderly condition.
- [ ] Forward all reports/documentation to the Incident Commander.

### ERT DECON TEAM CHECKLIST ROLES

- 1. SPRAYER (1): To ensure proper wash down of contaminated person. Sprayer is only one to make initial contact. Name \_\_\_\_\_\_
- 2. SCRUBBER (2): Applies surfactant as needed, uses scrub brushes to remove contaminant from suits. One scrubber per decon pool.

Name(s) \_\_\_\_\_

- STRIPPER (1-2): To properly remove all contaminated clothes from victim, as well as to assist entry team disrobe from suits. Bags all items as needed. Name(s) and
- DECON LEADER (1): To ensure Decon procedures are being followed per checklist. To help remove SCBA and RADIO, and escort to Medical for observation. Reports to IC Name:\_\_\_\_\_\_\_

### DECON SUIT UP

- [] Rubber Boots.
- [] Suit (appropriate Level of Protection, confirm with Ops)

and

- [] Gloves.
- [] Respiratory Protection (SCBA or APR as needed, confirm with Ops)

### EQUIPMENT NEEDED

- [] Hose with spray wand
- [] Water
- [] Trash can
- [] Rolls of Plastic or tarp
- [] Trash Bags.
- [] Buckets and brushes

SET-UP PROCEDURES FOR DECON AREA

- [] Set up boundaries for entry and exit through warm zone to hot zone
- [] Lay down tarp
- [] Set up pools
- [] Set up tool drops
- [] ID water source, hook up hose, charge line
- [] Fill portable sprayer with water and decon solution
- [] Set up chairs and plastic bags at exit

### PROCEDURE STEPS

- [] 1 of 2 Strike Team members step into pool.
- [] Spray with decon solution, rinse and scrub from head to toe for approx. 5 min
- [] Help team member out of pool (repeat as needed in second pool with water rinse)
- [] Roll down suit from top down (Carefully in detail).
  - [] Open up back zipper.
  - [] Peel forward and down (away from body) including arms/gloves.
  - [] Monitor to help team member take off SCBA and radio.
- [] Escort to Medical area for observation.
- [] Collect contaminated equipment for disposal.
  - [] Label containers with contaminated clothing, pool contents per environmental

- [] Decon Pools
- [] Decon solutions as needed
- [] Portable pump sprayer for solution
- [] pH paper
- [] Chairs

|                                        | ERT Site                               | e Safety Pla    | n                                      |                                          |
|----------------------------------------|----------------------------------------|-----------------|----------------------------------------|------------------------------------------|
| Incident Name:                         | ······································ | Time:           |                                        | Date:                                    |
|                                        | Site In                                | nformation      |                                        |                                          |
| Incident Location:                     | <u></u>                                |                 |                                        |                                          |
| Safe Access Route to Incident Site for | or ERT:                                |                 | ·····                                  |                                          |
| Safe Access Route to Incident Site for | or Emergency Services:                 |                 |                                        |                                          |
| Command Post Location:                 |                                        |                 | <u></u>                                | ,                                        |
| Weather Conditions:                    |                                        |                 |                                        |                                          |
| Wind Direction:                        | Speed:                                 |                 | Temp:                                  | <u> </u>                                 |
| Forecast:                              |                                        |                 |                                        |                                          |
|                                        | Orga                                   | anization       | <u></u>                                |                                          |
| Incident Commander:                    |                                        |                 | · · · · · · · · · · · · · · · · · · ·  |                                          |
| Safety:                                |                                        | Staging:        |                                        |                                          |
| Operations:                            |                                        | Security:       |                                        |                                          |
| Planning:                              |                                        | Medical:        |                                        |                                          |
| Logistics:                             |                                        | PIO:            | <u> </u>                               | ······································   |
| Entry Leader:                          |                                        |                 | Decon Leader:                          |                                          |
| Entry                                  | Back-Up                                |                 | Decon                                  |                                          |
| Entry                                  | Back-Up                                |                 | Decon                                  |                                          |
| Entry                                  | Back-Up                                |                 | Decon                                  |                                          |
| Entry                                  | Back-Up                                |                 | Decon                                  |                                          |
|                                        |                                        | Evaluation      | · · · · · · · · · · · · · · · · · · ·  |                                          |
| Chemical Name(s):                      |                                        |                 | •<br>•                                 | ······································   |
|                                        |                                        |                 | ·····                                  |                                          |
| Chemical Hazard(s):                    |                                        |                 |                                        |                                          |
|                                        |                                        |                 |                                        | - <u></u>                                |
|                                        | Incident Action                        | n Dlon / Ob     | iootivos                               |                                          |
|                                        | Incident Action                        |                 | jecuves                                | · · · · · · · · · · · · · · · · · · ·    |
|                                        |                                        |                 |                                        |                                          |
|                                        |                                        |                 |                                        |                                          |
|                                        |                                        |                 | · · ·································· |                                          |
|                                        |                                        |                 |                                        |                                          |
|                                        | S                                      | afety           | din anti-                              | en e |
| Safety Precautions:                    |                                        |                 |                                        |                                          |
|                                        |                                        |                 |                                        |                                          |
|                                        |                                        |                 |                                        |                                          |
|                                        |                                        |                 |                                        |                                          |
|                                        | · · · · · · · · · · · · · · · · · · ·  |                 |                                        |                                          |
|                                        | Mon                                    | nitoring        |                                        |                                          |
| LEL instrument(s):                     |                                        | continuous, or: |                                        | <u> </u>                                 |
| O2 instrument(s):                      |                                        | continuous, or: | <u></u>                                | - <u></u>                                |
| Toxicity /PPM instrument(s):           | ~                                      | continuous, or: |                                        |                                          |
| pH:                                    | Fluoric                                |                 |                                        | ·····                                    |

## APPENDIX B

## HAZARDOUS MATERIAL EMERGENCY RESPONSE CONTRACTORS/SUPPLIES/EQUIPMENT

## **CONTRACTORS**

- Decon Env. Services

   23490 Connecticut Street
   Hayward, CA 94545
   Emergency 24 hr.: 800-925-4994
   Ron Reynolds (Dispatch): 510-750-4905
   Ken Haskell: 510-385-5612
   Services: Emergency Decontamination, Waste Disposal
- 2. Clean Harbors Env. Services 1040 Commercial Street San Jose, CA 95112 Phone: 408-451-5000 Services: Waste Disposal

## APPENDIX C

## HAZARDOUS GAS RELEASE RESPONSE PROCEDURES

For ammonia gas release related to the bulk ammonia system, the ERT, IC, or the SRC will contact Air Products to assist with emergency response. Air Products 24-hour emergency number is: 800-769-9117.

For hazardous gas release situations, the following procedures should be followed by personnel involved in the incident. These employees may include but are not limited to: Materials Handlers, Line Maintenance, Facilities Maintenance, and the Gas Vendors or Suppliers. The scenarios covered in the context of this procedure include two basic scenarios:

- 1) Gas releases from a cylinder external to a exhausted gas cabinet; and
- 2) Gas releases from cylinder or gas panel in an exhausted gas cabinet.

## I. Gas cylinder release outside of an exhausted enclosure

Gas cylinder leaks outside of exhausted enclosures would typically fall into one of the three following categories: 1) upon initial receipt of the cylinder from the supplier; 2) while transporting the cylinder to or from a storage area or cabinet for use; and 3) at a cylinder storage location. The emergency action plan for each of situations is basically the same and should include at a minimum the following:

- 1. Immediately evacuate the area, and call x2222 from a safe location. Information to the SRC operator shall include:
  - a. The type of hazardous gas (concentration and any carrier gas if known).
  - b. The gas vendor or supplier
  - c. The location of the cylinder
  - d. Estimation of the extent or rate of release (RFO Size)
  - e. Is fire involved?
- 2. SRC will activate the ERT Incident Command System, make the appropriate notification, and locate the emergency phone contact for the gas suppliers.
- 3. The ERT IC shall establish the Command post in a non-hazardous location and complete a hazard assessment based on the identity and nature of the released gas (review MSDS and other information sources).
- 4. The initial responder, if not a member of ERT, should stand by to provide technical support and any specific details of the situation to the ERT IC.
- 5. The ERT IC determines which area(s) to be evacuated and ensure that personnel are evacuated to an area up wind of the gas release. The perimeter of hazard area is to be secured by SRC Personnel under the direction of ERT.
- 6. The cylinder supplier's emergency response team should then be notified immediately to assist with the control and containment of the release and to arrange emergency transport of the cylinder off of the site.
- 7. If there is any potential of the gas release escaping from the boundaries of the site, then the notification of all appropriate external agencies must be made (see Emergency Notification Call List; site EHS representatives should advise IC on specific agency notifications; at a minimum the local fire department and the California Office of Emergency Services.

# APPENDIX C (cont.)

- 2. If personnel in the area are aware of a gas release and a local or site evacuation is not in progress, then the initial responder should activate the local ESO and then call x2222 from a safe location, remote from the gas cabinet and provide the SRC Operator with the following information:
  - a. The type of hazardous gas (concentration and any carrier gas if known).
  - b. The gas cabinet number (or identifier) and location.
  - c. The gas vendor or supplier.
  - d. Estimation of the extent or rate-of-release (RFO Size).
  - e. Is fire involved?

SRC will activate the ERT Incident Commands System, make the appropriate notifications, and locate the emergency phone contact for the gas suppliers.

If the initial responder (at the scene) is not a member of the ERT, they should report to the Security Operations Center to provide details and technical support to the ERT IC.

- 5. The ERT IC shall establish the Command Post in a non-hazardous location and complete a hazard assessment based on the identity and nature of the released gas (review MSDS and other information sources).
- 6. If an evacuation was not automatically annunciated, then the ERT IC determines which area(s) to be evacuated and ensure that personnel are evacuated to an area up wind or otherwise isolated from the gas release. The perimeter of the hazard area is to be secured by ERT. The ERT IC shall monitor gas concentrations remotely and validate whether emergency shut-off devices have been activated.
  - a. If the gas concentration diminishes relatively quickly over time, then the source of the gas release can most probably be attributed to a breach in the gas panel piping system (downstream from the shut-off device). In these cases an ERT entry team can respond to the area after the gas concentrations have stabilized below the TLV while using the appropriate level of PPE to investigate and validate the gas concentrations in the area (breathing zone) and gas cabinet using a portable gas detection device. The main cylinder valve should be turned off and any obvious sources of leakage should be noted at this time. If the concentrations return to a safe level and stabilize, the ERT IC may authorize the area for re-entry. At this point the process personnel can be contacted to perform a detailed incident investigation.
  - b. If the gas concentrations remain consistently elevated even after the emergency shut-off has been confirmed, then the source of the gas release is most probably somewhere upstream from the shutoff device. In these situations, unless the gas release potentially poses a serious threat to personal, property or the community, allowing the cylinder to continue venting in the exhausted cabinet is the most appropriate ERT action plan. The situation should be monitored closely from a remote location and the Environmental Department must be made aware of the situation in order to determine if outside agency notifications are necessary and confirm that one-half IDLH levels at the treatment system exhaust stacks are not exceeded.
- 7. After the cylinder leak has either been contained or removed from the site, the evacuated zones shall be monitored and verified as safe for re-entry by protected ERT personnel using the appropriate gas detection equipment.



## APPENDIX D

# HAZARDOUS GAS RELEASE RESPONSE CHECKLIST (Abbreviated Format)

### A. Gas Cylinder Release Outside Gas Cabinet

Evacuate Area & Call x2222 (Gas type; vendor; location; flash/fire; estimates)

Activate ERT Incident Command System

Establish ERT Command Post Make any necessary notifications (internal [e.g. Environmental and Safety contacts] or external) Contact Gas Vendor If ammonia release from the bulk ammonia system, contact Air Products for emergency response. Air Products 24-hour emergency number: 800-769-9117.

Confirm Evacuation Process and Isolation of Hazard

Complete Hazard Assessment (Evaluate risks to personnel, facility, and community).

<u>Prepare ERT Entry Team</u> Establish PPE Requirements Decontamination Set-up Monitoring Needs Equipment Needs (flash protection for flammable situations, radios, hand tools, etc.)

<u>Develop Entry Plan</u> Routes of Entry/Escape Rescue Procedures; Victim Decontamination Placement of Cylinder in a Leaker Cabinet or Cylinders Involving Flame - Isolate and Cool Cylinder Control Leak Source if Feasible

Coordinate and Assist Gas Vendor ERT as Necessary

Ensure Hazards are Eliminated Before Reentry

# **APPENDIX D (cont)**

## C. Off-line Gas Cylinder Release Inside of Gas Cabinet

Evacuate Area, & Call x2222 (Gas type; vendor; location; flash/fire; estimates)

Activate ERT Incident Command System

Establish ERT Command Post Make any necessary notifications (internal [e.g. Environmental and Safety contacts] or external)

Confirm Employee Evacuation and Isolation of Hot Zone

<u>Complete Hazard Assessment (Risks to personnel, facility, & community?)</u> Identify Source if Possible (Cylinder or Panel?) Monitor Gas Concentrations Remotely

Prepare ERT Entry Team Establish PPE Requirements Decontamination Set-up Monitoring Needs Equipment Needs (Flash resistant for Flammables, radios, hand tools)

<u>Develop Entry Plan</u> Routes of Entry/Escape Rescue Procedures; Victim Decontamination Leave Cylinder in Cabinet Control Leak Source if Feasible

Coordinate and Assist Gas Vendor ERT as Necessary

Ensure Hazards are Eliminated Before Reentry

# APPENDIX F

# MERT Response to an Ammonia Release Health Care Facilities

Route of exposure: Inhalation

Toxicology: Irritant of the eyes, respiratory tract and skin. In high concentrations: corneal irritation and upper respiratory obstruction.

Symptoms: Burning eyes, mouth, and throat; nasal dryness; difficulty breathing and airway obstruction in severe cases. Symptoms are usually immediate.

Note: Because ammonia is very irritating with a low odor threshold, victims who are able will likely escape.

Upon arrival at the scene: Request estimate of length of exposure and concentration from victim and/or ERT.

Immediate first aid includes:

- 1. Ensure employee has been decontaminated appropriately
- 2. ABC's
- 3. Administer oxygen
- 4. Assess for chemical inhalation symptoms, possible chemical burns and other injuries
- 5. Confirm estimate of length of exposure and concentration from victim
- 6. If chemical burns found, flush areas with normal saline
- 7. Treat other injuries as appropriate per first aid protocols
- 8. Refer for further medical evaluation

Medical Referral: Alliance Clinic if symptoms are mild

911 if respiratory difficulty or other severe symptoms

Health Care Facilities:

Alliance Clinic 2737 Walsh Avenue Santa Clara 408-228-8400

O'Connor Hospital 2104 Forest Avenue San Jose 408-947-2666

Revision Date: January 20, 2012 Title: Philips Lumileds ERT Plan Document Owner: Joyce Gee

# PHILIPS LUMILEDS LIGHTING COMPANY



# **CONTINGENCY PLAN**

370 West Trimble Road San Jose, CA 95131

RCRA Contingency Plan Revision Date: 3/3/2010 Mitch Cole, Environmental Engineer Page 1 of 14

### CONTINGENCY PLAN FOR HAZARDOUS WASTE GENERATORS

### I. PURPOSE [66265.51(a)]

This contingency plan is designed to minimize the hazards to human health and the environment from fires, explosions or any unplanned sudden or non-sudden release of hazardous waste or hazardous waste constituents to air, soil, or surface water.

### II. RELATIONSHIP OF THIS CONTINGENCY PLAN TO SITE EMERGENCY PLAN

Lumileds Lighting has a comprehensive Emergency Procedure Manual that covers responses to all types of emergencies throughout the site. These Emergency Procedures include site emergencies that are under the direction of the ERT Incident Commander.

The ERT Incident Commander is responsible for planning, directing, and coordinating the actions of the ERT during any emergency. The Emergency Coordinator described in this Contingency Plan is responsible for advising the ERT Incident Commander on the proper actions to take to meet the requirements of this Contingency Plan during incidents involving hazardous waste. The Emergency Coordinator is also responsible for contacting environmental agencies and filing reports if needed.

If an emergency occurs in the hazardous waste area that requires implementation of the Contingency Plan, the Emergency Coordinator advises the ERT Incident Commander as to the immediate actions to take to respond to the emergency. The Emergency Coordinator will remain responsible for all actions described in this Contingency Plan, but the immediate response actions will be carried out by the ERT, under direction of the ERT Incident Commander.

### III. IMPLEMENTATION [66265.51(b)]

This plan will be implemented immediately when there is a fire, explosion or release involving hazardous waste or hazardous waste constituents. Specifically, this means that this plan will be implemented if the following occurs:

FIRE or EXPLOSION in the hazardous waste accumulation areas in which the hazardous waste materials are combusting or being heated to a temperature at which the hazardous waste constituents are being released to the air at levels that are a hazard to human health or the environment.

RELEASE of hazardous wastes from a waste accumulation area occurs such that hazardous wastes enter the soil, surface water, or storm drain catch basin, or hazardous waste constituents are released to the air at levels that are a hazard to human health or the environment. A spill of waste that is contained upon concrete, within secondary containment, or within a bermed area is not considered a RELEASE for the purpose of the contingency plan.

SECONDARY CONTAINMENT: All hazardous waste accumulation areas have secondary containment sumps, berms, or dikes, which are monitored and/or inspected regularly.

### CONTINGENCY PLAN FOR HAZARDOUS WASTE GENERATORS

## V. COPIES OF CONTINGENCY PLAN [66265.53]

- A. Copies of the plan and revisions are kept in the following locations:
  - 1. Online at N:\ENV\Programs\Hazardous Waste\Contingency Plan.
  - 2. Lumileds Hazardous Materials Business Plans.
- B. A copy of the plan has been submitted to:

Police: San Jose Police Department 201 W. Mission San Jose, CA 95110

- Fire: San Jose Fire Department Hazardous Materials Division 4 North 2nd Street, Suite 1100 San Jose, CA 95113
- Local Emergency Planning Committee Region 2: Attn: Len Miller OES Coastal Region 1300 Clay Street Suite 400 Oakland, CA 94612
- 4. OES: Hazardous Materials Division Attn: John Payne 11070 White Rock Road Rancho Cordova, CA 95670

### VI. ARRANGEMENTS WITH LOCAL AUTHORITIES [66265.52 (c)]

Members of the local fire stations have participated in local ERT drills. Annually, the hazardous materials inspectors in the Fire Department perform a wall-to-wall inspection for hazardous materials management. These inspections and drills give Fire personnel familiarity with this facility and enable them to better respond to all types of emergencies.

The arrangement with local hospitals is to adequately decontaminate victims prior to transport. Due to the specialties of each hospital, the decision on the ultimate destination is arranged between the paramedics transporting the victim and the hospitals themselves. Some of the parameters of these decisions are capacity at the emergency room of the hospital, the nature of the injuries and the capabilities of each facility.

- A. The following emergency response procedures will be followed in the event of chemical exposure.
  - 1. Decontaminate victims by the emergency response team.
  - 2. Provide emergency treatment and life support by the emergency response team and onsite nurse staff.
  - 3. Activate emergency medical service (call 911).

irritating or asphyxiating gases that are generated, or the effects of any hazardous surface waste runoff from water or chemical agents used to control fire and heatinduced explosions.)

- D. If the emergency coordinator determines that the facility has had a release, fire, or explosion of hazardous waste which could threaten human health or the environment outside the facility, he shall report his findings as follows:
  - (1) If his assessment indicates that evacuation of local areas may be advisable, he shall immediately notify appropriate local authorities. He shall be available to help appropriate officials decide whether local areas should be evacuated.
  - (2) He shall, in every situation, immediately notify the State Office of Emergency Services at 800-852-7550. The report shall include:
    - (a) Name and telephone number of reporter.
    - (b) Name and address of facility.
    - (c) Time and type of incident (e.g., release or fire).
    - (d) Name and quantity of materials(s) involved, to the extent known.
    - (e) The extent of injuries, if any.
    - (f) The possible hazards to human health or the environment outside the facility.
- E. During an emergency, the emergency coordinator shall take all reasonable measures necessary to ensure that fires, explosions and releases do not occur, recur or spread to other hazardous wastes at the facility. These measures shall include, where applicable, stopping processes and operations involving wastes, collecting and containing released waste and removing or isolating containers or waste.
- F. If the facility stops waste operations in response to a fire, explosion or release, the emergency coordinator shall monitor waste equipment for leaks, pressure buildup, gas generation or ruptures in valves, pipes or other equipment, wherever this is appropriate.
- G. Immediately after an emergency, the emergency coordinator shall provide for treating, storing or disposing of recovered waste, contaminated soil, or surface water or any other material that results from a release, fire or explosion at the waste handling areas.
- H. The emergency coordinator shall ensure that, in the affected waste area(s), of the facility:
  - (1) No waste that may be incompatible with the released material is treated, stored or disposed of until cleanup procedures are completed.
  - (2) All emergency equipment listed in the contingency plan is cleaned and fit for its intended use before waste operations are resumed.

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- I. The owner or operator or designee shall notify the Department of Toxic Substances Control and the appropriate Certified Unified Public Agency (CUPA) that the waste handling areas are in compliance with section H of this part before waste handling operations are resumed in the affected waste areas of the facility.
- J. The owner or operator or designee shall, within 15 days after the incident, submit a written report on the incident to the Department of Toxic Substances Control and the appropriate CUPA. The report shall include:
  - (1) Name, address and telephone number of the owner or operator.
  - (2) Name, address and telephone number of the facility.
  - (3) Date, time, and type of incident (e.g. fire, or explosion).
  - (4) Name and quantity of material(s) involved, to the extent known.

### CONTINGENCY PLAN FOR HAZARDOUS WASTE GENERATORS

### X. LIST OF EMERGENCY COORDINATORS FOR HAZARDOUS WASTE EMERGENCIES (66265.55)

For after hours emergencies, contact the security response center at (408) 964-5300 to activate the emergency on-call system

| San Jose<br>Primary Emergency<br>Coordinator: | Office:                                                       | Home:          |
|-----------------------------------------------|---------------------------------------------------------------|----------------|
| Mitch Cole<br>Environmental Engineer          | 370 West Trimble Road<br>San Jose, CA 95131<br>(408) 964-2562 | (209) 839-8671 |
| Dave Fox<br>Project Manager                   | 370 West Trimble Road<br>San Jose, CA 95131<br>(408) 964-2824 | (408) 347-1049 |
| Dan Janowski<br>Facilities Manager            | 370 West Trimble Road<br>San Jose, CA 95131<br>(408) 964-2665 | (831) 335-1518 |
| Joyce Gee<br>Safety Engineer                  | 370 West Trimble Road<br>San Jose, CA 95131<br>(408) 964-2625 | (408) 263-7996 |
| James Smart<br>Space Planner                  | 370 West Trimble Road<br>San Jose, CA 95131<br>(408) 964-2866 | (408) 842-7809 |
| Elly Trias<br>Facilities Engineer             | 370 West Trimble Road<br>San Jose, CA 95131<br>(408) 964-2728 | (408) 274-1091 |
| Steven Wolf<br>Project Manager                | 370 West Trimble Road<br>San Jose, CA 95131<br>(408) 964-5228 | (408) 448-3329 |

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| Box # | Equipment Description               | Quantity | Description  |
|-------|-------------------------------------|----------|--------------|
|       | 3M 6300 Series Respirators, Large   | 6        | Ea           |
| 1     | 3M 6200 Series Respirators, Medium  | 6        | Ea           |
|       | 3M 6100 Series Respirators, Small   | 6        | Ea           |
|       | 3M 6006 Cartridges, Multi-Gas/Vapor | 20       | Pair         |
|       | Respirator Wipes                    | 2        | Boxes        |
|       | Cream Trionic Gloves, size 9-9.5    | 1        | Pack         |
| •     | Cream Trionic Gloves, size 10-10.5  | 1        | Pack         |
| 2     | Black Neoprene Gloves, size 9       | 1        | Pack         |
|       | Black Neoprene Gloves, size 10      | 1        | Pack         |
|       | pH paper                            | 2        | Boxes        |
|       | Safety Glasses                      | 12       | Pair         |
|       | Kappler Suit Tape                   | 3        | Rolls        |
| 3     | Scissors                            | 4        | Each         |
| -     | Red & Yellow Zone Tape              | 5        | Rolls        |
|       | Duct Tape                           | 2        | Rolls        |
|       | Chemical Classifier Kit             | 1        | Each         |
|       | Tools                               |          |              |
|       | Flashlights (orange)                | 6        | Each         |
| 4     | 'D' size batteries, 8-pack          | 2        | Each         |
| 4     |                                     | 7        |              |
|       | Snake lights                        | 7        | Each         |
| _     | Snake light batteries               |          | Each<br>Each |
| 5     | Hardhats                            | 8        | Each         |
| 6     | Pig Absorbents                      | 2        | Packs        |
|       | Sheet absorbent                     | 1        | Roll         |
|       | Mop Heads                           | 2        | Each         |
| 7     | Kiddie Pools                        | 2        | Each         |
|       | Foot Pump                           | 1        | Each         |
|       | Hazardous Waste labels              | 1        | Roll         |
| ļ     | Scrub Brushes                       | 4        | Each         |
| ļ     | Joy Detergent                       | 1        | Bottle       |
| ļ     | Tarps                               | 2        | Each         |
|       | Trash bags                          |          |              |
| 8     | Sponges                             | 4        | Each         |
| l     | Hose                                | 2        | Rolls        |
| [     | Spray nozzles                       | 2        | Each         |
|       | Hose 'T'                            | 1        | Each         |
|       | Hose bib key                        | 2        | Each         |
|       |                                     |          |              |
|       | Boot, size 6                        | 1        | Pair         |
|       | Boot, size 7                        | 2        | Pair         |
|       | Boot, size 9                        | 2 2      | Pair         |
|       | Boot, size 10                       | 2        | Pair         |
|       | Boot, size 11                       | 2        | Pair         |
|       | Boot, size 12                       | 2        | Pair         |
|       | Boot, size 13                       | 2        | Pair         |
|       | Boot, size 15                       | 1        | Pair         |
|       |                                     |          |              |
|       | Pump Sprayer                        | 1        | Unit         |
|       | Buckets                             | 2        | Each         |
|       | Face Shields                        | 8        | Each         |

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### XII. EVACUATION PLAN FOR HAZARDOUS WASTE AREAS

The signal used to begin an evacuation is a loud evacuation buzzer. Once an evacuation has commenced, a security officer will be posted at a safe distance to ensure that the area remains evacuated.

Evacuation from the hazardous waste treatment areas is through the nearest exit door in the direction opposite of the hazardous situation.

All exits are posted with EXIT or EMERGENCY EXIT signs. Employees working in the areas are at all times in view of one of these signs, such that the evacuation route is obvious by simply looking around the area.

Evacuation maps for the hazardous waste areas are attached.

# **Emergency Evacuation Plan**

### I. Purpose

To assure all people on site are safely and efficiently evacuated and accounted for in the event of fire, earthquake, chemical spill, bomb threat, or any other emergency, which would warrant the evacuation of the building(s). This plan complies with Cal-OSHA Title 8 Section 3220, Emergency Action Plan.

### II. Scope

San Jose Site

### III. Notifications

### **Evacuation Signals**

Signals may look and sound differently, become aware of those that apply to your work area 1. Fire Alarm - Loud Horns with clear/white flashing strobe lights:

- Affects ENTIRE BUILDING, fabs and offices, EVERYONE evacuates to the OUTSIDE of the affected building.
- Toxic Gas/Local Fab Evacuation Loud horns, flashing red strobes with identifying tags: Affects ONLY the fab in which the strobes and horns are sounding. Those employees working in the affected area must evacuate the immediate area to a designated meeting point, which could be inside OR outside the building—but OUT OF THE FAB.
- 3. Area announcement from emergency response team (ERT/MERT) members, listen to order/request and respond accordingly.

### **Re-Entry Authorizations**

- Fire Alarm- Authorization for re-entry to the affected building which was evacuated can only come from Safety or the ERT Incident Commander(IC). The IC or Safety will give the authorization via radio, in person, through the SOC, or by an ERT member to the Assembly Area leaders, who will in turn communicate this authorization to their Assembly Area via bullhorn. Once authorization is given, a public address announcement will be made to the outside assembly areas stating: "The building is now safe for re-entry, everyone may now re-enter the building".
- 2. Toxic Gas/Local Fab Evacuation Authorization for re-entry to the affected fab(s) which was evacuated can corne from Safety, an area Life Safety System Responder, or an ERT Incident Commander.

### IV. Evacuation Procedures for All Employees/Visitors/Contractors

### Fire

### If you discover a fire:

- 1. Immediately evacuate everyone from the area by word of mouth
- 2. Call 2222 from a safe location to report the fire to the security operations center. DO NOT DIAL 911 as this will delay response time!
- 3. Pull the nearest fire pull station handle.
- 4. Proceed to evacuate the building.

### Note: Portable fire extinguishers may only be used to extinguish a fire when:

- 1. All people have been evacuated
- 2. The site security operations center has been notified via 2222
- 3. The fire is small and within your capability to extinguish
- 4. The appropriate extinguisher is immediately available
- 5. You have been trained in the safe use of portable fire extinguishers

# **Emergency Evacuation Plan**

- 2. Assign helpers to assist employees requiring assistance exiting the building.
- 3. Train employees on "Safe-State shutdown procedures" for sensitive equipment as applicable.
- 4. Ensures at least two evacuation sweepers with back ups are identified for each area and each shift under their responsibility.
- 5. Designate and communicate to employees in your group where to gather and assemble for Toxic Gas/Local Fab alarms. This may not necessarily be outside of the building, but rather a location inside the building outside of your lab/fab space.

### **Evacuation Sweepers (Sweeps)**

- 1. "Sweep" your assigned areas (office space, meeting rooms, restrooms, etc.) on the way out to make sure everyone is out of the building (do not enter any hazardous areas, do not back track into the building).
- 2. Report building status to Assembly Area Leader (any trapped or injured people, building damage, fires, floods, chemical spills.).
- 3. Assist Assembly Area Leader with evacuation status and reporting to SOC.
- "Sweep" your local area during a Toxic Gas / Local Fab evacuation and report the status of your fab to the Life Safety System Responder before proceeding to your designated meeting point.

Assembly Area Leader (the first Evac Sweep to reach the roll-call area)

- 1. Grab Evacuation Clipboard and Radio.
- 2. Put on Evacuation Vest.
- 3. Collect information from Evacuation Sweeps recording building status on maps and checklists.
- 4. Relay information to the ERT Incident Commander (IC) or Security Operations Center (SOC); use the radio or send a runner to the SOC.
- 5. Help coordinate movement/relocation of people to other Assembly Areas if needed.
- 6. Communicate instructions and "safe to re-enter" to employees at Assembly Area as directed by Incident Commander or Safety—via the SOC.

### Trained Life Safety System Responders

- 1. Ensure affected area is completely evacuated
- 2. Ensure safe shutdown of affected tools has occurred
- 3. Monitor the Life Safety System
- 4. Clear and authorize re-entry to the fab only when it is safe to do so
- 5. Inform Safety and/or the ERT Incident Commander of either the need for further assistance or when the area is clear for re-entry.

### Health & Safety

1. Authorize clearance for re-entry in the building or local fab area that has been evacuated either as the Incident Commander or in conjunction with the IC.

### **Emergency Response Team Incident Commander**

- 1. Proceed to the designated command post for your site.
- 2. Communicate with all Assembly Area Leaders and monitor progress of swept areas.
- 3. Decide if additional building sweeps are necessary by ERT members if safe to do so.
- 4. When building has been cleared for re-entry, communicate with Assembly Area Leaders and have site SOC make PA announcement.

### Emergency Response Team (ERT) and

### Medical Emergency Response Team (MERT) Members

- 1. Gather Medical Equipment and Supplies while heading to nearest exit.
- 2. Assemble outside of Security Operations Center or designated meeting place for further

Emergency Evacuation Plan Document Owner: Joyce Gee Revision 03/03/2010

### **Philips Lumileds EHS Training Program**

### Scope

This standard covers the key elements of environmental, health and safety training programs, and applies to Philips Lumileds employees and external temporary workers.

### Purpose

This section establishes the minimum requirements for Philips Lumileds' EHS training programs. They are necessary to reduce risks to employees and the environment; to establish and maintain a work force that is educated and well trained in EHS issues; and to comply with regulatory requirements.

### **Responsibilities**

The general manager is responsible for the EHS training of all personnel under their direction. They are also responsible for allocating resources to support the EHS training program, including its implementation and documentation.

- a. Managers and supervisors shall:
  - i. Ensure that employees receive required EHS training.
  - ii. Notify the EHS training coordinator of changes that may impact EHS training.
  - iii. Develop Standard Operating Procedures for all job tasks that have EHS risks.
  - iv. Ensure employee work practices are in accordance with EHS requirements or guidelines, and training received by employees.
- b. The EHS training coordinator shall:
  - i. Manage the implementation and quality improvement of the EHS training program.
  - ii. Develop or compile a comprehensive assessment of EHS training needs.
  - iii. Develop an EHS training plan which covers all site operations.
  - iv. Advise supervisors and managers about EHS training requirements, including changes in requirements, and provide them assistance and direction to implement this standard.
  - v. Maintain documentation of EHS training.
  - vi. Provide reports to management which identify employee EHS training accomplishments and individuals who need EHS training.

### Definitions

Curriculum – The set of instructional processes and learning activities associated with employee health and safety, and environmental protection. This could include classroom format, on-the-job, self-paced, computer-aided, or other alternative forms of instruction.

Documentation – Information which verifies the EHS training which has been accomplished by employees and external temporary workers.

Evaluation - A determination of the results, quality, impact, or value of EHS training activities.

Needs Assessment – The process of assessing jobs and processes for their EHS risks, analyzing related standards and regulations, and identifying EHS training requirements for those jobs or activities.

### Philips Lumileds EHS Training Program

ii. Individual employee records provide the class name or training topic, and the date of training. If possible, also include the date for required refresher or recertification training.

**Program Evaluation and Improvements** 

Continual evaluation and subsequent improvement are required to ensure the EHS training program is providing the expected benefit to people and the environment.

- a. At least annually, evaluate its EHS training program to ensure the goals of this standard are being met. This may include: a review of attendance levels; results of student performance; student feedback; or an evaluation of course content against requirements.
- b. The EHS Training Plan must be reevaluated and revised whenever:
  - i. Regulatory requirements change.
  - ii. Processes or equipment change.
  - iii. Accidents, losses, or other circumstances indicate that EHS training is deficient.

### **General EHS Training Requirements**

New Employee Orientation

- a. Ensure all new and transferred employees receive appropriate EHS training upon their work assignment.
- b. Minimum components include: site emergency action plans; evacuation procedures; hazard communication program; and job-specific EHS requirements and procedures.

Manager/Supervisors EHS Training

- a. Managers/Supervisors must be aware of their EHS responsibilities, and follow established EHS procedures.
- All managers/supervisors shall receive training which includes: EHS policies and responsibilities; work area inspection procedures; accident investigation and reporting; EHS documentation requirements; evaluation of employee EHS performance; EHS training responsibilities; and the site emergency response plan.

Employee Job Training

- a. In jobs where EHS risks are present, employees and temporary external workers must demonstrate adequate EHS knowledge of established procedures before being allowed to work without close supervision.
- b. Prior to the introduction of a new process or operation to a work area, or change in their work assignment, all affected persons must receive appropriate EHS training.

Contractor Information Program

- a. Procedures shall be established to ensure contractors and vendors working on site are adequately informed about the site's EHS practices and procedures.
- b. EHS training for contractors and vendors should normally be provided by their own employer. Where appropriate, specific Philips Lumileds EHS training materials may be shared with contractors and vendors to help accomplish their training.

**External Temporary Workers and Others** 

External temporary workers, interns, and students who receive supervision or direction from Philips Lumileds employees shall receive all EHS training that is required of employees who perform the same task.

### **Specific EHS Training Requirements**

The EHS training curriculum should be derived from an assessment of the site's EHS risks and careful study of local governmental regulations.

APPENDIX M - INTERVIEW DOCUMENTATION

### **Owner and/or Key Site Manager Interview**

Updated Phase I earlier this year - LBA to Microsoft

- 1. Date: <u>10/19/2020</u>
- 2. Name and title of person responding to this questionnaire? <u>Scott Landsittel, Vice President,</u> <u>Leasing, Project Manager for property for LBA (development activities, leasing, no property</u> <u>management, but interface with team)</u>
- 3. Relationship between person identified in #1 and Property owner? Property owner
- 4. Property owner name? <u>LBA Realty</u>
- 5. Length of ownership? <u>Since February 2017</u>
- 6. Who was the previous owner and for how long did they own the Property? <u>Previous owner:</u> <u>Philips Lumileds (in name, owned property since 2012 or 2013), but property had been a legacy</u> <u>HP facility that had been owned by HP and then handed off between different corporate entities</u> <u>over time. Always owned by user itself. HP developed the property. Lumileds was spun off by</u> <u>Philips in 2017 and Philips sold property to LBA and lease was put in place with Philips.</u> <u>Sale/leaseback arrangement where Lumileds continued to operate and pretty much manage the</u> <u>property. Buildings constructed in 1978-1980 by HP.</u>
- 7. For what purpose(s) has the current owner used the Property? <u>Lumileds is currently occupying</u> the property (60%). Manufacturing operation and administration as US HQ location. Additional space that is vacant that they are trying to lease 120,000 sq ft vacant. Technically lease 340,000 sq ft.
- 8. Is the Property currently **occupied**? If so, by whom and for what purpose(s) (please provide names of tenants using structures and land for agricultural purposes) <u>Manufacturing operation</u> <u>Lumileds</u>
- 9. Do you have any knowledge of when the Property was first developed and what the use has been since that time? If so, please provide details. <u>1978, and over time improved the next</u> several years by HP and they operated until the 90s and then been handed off to different entities over time but all doing the same thing LCD screens, LED lighting, and other lighting applications.

<sup>10.</sup> Have any **hazardous chemicals or petroleum products** been used or stored on the Property (current or historical usage)? <u>Yes – currently Lumileds utilizes large amount of ammonia (liquid</u>

### **Owner and/or Key Site Manager Interview**

ammonia stored on site). Bulk storage facility of ammonia. Have hydrogen bulk storage tank on grounds. Is UST diesel tank legacy to property. Believe it is still in use. There was a diesel fuel leak way back in 2000, remediated and closed and believe tank is still in place and used.

If so, provide details regarding the types and quantities of chemicals, as well as their area of usage on the Property. \_\_\_\_\_

11. Has any of the property been used for **waste disposal** of any kind (such as dumping, burning, burying, etc.)? <u>No</u>

If so, provide details regarding types of waste and disposal locations, etc.

12. Has there been any **dumping** on the property by others? <u>Not that we're aware of</u>

If so, provide details regarding types of waste, locations, if the waste was removed, etc.

13. Do you have any knowledge of **underground storage tanks (USTs)** (current or past) on the Property? <u>One diesel UST – fairly large (12,000 gallons)</u>,

If so, provide details regarding location(s), size(s), contents, tank removal information (if no longer present), sampling information upon removal, etc. <u>southwest corner of L shaped building</u> north of Lumileds building

14. Do you have any knowledge of **aboveground storage tanks (ASTs)** (current or past) on the Property? <u>18,000 gallon tank hydrogen storage, 2 ammonia storage tanks capacity of 26,000 lbs</u> each

If so, provide details regarding location(s), size(s), contents, tank removal information (if no longer present), sampling information upon removal, etc. <u>southwest corner (south of Lumileds</u> building)

<sup>15.</sup> Are you aware of any **spills/releases** of petroleum products or other hazardous chemicals on the Property? 2014 Phase II done from the diesel leak. Diesel leak occurred in 2000. Phase II done

because at the time Philips took over the site and wanted to do a Phase II to identify any legacy issues

If so, provide details regarding location(s), size(s), type of spill, cleanup, information, sampling information, etc. <u>Diesel spill, 2000 release due to damaged piping – unclear on how much was</u> spilled. Groundwater extraction to remove approximately 5,500 gallons of impacted groundwater

16. Has anyone ever collected soil or groundwater samples on the Property? If so, where and why were samples collected? <u>Sampling groundwater and soils – dug 13</u> monitoring wells has since been closed.

Please provide copies of any reports related to the sampling efforts, including analytical results.

17. Are there currently or formerly **wells** of any kind (private, public, drinking, irrigation, monitoring, oil, gas, etc.) that on the Property? <u>Monitoring wells – 13. They have all been</u> decommissioned now. No active wells.

If so, please provide details regarding their location, type/use, status (closed, in use, age of well, depth of well, company that drilled well, analytical results related to water quality, etc.)

18. Is the property on the public (city/county) water system? Yes - city

If so, how long has it been connected to the city/county system? <u>Unknown</u>

19. Are there any **structures** (current or past) on the Property (such as a house, barn, storage building, etc.)? <u>Two buildings (Building 90 and 91), building 89 (behind where chiller/engineering is), unenclosed shed, one building connects between two buildings – cafeteria and bridge connector, ammonia storage</u>

If so, please provide details regarding their former location, use, age, etc.

20. If present currently or previously, how are structures **heated and cooled** (natural gas, electric, etc.)? <u>Gas boilers – heater from central plant (hot water pumped from central plant) to both</u> <u>buildings</u>, chilled water that is utilized for cooling

21. Are there any **septic systems** (current or past) on the property? <u>I don't believe so</u>

If so, please provide details regarding location of septic tank(s), status, etc.

22. Is the property on the public (city/county) sewer system? <u>City sewer</u>

If so, how long has it been connected to the city/county system? <u>Assume since construction, but</u> unsure.

23. Are there any transformers or other electrical equipment on the property that contain PCBs? I do not know offhand

**Owner and/or Key Site Manager Interview** 

The following are questions related to the Phase I ESA Standard for Phase I ESAs. Depending on the type of land, they may seem somewhat not applicable (wooded/agricultural/rural residential); however, we are still required to ask them. It is ok to note "there is no such information known or available".

- 24. Are there any pending, threatened, or past litigation relevant to hazardous substances or petroleum products in, on, or from the Property and adjacent properties? <u>No</u>
- 25. Are there any pending, threatened, or past administrative proceedings relevant to hazardous substances or petroleum products in, on, or from the Property or adjacent properties? <u>Yes history with ammonia storage city environmental review, city permitting for expansion of storage, appeal by neighboring property owner in 2005 related to that (wanted to upsize facility). All eventually approved by the City. No disputes or anything currently outstanding. We are seeking entitlements for the project and going through CEQA and environmental review currently. Nothing contentious within that.</u>
- 26. Are there any notices from any governmental entity regarding any possible violation of environmental laws or possible liability relating to hazardous substances or petroleum products with regard to the property or adjacent properties? <u>Not that I'm aware of. Lumileds controls a lot of the documentation, but based on reviews, all current and good about management of everything there.</u>
- 27. Any limitations on activity or use of the Property and adjacent properties? <u>No there is a set of CC&Rs that restricts in certain areas within a range of the ammonia. Risk management RMP study that has been done for the site that has changed but it is used in the CC&Rs as a guidepost for sensitive receptive uses childcare. Subsequent reports report 250 ft radius to be smaller. Typical plan and zoning guidelines.</u>
- 28. Do you know of or do you have knowledge of any of the following types of reports or documents for the Property?

If so, please provide copies.

- information available about the environmental condition or historic uses of the site,
- environmental site assessment reports (Phase I and Phase II ESAs),
- registrations for underground or aboveground storage tanks (USTs or ASTs), assume it is in there but have not seen
- UST/AST removal reports, none
- environmental compliance audit reports, agency reports
- chemical inventory list, including chemicals used on the Property in the past, current inventory on hand but not sure about former uses
- environmental permits [e.g., solid waste disposal permits, hazardous waste disposal permits, wastewater permits, National Pollutant Discharge Elimination System (NPDES) permits],
- notices of violation (NOVs) or other correspondence from any government agency (federal, state, city, county, etc.) relating to past or current violations of environmental laws with respect to the Property or relating to environmental liens encumbering the Property,

### **Owner and/or Key Site Manager Interview**

regards to historical use – so may be

- material safety data sheets (MSDS)/safety data sheets (SDS), Lumileds may have on file
- community right-to-know plan, don't know, nothing LBA has put together
- safety plans, yes, Lumileds has a lot of documentation on safety protocols and controls
- emergency preparedness and prevention plans, yes, Lumileds has a lot of documentation on safety protocols and controls
- spill prevention, control, and countermeasure plans (SPCC), yes, Lumileds has a lot of documentation on safety protocols and controls
- storm water pollution prevention plans (SWPPP), yes, Lumileds has a lot of documentation on safety protocols and controls. Recent ones from construction, not sure about industrial use ones
- reports regarding hydrogeologic conditions on the Property or surrounding properties, and yes
- geotechnical studies. yes, recent ones, will confirm if there is anything in there, but some recent reports.





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