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CONSTRUCTION ENVIRONMENTAL PROTECTION STANDARDS

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Abstract: This standard applies to all work where hazardous materials may be encountered or used during the construction process.

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PART 1: GENERAL

1.1 RELATED DOCUMENTS

, dwilde Procurement documents, including General and Supplementary Conditions and other Standards apply.

1.2 SUMMARY

This standard applies to all work where hazardous materials may be encountered or used during the construction process. These requirements are not intended to be all inclusive but are meant to emphasize existing Company procedures and city, county, regional, state or federal ordinances, laws and regulations applicable to the work. This standard does not relieve the Company or its subcontractors from complying with all appropriate OSHA and other safety regulations pertaining to the work but not listed herein.

Non-conformance to Environmental Protection Standards is considered to be a serious offense and may be subject to severe fines and criminal prosecution. All construction projects need to be coordinated with Company staff to allow for the protection of the environment and for early identification of any special environmental problems. Requirements will vary from project to project. If any doubt as to whether any Environmental Protection Standard applies to work, contact the Project Manager immediately for assessment. The Company shall be liable for any losses, expenses, penalties, etc. incurred by the Customer as a result of the Company's failure to comply with applicable standards.

Work Specified Elsewhere:

- General Construction Project Standards.
- Removal & Disposal of Asbestos Containing Material Standards.
- Temporary Barriers and Enclosures Standards.
- Cleaning and Waste Management Standards. •
- Interior and Exterior Painting Standards.

LEADERSHIP IN ENERGY AND ENVIRONMENTAL DESIGN 1.3 (LEED)

See Sustainable Design Standards.

1.4 REFERENCES

General:

The Company shall comply with the applicable provisions of the referenced standards except as modified by governing codes and the Contract Documents. Where a recommendation occurs in the referenced standards, it shall be considered mandatory. In the event of conflict, the more stringent standard or requirement shall govern.

NTS: Definitions are used when terms are not defined in reference standards.

1.5 SUBMITTALS

Product Data - Submit for Project Manager Action:

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Submit manufacturer's literature and installation instructions for each material and accessory, clearly 4 worldwide. notating specified requirements. Modify shop drawing scale as necessary.

Closeout Submittals - Submit in Owner's documentation:



Definition of Qualified Installer:

Regulatory Requirements: The Company shall comply with applicable requirements of the laws, odes and regulations of Responsible Authorities (RA). Obtain necessary approvals from RA's.

Pre-Installation Meetings:

Before the start of Work, Company representatives shall

1.7 WARRANTY

Submit in Customer's documentation:

Warranty shall be for

PART 2: PRODUC

ASBESTOS 2.1

Asbestos is most commonly found in the following applications:



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	Friable asbestos containing material is defined as any material that
	Asbestos containing material that is friable and contains greater than or equal to 1% asbestos by weight is classified as "Hazardous Waste" when it is to be disposed. It is not to be
	enssined us muzicuous wusie when it is to be disposed. It is not to be
	Contractors will fully comply with Air Quality Management District (AQMD) Regulations; especially,
	Upon completion of the asbestos abatement project, an inspection shall
	C_{1}
	2.2 HANDLING OF HAZARDOUS MATERIALS AND WASTE
	A Safety Data Sheet () must be provided to the Project Manager, who will provide a copy
	to
	All job related hazardous waste will
	All job related hazardous waste will
	All job related hazardous waste will All job related hazardous waste must
	All job related hazardous waste must
	All job related hazardous waste must
	All job related hazardous waste must If a Company supplied container or tank is approved for hazardous waste use, it must
	All job related hazardous waste must If a Company supplied container or tank is approved for hazardous waste use, it must Fach container used for hazardous wastes must be labeled in compliance with NFPA Standard 704 and
<u>8</u>	All job related hazardous waste must If a Company supplied container or tank is approved for hazardous waste use, it must Each container used for hazardous wastes must be labeled in compliance with NFPA Standard 704 and applicable local regulatory requirements, e.g., California Code of Regulations, Title 8, Section 5192 - Hazardous Waste Operations and Emergency Response and Section 5194 - Hazard Communication
<u>8</u>	All job related hazardous waste must If a Company supplied container or tank is approved for hazardous waste use, it must Each container used for hazardous wastes must be labeled in compliance with NFPA Standard 704 and applicable local regulatory requirements, e.g., California Code of Regulations, Title 8, Section 5192 -
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- INIDE

Labels on the container itself must include

Specific information that must be on the "Internal Manifest" includes: • .

All hazardous waste and/or hazardous materials being stored on company property must

Storage security must

Weekly documentation of inspections of all job related hazardous materials/hazardous waste storage areas and containers for leaks or other hazardous is required. A record must

The Company must provide each employee or subcontractor on site with information about what to do in case of emergency or chemical spill. This information will include

2.3 CONCRETE OPERATIONS

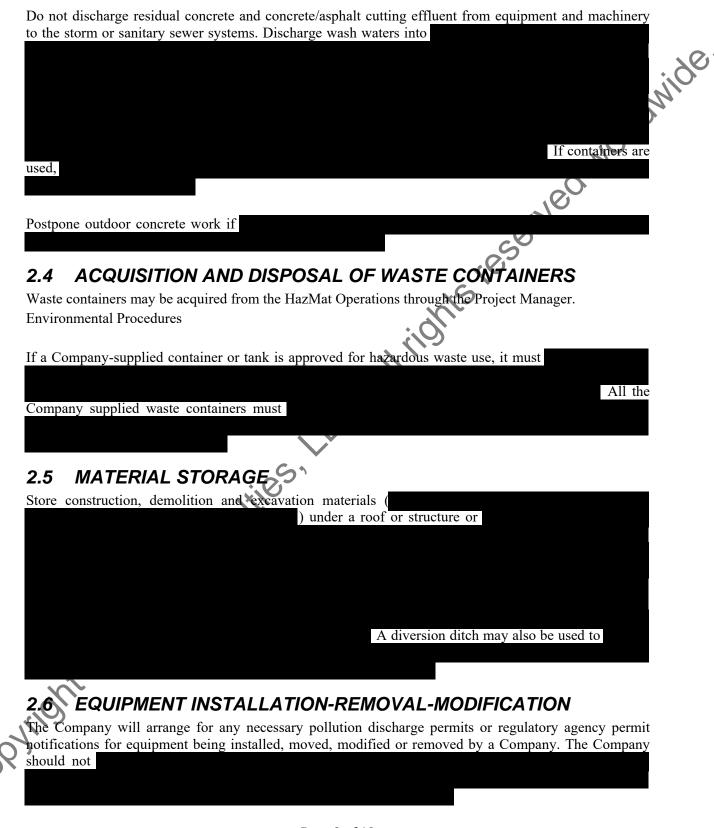
Handle wet concrete and concrete cutting waters in such a manner as to prevent discharge to the sanitary sewer and storm drains. Blocking-off or plugging drains in the vicinity may

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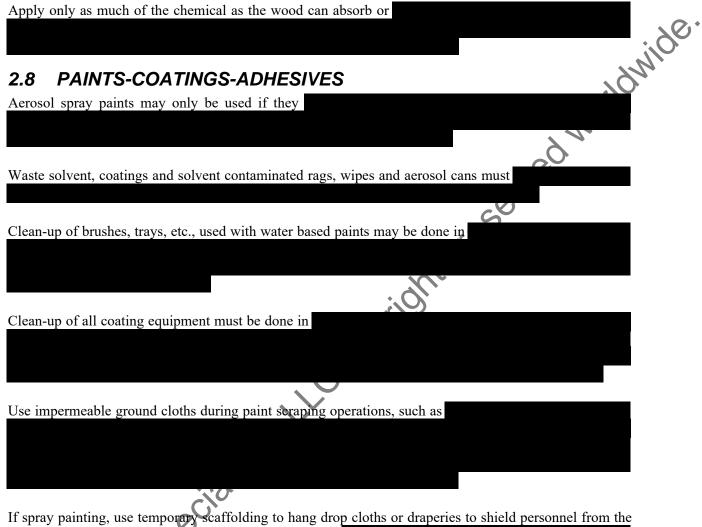
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2.7 WOOD PRESERVATIVES AND OTHER SURFACE TREATMENTS

Apply only as much of the chemical as the wood can absorb or



wind and to collect overspray. Arrange the draperies to

MONITORING ACTIVITIES 2.9

 \checkmark

The Company will furnish Customer personnel with access to the Work, materials and facilities required to monitor the Work and provide

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PART 3: EXECUTION

For broken lines that contain anything other than potable water, the Company shall immediately notify both the local Fire Department and the Project Manager and initiate the following actions immediately

3.2 PARTICLES-SPARK EMISSIONS TO THE AIR

The official method for quantifying visible emissions requires special training and certification. To avoid violating the laws regarding air pollution emissions, a conservative general policy has been adopted:

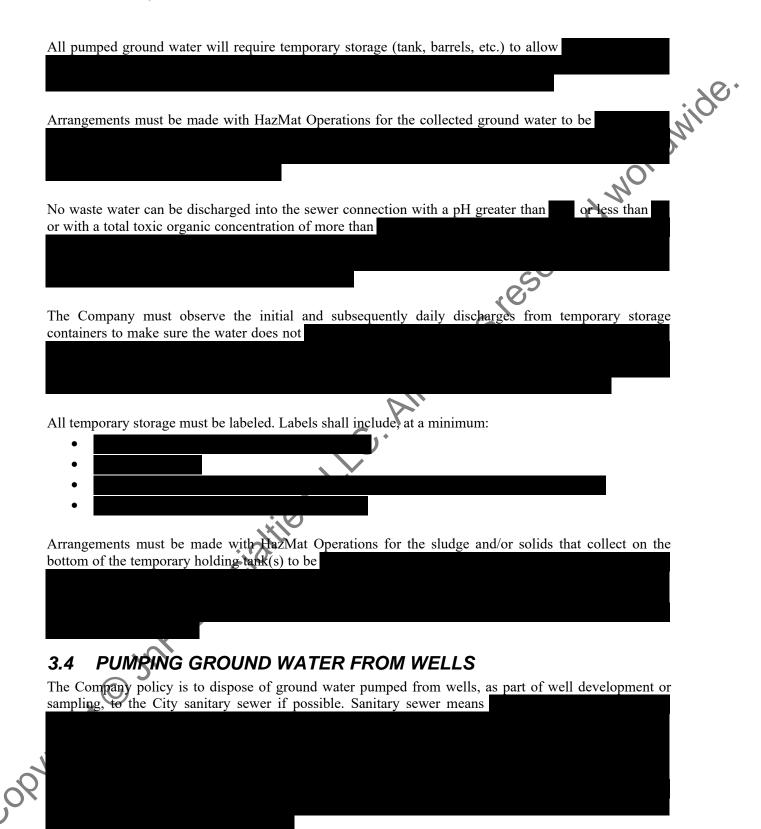
For processes where visible dry plumes may be expected on a regular basis, such as No equipment, process or operations shall emit Operations, processes or equipment use shall not No equipment, process or operation shall emit The Company must ensure that no emissions are re-entrained into the buildings occupied by employees. **DEWATERING OF EXCAVATION AND SUMPS** 3.3 The Project Manager must be notified if it is likely that there will be a need to remove/dispose of ground water prior to excavation or construction and must be given

Construction-related ground water should not be drained or pumped to a storm sewer. Discharge of ground water to the sanitary sewer will always be

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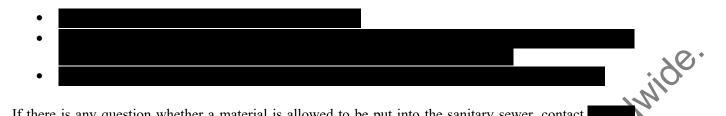
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	All pumped ground water will require temporary storage (tank, barrels, etc.) to allow
	The Company must observe the initial and subsequently daily discharges to make sure
	The Company must observe the initial and subsequently daily discharges to make sure All temporary storage must be labeled. Labels shall include:
	Arrangements must be made with HazMat Operations for the collected ground water to be
	×S
	No waste water can be discharged into the sewer connection with a pH greater than or less than or with a total toxic organic concentration of more than
	The rate of discharge must be monitored and recorded daily or immediately following discharge for the duration of the permit. Written records of discharges must
	Arrangements must be made with the Project Manager for the sludge and/or solids that collect on the bottom of the temporary holding tank(s) to be
	68
	3.5 DISCHARGE TO SANITARY SEWER
	Sanitary sewer means
	Discharge to the sanitary sewer will always be
0	No person shall discharge wastes to a city sanitary sewer that causes, threatens to cause or is capable of causing either alone or by interaction with other substances:
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If there is any question whether a material is allowed to be put into the sanitary sewer, contact

All employees shall provide and maintain protection from accidental discharge of any materials into the sanitary sewer. In the event of any accidental discharge of any prohibited materials into the sewer,

DISCHARGE TO STORM SEWER 3.6

Storm sewer means

The Company shall manage each job site in such a manner to avoid discharges of

The Company shall employ special precautions if rain is forecast. These precautions include:

•

The Company shall keep the working area clean every day. Sweep up

EXCAVATION AND/OR DRILLING 3.7

In cases where soil contamination is known or suspected to be hazardous waste, either by historical data (known spills, releases, etc.) or by visual indication or odor during excavation and/or drilling, the excavated soil or soil cuttings must

Labels shall include: • <th></th> <th>ls shall include:</th>		ls shall include:
Arrangements must be made with HazMat Operations for the soil to be Unless specifically exempted by the Customer, all borings will be A special permit must be obtained for borings deeper than Special well construction requirements, such as conductive casings, may be required in certain areas of the site to prevent 3.8 UNDERGROUND TANKS Prior to the end of any job involving installation, repair or upgrading of underground storage tanl approval must 3.9 DECONTAMINATION	•	
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nts will vary from project to project - a Site Safety Plan may be required prior to starting each project.

3.10 DEMOLITION

Hazardous Material/Waste:

wide Construction projects involving demolition of structures need to be coordinated with the Project Manager as well as HazMat Operations to allow for

Non-hazardous material/waste:

Where feasible to prevent or minimize contact with rain water during the wet season, store demolition materials on

3.11 SANDBLASTING

The Project Manager must be notified prior to any sandblasting. All abrasives used for dry, unconfined blasting shall not contain more than

After blasting, abrasives used for dry, unconfined blasting shall not

Any violation of the local Air Quality Management District (AQMD) regulations concerning abrasive blast cleaning shall

3.12 OUTDOOR SANDBLASTING

Place tarpaulin or ground cloths beneath work to capture the blasting medium and particles from the surface being cleaned. Hang tarps or drop cloths to

Clean-up frequently:

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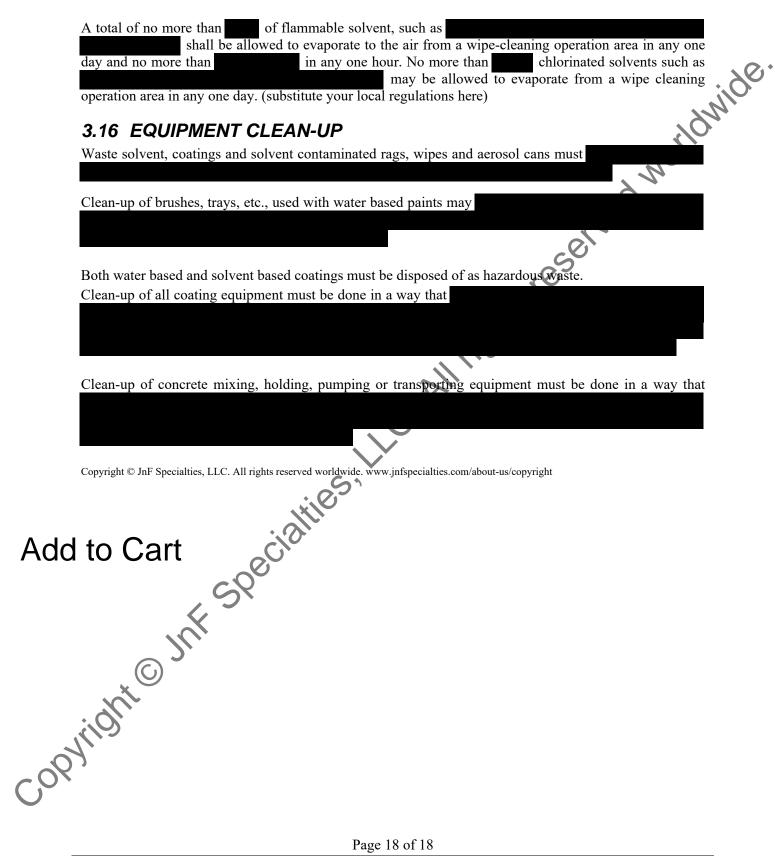
3.13 WASHING OF EXTERIOR BUILDING SURFACES

Wash water from exterior surfaces of buildings (including roofs) shall not

10mide If wash water cannot be directed to landscaping, the water shall 7 If the wash water has been determined to be sewerable by HazMat Operations, collect (contact the Project Manager for method coordination) and pump the water to an approved sanitary sewer connection (filtration may be required for wash waters). For information on approved sanitary sewer locations, contact the Project Manager. If the water has been determined to be non-sewerable, 3.14 MONITORING ACTIVITIES The Company will furnish Customer personnel with access to the Work, materials and facilities required to monitor the Work and provide 3.15 SOLVENT CLEANING CA Solvents are organic compounds that are used as Wipe-cleaning is a method of cleaning that utilizes Use of trichloroethylene (TCE) as a cleaning solvent is Solvent, including waste solvent and swabs, rags, paper or other solvent cleaning materials shall \mathbf{U} Rags and other solvent containing materials shall Copyright © JnF Specialties, LLC. All rights reserved worldwide. www.jnfspecialties.com/about-us/copyright

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