Attachment D Revision No. 13 Date: 03/25/10

ATTACHMENT D

PROCESS INFORMATION

[270.A ((270.15) (270.16))]

SECTION D

PROCESS INFORMATION

TABLE OF CONTENTS

D	PROC		D-1				
	D.1	Containers				D-2	
		D.1.1	Containers Wi	ith Free Liquids	5	D-2	
			D.1.1.a. Containers Without Free Liquids				
			D.1.1.1	Description of	Containers	D-3	
			D.1.1.2	Container Management Practices		D-3	
				D.1.1.2.1	Container Storage Areas	D-6	
				D.1.1.2.2	Rolloff Bin Area	D-9	
				D.1.1.2.3	Work Stations	D-9	
				D.1.1.2.4	Management of Empty Containers	D-12	
			D.1.1.3 Secondary Containment System Design				
				and Operation	-	D-13	
				D.1.1.3.1	Containment System Drainage	D-14	
				D.1.1.3.2	Containment System Capacity	D-14	
				D.1.1.3.3	Control of Run-on and Run-off	D-14	
				D.1.1.3.4	Removal of Liquids From		
					Containment System	D-14	
	D.2	Tank S	Tank Systems			D-16	
		D.2.1	Existing Tank Systems			D-16	
		D.2.2	New Tank Sys	stems		D-17	
			D.2.2.1		f New Tank System's Integrity		
			D.2.2.2	External Corre	osion Protection	D-18	
			D.2.2.3	Description of	Tank System Installation and		
				0	and Procedures		
		D.2.3	Dimensions and Capacity of Each Tank			D-19	
		D.2.4	Descriptions of	of Feed Systems	s, Safety Cutoffs, Bypass Systems,		
			and Pressure Controls				
		D.2.5	Containment and Detection of Releases		D-22		
			D.2.5.1	Plans and Des	cription of the Design,		
				Construction, and Operation of the Secondary			
					System for Each Tank System		
			D.2.5.2		eaks & Spills	D-25	
			D.2.5.3	Variance from	a Secondary Containment		
				Requirements		D-26	

TABLE OF CONTENTS (Continued)

	D.2.6 Controls and Practices to Prevent Spills and Overflows	D-26
	D.2.7 Requirements for Incompatible Wastes	D-26
	D.2.8 Requirements for Ignitable or Reactive Wastes	D-28
D.3 Non-Regulated Support Units		D-29
	D.3.1 Loading Dock	D-29

TABLES

D-1 Tank Inventory List

EXHIBITS

- D-1 Chemical Resistant Sealer
- D-2 Chemical Compatibility Chart for PVC Water Stop
- D-3 Chemical Compatibility Chart for Carbon Steel
- D-4 Tank Farm Control Flow Diagram

APPENDICES

- D-1 Container and Tank Storage Secondary Containment Calculations
- D-2 Tank Assessment
- D-3 Drainage Evaluation
- D-4 Tank Level Controller Information
- D-5 Grainger Code Analysis
- D-6 Tank Emission Control Design Analysis
- D-7 Containment Pallet Specifications
- D-8 City of Phoenix Fire Department Petition of Appeal

TABLE OF CONTENTS (continued)

DRAWINGS

FP1	FACILITY PLAN WITH LEGAL DESCRIPTION
581-ADA-102	CSA IA & CSA IB ARRANGEMENT
581-ADA-104R	FLOOR PLAN AT CSA II AND LOADING DOCK
581-ADA-105R	WORKSTATION PLAN AND RAMP SECTIONS
581-ADA-108	GENERAL ARRANGEMENT TANK FARM
581-ADA-116	MISCELLANEOUS DETAILS
581-YDA-101	SITE REFERENCE PLAN
581-YDA-102	GRADING & DRAINAGE PLAN W/OFFSITE IMPROVEMENTS
581-YDA-103	GRADING & DRAINAGE DETAILS AND X-SECTIONS
581-CDA-101 (1995)	GENERAL STRUCTURAL NOTES
581-CDA-102	TYPICAL DETAILS & PT NOTES
581-CDA-103 (1995)	SITE PLAN
581-CDA-104	FOUNDATION PLAN AT PT SLAB
581-CDA-108 (1995)	DETAILS
581-CDA-109 (1995)	DETAILS
581-CDA-101 (1996)	GENERAL STRUCTURAL NOTES
581-CDA-103 (1996)	SITE PLAN – PHASE II
581-CDA-105	FOUNDATION AT LOADING DOCK AND WORKSTATIONS
581-CDA-106	FOUNDATION PLAN AT CSA II AND MAINTENANCE

581-CDA-107	DETAILS
581-CDA-108 (1996)	DETAILS
581-CDA-109 (1996)	DETAILS
581-CDA-110	DETAILS
PH-F-01	PIPING & INSTRUMENT DIAGRAM VAPOR RECOVERY SYSTEM with Description of control system for Overfill Protection
NO IDENTIFIER	GUIDA SURVEYING INC. (FIRST SURVEY 2007) SHEET 1 OF 2 SHEET 2 OF 2
OR1022294-8521	GUIDA SURVEYING INC. (SECOND SURVEY 2008) SHEET 1 OF 3 SHEET 2 OF 3 SHEET 3 OF 3
WIND ROSE	GUIDA SURVEYING INC SHEET 1 OF 1 (AERIAL WITH WIND ROSE)

Section D Revision No. 13 Date: 03/25/10

D PROCESS INFORMATION

This section provides a detailed description of each regulated process unit at the Clean Harbors facility. The waste storage and process units include the following:

Container Storage and Processing

CSA I CSA II CSA IV CSA V CSA VI CSA VI Roll off Bin Area Four Work Stations

Tank Storage and Treatment

Table D-1 lists tanks for the tank farm. The table also indicates the regulatory status for each tank.

Non-RCRA Regulated Process and Support Units

Tank Farm (See Table D-1 for non-regulated units) Tanker loading/unloading area Loading Dock Staging Area

D.1 CONTAINERS

D.1.1 Containers With Free Liquids

The facility receives, stores, and/or bulks containerized liquid wastes prior to transfer off site. Liquid wastes consolidated or bulked at the site are transported to an off-site facility for final treatment and/or disposal. RCRA bulk containers with free liquids may be handled at CSA I, CSA II, or at the work stations. Any area can store non-RCRA materials, which includes household hazardous wastes, as long as all the materials stored in the same area are compatible. Any free liquids stored CSA IV, CSA V, CSA VI, CSA VII, or the roll off storage area will be containerized within a lab pack or other manufactured secondary containment vessel, with the outer container providing the required secondary containment for the waste. Non-RCRA materials may be stored anywhere on the property so long as they do not impede egress or are not incompatible with other materials that are stored in the storage unit.

During sample verification, a sample rod is extended into the container. When the sample is withdrawn and the sample placed into a sample container it is visually inspected for liquids. The visual inspection is recorded on the receiving documentation. Further analysis such as the Paint Filter Test, as identified in Section C of the application, will also be performed if there is any question of free liquid presence. Any free liquids are noted at this time.

D.1.1.a. Containers Without Free Liquids

Containers without free liquids can be stored in CSA I, II, IV, V, VI, VII, work stations, tank farm and the roll off area. Containers are determined to be without free liquids during the waste identification and verification procedures described in Section C. Obvious solids such as powders and debris are examples of wastes that can be visually determined to be absent of free liquids. The person collecting the verification samples notes at the time of collection, the presence of free liquids and once the sample is in the laboratory it is again examined for the presence of liquids. This information is recorded on the receiving documentation and kept as part of the operating record. Containers of waste that cannot be determined visually to be without free liquids may be tested using the paint filter test prior to storage. Semi-solids and sludges are examples of wastes that may be tested or managed as liquids. Lab packs, because they are inner containers packed with absorbent into outer shipping containers, provide their own "secondary containment" systems and are considered to be without free liquids as criteria for which storage area to place them in. Overpack containers without any free liquids can be placed in any of the containment areas.

Containers will always be closed during storage except when it is necessary to take samples or add or remove waste.

D.1.1.1 Description of Containers

All containers containing hazardous waste meet the United Nations Performance Oriented Packaging Standards (POPS) and are the approved packaging standards by the U.S. Department of Transportation (DOT) for hazardous wastes. Currently, typical container sizes used for lab packs include 5- to 85-gallon open head steel, fiber or plastic containers. The majority of containers shipped to the facility are 55-gallon steel or plastic containers. Although these are the most common containers, any DOT approved containers may be accepted.

Contents of lab packs designated for transfer are placed into the drum types listed above. Liquid wastes from RCRA lab packs are typically bulked into compatible closed steel or plastic DOT approved containers. Individual containers that comprise lab pack wastes can be repackaged into open head, steel, plastic or fiber DOT approved containers with absorbent. Also, solid lab pack materials may be consolidated into a transfer vessel that is emptied into a rolloff container. The transfer vessels will be emptied of RCRA waste at the end of each operating day. Lab packs contain no more than 40% waste of the rated capacity of the outer container, thus a 55-gallon lab pack may have up to 22-gallons of waste. When calculating 55-gallon equivalents, a 55-gallon lab pack will only take up 22-gallons on RCRA storage volumes.

D.1.1.2 Container Management Practices

Containers are inspected upon receipt to evaluate their condition and to insure proper labels are

attached. In the interest of public safety and if the waste can be safely handled by facility personnel, containers that exhibit signs of severe corrosion, leakage, or imminent failure due to apparent structural defects, will be repackaged rather than rejecting the container back to the generator to correct the situation. Any containers used will be made of or lined with a material, which will not react with, and is otherwise compatible with, the hazardous waste to be stored, so that the ability of the container to contain the waste is not impaired. Leaking containers take priority over all operations and are corrected upon discovery. The containers holding hazardous waste are always closed during storage, except when it is necessary to add or remove waste. The containers will not be opened, handled or stored in a manner which may rupture the container or cause it to leak.

Containers are unloaded from the transport vehicles and transported by forklifts or hand conveyance equipment from the loading dock to the receiving area of CSA II, or the work stations, then to a container storage area containing compatible wastes. RCRA receiving or sample verification collection, as per the Waste Analysis Plan in Section C of this Application, can occur in CSA II or the work stations. The Operations Manager or his designee is responsible for directing placement and storage of incoming wastes.

The chemist or operations manager reviews the manifests and profiles of waste coming into the facility prior to unloading any vehicles. Even though all wastes are approved prior to entering the facility, employees have various reference materials available to research any issues on proper handling of the waste. Commercial reference manuals such as the Merck Index, Hawley's Condensed Chemical Dictionary, NIOSH Handbook, manufacturer's specification sheets, and or Material Safety Data Sheets are available for review. The review may indicate that a condition of the waste may preclude sampling, e.g., highly odiferous or highly toxic or the findings may be used to determine the compatibility with other wastes on site and a proper place to store the waste.

After sample verification analysis, wastes may be further segregated in storage areas, e.g., corrosives are further segregated into acids and bases for separate storage areas. Smaller storage areas, such as the work stations may completely change wastes types stored over time based on the wastes received at the facility.

Containers are visually inspected each business day for signs of leaks or deterioration of the container as a part of the facility's daily inspection program. The markings on the containers, the pallets, the secondary containment flooring are also inspected for inconsistencies or issues that would create a problem with the storage of the container. Inspections are recorded electronically or on preprinted forms with any issues so described. The forms also have available space to describe the resolution and the date the issue was resolved. Inspection procedures for containers are explained in more detail in Section F.2.2.1.

All containers arrive at the facility by truck and are loaded onto each truck by DOT load and segregation standards for chemical compatibility. The facility uses the segregation or compatibility designations as the primary means of separation of wastes at the facility. Appendix V of Part 264 is also used as a guide to indicate the need for special precautions when managing potentially incompatible wastes. The segregation tables are designed around the physical characteristics and properties of the hazardous material and the potential reaction that may occur if substances should mix. The facility stores wastes in separate storage areas based on the physical characteristics of each waste and the compatibility of wastes if two different wastes should mix. The facility regards the mixture to be compatible if the resulting mixture does not create a reaction that liberates heat, gasses, spontaneously ignites, creates a violent reaction, or creates vapors immediately dangerous to life and health.

Containerized wastes, bearing waste codes F020, F021, F022, F023, F026, and F027, will be stored in CSA II or the Work Stations, covered secondary containment areas, with the containers placed upon manufactured secondary containment pallets meeting the containment capacity as defined by 40 CFR 264.175(b).

All water reactive wastes are offsite generated wastes that have been transported to the facility in DOT approved water proof containers. The City of Phoenix Fire Department recognizes that these containers are primarily waterproof lab pack containers and granted an appeal to store these wastes in storage areas where water may be present. The facility stores water reactive wastes in the work stations or in manufactured covered weather resistant secondary containment structures

Section D Revision No. 13 Date: 03/25/10

meeting the secondary containment requirements of 40 CFR 264.175 in CSA IV, VI, or VII. Bar code labels are affixed to each container manifested to the site and site generated containers to identify the container and its contents. The labels contain a unique identification number, the date the container arrived at the site, and other data used to process the container while on site. The unique tracking number is only used once within the Clean Harbors database system. The unique number integrated into the bar code label allows the container to be "scanned" using a laser reader to identifying the location of the container stored in the facility, when it is processed, consolidated or shipped off site. The unique number can also be used to identify the associated profile, conformance testing results, and inbound and outbound manifests. This information is stored in the computer database, which preserves the data for the facility operating record. The information can be retrieved when needed.

All containers shipped from the facility must meet all applicable DOT and ADOT regulations. Containers will be over-packed or transferred to an acceptable DOT container if the primary container does not appear to meet DOT standards prior to shipping off-site.

D.1.1.2.1 Container Storage Areas

The layout of the facility (Figure B-1) includes Container Storage Areas (CSA) I, II, IV, V, VI, and VII. All container storage areas use poured concrete floors to store containerized waste upon. CSA I and II are pre-engineered metal buildings located at the southwest portion of the facility. The container storage areas are coated with a chemically resistant sealant to prevent hazardous waste and recyclable material from reacting with and/or penetrating the concrete. The CSA's are constructed to comply with National Fire Protection Association (NFPA) buffer zone requirements between types of wastes.

CSA I is used to store acids and acid compatible wastes. Storage of containers in CSA I will be limited to a total of 36,520 gallons in any approved combination of DOT containers. CSA I is divided in half with a high ridge along the central main aisle, 8 feet minimum width, for separation between each half of the storage area. If any leaks or spills should occur, the sloped floor will keep the free liquid on its half of the storage area. CSA I is protected with a sprinkler water system if a fire should ignite.

CSA II is used for the storage of flammable liquids, compatible materials, and sampling for waste conformance or fingerprinting. CSA II's containment areas are divided by ridges and sloped floor sections, into three different containment areas, to separate incompatibles. A minimum 8 feet aisle space will be maintained between the different containment areas. CSA II storage area will contain a maximum storage capacity of 66,880 gallons. After fingerprinting, the drums will be moved to an appropriate storage area or work station for processing. The transfer aisle on the west side of CSA II may be used to stage up to 100 55-gallon equivalents of waste. The waste will be staged meeting the requirements of DOT segregation requirements. If there is sufficient containment and aisle space, the drums may remain in the transfer aisle after operating hours. CSA II is protected with a foam fire suppression system that initiates automatically when the heat of a fire is detected.

CSA IV is located on the east side of the tank farm. Containers of compatible RCRA solids and lab packs may be stored here. A rolled berm at the north end of CSA IV prevents run-on of liquids and the storage surface of CSA IV slopes to the south. The containers are elevated on pallets to protect from contact with accumulated liquids. Storage of containers will be limited to a total of 23,760 gallons in any approved combination of DOT containers, based on the spatial requirements for double stacked 55-gallon containers.

CSA V is located along the northern edge of the facility, north of the tank farm. Containers of RCRA solids and lab packs may be stored here. Since this area is within 50 feet of the property line, no RCRA ignitable materials will be stored here. The site curbing on the northern boundary of the facility prevents run-on into CSA V while the surface of CSA V slopes to the east preventing containers placed on pallets from contact with accumulated liquid. CSA V may hold a maximum of 124,960 gallons of containers (75,000 gallons maximum permitted for the facility), based on the spatial requirements for double stacked 55-gallon containers.

CSA VI and CSA VII are located on the northern edge of the tank farm. Containers of RCRA bulk solids and RCRA lab packs along with non-RCRA waste may be stored here. CSA VI and VII have rolled berms surrounding each area and the storage area surfaces are level. RCRA regulated

containers will be placed on pallets that are higher than the deepest accumulated precipitation thereby keeping containers from contacting standing liquid. CSA VI may hold a maximum of 11,000 gallons of containers, while CSA VII may hold a maximum of 15,400 gallons of containers, both capacities based on the spatial requirements for double stacked 55-gallon containers.

Containers may be double stacked to a maximum height of the equivalent of double-stacked 85gallon overpacks. A container row is nominally four feet wide with a minimum two foot aisle space maintained between adjacent rows of RCRA regulated containers to allow easy inspection of each container.

The primary means of separating incompatibles is physical separation. CSA I and CSA II have at a least the minimum secondary containment required by 264.A (264.175(b)) based on the volume of double stacked 55 gallon containers capable of being stored in that area. In controlling the volume of waste stored in a particular area, the RCRA waste inventory will be based upon the maximum volume of waste that each container can contain in respect to the purpose of the container, such as over-pack or lab pack containers. An 85-gallon over-pack will be counted as having 55-gallons of waste because that is the largest container that can be over-packed. A 55-gallon RCRA bulk drum will be counted as 55-gallons. Bulk RCRA containers of other capacities will use the maximum design capacity for inventory purposes. Lab packs will count as 40% of the container volume since that is the maximum amount of waste they can hold. Containers will meet the stacking requirements as stated for the existing container storage building. Small volumes of incompatible waste may be segregated from other waste with the use of portable containment systems that can hold a volume equivalent greater than the volume of the largest container or 10% of the volume of all the containers captured by the containment system. Any leaks from containers will be removed from the secondary containment in a timely manner. Therefore, co-mingling of incompatible liquids will be prevented through physical separation and operational procedures.

The combined capacity of all storage areas throughout the facility is greater than the amount of RCRA container storage allowed on the Part A Application. The maximum amount of RCRA containerized wastes throughout the facility is limited to 75,000 gallons, equivalent to 1363 55-gallon containers in any combination of the designated storage areas.

D.1.1.2.2 Rolloff Bin Area

The Rolloff Bin Area located east of the Tank Farm will be used to store roll off containers containing RCRA regulated/and non-RCRA regulated waste. The common container sizes are 15 to 40 cubic yards. However, other bulk solid or lab pack containers may be stored in this area. Wastes containing free liquids are not allowed to be stored in roll-off bins. The area is capable of holding a maximum of twelve 40 cubic yard bins (97,000 gallons capacity; 75,000 gallons maximum permitted for the facility). In addition to storing incoming waste material, this area may be used to consolidate or bulk store wastes that are solid and bulked on-site prior to shipment. Before leaving the facility all material stored in rolloff bins will meet DOT and ADOT container requirements for transportation.

Roll off bins are marked and labeled in the same manner as smaller containers. The bins are used as the primary DOT transport container for bulk solids. The bins remain closed and are covered or otherwise topped while in storage to prevent the entrance of precipitation. The tops will only be opened to add or remove waste and then closed. Rolled berms surrounding the storage area create containment for the area in the unlikely event that free liquids leak from a rolloff. Absorbents may be used if necessary to control any free liquid within a container, such as when rain water contaminates a rolloff container or a filtercake is delivered with excess water.

D.1.1.2.3 Work Stations

Historically, containers of RCRA regulated and non-RCRA regulated materials have been handled many times before they are either fully emptied or transferred off-site. Container handling generally consists of moving containers in and out of storage via a forklift, as well as the opening and closing of the containers. In order to reduce the number of times containers are handled, four (4) "Work Stations" were constructed at the facility. These stations facilitate efficient unloading, sampling, emptying, bulking, elementary neutralization, or other disposition of the contents.

The utilization of each work station varies daily depending on the type of waste to be processed.

The flexibility of the work stations enables each station to be utilized either independently or together with other stations in a number of possible ways:

- Staging and storage of up to 2750 gallons (50 55-gallon containers) in each station. The staging can be for initial verification sampling and identification or outbound loads.
- Separate storage areas for wastes incompatible with other wastes at the facility. This would include wastes such as oxidizers, water reactives, or waste codes F020, F021, F022, F023, F026 and F027.
- Pumping liquid drum contents from containers of compatible material into larger storage tanks or directly into a tanker.
- Lifting by hoist, forklift or by other methods and decanting of the liquid phases of drums into other drums or larger containers.
- 5) Providing a safe, isolated area for the opening, emptying, and disposition of lab pack contents for recycling or disposal. This will include the pour off of compatible, similar contents of the smaller containers into larger containers.
- 6) Opening of drums, boxes, pails, or other containers of solid hazardous wastes. Compatible wastes, sludges, or other solids will then be bulked into larger containers for eventual transfer to rolloff boxes or other bulk-solids shipping containers or vehicles.
- Opening, emptying, consolidating and bulking containers of compatible materials, such as paints, solvents, or cleansers, of RCRA-exempt household hazardous waste.
- 8) Cleaning, scraping or otherwise "emptying" containers.

- Lab packing or similar repackaging into DOT approved shipping containers of wastes generated on-site for shipment.
- Neutralizing RCRA corrosive liquids with only a D002 code by consolidating small containers of acids and bases in a drum together (unregulated process per 264.1 (g)(6)). Non-RCRA materials may be consolidated in the same drum if compatible.
- 11) Venting noble or atmospheric gases from cylinders.

Crew members will be assigned separate duties within the work stations. These duties will include: labeling new consolidation containers, drawing samples for confirmation with profiles, and operating bulk pumping equipment or forklifts to move material toward its final in-plant destination.

Each work station will be set up with a wide variety of equipment to make each operation more efficiently. The equipment included within the work stations may include the following:

- a hose, for emptying of corrosive, flammable, or other liquids from drums to tanks or other (bulk) containers.
- compressed air outlets and hoses for the operation of a variety of air-powered pumps or tools which may include drum deheaders, powered bung openers, sparkless chisels or scrapers, and related appurtenances.
- a hand-operated, swiveled hoist (500 lb. or greater).
- a manifold and outlets for supplying breathing air, for up to 6 persons per station. Air is supplied from a breathable air compressor located north of the work stations or an equivalent source of breathing air.
- A workbench table for securing and holding containers while processing.

Each Work Station has intrinsically safe electrical outlets and lighting and heat activated sprinkler

fire protection. An eyewash and dousing shower unit is located at the south end of the work stations.

D.1.1.2.4 Management of Empty Containers

Empty containers (85-gallons or less) are stored at the facility until sufficient numbers are present for efficient processing and shipment. These containers are RCRA empty and are sent to an off-site reclamation company or to an appropriate permitted disposal facility or if clean and in like new condition, may be reused for shipping waste off-site for final disposal. All waste that can be removed from a container will be removed at the work stations or within one of the other drum storage areas through pumping, pouring, scraping, or aspirating. Less than one inch of residue and no more than three percent by weight of the total capacity of each container are allowed to remain in order for a container to be considered empty.

Containers will be emptied by several methods depending upon the consistency of the waste and the size of the container. Containers holding liquid or liquid with low solids content will be transferred to a tank using a self priming pump. This transfer is enhanced by tipping the container on edge near the end of the pumping process. Liquids from containers that contain liquid on top of solid/semi-solid materials are pumped through a small diameter pipe sufficiently long enough to reach the bottom of the container. The solids are then removed through pouring or scraping, using shovels or scrapers. Closed top containers will be deheaded if sufficient material cannot be removed by pumping or pouring methods. Containers are tipped if necessary to remove contents. Small containers are emptied into a larger container for more efficient transfer via pumping.

Any containers which held acutely hazardous waste are triple rinsed with a suitable solvent capable of removing the material, or the drum will be disposed of as a regulated waste. Rinsate is bulked in an appropriate container or tank and transported to an off-site treatment or disposal facility. Metal or plastic from empty RCRA containers may be collected and stored in drums or bins, or sent as is to a scrap metal facility, or to an appropriate permitted disposal facility such as an incinerator, landfill or fuel blender.

D.1.1.3 Secondary Containment System Design and Operation

The facility is comprised of several containment areas for the storage of waste. All of these areas are constructed of concrete. Each area is delineated by rolled curbs, sloped floors, berms or walls providing containment for the area. Construction Drawings and General Construction notes for each area are included in the Application. Figure B-4 is a survey of the facility, conducted in 2007, providing actual elevation points and dimensions for calculation of containment. Appendix D-1 contains secondary containment calculations for CSA I, II, and the Work Stations based upon the survey and container configurations within each unit.

The poured concrete slabs were specified to a compressive strength of 3500 PSI at 28 days per ASTM testing methodology. Secondary containment concrete was poured in shapes and sizes to minimize the number of joints in an area. Floor seams are adequately sealed with a chemically resistant compound to preclude seepage through the joint. Exhibit D-1 presents an engineered evaluation of the chemical resistant coating designed for use on the concrete surfaces to prevent hazardous waste and recyclable material from penetrating and reacting with the concrete. Exhibit D-1 presents the product information specification sheets along with the chemical resistance charts. The evaluation further provides a comparison of the chemicals of use at the facility and their effect, or lack thereof, on the coating.

The concrete containments in the RCRA areas will be checked at least weekly for cracks and other possible deterioration see Example F-1 for an example of the Daily Facility Inspection form itemizing containment inspection criteria. If cracks or excessive wear are observed, they are so noted on the inspection logs and a repair process is initiated.

Hazardous waste is stored in containers and will not be in direct contact with the concrete base except in the event of a spill or leak. If a leak or spill occurs, initiation of cleanup procedures will begin to prevent further release and penetration of the waste into the coated concrete base.

D.1.1.3.1 Containment System Drainage

Any released material within a RCRA containment area will be removed in accordance with Section D.1.1.3.4. Containers are generally stored on pallets as an added safeguard to prevent accumulation of released waste from contacting containers. Pallets may not be used while adding or removing waste from containers or staging wastes for transfer. CSA I, II and the work stations are located within enclosed buildings or roofed areas eliminating the accumulation of precipitation. CSA IV, V, and roll off area are sloped to minimize contact of precipitation with the containers. CSA VI and VII are level but the containment curb is lower than the height of a pallet and therefore the containers never come into contact with liquids.

D.1.1.3.2 Containment System Capacity

CSA I, CSA II, and the Work Stations were designed with sufficient containment capacity to contain either a minimum of 10% of the total volume of the maximum capacity of the storage area or the largest container. The other container containment areas are designed for the storage of RCRA solids and RCRA lab packs. Each area has containment to keep potential spills from spreading to other areas. Secondary containment calculations for the container storage areas are presented in Appendix D-1.

D.1.1.3.3 Control of Run-on and Run-off

CSA I, II and the workstations are covered and curbed to prevent run-on and run-off. The roll off area, and CSA's IV, V, VI and VII are curbed to prevent run-on and run-off. The loading dock is not a RCRA regulated unit but is designed to preclude run-on and prevent run-off. The tank farm is walled to prevent run-on and run-off. Appendix D-3, Drainage Evaluation, presents an evaluation of surface water flow at the facility.

D.1.1.3.4 Removal of Liquids from Containment System

In the unlikely event of accidental spills or leaks, such material will accumulate in the low points within the individual secondary containment areas. If waste is detected it will be removed with a

portable pump or absorbent, then placed in a properly labelled container or tank for disposal. Several portable pumps are kept on-site in case of failure of a single pump.

Containers in the area will be examined to determine the source of the leaked or spilled material. Severely damaged or leaking containers will be overpacked or the contents will be transferred to a sound shipping container and properly labelled. Any recovered material will also be placed in appropriately labeled containers or tanks for treatment or disposal. In the unlikely event that the recovered material cannot be readily identified, the material will be analyzed for the properties or constituents identified by the profiles for all containers in that area.

If there is a leak from a single drum within an area, the repacked drum will be similarly labeled as the original drum. In the event multiple drums containing compatible materials from different sources leak or spill simultaneously, the mixture will be collected and re-containerized or, if compatible, pumped into a tank. The newly generated waste will be handled according to the appropriate requirements for that waste. The waste will be properly labelled and stored until final disposition is determined. Since containers of incompatible materials will not be stored within the same containment area, leakage and subsequent mixing of waste would not be expected to cause any adverse reactions. Section G of this application provides more information regarding the response to a leaking container.

Accumulated precipitation in the RCRA storage areas will be removed in as timely a manner as necessary to prevent overflow of the containment area. Precipitation determined to be hazardous, either through analysis or generator knowledge, will be collected and treated at an appropriate treatment facility. Precipitation may be left in place to evaporate if there are no RCRA materials stored in that area.

The facility may discharge collected precipitation to the City of Phoenix Storm Drain System after analysis indicates that the conditions of the NPDES permit have been satisfied.

D.2 TANK SYSTEMS

The tank farm contains 12 tanks. Six tanks are RCRA regulated and six are non-RCRA storage and treatment tanks as shown in Figure B-1. Table D-1 lists tank information including size, volume, potential content and regulatory status. The waste type handled within a particular tank may vary based upon operational considerations. However, the facility will not exceed maximum allowable RCRA tank storage capacities and will maintain separation of any incompatible materials within the tank farm. Incompatibles being defined as when the wastes from two tanks mix and liberate heat, gas, or create a chemically unstable mixture.

Only compatible materials will be stored within a segregated area. Flammable liquids, materials for recycling, rainwater, wastewaters and/or other compatibles will be stored in the tank farm area. If any tanks are isolated from the remainder of the tank farm, secondary containment will be sufficient to meet the minimum requirements of 264A.(264.193). Drawing 581-ADA-108 shows the current tank layout. A permit modification will be requested from the ADEQ prior to increasing tank capacity or changing the design specifications of a tank or replacement.

All tanks are designed to meet applicable codes such as American Petroleum Institute (API), Underwriters Laboratory (UL) and/or American Society of Mechanical Engineers (ASME). Tanks are located to meet NFPA buffer zone requirements as they relate to tank contents and volume. Specific precautions for tanks containing flammable wastes are addressed in Section D.2.8. All tanks will be operated at atmospheric pressure and ambient temperatures.

D.2.1 Existing Tank Systems

All tanks meet the regulatory definition of new tank systems and will be assessed under new tank standards (see Section D.2.2).

D.2.2 New Tank Systems

D.2.2.1 Assessment of New Tank System's Integrity

Appendix D-2 contains an assessment for the storage tanks, including a specification sheet for each tank. This assessment indicates the tanks are adequately designed with sufficient structural integrity to prevent failure due to collapse or rupture.

The specification sheet provides the design standard for each tank's construction, dimensions, capacity, construction material, control devices, operating temperatures and pressures. Material selection for any particular tank is determined by the tank's service requirements. The material selection was based on published scientific information, previous waste analysis data, and results from the storage or treatment of similar wastes. While the primary hazard of the tanks in the tank farm will be flammable and toxic, any waste codes, except "P"- waste codes, bulked at the facility may be in the tanks in low concentrations due to liquids from decontamination projects, lab waste, etc. Acids, oxidizers, and reactives will also be excluded from the tanks. The hazardous characteristics of the wastes to be handled through the tank system are contained in Table C-1.

Tanks storing flammable wastes, wastewaters and recyclable materials will be constructed of carbon steel. Carbon steel is generally resistant to a wide range of waste streams; Exhibit D-3 presents a Chemical Compatibility Chart for Carbon Steel. The potential rate of corrosion depends upon many factors, such as concentration of the waste stream, temperature, chemical composition and physical characteristics of the wastes. The tanks are visually inspected through the man way opening whenever tank cleanouts are performed. If corrosion is evident, tank integrity testing will be performed to monitor tank shell thickness. Future tank assessments will be scheduled and performed based upon a qualified registered engineer's assessment.

A new tank assessment has been reviewed and certified by a professional engineer registered in Arizona. This information is presented in Appendix D-2.

Installation inspections of the tanks by an independent, registered professional engineer were performed and are on file in accordance with 264.A (264.192) prior to placing the tanks in service. Certification statements that attest to the proper installation of the tank system are maintained on-site.

D.2.2.2 External Corrosion Protection

The tank systems consist of aboveground tanks that are not in contact with soil or standing water. Carbon steel tank exterior coatings will consist of a primer and a suitable paint as indicated on the tank detail design sheets (Appendix D-2).

D.2.2.3 Description of Tank System Installation and Testing Plans and Procedures

Each installed tank system was inspected by an independent, qualified installation inspector or an independent, qualified, registered engineer in accordance with 264.A (264.192). The plan used, and which will be used on any future replacement tanks, will be subjected to the same installation and testing plan. Normally a tank manufacturer or suppler arranges for the transport of a new tank to the installation site and retains the responsibility for the tank until such time as it is delivered and accepted by the buyer. The installation inspector will observe the arrival of the tank at the site and it's off-loading from the tank transporter. While the tank is still on the transport vehicle, the inspector will visually examine the tanks for:

- Weld breaks
- Punctures
- Abrasions affecting protective coatings and/or linings
- Cracks
- Corrosion

Pre-installation handling of tank system components, particularly the tank itself, must be done carefully so that the components are not scraped, dented, or cracked. Coatings and welds on steel

tanks are particularly vulnerable to damage from improper handling.

Before a tank is moved, the capacity and reach of hoisting equipment will be checked. Tanks will be moved using lifting lugs installed by the tank manufacturer. Cables or chains of adequate length will be attached to the lifting lugs, and manufacturer's guidelines regarding distribution of tank load during installation will be followed. Tanks will not be accepted by the facility if they have been dropped, handled with a sharp object, dented, dragged, or rolled.

Tank tightness testing will be performed after the tank has been placed in its designated location in the tank farm using standard testing procedures with air, inert gas, or water. Prior to performing the tightness test, where appropriate, factory-installed plugs will be removed, and tank fittings will be securely installed.

The visual inspection(s) and tightness test will assist the inspector to identify the defects listed in Section 264.192(b). Section 264.192(b) also requires that any damage to a new tank system or component must be remedied prior to installation. Normally, such repairs are the responsibility of the supplier or an authorized representative. The facility will not place any tank into service that has not been properly installed.

Fluid transfer in the tank farm will be through hoses. Any hard piped ancillary equipment will be supported by steel supports designed in accordance with the Manual of Steel Construction published by the American Institute of Steel Construction (AISC). The spacing of the supports along the pipe will be determined by the type of pipe used and will be designed to support the pipe and prevent physical damage from deflections. Foundations will be designed to support the loads of ancillary equipment and contents.

D.2.3 Dimensions and Capacity of Each Tank

Carbon steel tanks were designed in accordance with UL-142, or equivalent design criteria that incorporate the American Society of Mechanical Engineers (ASME) allowable stresses. Design specifications for UL-142 for welded steel tanks allow operational conditions of up to 250° F with

pressures less than or equal to 15 psig. Clean Harbors' tanks operate at ambient temperature and up to 6" of water column pressure.

All structural steel supports are designed in accordance with the Manual of Steel Construction published by AISC. All concrete foundations consist of reinforced concrete designed in accordance with the Building Code Requirements for Reinforced Concrete, as published by the American Concrete Institute (ACI) 318-83. All design features came from current editions of the codes at the time the design was performed.

Ancillary equipment for the flammable tanks conforms to Class I, Division I NEC code requirements. Tank vent vapors are collected and treated through an emission control system.

Detailed specifications of tanks and structural steel supports are available for each tank. This information is specific to each tank.

D.2.4 Description of Feed Systems, Safety Cutoffs, Bypass Systems and Pressure Controls

A duel system of appropriate tank controls has been designed to minimize the potential for spills and overflows in the tank farm. The design includes a Rosemount 5400 level controller and an Echotel Model 961/962 Ultrasonic Level Switch mounted on each tank. The Rosemount 5400 radar transmitter level controller is the primary control mechanism that provides continuous tank level information to a control panel display. The level controller also initiates a high level shutoff at 90% of tank capacity that simultaneously activates an audio alarm, strobe, and a solenoid valve to shut off the pump air supply. The facility uses pneumatic double diaphragm operated pumps to transfer liquids between vessels.

The Echotel Ultrasonic Level Switch provides a redundant (or Hi-Hi level) shutdown actuated at 95% of tank volume should the Rosemount level controller not shut the system down properly. The Echotel system utilizes a liquid contact to initiate a shutdown. The equipment is specifically rated for use in a chemical environment, suitable for a hazardous waste facility. Appendix D-4 shows the detail specifications and applications for the Rosemount 5400 level

D-20

controller and the Echotel Model 961/962 Ultrasonic Level Switch. The equipment is shown schematically in the P& ID drawing (PH-F-01) included in the application. Exhibit D-4 is a flow diagram that explains how the system works if the tank reaches capacity.

Both switching mechanisms activate a solenoid valve to shut off air supply to the pneumatic pump filling the tank, halting operations, simultaneously an audio and strobe alarm are activated to alert personnel. Supervisors will be alerted by the alarms when operations are halted. Pump operators will confer with a supervisor prior to moving pump operations to another tank. The air supply to the pump is reconnected after a different tank has been selected to receive the remaining fluid to be transferred.

Pneumatic pumps are air operated and therefore do not pose a fire or explosion hazard as would a pump with an electric motor. These pumps will "stall" or quit pumping when reaching their maximum operating pressure. This will ensure that the pump will not keep operating and over pressure or burst a line. Flexible hoses, instead of hard piping, are used between the initial and receiving vessels. The hoses have a higher maximum allowable working pressure rating than the stall pressure of the pump. The hoses are inspected prior to each use for cracks or other deterioration. The hoses are drained after each use to prevent any residual waste from solidifying or plugging the hose. A hard piped system would never be completely drained and more susceptible to plugging.

The tanks are vented through a carbon adsorption emission control system; see Exhibit E-3 for a description and evaluation. There is a difference in the emission controls for each RCRA tank due to the manufacturer's recommended setting for the tanks pressure relief valves. Tanks 101, 102, 103 and 301 are set at 1 psi (16 oz.). Tank 104 is set at 0.75 psi (12 oz.) and Tank 303 is set at 0.50 psi (8 oz). The tanks utilize a thief hatch with a vacuum and pressure relief valve to prevent the tank from collapsing or expanding under normal operating conditions. Each tank also contains an emergency relief vent that will release in the event the carbon adsorption system and thief hatch cannot handle the volume of gases being emitted from the tank, this would release enough pressure from the tank to prevent a massive deformation of the tank.

Calculations are performed by the pumping supervisor to ensure adequate volume is available in the tank prior to initiating pumping operations. The fill volume is calculated not to exceed 90% of the tank volume. Standard procedure does not rely on the level controller to deactivate a pump. The liquid levels in the receiving vessel will be recorded prior to any pumping operation. Calculations are performed for the volume of liquid to be transferred and checked for available capacity in the receiving tank using the tank inventory log for each tank, Exhibit F-3. The liquid level in the vessel is checked, the calculations are checked and the hose connections checked prior to commencing filling operations. During pumping operations, the fluid transfer pumping flow rate will not exceed 100 gallons per minute. The water level in the knockout tank will not exceed 10 inches. The post filling volume is recorded to verify the new vessel volume. An operator will be in attendance for all fluid transfer activities. The operator will immediately close any feed valves and discontinue pump operations should a leak or overflow condition evolve.

Other spill prevention controls include a specific procedure to drain hoses prior to disconnecting, placing drip pans under connections to collect any potential leaks, ensuring the gaskets are in good shape, and capping the hose ends immediately after use. Operators are always present when pumping operations are being conducted to immediately halt pumping if a leak was to occur. The pumping operations would be discontinued until the spill was collected, the cause determined and remedied. Tank fluid transfer is prohibited during carbon change out activities.

D.2.5 Containment and Detection of Releases

The secondary containment for the tank systems will meet the requirements of 264.A (264.193) These requirements are considered in the following sections.

D.2.5.1 Plans and Description of the Design, Construction, and Operation of the Secondary Containment System for the Tank System

Drawing 581-CDA-104 provides plan views of the tank farm's secondary containment. Secondary

containment consists of a reinforced post tension concrete slab and 8 inch thick reinforced concrete containment walls.

The containment area drains to a low point. The tank farm concrete is covered with a protective coating which prevents waste or recycled material from reacting with or penetrating the concrete. Exhibit D-1 presents an engineered evaluation of the chemical resistant coating designed for use on the tank farm concrete surfaces. The evaluation specifically addresses the PVC water stop used in the tank farm wall joints and the coating used to protect it and the concrete. Exhibit D-1 presents the product information specification sheets along with the chemical resistance charts. The evaluation further goes on to compare the chemicals of use at the facility and their effect, or lack thereof, on the coating.

The containment volume within the tank farm is sufficient to contain 100% of the largest tank volume plus the volume of a 24 hour - 25 year storm which is conservatively estimated at four (4) inches of precipitation. Tank secondary containment calculations are provided in Appendix D-1. The foundation design meets the requirements per American Concrete Institute (ACI) construction details. The foundation design consists of a minimum 6-inch reinforced concrete slab placed over compacted subgrade. Using multi-stranded cable on 18 inch centers perpendicular to each other and placed in tension after the concrete is set up to 80% tensile strength.

The structural capacity of the foundation design is adequate to support all elements of the tank system. The following elements demonstrate adequate design requirements for the foundation.

- Shear forces and moments influenced by design loads on the concrete slab, pad and subbase were designed using safety factors based on ACI Codes.
- The structural concrete is designed with steel reinforcement. This reinforcement provides additional structural strength to the concrete, as well as providing shrinking and cracking control.
- Compression loads experienced upon pump and equipment foundations are minimal compared to the compression strength of the reinforced concrete of which these foundations

are constructed.

The secondary containment system is a passive system composed of a concrete containment structure. The containment is inspected each operating day for cracks in the system or accumulations of liquids. Any spilled or leaked liquids are immediately contained and cleaned up. Precipitation is collected within 24 hours of detection if waste is being stored in the tanks. If all tanks in a secondary containment area are empty, the precipitation is not required to be removed in the same time period. Repair procedures will begin upon discovery of cracks or deterioration of the secondary containment system. If the integrity of the secondary containment system appears to be compromised, the tanks will be emptied until the secondary containment system is once again adequate.

All of the tanks containing RCRA regulated fluids, except Tank 104, are of a flat bottom design that will rest on an electrically grounded, grooved, concrete pedestal raised off the concrete floor of the tank farm to create an annulus for visual inspection. The groove in the pedestal will provide a channel for liquids to migrate out to the edge of the pedestal if a leak should occur. Tank 104 is not flat bottomed and consequently raised on legs about 18 inches to anchor to a similar grooved concrete pedestal.

The tank farm area is inspected each operating day for leaks or spills. The sides of the tank and the concrete pedestal are viewed for any signs of leakage. If a leak or spill is detected from a tank, the spilled waste will be removed within 24-hours or as soon as practical using portable pumps to pump the waste into a compatible waste storage tank, or other suitable container. The remaining contents of the tank will be transferred to another vessel and the tank removed from service until repairs are made.

Ancillary equipment, which includes pumps and hoses, is located within the containment areas. This equipment is connected to a tank prior to use and disconnected after use so that the only time anything is attached to the tank is while fluid is being added or removed. During times of no liquid transfer, the tank valves are closed and capped. The equipment is all aboveground and visually inspected prior to and during use for signs of leakage or deterioration. The ancillary equipment within the tank farm area will provide a negligible load to the concrete pad compared to the loads resulting from the tanks, and will therefore meet loading requirements. The volume of the ancillary equipment within the tank farm will have negligible effect upon the secondary containment volume required for the tanks located in the containment volume.

D.2.5.2 Response to Leaks and Spills

Within 24 hours of detection of a release or spill from a tank, as much as waste as possible will be removed from the tank to stop the leak, perform an inspection or repair the leak. Any material released to the secondary containment system will be removed within 24 hours of detection or as timely a manner as possible to prevent harm to human health or the environment. An immediate visual inspection will be performed to assess the situation and based upon that assessment, determine a course of action to prevent further migration to soils or surface water and remove or properly dispose any visible contamination of the soil or surface water.

If the leak was from a tank, the tank will be repaired prior to returning the tank to service. If the repairs to the tank were extensive, e.g., installation of an internal liner, repair of a rupture of the tank wall, a certification by an independent qualified registered professional engineer will be obtained in accordance with §270.11(d) that the required tank is capable of handling hazardous wastes without the release for the intended life of the system and the certification will be submitted to the Arizona Department of Environmental Quality within seven days of returning the tank to service.

If a release occurs that is greater than one pound or not immediately cleaned up, will be reported to ADEQ within 24 hours of detection. Within 30 days of detection of the release to the environment, a report containing the following information will be submitted to ADEQ:

Likely route of migration;

Characteristics of the surrounding soil;

Results of any monitoring or sampling conducted in connection with the release;

Proximity to down gradient drinking water, surface water and populated areas; and

Description of response action taken or planned.

D.2.5.3 Variance from Secondary Containment Requirements

No variance from secondary containment requirements is requested.

D.2.6 Controls and Practices to Prevent Spills and Overflows

All of the treatment and processing operations require attendance by plant personnel. A plant operator is in constant attendance to monitor and control all waste transfer operations, to ensure wastes are moved as scheduled, and to detect problems at the first possible moment. Equipment layouts and valve arrangements are selected to minimize errors in transporting wastes from one position to another.

All of the tanks are designed to facilitate visual inspection. Operators physically check for the correct tank, the valve positions, and observe the fluid level prior to transferring wastes. Supervision and coordination of waste movements are provided by the Operations Manager or his designee. Information concerning tank status and fluid content are documented on the tank logs allowing operators to verify the fluid level and status of tank availability. Personal protective equipment, appropriate for the liquid being pumped, is worn by the operations personnel during these procedures. All tanks are closed top and will not be affected by overtopping from precipitation, wind, or wave action.

D.2.7 Requirements for Incompatible Wastes

The facility takes precautions to ensure that incompatible wastes do not react to generate extreme heat or pressure, fire, explosions, or violent reactions. Precautions are also taken to prevent the production of uncontrolled flammable or toxic mists, fumes, dust, or gases in sufficient quantities to pose a risk of fire, explosion, or create reactions that may damage the structural integrity of the tank or facility or through other like means threaten human health or the environment.

All waste codes in the Part A permit, except "P" waste codes and D003, are allowed to be placed in the RCRA regulated tanks. Insignificant amounts of acids, oxidizers and reactives may be present in waste streams such that if pumped into the tanks, would not cause an uncontrolled reaction. However, profiled wastes of acids, oxidizers and reactives are not introduced into the tank system.

All wastes that will be pumped to the tanks have completed the sample verification analysis as described in the Waste Analysis Plan verifying that the wastes match the profile and manifest and have been fully accepted at the facility. These wastes have been described, appropriate physical and chemical characteristics identified, and waste codes established, all of this information is recorded in the facility operating record.

Based on the type of material to be received in the tank, the computer database system selects wastes that meet the selection criteria; examples include BTU range or inorganic metals in water. The Operations Manager or designee will select a tank to receive the waste. A sample of the waste or residue from the selected tank will be mixed with a sample(s) of the incoming waste(s) in the order in which the wastes will be pumped. The compatibility (bucket) test found in Section C, Appendix C-IV will be used to check compatibility prior to mixing the bulk waste streams. The facility carefully selects and tests the wastes to be commingled so that a reaction of incompatibles does not occur. The sample verification analysis and the liquid compatibility testing create a high assurance level that incompatibles will not be mixed. The waste mixture will be evaluated by observing physical and chemical changes that may occur. Parameters observed include temperature changes, as indicated by a thermometer, color changes, formation of precipitates, change in pH, and

the evolution of gas. If any of these parameters change significantly, the wastes will be classified "incompatible" and will not be mixed. Each individual container is tracked into and out of the tank and kept as part of the operating record.

Before the type of waste in a tank is changed, the materials are verified for compatibility. If an incompatibility issue could exist, the tank is emptied of all waste, visually cleaned of residue and all cleaning wastes removed and properly disposed. No waste will be transferred into an unwashed tank that previously contained an incompatible waste.

The facility will have the option to use RCRA tanks for non-RCRA waste. If such an option was to be exercised, the tank would need to go through the closure procedure outlined in Section I prior to being used for non-RCRA waste streams. The facility could elect to return the tank to RCRA service with the introduction of RCRA waste streams. The operating record will identify when RCRA or non-RCRA material is stored in a tank and also document the cleaning of tanks.

If an incompatible reaction occurred, it would be contained within the system. The operator would immediately stop the pumping operation and close the valve to the tank, preventing any additional incompatible material from mixing with the tank volume. The pumping operation would cease, and all valves would be closed to prevent the migration or mixing of any additional incompatible material. Any bleeder valves would be opened to prevent the buildup of pressure in the hoses or pump. The tanks are vented to the emission control system, which would prevent the tanks from overpressuring. Upon discovery of a reaction occurring, the operations manager or his designee would begin investigating what caused the reaction. All pieces of the equipment would be isolated and drained into separate containers to isolate any more incompatible materials and prevent further reactions. Any reactions that were occurring would be allowed to finish before the waste could be prepared for shipment offsite, after a new profile was generated for the mixed waste.

D.2.8 Requirements for Ignitable or Reactive Wastes

Upon arrival at the facility, all bulk shipments are analyzed as required in the waste analysis plan. This analysis will determine storage and handling requirements. All unloading operations take place in designated unloading zones. Safe practices are enforced for all employees in these areas, including observing the "No Smoking or open flames" regulations, using grounding devices on all ignitable material transfers, and wearing proper personal protective equipment. The unloaded material is transferred into an assigned tank based on the profile sheet, sample verification and compatibility testing with the tank contents. Wastes are pumped through the bottom valve of the tank to minimize potential for static creation. Tanks are monitored to ensure sufficient freeboard is maintained to prevent liquids from overtopping the tank. Vapor balancing the tankers with the tanks minimizes the potential amount of emissions emitted from the tanks.

The location of the waste storage tanks are in compliance with the City of Phoenix Uniform Fire Code which adapts the National Fire Protection Associations' "Flammable and Combustible Liquids Code" for protective distances between the tanks and any public streets or adjoining property line.

D.3 NON-RCRA REGULATED SUPPORT UNITS

In addition to regulated storage and treatment operations, the facility will operate a loading dock as a non-RCRA regulated support unit. This unit will support facility operations and is described for information purposes only.

D.3.1 Loading Dock

The loading dock is designed to simultaneously accommodate four vans or flat bed trailers for the loading or unloading of containers. The nominal, 46 ft. by 57 ft. recessed area, which trucks can back into, is constructed of concrete and sloped to contain spills. The area is divided into 2 containment areas separated by a berm to reduce the possibility of spreading or co-mingling incompatible materials. The loading dock is designed to allow forklifts to drive nearly horizontally onto the bed of the trailer. The use of forklifts reduces worker's time spent inside the enclosed vans. The potential for spills is lessened due to the nearly level grades for forklift travel and thus reduced strain on the container during container transfer.

Drums are gathered from the storage areas in the facility in preparation of a known load leaving the facility. The containers are checked for proper closure, leakage, proper DOT labels, and checked against completed manifests.

Incoming wastes are sampled and analyzed according to the Waste Analysis Plan in the receiving area of CSA II or the work stations. This is done to verify the wastes match the waste profile. After wastes have been properly analyzed, drums will be moved to an appropriate storage area. Waste containers will be removed from the loading dock within 24 hours of unloading and be staged on the loading dock less than 24 hours when prior to loading.

Trucks coming into the facility transporting containers or bulk waste may be stored at the facility for up to 10 calendar days while awaiting transfer. This will occur only for material being passed through the facility under the original manifest (40CFR 263.12). The date of receipt for transfer waste manifests is input into the corporate database log for transfer activities. The date the waste is removed from the facility is also recorded in the operating log database to provide an accurate log of the waste on site. Manifests for loads of 10 day transfer material are physically kept in a designated filing slot which is checked regularly as a visual reminder that the 10 day period has not been exceeded. Exclusive of vehicles transporting wastes for which the facility is acting solely as a transfer facility, the appropriate shipping documentation verifying transfer facility activity shall be maintained.

All 10 day transfer material is placed into designated rows. The material is stored compatibly within permitted storage. While onsite the containers are managed in accordance with the identical permitted conditions as inbound waste.

Section D Revision No. 13 Date: 02/09/2010

TABLE D-1 TANK INVENTORY LIST

TABLE D-1 TANK INVENTORY LIST

Tank		•		Emissions	
No.	Description of Contents	Number	(gal)	Control	Dimensions

Tanks subject to RCRA regulation

101	RCRA Flammable & Non-flammable Liquid	104-T	2570	Yes	6'd x 12'-2"
102	RCRA Flammable & Non-flammable Liquid	102-T	2570	Yes	6'd x 12'-2"
103	RCRA Flammable & Non-flammable Liquid	103-T	2570	Yes	6'd x 12'-2"
104	RCRA Flammable & Non-flammable Liquid	105-T	4530	Yes	6'6"d x 18'3"
301	RCRA Flammable Liquid	114-T	10250	Yes	10'1"d x 17'2"
303	RCRA Flammable & Non-flammable Liquid	109-T	10150	Yes	10'1"d x 17'
	Total RCRA Tank Capacity		32640		

Specfication Sheets for tanks had different numbering system than current numbering. ×

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Tanks not subject to RCRA Regulation

201	Used Oil and Water	7540	No	7'11"d x 20'6"
401	Used Oil and Water	7540	No	7'11"d x 20'6"
601	Used Oil and Water	4530	No	6'6"d x 20'
602	Used Oil and Water	10150	No	10'1"d x 17'
701	Non-RCRA Water	10150	No	10'1"d x 17'
702	Non-RCRA Water	10150	No	10'1"d x 17'
	Total non-RCRA Tank Canacity	50060		

Total non-KUKA Tank Capacity

20000

Section D Revision No. 9 Date: 01/11/2008

EXHIBIT D-1

CHEMICAL RESISTANT SEALER



H. C. NUTTING COMPANY

GEOTECHNICAL, ENVIRONMENTAL AND TESTING ENGINEERS SINCE 1921

W.O.#15744002

CORPORATE CENTERE 611 LUNKEN PARK DRIVE CINCINNATI, OHIO 45226 (513) 321-5816 FAX (513) 321-0294

CHEMICAL RESISTANCE STUDY CHEM TEC ONE CHEM TEC INT'L, INC.

Concrete Treated with Chem Tec One			Non-Treated Concrete			
	Chemical Reaction	Absorption		Chemical Reaction	Absorption	
Hydrochloric Acid 28%	0	0	Hydrochloric Acld 28%	3	3	
Acetone	0	0	Acetone	3	3	
Pain Thinner	0	0	Paint Thinner	3	3	
Triochioroethylene	1	0	Triochioroethylene	3	3	
Potassium hydroxide	0	0	Potassium hydroxide	0.	3	
Sulfuric Acid 50%*	0	1	Sulfuric Acid 50%*	3	3	
Citric Acid	0	0	Citric Acid	3	1	
Nitric Acid 70%	0	0	Nitric Acid 70%	2	2	
Benzene	0	0	Benzene	0	3	
Xylene	1	0	Xylene	3	3	
Phenol	0	0	Phenol	3	3	
Antl-Freeze	0	0	Anti-Freeze	3	1	
Kerosene	0	0	Kerosene	0	3	

0 = No reaction, to slight

1 = Mild Reaction

2 = Mild to Severe Reaction

3 = Severe Reaction

* Discolored surface-turned white

Duration of test = 1 minute + / - 10 seconds for all chemicals applied

Concrete manufactured per ASTM C 672

* CINCINNATI, * CHARLESTON W.V. * LAWRENBURG, IN * COLUMBUS OH *

WE CARE SAFETY- KLEEN CORP. MEMORANDUM

To:	Robert Chopp
From:	Todd Borowski
Date:	April 16, 1999
Subject:	A Test of the CHEMTEC ONB Concrete Sealer
	Ref: 1243/3.10

Objective: To make sure the acid test given by CHEMTEC can accurately show that the Desired saturation lovel has been reached and if surface impurities interfere with this Test. Also, to test if the concrete sealer is impervious to short-term exposure of certain Solvents.

Materials/Methods: See Attached

Discussion: The acid test provided by the CHEMTEC company seems to be an acceptable Indicator of the desired scalant application. All three treated samples of concrete Exhibited no reaction when a drop of HCL was placed on the treated surface, while the Untreated sample of concrete exhibited a bubbling reaction (see attached Table 1). When The treated samples were placed in 24 hour contact with select solvents (PERC. THF and NMP), there was no noticeable reaction (see attached Table 2). These results suggest that the scalant provides at least, 24 hour protection for the concrete. After Placing the samples conside, allowing two weeks of exposure to the elements (i.e. rain, dirt, ect.) the acid test was run on each concrete sample and the same tesults were experienced as before the exposure (see attached table 3).

Conclusion: The CHEMTEC ONE acid test seems to work as a good indicator of proper application of concrete scaler. Surface impurities do not appear to interfere with his test. Also, the scalant is resistant to several strong types of solvents for at least a 24 hour period.

Materials: Three samples of concrete with one surface coated with CHEMTEC ONE, one untreated sample of concrete. PERC (Mallinckrode - lot#1933 KEJT), THF (Fisher- lot#921882-12), NMP (Aldrich - lot# 03623LZ), 28% HCL, three holding trays (glass and metal).

Methods: 1. Place one drop of 28% HCL on the treated surface of a concrete sample and record an observation of the reaction then wipe up the drop. (CHEMTEC's acid test, see allached)

- 2. Repeat step 1 on the other untreated samples and the untreated one.
- Fill each holding tray with solvent (PERC< THF< and NMP respectively) to a depth of about 1 cm and place in tray a suspension device.

Note: A glass holding tray and suspension device was used for PERC & THF and a metal tray and device was used with the NMP.

- 4. Place one treated sample of concrete in each holding tray so that the scaled surface is submerged in the solvent but not touching the bottom of the tray.
- Seal tray with parafilm and allow to sit for 24 hours. (3/30/99 8:45am -3/31/99 8:45 am.
- After he 24 hours; remove each sample of concrete and allow to dry (approx. 3 hours)
- 7. Repeat the acid test on each sample of concrete, noticing if the reaction has changed for the prior results.
- 8. Place all samples outside where they can be exposed to the elements for a period of two weeks. (Placed outside on 3/31/99 at 1:20)
- 9. After two weeks have expired (4/14/99), bring samples back inside.
- 10. Perform the acid test on each sample again, record results.

Acid Test Results Before Solvent Exposure (Table 1)

	Observations
Sample 1 (Treated)	No Reaction
Sample 2 (Treated)	No Reaction
Sample 3 (Treated)	No Reaction
Sample 4 (Untreated)	Bubbling and yellow color
	4

Acid Test Results After Solvent Exposure (Table 2)

	Observations
Sample 1 (PERC)	No Reaction
Sample 2 (THF)	No Reaction
Sample 3 (NMP)	No Reaction
Sample 4 (Untreated)	None (Did not expose to solvent)

Acid Test Results After Exposure To Elements (Table 3)

·····	Observations
Sample i (PERC)	No Reaction
Sample 2 (THF)	No Reaction
Sample 3 (NMP)	No Reaction
Sample 4 (Untreated)	Bubbling and yellow color



NONE: CHEMTEC ONE comes pre-mixed and ready to use.

http://www.concretesealer.net/works.htm

Concrete Sealer Concrete Floor Sealer Densitier Protection Concrete

COLOR / CLEAN UP METHOD:

Clear / Clean up with soap and water immediately after use. CAUTION: Leaving residue in spraying equipment may damage equipment.

DRYING TIME:

ors. Surface may be used as soon as it is completely dry. Do not get surface wet for 12 hours. If used as a curing medium observe normal loads for new concrete.

CURING TIME:

CHEMTEC ONE starts curing immediately and reaches it full cure in about 75 days. Surface can be used as soon as it is completely dry.

APPLICATION METHOD:

Apply by spraying on the surface, saturating the surface. Keep material from puddling, if necessary by spreading it around bristle brooms. Areas that puddle should be brushed over to dryer areas, areas that dry prematurely should have more material pushed to it or be re-sprayed. After the material has been on the steel troweled floor for 35 to 45 minutes then squeegee off the surface. On brushed finished surfaces, just let it dry(see installation instructions for details). CAUTIONI DO NOT ALLOW AREAS TO PUDDLE AND DRY, AS THEY WILL LEAVE A HARD WHITE CRYSTAL ON THE SURFACE WHEN DRY ON STEEL TROWELED SURFACES.

TOOLS NEEDED:

Low pressure sprayers, bristle brooms, squeegees, safety equipment and so on.

STORAGE LIFE:

Up to 24 months. Do not allow product to freeze or be stored in temperatures above 120 ° F or below 38° F. Agitate barrel if stored for periods over 3 months

CAUTION: DO NOT store in aluminum containers or use spraying equipment with aluminum fittings. Product may react with the aluminum to create flammable hydrogen gas. See MSDS sheet. DO NOT spray or splash on glass, painted surfaces or decorative fronts as product may stain these surfaces. If you do splash the product on these surfaces wipe off with fresh water immediately. Makes use you have adequate ventilation. Dispose of waste property per federal, state or local environmental regulations if required.

TECHNICAL DATA:

For complete information please see the Material Data Safety Sheet "MSDS" and the CHEMTEC ONE installation procedure.

TED WARRANTY:

CHEMTEC INT'L will warrant our products to be of good quality and that a properly prepared and structurally sound concrete surface treated with CHEMTEC DNE formulation in accordance with the manufactures directions by an approved applicator will remain dust proof, hardened and protected for a minimum period of five to twenty years (depending on structure type & use). If ofter the specific treating period the surface does not remain dust proof, hardened and protected form penetration by liquids. CHEMTEC DNE to twenty years (depending on structure type & use). If ofter the specific treating period the surface does not remain dust proof, hardened and protected from penetration by liquids. CHEMTEC INT'L will supply at the own expense sufficient CHEMTEC ONE to retreat the defective surface. This warranty does not apply if the CHEMTEC ONE is improperly applied or if structural faults occur due to poor workmanship, improper design, failure of other materials used in the project. The CHEMTEC ONE formula must be used before the end of the 24 month shell life expires. Satisfactory results depend not only upon quality products but also upon many factors beyond our control. Therefore except for such replacement CHEMTEC INT'L MAKES NO WARRANTY OR GUARANTEE EXPRESED OR IMPLEO, INCLUDING WARRANTIES OF FITNESS FOR A PARTICULAR PURPOSE ON RENATIBILITY, RESPECTING ITS PRODUCTS, and CHEMTEC INT'L shall have no other liabilities with respect thereto. Any claim regarding product defect must be received in withing within 90 days of the date of defect during the warranty period. User shall determine the suitability of the products for the intended use and assume all risks and liability in connection therewith. All sales are final.

SYNOPSIS OF LAB TEST:

ASTM C-672 / 666 NO SCALING/ see airport report Cycles 100 with calcium chloride solution Absorption Less than 1% after 48 hours / Less than 2% after 50 days, ASHTO T 259 Modified Crack sealing capability Per-ODOT Spec. 841 Passed, Chloride Absorption Specimen#1= 0.081% Specimen #2=0.056% Dry Time To Touch 4 hrs Dry Hard 12 hrs

Color Clear Specific Gravity (H20 = 1) 1.04 VOC, grams / liter 0 pounds / gallon 0

Abrasion Resistance Treated vs Non-Treated Specimen ASTM C-779 Continuous rotating grinding disk under pressure for 60 minuets. Abrasion Resistance Increase @ 30 minutes 45% wear in. 0.044 vs 0.080 Also see Airport and Safety-Kleen private test reports



CHEMTEC ONE Manufactured by CHEMTEC INT'L Cincinati Dhio (Member CSI) "THE ULTIMATE CONCRETE PROTECTION" Iud32/03

	Cor-Cot	Cor-Cote VEN FF Cor-Cote VEN GF		VEN GF	Cor-Cote HCR FF		
		Secondary		Secondary		Secondary	
Chemical Environment and Concentration (%)	Immersion	Containment	Immersion	Containment	Immersion	Containment	
Acetaldehyde 20%	80	R	80	R	NR	R	
Acetaldehyde 100%	NR	R	NR	R	NR	NR	
Acetic Acid 2%; Formic Acid 2%	150	R	150	R	NR	R	
Acetic Acid 10%	150	R	150	R -	-NR	R	
Acetic Acid 15%	150	R	150	R	NR	R	
Acetic Acid 25%	150	R	150	R	NR	R	
Acetic Acid 40%	150	R	150	R	NR	NR	
Acetic Acid 50%	150	R	150	R	NR	NR	
Acetic Acid 75%	150	R	150	Ŕ	NR	NR	
Acetic Acid 100% Glacial Acetic	100	R	80	R	NR	NR	
Acetic Acid Vapors 1%	100	R	80	R	NR	NR	
Acetic Anhydride	80	R	80	R	NR	NR	
Acetone 10%	150	R	150	R	NR	R	
Acetone 100%	NR	R	NR	R	NR	R	
Acetophenone	NR	NR	NR	NR	NR	NR	
Acetyl Chloride	NR	NR	NR	NR	NR	R	
Acid Sulfite pH 1-2	150	R	150	R	ŃT	NT	
Acrolein (Acrylaldehyde) 20%	80	R	80	R	NT	NT	
Acrolein (Acrylaldehyde) 100%	NR	R	NR	R	NT	NT	
Acrylamide 50%	100	R	100	R	NT	NT	
Acrylic Acid 20%	NR	NR	100	NR	NR	R	
Acrylic Acid 25%	NR	NR	100	NR	NR	R	
Acrylic Acid 100%	NR	NR	100	NR	NR	R	
Acrylic Acid (Esterified)	NR	NR	NR	NR	NT	NT	
Acrylic Copolymer PPG-03611	150	R	150	R	NT	NT	
Acrylic Ester Copolymer	150	R	150	R	NT	NT	
Acrylic Latex	150	R	150	R	NT	NT	
Acrylonitrile 100%	NR	R	NR	R	NR	NR	
Activated Carbon Beds	150	R	150	R	NT	NT	
Adipic Acid, Dry	NT	NT	NT	NT	NT	NT	
Adipic Acid 25%	150	R	120	R	80	R	
Adipic Acid 23%	150	R	120	R	80	R	
Adipic Acid 60% in Ethyl Alcohol	100	R	100	R	NT	NT	
Adipic Acid, Saturated	80	R	80	R	NT	NT	
Advastab	NT	NT	NT	NT	NT	NT	
Alkyd Benzene, Linear	120	R	120	R	NT	NT	
Alkyd Glycidal Ether	150	R	150	R	NT	NT	
Alkyd Glycidyl Ether Sulfonate 58%; Sodium Chloride 2%	NR	R	NR	R	NT	NT	
Alkyl Benzene Sulfate Acid 92%	150	R	150	R	NT	NT	
Allyl Alcohol 100%	80	R	80	R	NR	R	
Allyl Chloride, All	80	R	80	R	NR	R	
Allyl Glycidyl Ether	NT	NT	NT	NT	NT	NT	
Almond Oil	NT	NT	NT	NT	NT	NT	
Alpha Methylstyrene	120	R	120	R	NT	NT	
Alpha Oleum Sulfates	120	R	120	R	NT	NT	
Alum, (Aluminum Pottassium Sulfate,dodecahydrate)	150	R	150	R	120	R	
Aluminum Acetate 25%	NT	NT	ŇT	NT	NT	NT	
Aluminum Ammonium Sulfate 50%	NT	NT	NT	NT	NT	NT	
Aluminum Bromide	150	R	150	R	120	R	
Aluminum Chloride, All	150	R	150	R	120	R	
Aluminum Chloride 13%; Benzol 2%	NT	NT	NT	NT	NT	NT	
Aluminum Chloride 30%	150	R	150	R	120	R	
Aluminum Chlorohydrate, All	150	R	150	R	NT	NT	

ARIZONA DEPARTMENT OF ENVIRONMENTAL QUALITY

JAN 15 2008

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	Cor-C	ote HP	Cor-Co	te HP FF	Cor	-Cote SC
		Secondary		Secondary		Secondary
Chemical Environment and Concentration (%)	Immersion	Containment	Immersion	Containment	Immersion	Containment
Acetaldehyde 20%	NR	NR	NR	NR	NR	NR
Acetaldehyde 100%	NR	NR	NR	NR	NR	NR
Acetic Acid 2%; Formic Acid 2%	NR	R	NR	R	NR	R
Acetic Acid 10%	NR	R	NR	R	.NR	R
Acetic Acid 15%	NR	NR	NR	NR	NR	NR
Acetic Acid 25%	NR	NR	NR	NR	NR	INR
Acetic Acid 40%	NR	NR	NR	NR	NR	NR
Acetic Acid 50%	NR	NR	NR	NR	NR	NR
Acetic Acid 75%	NR	NR	NR	NR	NR	NR
Acetic Acid 100% Glacial Acetic	NR	NR	NR	NR	NR	NR
Acetic Acid Vapors 1%	NR	NR	NR	NR	NR	NR
Acetic Anhydride	NR	NR	NR		NR	NR
Acetone 10%	NR	NR .	NR	NR	NR	NR
			NR			R
Acetone 100%	NR	R	NR	R NR	NR NR	NR NR
Acetophenone	NR		100			
Acetyl Chloride	NR	NR	NR NT	NR	NR	NR
Acid Sulfite pH 1-2	NT	NT		NT	NT	NT
Acrolein (Acrylaldehyde) 20%	NT	NT	NT	NT	NT	NT
Acrolein (Acrylaldehyde) 100%	NT	NT	NT	NT	NT	NT
Acrylamide 50%	NT	NT	NT	NT	NT	NT
Acrylic Acid 20%	NT	NT	NT	NT	NT	NT
Acrylic Acid 25%	NT	NT	NT	NT	NT	NT
Acrylic Acid 100%	NT	NT	NT	NT	NT	NT
Acrylic Acid (Esterified)	NT	NT	NT	NT	NT	NT
Acrylic Copolymer PPG-03611	NT	NT	NT	NT	NT	NT
Acrylic Ester Copolymer	NT	NT	NT	NT	NT	NT
Acrylic Latex	NT	NT	NT	NT	NT	NT
Acrylonitrile 100%	NR	NR	NR	NR	NR	NR
Activated Carbon Beds	NR	R	120	R	100	R
Adipic Acid, Dry	NŤ	NT	NT	NT	NT	NT
Adipic Acid 25%	NR	R	120	R	80	R
Adipic Acid 23%	NT	NT	NT	NT	NT	NT
Adipic Acid 60% in Ethyl Alcohol	INT	NT	NT	NT	NT	NT
Adipic Acid, Saturated	NT	NT	NT	NT	NT	NT
Advastab	NT	NT	NT	NT	NT	NT
Alkyd Benzene, Linear	NR	R	120	R	100	R
Alkyd Glycidal Ether	NR	R	120	R	120	R
Alkyd Glycidyl Ether Sulfonate 58%; Sodium Chloride 2%	NT	NT	NT	NT	NT	NT
Alkyl Benzene Sulfate Acid 92%	NT	NT	NT	NT	NT	NT
Allyl Alcohol 100%	NR	R	NR	R	NR	R
Allyl Chloride, All	NR	R	NR	R	NR	R
Allyl Glycidyl Ether	NT	NT	NT	NT	NT	NT
Almond Oil	NT	NT	NT	NT	NT	NT
Alpha Methylstyrene	NT	NT	NT	NT	NT	NT
Alpha Oleum Sulfates	NT	NT	NT	NT	NT	NT
Alum, (Aluminum Pottassium Sulfate,dodecahydrate)	NR	R	120	R	120	R
Aluminum Acetate 25%	NT	NT	NT	NT	NT	NT
Aluminum Ammonium Sulfate 50%	NT	NT	NT	NT	NT	NT
Aluminum Bromide	NR	R	120	R	120	R
Aluminum Chloride, All	NR	R	120	R	120	R
Aluminum Chloride 13%; Benzol 2%	NT	NT	NT	NT	NT	NT
Aluminum Chloride 30%	NR	R	120	R	120	R
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ARIZONA DEPARTMENT OF ENVIRONMENTAL QUALITY

JAN 15 2008

Waste Programs Div. Permits Section

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	EnviroLas	stic AR425 and AR200 HD	Fast-Clad ER		
—				Secondary	
Chemical Environment and Concentration (%)	Immersion	Secondary Containment	Immersion	Containment	
Acetaldehyde 20%	NR	NR	NT	NT	
Acetaldehyde 100%	NR	NR	NT	NT	
Acetic Acid 2%; Formic Acid 2%	NT	NT	NR	R	
Acetic Acid 10%	NR	R	NR	NR	
Acetic Acid 15%	NR	NR	NR	NR	
Acetic Acid 25%	NR	NR	NR	NR	
Acetic Acid 40%	NR	NR	NR	NR	
Acetic Acid 50%	NR	NR	NR	NR	
Acetic Acid 75%	NR	NR	NR	NR	
Acetic Acid 100% Glacial Acetic	NR	NR	NR	NR	
Acetic Acid Vapors 1%	NT	NT	NT	NT	
Acetic Anhydride	INT	NT	NR	NR	
Acetone 10%	NR	NR	NT	NT	
Acetone 10%	NR	NR	NR	NR NR	
	NR		NT		
Acetophenone	NR	NR	NT		
Acetyl Chloride	NR	NR INT	NT	NT	
Acid Sulfite pH 1-2	NT	NT	NT	NT	
Acrolein (Acrylaldehyde) 20%		NT	NT	NT	
Acrolein (Acrylaldehyde) 100%	NT	NT	NT		
Acrylamide 50%	NT		NT	NT	
Acrylic Acid 20%	NT		ŇT	NT	
Acrylic Acid 25%	NT	NT			
Acrylic Acid 100%	NT	NT	NT	NT	
Acrylic Acid (Esterified)	NT	NT	NT	NT	
Acrylic Copolymer PPG-03611	NT		NR	R	
Acrylic Ester Copolymer	NT		NT		
Acrylic Latex	NT	NT	NT	NT	
Acrylonitrile 100%	NT	NT	NT		
Activated Carbon Beds	NT	NT	100	R	
Adipic Acid, Dry	80	R	NT	NT	
Adipic Acid 25%	NR	NR	NT	NT	
Adipic Acid 23%	NR	NR	NT	NT	
Adipic Acid 60% in Ethyl Alcohol	NR	NR	NT	NT	
Adipic Acid, Saturated	NR	NR	NT	NT	
Advastab	NT	NT	NT	NT	
Alkyd Benzene, Linear	NT	NT	100	R	
Alkyd Glycidal Ether	NT	NT	140	R	
Alkyd Glycidyl Ether Sulfonate 58%; Sodium Chloride 29		NT	NT	R	
Alkyl Benzene Sulfate Acid 92%	NT	NT	NT	NT	
Aliyi Alcohoi 100%	NT	NT	NT	NT	
Allyl Chloride, All	NT	NT	NR	NR	
Allyl Glycidyl Ether	NT	NT	NT	NT	
Almond Oil	NT	NT	NT	NT	
Alpha Methylstyrene	NT	NT	NT	NT	
Alpha Oleum Sulfates	NT	NT	NT	NT	
Alum, (Aluminum Pottassium Sulfate,dodecahydrate)	NT	NT	NT	R	
Aluminum Acetate 25%	NT	NT	NT	NT	
Aluminum Ammonium Sulfate 50%	NT	NT	NT	NT	
Aluminum Bromide	NT	NT	NT	NT	
Aluminum Chloride, All	NT	NT	NT	NT	
Aluminum Chloride 13%; Benzol 2%	NT	NT	NT	NT	
Aluminum Chloride 30%	NT	NT	100	R	

ARIZONA DEPARTMENT OF ENVIRONMENTAL QUALITY

JAN 15 2008

Waste Programs Div. Permits Section

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	Magnal	ux 304 Vinyl Ester	Sher	Sher-Glass FF		
Chemical Environment and Concentration (%)	Immersion	Secondary Containment	Immersion	Secondary Containment		
			_			
Acetaldehyde 20%	80	R	NT	NT		
Acetaldehyde 100%	NR	NR	NT	NT		
Acetic Acid 2%; Formic Acid 2%	140	R	NT	NT		
Acetic Acid 10%	120	R	NT	NT		
Acetic Acid 15%	120	R	NT	NT		
Acetic Acid 25%	120	R	NT	NT		
Acetic Acid 40%	120	R	NT	NT		
Acetic Acid 50%	120	R	NT	NT		
Acetic Acid 75%	NR	R	NT	ŇŤ		
Acetic Acid 100% Glacial Acetic	NR	NR	NT	NT		
Acetic Acid Vapors 1%	NR	NR	NT	NT		
Acetic Anhydride	NR	R	NT	NT		
Acetone 10%	100	R	NT	NT		
Acetone 100%	NR	NR	NT	NT		
Acetophenone	NR	NR	NT	NT		
Acetyl Chloride	NR	NR	NT	NT		
Acid Sulfite pH 1-2	140	R	NT	NT		
Acrolein (Acrylaldenyde) 20%	80	R	INT	NT		
Acrolein (Acrylaldehyde) 100%	NR	NR	INT	NT		
Acrylamide 50%	100	R	NT	NT		
Acrylic Acid 20%	100	R	NT	NT		
Acrylic Acid 25%	100	R	NT	NT		
Acrylic Acid 100%	NR	NR	NT	NT		
Acrylic Acid (Esterified)	NR	NR	NT	NT		
Acrylic Copolymer PPG-03611	140	R	NT	NT		
Acrylic Ester Copolymer	140	R	NT	NT		
Acrylic Latex	140	R	NT	NT		
Acrylonitrile 100%	NR	NR	NT	NT		
Activated Carbon Beds	140	R	NT	NT		
Adipic Acid, Dry	NT	NT	NT	NT		
Adipic Acid 25%	120		NT	NT		
Adipic Acid 23%	120	- <u>R</u>	NT	NT		
Adipic Acid 60% in Ethyl Alcohol	100	R		NT		
	80	R	NT	NT		
Adipic Acid, Saturated	NT		NT NT	INT		
Advastab	NR	R	NT	NT		
Alkyd Benzene, Linear				- NT		
Alkyd Glycidal Ether	140	R				
Alkyd Glycidyl Ether Sulfonate 58%; Sodium Chloride		R				
Alkyl Benzene Sulfate Acid 92%	140	R				
Allyl Alcohol 100%	NR	R	NT			
Allyl Chloride, All	80	R	NT			
Allyl Glycidyl Ether	NT	NT	NT	NT		
Almond Oil	NT	NT	NT	NT		
Alpha Methylstyrene	80	R	NT	NT		
Alpha Oleum Sulfates	140	R	NT	NT		
Alum, (Aluminum Pottassium Sulfate,dodecahydrate)	140	R	NT	NT		
Aluminum Acetate 25%	NT	NT	NT	NT		
Aluminum Ammonium Sulfate 50%	NT	NT	NT	NT		
Aluminum Bromide	140	R	NT	NT		
Aluminum Chloride, All	140	R	NT	NT		
Aluminum Chloride 13%; Benzol 2%	NT	NT	NT	NT		
Aluminum Chloride 30%	во	R	NT	NT		
Aluminum Chlorohydrate, All	140	R	NT	NT		

ARIZONA DEPARTMENT OF ENVIRONMENTAL QUALITY

JAN 15 2008

	Cor-UX	DIO VEN FF	Cor-Co	to VEN GF	Cor-Cate HCR FF	
Chemical Environment and Concentration (%)	Immersion	Secondary Containment	Immersion	Secondary Containment	Immersion	Secondary Containment
Aluminum Chlorohydraxido 50%	150	R	150	R	ТΝ	NT
Aluminum Citrato, Ali	150	R	150	R	NT	NT
Aluminum Fluoride, All	80	R	00	8	דא	זא
Aluminum Fluoride 1%	80	R	80	R	NT	NT
Aluminum Fluoride 5%	80	R	80	R ·	-N1	NT
Aluminum Fluorido 10%	80	8	80	R	NT	NT
Atuminum Fluoride 20%	80	R	80	R	NT	NT
Aluminum Hydroxide, Dry	150	R	150	8	זא	NT
Auminum Nilrate 10%	150	R	150	R	120	R
Aluminum Nitrate 50%	150	R	150	R	120	R
Aluminum Nitrate	150	R	150	R	120	8
Atuminum Nitrate, Saturated	150	8	150	R	120	R
Aluminum Sulfato, All	150	R	150	R	120	R
Aluminum Sulfate 10%	150	R	150	R	120	R
Aluminum Sulfate 50%	150	R	150	R	120	8
Ambitrol Ethylena Giycol	150	R	150	R	NT	NT
Ambush Insecticide	NT	NT	NĨ	NT	אז	NT .
Amine Salts	120	R	120	R	NT	TN
Antino Acids	100	R	100	R	NT	NT
Ammonium Phosphate, All	150	R	150	R	NT	NT
Ammonia Gas	100	R	100 -	R	120	R
Ammonia Vapors, Wat Gas	150	R	150	8	120	R
Ammonia Liquified Gas	NR	NR	NR	NR	120	R
Ammonia 10%	120	R	120	R	120	R
Ammonia Silicofluorido	NT	NT	NT	NT	NT	NT
Ammonia Aqueous (see Ammonium Hydroxida)	NT	NT	NT	NT	NT	NT
Ammonium Acetate 85%	100	R	100	R	NT	
Ammonium Bicarbonato 10%	150	R	150	8	NT NT	TK NT
Ammonium Bicarbonote 50%	150	R	150	R	NT	<u>דא</u>
Ammonium Bifluoride 10% (4)	150	R	150	R	NT	NT NT
Ammonium Bilfuoride (4)	150	R	150	R	NT 100	R
Ammonium Bisulfite (Black Liquor)	150	R	150	R		NT
Ammonium Bromate 43%	150	R	150	R	דא	NT
Ammonium Bromide 43%	150	R	150	3	NT T	NT
Ammonium Carbonate, All	150	R	150	R		NT
Ammonium Carbonate 25%	150	8	150	R	80	R
Ammonium Chloride, All Ammonium Chloride 30%	150	R	150	8	BO	R
Ammonium Chioride 50%	150	R	150	R	80	R
Ammonium Chlorida, Saturated	150	R	150	R	80	R
Ammonium Cilirate, All	150	R	150	R	NT	NT
Anmonium Cocoampholyte 30%	150	R	150	R	120	- R
Ammonium Dichromate 50%	NT		NT	NT	NT	NT
Ammonium Fluoride, All (1, 2, 4, 7)	150	R	150	R	120	R
Ammonium Hexaflorosilicate	NT NT		NT	NT	NT	אד
Ammonium Hydroxide 5% (4)	120	R	120	R	100	R
Ammonium Hydroxide 10% (4)	80	R	80	R	100	8
Ammonium Hydroxide 20% (4)	60	R	80	R	100	R
Ammonium Hydroxido 30% (4)	80	R	80	8	80	8
Ammonium Hydroxide 40% (4)	NR	NR	NR	NR	NR	NR
Ammonium Laury! Sulfate 30%	150	R	150	R	120	R
Ammonium Ligno Sulfonate 50%	150	R	150	R	NT	NT
Ammonium Nitrate	150	R	150	R	120	R
Ammonium Nitrate, Saturated	150	R	150	R	120	R
Ammonium Nitrate 5%	150	R	150	R	120	R
Ammonium Nitrata 50%	150	R	150	R	120	R
Ammonium Nitrate 65%	150	R	150	R	120	R
Ammonium Nitrata 83%	150	R	150	R	120	R
Ammonium Perchlorate 10%	NT	NT	דא	זא	120	R
Ammonium Persulfate 10%	160	8	150	R	120	R
Ammonium Porsulfato 50%	150	R	150	R	120	R
Ammonium Persuitote, All	150	R	150	R	120	R
Ammonium Phosphote	150	R	150	R	120	R
Ammonium Phosobate 40%	150	R	150	R	120	R
Ammonium Phosphate 50%	150	8	150	R	120	R

ARIZONA DEPARTMENT OF ENVIRONMENTAL QUALITY

JAN 15 2008

Waste Programs Div. Permits Section

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	Cor-	Cote HP	Cor-Co	ote HP FF	Cor	r-Cote SC
		Secondary		Secondary		Secondary
Chemical Environment and Concentration (%)	Immersion	Containment	Immersion	Containment	Immersion	Containment
Aluminum Chlorohydroxide 50%	NT	NT	NT	NT	NT	NT
Aluminum Citrate, All	NT	NT	NT	NT	NT	NT
Aluminum Fluoride, All	NT	NT	NT	NT	NT	NT NT
Aluminum Fluoride 1%	NT	NT	NT	NT	NT -NT	
Aluminum Fluoride 5%	NT	NT NT	NT NT	NT	NT	NT
Aluminum Fluoride 10%	NT	NT NT	NT	NT	NT	NT
Aluminum Fluoride 20%	NT	NT	INT	NT NT	NT	NT
Aluminum Hydroxide, Dry	NT				120	R
Aluminum Nitrate 10%	NR	R	120	R	120	R
Aluminum Nitrate 50%	NR	R	120	R	120	R
Aluminum Nitrate	NR NR	R	120	R	120	R
Aluminum Nitrate, Saturated	NR	R	120	R	120	R
Aluminum Sulfate, All Aluminum Sulfate 10%	INR	R	120	R	120	R
Aluminum Sulfate 50%	NR	R	120	R	120	R
Ambitrol Ethylene Glycol			NT	NT NT	NT	NT
Ambush Insecticide	NR	R	120	R	100	R
Amine Salts	NT		NT	NT NT	ŇT	NT
Amino Acids	NT		NT	NT	NT	NT
Ammonium Phosphate, All	NT	NT	NT	NT	NT	NT
Ammonia Gas	NT	NT	NT	NT	NT	NT
Ammonia Vapors, Wet Gas	NR	R	120	R	120	R
Ammonia Liquified Gas	NR	R	120	R	120	R
Ammonia 10%	NR	NR	NR	NR	NR	NR
Ammonia Silicofluoride	NT	NT	NT	NT	NT	NT
Ammonia Aqueous (see Ammonium Hydroxide)	NT	NT	NT	NT	NT	NT
Ammonium Acetate 65%	NT	NT	NT	NT	NT	NT
Ammonium Bicarbonate 10%	NT	NT	NT	NT	NT	NT
Ammonium Bicarbonate 50%	NT	NT	NT	NT	NT	NT
Ammonium Bifluoride 10% (4)	NT	NT	NT	NT	NT	NT
Ammonium Bifluoride (4)	NT	NT	NT	NT	NT	NT
Ammonium Bisulfite (Black Liquor)	NR	NR	NR	NR	NR	R
Ammonium Bromate 43%	NT	NT	NT	NT	NT	NT
Ammonium Bromide 43%	NT	NT	NT	NT	NT	NT
Ammonium Carbonate, All	NT	NT	NT	NT	NT	NT NT
Ammonium Carbonate 25%	NT	NT	NT	NT	NT	R
Ammonium Chloride, All	NR	R	80	R	80	R
Ammonium Chioride 30%	NR	R	80	R	80	R
Ammonium Chloride 50%	NR	R	80	R	80	R
Ammonium Chloride, Saturated	NT NT		NT		NT	
Ammonium Citrate, All	NR	R	120	R	120	R
Ammonium Cocoampholyte 30% Ammonium Dichromate 50%	NT	NT	NT	- NT	NT	NT
Ammonium Fluoride, All (1, 2, 4, 7)	NR	R	120	R	120	R
Ammonium Hexaflorosilicate	NT		NT	NT	NT	NT
Ammonium Hydroxide 5% (4)	NR	R	100	R	120	R
Ammonium Hydroxide 10% (4)	NR	R	100	R	120	R
Ammonium Hydroxide 20% (4)	NR	R	100	R	120	R
Ammonium Hydroxide 30% (4)	INR	R	NR	R	NR	R
Ammonium Hydroxide 40% (4)	NR	NR	NR	NR	NR	NR
Ammonium Lauryl Sulfate 30%	NR	R	80	R	100	R
Ammonium Ligno Sulfonate 50%	NT	NT	NT	NT	NT	NT
Ammonium Nitrate	NR	R	120	R	120	R
Ammonium Nitrate, Saturated	NR	R	120	R	120	R
Ammonium Nitrate 5%	NR	R	120	R	120	R
Ammonium Nitrate 50%	NR	R	120	R	120	R
Ammonium Nitrate 65%	NR	R	120	R	120	R
Ammonium Nitrate 83%	NR	R	120	R	120	R
Ammonium Perchlorate 10%	NR	R	100	R	100	R
	NR	R	100	R	100	R
Ammonium Persulfate 10%		R	NR	R	100	R
Ammonium Persulfate 50%	NR		_			
Ammonium Persulfate 50% Ammonium Persulfate, All	NR	R	NR	R	100	R
Ammonium Persulfate 50%			_	R R R	100 120 120	R R R

ARIZONA DEPARTMENT OF ENVIRONMENTAL QUALITY

JAN 15 2008

	EnviroLa	stic AR425 and AR200 HD	Fast-Clad ER		
Chemical Environment and Concentration (%)	Immersion	Secondary Containment	Immersion	Secondary Containmen	
Aluminum Chlorohydroxide 50%	NT	NT	NT	NT	
Aluminum Citrate, All	NT	NT	NT	NT	
Aluminum Fluoride, Ali	NT	NT	NT	NT	
Aluminum Fluoride 1%	NT	NT	NT	NT	
Aluminum Fluoride 5%	NT	NT	NT -	NT	
Aluminum Fluoride 10%	NT	NT	NT	NT	
Aluminum Fluoride 20%	NT	NT	NT	NT	
Aluminum Hydroxide, Dry	NT	NT	NT	NT	
Aluminum Nitrate 10%	NT	NT	100	R	
Aluminum Nitrate 50%	NT	NT	100	R	
Aluminum Nitrate	NT	NT	NT	NT	
Aluminum Nitrate, Saturated	NT	NT	NŤ	NT	
Aluminum Sulfate, All	80	R	140	R	
Aluminum Sulfate 10%	80	R	140	R	
Aluminum Sulfate 50%	80	R	140	R	
Ambitrol Ethylene Glycol	NT	NT	NT	NT	
Ambush Insecticide	NT	NT	100	R	
Amine Salts	NT	NT	NT	NT	
Amino Acids	NT	NT	NT	NT	
Ammonium Phosphate, All	ŇŤ	NT	NT	NT	
Ammonia Gas	NT	NT	NT	NT	
Ammonia Vapors, Wet Gas	NT	NT	NT	NT	
Ammonia Liquified Gas	NT	NT	NR	NT	
Ammonia 10%	NT	NT	NR	R	
Ammonia Silicofluoride	NT	NT	NT	NT	
Ammonia Aqueous (see Ammonium Hydroxide)	NT	NT	NT	NT	
Ammonium Acetate 65%	NT	NT	NT	NT	
Ammonium Bicarbonate 10%	NT	NT NT	NT NT	NT	
Ammonium Bicarbonate 50%	NT		NT		
Ammonium Bifluoride 10% (4) Ammonium Bifluoride (4)	NT NT	NT	NT		
Ammonium Bisulfite (Black Liguor)	NT	NT	NT	NT	
Ammonium Bromate 43%	NT	NT	INT	NT	
Ammonium Bromide 43%	NT	/ NT	NT	NT	
Ammonium Carbonate, All	NT	NT	NT	NT	
Ammonium Carbonate 25%	NT	NT	NT	NT	
Ammonium Chloride, All	NT		NT	NT	
Ammonium Chloride 30%	NT	NT	NT	NT	
Ammonium Chloride 50%	NT	NT	NT	NT	
Ammonium Chloride, Saturated	NT	NT	NT	NT	
Ammonium Citrate, All	NT	NT	NT	NT	
Ammonium Cocoampholyte 30%	NT	NT	NT	NT	
Ammonium Dichromate 50%	NT	NT	NT	NT	
Ammonium Fluoride, All (1, 2, 4, 7)	NT	NT	NT	NT	
Ammonium Hexaflorosilicate	NT	NT	NT	NT	
Ammonium Hydroxide 5% (4)	80	R	NR	R	
Ammonium Hydroxide 10% (4)	80	R	NR	R	
Ammonium Hydroxide 20% (4)	NR	R	NR	R	
Ammonium Hydroxide 30% (4)	NR	R	NR	R	
Ammonium Hydroxide 40% (4)	NR	R	NT	NT	
Ammonium Lauryi Sulfate 30%	NT ·	NT	NT	NT	
Ammonium Ligno Sulfonate 50%	NT	NT	NT	NT	
Ammonium Nitrate	80	R	NT	NT	
Ammonium Nitrate, Saturated	80	R	NT	NT	
Ammonium Nitrate 5%	80	R	140	R	
Ammonium Nitrate 50%	80	R	140	R	
Ammonium Nitrate 65%	80	R	140	R	
Ammonium Nitrate 83%	80	R	NT	NT	
Ammonium Perchlorate 10%	NT	NT	100	R	
Ammonium Persulfate 10%	NT	NT	100	R	
Ammonium Persulfate 50%	NT	NT	NT	NT	
Ammonium Persulfate, All	NT	NT	NT	NT	
Ammonium Phosphate	NR	R	NT	NT	
Ammonium Phosphate 40%	NR	R	140	R	

ARIZONA DEPARTMENT OF ENVIRONMENTAL QUALITY

JAN 15 2008

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	Magnal	ux 304 Vinyl Ester	Shei	r-Glass FF
		Secondary		Secon
Chemical Environment and Concentration (%)	Immersion	Containment	Immersion	Conta
Aluminum Chlorohydroxide 50%	140	R	NT	NT
Aluminum Citrate, All	140	R	NT	NT
Aluminum Fluoride, All	80	R	NT	NT
Aluminum Fluoride 1%	80	R	NT	NT
Aluminum Fluoride 5%	80	R	NT	NT
Aluminum Fluoride 10%	80	R	NT	NT
Aluminum Fluoride 20%	80	R	NT	NT
Aluminum Hydroxide, Dry	140	R	NT	NT
Aluminum Nitrate 10%	140	R	NT	NT
Aluminum Nitrate 50%	140	R	NT	NT
Aluminum Nitrate	140	R	NT	NT
Alumínum Nitrate, Saturated	140	R	NT	NT
Aluminum Sulfate, All	140	R	NT	NT
Aluminum Sulfate 10%	140	R	NT	NT
Aluminum Sulfate 50%	140	R	NT	NT
Ambitrol Ethylene Glycol	140	R	NT	NT
Ambush Insecticide	NT	NT	NT	NT
Amine Salts	140	R	NT	NT
Amino Acids	100	R	NT	NT
Ammonium Phosphate, All	140	R	NT	NT
Ammonia Gas	100	R	NT	NT
Ammonia Vapors, Wet Gas	140	<u>R</u>	NT	NT
Ammonia Liquified Gas	NR	NR	NT	NT
Ammonia 10%	140	R	NT	NT
Ammonia Silicofluoride	NT	NT	NT	NT
Ammonia Aqueous (see Ammonium Hydroxide)	NT	NT	NT	NT
Ammonium Acetate 65%	80	R	NT	NT
Ammonium Bicarbonate 10%	140	R	NT	NT
Ammonium Bicarbonate 50%	140		NT	NT
Ammonium Bifluoride 10% (4)	140	R	NT	NT
Ammonium Bifluoride (4)	140	R	NT.	
Ammonium Bisulfite (Black Liquor)	140			
Ammonium Bromate 43%	140	R		NT
Ammonium Bromide 43%	140		NT	NT NT
Ammonium Carbonate, All	140	R	NT	NT
Ammonium Carbonate 25%	140	R	NT	NT
Ammonium Chloride, All	-	R	NT	NT
Ammonium Chloride 30%	140		NT	NT
Ammonium Chloride 50%	140 140	R		
Ammonium Chloride, Saturated Ammonium Citrate, All	140	R		NT
	140	R	NT	NT
Ammonium Cocoampholyte 30%	120			
Ammonium Dichromate 50% Ammonium Fluoride, All (1, 2, 4, 7)	140	NR	NT	
Ammonium Fluoride, All (1, 2, 4, 7)	140 NT		NT	
Ammonium Hexatiorosnicate Ammonium Hydroxide 5% (4)	150	NR NR		NT
			NT	
Ammonium Hydroxide 10% (4) Ammonium Hydroxide 20% (4)	120	NR NR		
Ammonium Hydroxide 20% (4)	80	NR	NT NT	NT
Ammonium Hydroxide 30% (4)	NR	NR	NT	
Ammonium Lauryl Sulfate 30%	140	R	NT	NT
Ammonium Ligno Sulfonate 50%	140	R	NT	NT
Ammonium Nitrate	140	R	NT	NT
Ammonium Nitrate, Saturated	140	R	NT	NT
Ammonium Nitrate 5%	140	R	NT	NT
Ammonium Nitrate 50%	140	R	NT	NT
Ammonium Nitrate 65%	140	R	NT	NT
Ammonium Nitrate 83%	140	R	NT	NT
Ammonium Perchlorate 10%	140	R	NT	
Ammonium Persulfate 10%	140	R	NT	NT
Ammonium Persulfate 50%	140	R	NT	
Ammonium Persulfate, All	140		NT	NT
Ammonium Persulate, An Ammonium Phosphate	140	R	NT	NT
Ammonium Phosphate 40%	140	R	NT	NT
Announum Filospilate 40%	140			1 141

ARIZONA DEPARTMENT OF ENVIRONMENTAL QUALITY

JAN 15 2008

Waste Programs Div. Permits Section

8/92

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	Cor-Cote VEN FF Cor-Cote VEN GF					Cor-Cote HCR FF		
	Ç01-C018	Secondary	00-001	Secondary		Secondary		
Chemical Environment and Concentration (%)	Immersion	Containment	Immersion	Containment		Containment		
Ammonium Polysulfide, Saturated	150	R	150	R	120	R		
Ammonium Polysunde, Saturates	NT	NT	NT	NT	NT	NT		
Ammonium Sulfate Dry	150	R	150	R	120	R		
Ammonium Sulfate 6%	150	R	150	R	120	R		
Ammonium Sulfate 8%	150	R	150	R	-120	R		
Ammonium Sulfate 65%	150	R	150	R	120	R		
Ammonium Sulfide (Bisulfide)	150	R	150	R	120	R		
Ammonium Sulfide 24%	150	R	150	R	120	R		
Ammonium Sulfide 45%	150	R	150	R	120	R		
Ammonium Sulfite 50%	150	R	150	R	120	R		
Ammonium Sulfite	150	R	150	R	120	R		
Ammonium Sulfite, Saturated	150	R	150	R	120	R		
Ammonium Thiocyanate 20%	150	R	150	R	100	R		
Ammonium Thiocyanate 50%	120	R	120	R	100	R		
Ammonium Thiocyanate 55%	120	R	120	R	100	R		
Ammonium Thiosulfate 60%	100	R	120	R	120	R		
Ammonium Xylene Sulfonate 40% Ammonyx Cetoc (Stepan Co)	120 NT	NT	120	NT NT	NT	NT		
Amyl Acetate	120	R	120	R	NR	R		
Amyl Alcohol	150	R	150	R	100	R		
Amyl Chloride 100%	150	R	150	R	NT	NT		
Aniline 100%	120	R	120	R	NR	R		
Aniline Hydrochloride, All	150	R	150	R	120	R		
Aniline Sulfate, All	150	R	150	R	NT	NT		
Aniline Sulfate 25%	150	R	150	R	NT	NT		
Animal Fat Solution 45%	150	R	150	R	NT	NT		
Anodizing Chromic (10% Chromic Acid)	100	R	100	R	NR	R		
Anodixing Sulfuric (50% Sulfuric Acid)	150	R	150	R	NR	NR		
Anodize (15% Sulfuric)	150	R	150	R	NT	NT		
Antimony Trichloride 100%	100	R	150	R	120	R		
Antimony Trichloride 50%	100	R	150	R	120	R		
Apple Butter	NT	NT NT	NT	NT	NT	NT		
Apple Concentrate Apple Juice	NT NT	NT	NT	NT	NT	NT		
Agua Ammonia up to 29.4%	NT	NT	NT	NT	NT			
Aqua Regia	NR	NR	NR	NR	NR	R		
Arsenic Acid 50%	150	R	150	R	NT	NT		
Arsenic Acid, All	150	R	150	R	NT	NT		
Arsenious Acid 19 BE	150	R	150	R	NT	NT		
Arsenous Acid	150	R	150	R	NT	NT		
Aviation Fuel JP 4	150	R	150	R	NT	NT		
Axle Grease Lubricant	NR	R	NR	R	NT	NT		
Banvel Herbicide	NT	NT	NT	NT	NT	NT		
Barium Acetate	150	R	150	R	NT	NT		
Barium Bromide, All	150	R	150	R	NT	NT		
Barium Carbonate, All	150	R	150	R	NT 120	R R		
Barium Chloride, All	150	R	150 150	R	120	R		
Barium Chloride 50% Barium Cyanide, All	150	R	150	R	NT	NT		
Barium Cyanide, All Barium Hydroxide, All	150	R	150	R	120	R		
Barium Hydroxide 50%	150	R	150	R	120	R		
Barium Nitrate 50%	NT	NT	NT	NT	NT	NT		
Barium Sulfate, All	150	R	150	R	120	R		
Barium Sulfide, All	150	R	150	R	120	R		
Beer	NR	NR	NR	NR	NT	NT		
Belgard EV Concentrate	NT	NT	NT	NT	NT	NT		
Bentonite	150	R	150	R	120	R		
Benzal Chloride	NR	R	NR	R	NR	R		
Benzaldehyde 100%	NR	R	NR	R	NT	NT		
Benzene (Benzol)	100	R	100	R	100	R		
Benzene Hydrochloric Acid, Wet	NT	NT .	NT	NT	NT	NT		
Benzene Sulfonic Acid 100%	150	R	150	R	NT	NT		
Benzene Sulfonic Acid 25%	150	R	150	R	NT	NT		
Benzene Sulfonic Acid 50%	150	R	150	R	NT NT	NT NT		
Benzene Sulfonyl Chloride	NT	NT	NT	<u>NT</u>	10			

ARIZONA DEPARTMENT OF ENVIRONMENTAL QUALITY

JAN 15 2008

Waste Programs Div.

	Cor	Cor-Cote HP		Cor-Cote HP FF		Cor-Cote SC	
	-	Secondary		Secondary		Secondary	
Chemical Environment and Concentration (%)	Immersion	Containment	Immersion	Containment	Immersion	Containment	
Ammonium Polysulfide, Saturated	NR	R	120	R	120	R	
Ammonium Sulfamate 46%	NT	NT	INT	NT	NT	NT	
Ammonium Sulfate Dry	NR	R	NR	R	120	R	
Ammonium Sulfate 6%	NR	R	NR.	R	120	R	
Ammonium Sulfate 8%	NR	R	NR	R	120	R	
Ammonium Sulfate 65%	NR	R	NR	R	120	R	
Ammonium Sulfide (Bisulfide)	NR	R	NR	R	120	R	
Ammonium Sulfide 24%	NR	R	NR .	R	120	R	
Ammonium Sulfide 45%	NR	R	NR	R	120	R	
Ammonium Sulfite 50%	NR	R	120	R	120	R	
Ammonium Sulfite	NR	R	120		120	R	
Ammonium Sulfite, Saturated	NR		NR	R	NR	R	
Ammonium Thiocyanate 20%	NR	R	120	R	100	R	
Ammonium Thiocyanate 50%	NR	R	120	R	100	R	
Ammonium Thiocyanate 55%	NR	R	120	R	100	R	
Ammonium Thiosulfate 60%	NR	R	120	R		R	
Ammonium Xylene Sulfonate 40%	NR	R	120 NT	R NT	120 NT		
Ammonyx Cetoc (Stepan Co)	NT	NT	NT NR	R	NR	R	
Amyl Acetate	NR	R	120	R	100	R	
Amyl Alcohol	NR NT		120 NT	NT .	NT		
Amyl Chloride 100%	NR	NR	NR	NR	NR		
Aniline 100%	NR NR	R	120	R	100		
Aniline Hydrochloride, All	I NT		NT		NT	NT	
Aniline Sulfate 25%	NT NT	NT	NT		INT	NT	
Anime Surate 25% Animal Fat Solution 45%	NT	NT	NT	NT	NT	NT	
Anodizing Chromic (10% Chromic Acid)	NR	NR	NR	INR	NR	NR	
Anodixing Sulfuric (50% Sulfuric Acid)	NR	NR	NR	- NR	NR	NR	
Anodize (15% Sulfuric)		NT	NT	NT	NT	NT	
Antimony Trichloride 100%	NR	R	120	R	100	R	
Antimony Trichloride 50%	NR	R	120	R	100	R	
Apple Butter	NR	R	120	- R	100	R	
Apple Concentrate	NR	R	120	R	100	R	
Apple Juice	NT	NT	NT	NT	NT	NT	
Agua Ammonia up to 29.4%	NT	NT	NT	NT	NT	NT	
Aqua Regia	NR	NR	NR	NR	NR	NR	
Arsenic Acid 50%	NR	NR	NR	NR	NR	NR .	
Arsenic Acid, All	NR	NR	NR	NR	NR	NR	
Arsenious Acid 19 BE	NR	NR	NR	NR	NR	NR	
Arsenous Acid	NR	NR	NR	NR	NR	NR	
Aviation Fuel JP 4	NT	NT	NT	NT	NT	NT	
Axie Grease Lubricant	NT	NT	NT	NT	NT	NT	
Banvel Herbicide	NR	R	120	R	100	R	
Barium Acetate	NT	NT	NT	NT	NT	NT	
Barium Bromide, All	NT	NT	NT	NT	NT	NT	
Barium Carbonate, All	NT	NT	NT	NT	NT	NT	
Barium Chloride, All	NR	R	120	R	120	R	
Barium Chloride 50%	NR	R	120	R	120	R	
Barium Cyanide, All	NT	NT	NT	NT	NT	NT	
Barium Hydroxide, All	NR	Ŕ	120	R	120	R	
Barium Hydroxide 50%	NR	R	120	R	120	R	
Barium Nitrate 50%	NT	NT	NT	NT	NT	NT	
Barium Sulfate, All	NR	R	120	R	120	R	
Barium Sulfide, All	NR	R	120	R	120	R	
Beer	INT	NT	NT	NT	NT		
Belgard EV Concentrate	NT	NT	NT	NT	NT	NT	
Bentonite	NR	R	100	R	100	R	
Benzal Chloride	NT	NT	NT	NT	NR	NR	
Benzaldehyde 100%	NT	NT	NT	NT	NT		
Benzene (Benzol)	NR	R	120	R	NR	R	
	NT	NT	NŤ	NT	NT.	NT	
Benzene Hydrochloric Acid, Wet				NC	AUC7		
Benzene Sulfonic Acid 100%	NR	NR	, NR	NR	NR	NR	
		NR NT NR	, NR NT NR	NR NT NR		NR NT NR	

ARIZONA DEPARTMENT OF ENVIRONMENTAL QUALITY

JAN 15 2008

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Waste Programs Div.

				-Clad ER Secondary
Chemical Environment and Concentration (%)	Immersion	Secondary Containment	Immersion	Containment
Ammonium Polysulfide, Saturated	NR	R	NT	NT
Ammonium Sulfamate 46%	NR	R	NT	NT
Ammonium Sulfate Dry	NR	R	NT	NT
Ammonium Sulfate 6%	NR	R	NT	NT
Ammonium Sulfate 8%	NR	R	140	- R
Ammonium Sulfate 65%	NR	R	140	R
Ammonium Sulfide (Bisulfide)	NT	NT	NT	NT
Ammonium Sulfide 24%	NT	NT	100	R
Ammonium Sulfide 45%	NT	NT	100	R
Ammonium Sulfite 50%	NT	NT	100	R
Ammonium Sulfite	NT	NT	NT	NT
Ammonium Sulfite, Saturated	NT	NT	NT	NT
Ammonium Thiocyanate 20%	NT	NT	NT	NT
Ammonium Thiocyanate 50%	NT	NT	100	R
Ammonium Thiocyanate 55%	NT	NT	NT	NT
Ammonium Thiosulfate 60%	NT	NT	NT	NT
Ammonium Xylene Sulfonate 40%	NT	NT	140	R
Ammonyx Cetoc (Stepan Co)	NT	NT	NT	NT
Amyl Acetate	NT	NT	NT	100
Amyl Alcohol	NT	NT	NT	NT
Amyl Chloride 100%	NT	NT	NT	NT
Aniline 100%	NT	NT	NR	NR
Aniline Hydrochloride, All	NT	NT	INT	NT
Aniline Sulfate, All	NT	NT	NT	NT
Aniline Sulfate 25%	NT	NT	NT	NT
Animal Fat Solution 45%	NT	NT	NT	R
Anodizing Chromic (10% Chromic Acid)	NT	NT	NT	NT
Anodixing Sulfuric (50% Sulfuric Acid)	NT	NT	NT	NT
Anodize (15% Sulfuric)	NT	NT	NT	ŇT
Antimony Trichloride 100%	NT	NT	ŇŤ	NT
Antimony Trichloride 50%	NT	NT	NT	NT
Apple Butter	NT	NT	NT	NT
Apple Concentrate	NT	NT	100	R
Apple Juice	ŇT	NT	NT	NT
Aqua Ammonia up to 29.4%	NT	NT ·	NT	NT
Aqua Regia	NT	NT	NT	NT
Arsenic Acid 50%	NT	NT	NT	NT
Arsenic Acid, All	NT	NT	NT	NT
Arsenious Acid 19 BE	NT	NT	ŇT	NT
Arsenous Acid	NT	NT	NT	NT
Aviation Fuel JP 4	NT	NT	80	R
Axle Grease Lubricant	NT	NT	NT	NT
Banvel Herbicide	NT	NT	100	R
Barium Acetate	NT	NT	NT	NT
Barium Bromide, All	NT	NT	NT	NT
Barium Carbonate, All	NT	NT	NT	NT
Barium Chloride, All	NT	NT	NT	NT
Barium Chloride 50%	NT	NT	NT	NT
Barium Cyanide, All	NT	NT	NT	NT
Barium Hydroxide, All	NT	NT	NT	NT
Barium Hydroxide 50%	NT	NT	NT	NT
Barium Nitrate 50%	NT	NT	NT	NT
Barium Sulfate, All	NT	NT	NT	NT
Barium Sulfide, All	NT	NT	NT	NT
Beer	NT	NT	NT	NT
Belgard EV Concentrate	NT	NT	NT	NT
Bentonite	NT	NT	NT	NT
Benzal Chloride	NT	NT	NT	NT
Benzaldehyde 100%	NT	NT	NR	NR
Benzene (Benzol)	NR	NR	80	R
Benzene Hydrochloric Acid, Wet	NT	NT	NT	
Benzene Sulfonic Acid 100%	NT	NT	NT	NT
Benzene Sulfonic Acid 25%		NT	NT	NT
Benzene Sulfonic Acid 50%	NT	NT	NT	NT
Benzene Sulfonyl Chloride	NT	NT	NR	NR

ARIZONA DEPARTMENT OF ENVIRONMENTAL QUALITY

JAN 15 2008

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	Magnal	ux 304 Vinyl Ester	Sher	Sher-Glass FF		
Chemical Environment and Concentration (%)	Immersion	Secondary Containment	Immersion	Secondary Containment		
Ammonium Polysulfide, Saturated	140	R	NT	NT		
mmonium Sulfamate 46%	NT	NT	NT	NT		
Ammonium Sulfate Dry	140	R	NT	NT		
Ammonium Sulfate 6%	140	8	NT	NT		
Ammonium Sulfate 8%	140	R	NT	NT · ~		
Ammonium Sulfate 65%	140	R	NT	NT		
Ammonium Sulfide (Bisulfide)	140	R	NT	NT		
Ammonium Sulfide 24%	140	R	NT	NT		
Ammonium Sulfide 45%	140	R	NT	NT		
Ammonium Sulfite 50%	140	R	NT	NT		
Ammonium Sulfite	140	R	NT	NT		
Ammonium Sulfite, Saturated	140	R	NT	NT		
Ammonium Thiocyanate 20%	140	R	NT	NT		
Ammonium Thiocyanate 50%	140	R	NT	NT		
Ammonium Thiocyanate 55%	140	R	NT	NT		
Ammonium Thiosulfate 60%	100	R	NT	NT		
Ammonium Xylene Sulfonate 40%	120	R	NT			
Ammonyx Cetoc (Stepan Co)	NT	NT	NT			
Amyl Acetate	R			NT		
Amyl Alcohol	120	R	NT NT			
Amyl Chloride 100%	140		NT	NT		
Aniline 100%	NR 120			NT NT		
Aniline Hydrochloride, All	120	R	NT	NT NT		
Aniline Sulfate, All Aniline Sulfate 25%	140	R	NT	NT		
Animal Fat Solution 45%	140	R	NT	NT		
Animal Pat Solution 45% Anodizing Chromic (10% Chromic Acid)	NR	NR	NT	NT		
Anodizing Chromic (30% Chromic Acid)	140	R	NT	NT		
Anodize (15% Sulfuric)	140		NT	NT		
Antimony Trichloride 100%	100	R	NT	NT		
Antimony Trichloride 50%	100	R	NT	NT		
Apple Butter	NT	NT	NT	NT		
Apple Concentrate	NT		NT	NT		
Apple Juice	NT	NT	NT	NT		
Aqua Ammonia up to 29.4%	NT	NT	NT	NT		
Aqua Regia	NR	NR	NT	NT		
Arsenic Acid 50%	100	R	NT	NT		
Arsenic Acid, All	100	R	NT	NT		
Arsenious Acid 19 BE	100	R	NT	NT		
Arsenous Acid	120	R	NT	NT		
Aviation Fuel JP 4	100	R	NT	NT		
Axle Grease Lubricant	NR	R	· NT	NT		
Banvel Herbicide	NT	NT	NT	NT		
Barium Acetate	140	R	NT	NT		
Barium Bromide, All	140	R	NT	NT		
Barium Carbonate, All	140	R	NT	NT		
Barium Chloride, All	140	R	NT	NT		
Barium Chloride 50%	140	R	NT	NT		
Barium Cyanide, All	140	R	NT	NT		
Barium Hydroxide, All	120	R	NT	NT		
Barium Hydroxide 50%	120	Ŕ	NT	NT		
Barium Nitrate 50%	NT	NT	NT	NT		
Barium Sulfate, All	120	R	NT	NT		
Barium Sulfide, All	120	R	NT	NT		
Beer	NR	NR	NT	NT		
Belgard EV Concentrate	NT	NT	NT	NT		
Bentonite	140	R	NT	NT		
Benzal Chloride	NR	NR	NT	NT		
Benzaldehyde 100%	NR	NR	NT	NT		
Benzene (Benzol)	NR	NR	NT	NT		
Benzene Hydrochloric Acid, Wet	NT	NT	NT	NT		
			NT	NT		
Benzene Sulfonic Acid 100%	140	R				
Benzene Sulfonic Acid 100% Benzene Sulfonic Acid 25% Benzene Sulfonic Acid 50%	140 140 140	R R	NT NT			

ARIZONA DEPARTMENT OF ENVIRONMENTAL QUALITY

JAN 15 2008

Waste Programs Div. Permits Section

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Basenes Subsynch Choords 835; Mathamol 1.5% NT NT NT NT NT NT NT NT Bareson Dirbit NR	Cor-Cot	e VEN FF	Cor-Cot	e VEN GF	Cor-Co	te HCR FF
Barenes Bulleyn Chorde B BPS, Mathanol 1.5% NT Statuated NT				Secondary		
accose fill NT NT NT NR	Immersion	Containment	Immersion	Containment	Immersion	Containment
Jansson NR R 100 R 100 R Baroyd Acohol 20% 170 R 170 170 170 170 170 170 170 170 170 170 170 170	NT	NT	NT	NT	NR	NR
Banck Loki, Shuratod 190 R 190 R 190 R 190 R 190 R Barray I Acobi (20%) 170 R R 170 R R 170 R R 170 R NT						
Sarcoyl Elvoride 150 R 160 R R0 R R R R 100 R Sarcoyl Lokobi 20% 120 R 120 R 120 R 100 R Sarcyl Acobi 20% 120 R 120 R 100 R Sarcyl Acobi 20% NT						
BarcoyNRRNRR100RBarcy/Alcolo 100%120R120R100RBarcy/Alcolo 100%100R800R800RBarcy/Alcolo 100%00R800R800RBarcy/FloroidsNTNTNTNTNTNTNTBarcy/Floroids 10%; Sodium Hydroxide 5%NTNTNTNTNTNTNTBarcy/EncodeGasaNT <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td></td<>						
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Jacayl Proxids90R90R90RJacayl Proxids10%, Sodum Hydraxde 5%,NTNTNTNTNTNTNTJacayl Proxids10%, Sodum Hydraxde 5%,NTNTNTNTNTNTNTNTNTJacuffen Discubler, GasesNT						_
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Jangy Peroda 19%, Sodium Hydroxide 5%, MT NT NT NT NT NT Bisu/Hire Scrubber, Gases NT NT <td></td> <td></td> <td></td> <td>-</td> <td></td> <td></td>				-		
Barry, Minusel 60% 100 R 100 R NT NT NT Bark, Liquer, Rocevery, Furnase Gases 150 R 150 R 150 R 170 NT NT NT Black, Liquer, Rocevery, Furnase Gases 150 R 150 R 150 R 120 R Black, Liquer, Roll NT N						
Signifies Scrubber, Gases NT NT NT NT NT NT NT Black Liquer, Revery, Furrace Gases 150 R 150 R NT NT NT Black Liquer, Revery, Furrace Gases 150 R 150 R 150 R 120 R Black Decomposition Hypothorito) NT						
Back Liquer, Place Vary, Furnace Gases 150 R 150 R 150 R 150 R 150 R Bineb, Clase Sodium Hypochhorite) NT <						
Bink Liquer, Puip MII (4, 9) 150 R 150 R 120 R Binexh (pers Solum Hypenhorth) NT Solution (4) 150 R 120 R						
Intend (see Sodium Hypochhorin) NT NT NT NT NT Blow Doon (non-condensing gases from pulp 150 R 150 R 150 R NT NT Blow Doon (non-condensing gases from pulp 150 R 120 R <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td></t<>						
Sloof Sugar, Al 150 R 150 R NT NT Slood Von (non-condensing gasses from pulp Slore Acid, Al 150 R 150 R 150 R 150 R 120 R Slore Acid, Al 150 R 150 R 120 R 120 R Sloric Acid, Slutzetd 150 R 150 R 120 R 120 R Sloric Acid, Slutzetd 150 R 150 R 150 R 120 R 120 R 120 R 120 R 120 R 130 R 150 R 150 R 150 R 120 R 170 R 120 R 170 17 17 17 17 17 17 17 17 17 17						_
alter Down (non-condensing gases from pulp n n n n n ligester, i.e., dimethyl sulfide and mercaptanes) (5) 150 R 150 R NT NT Sorie Acid, All 150 R 150 R 120 R Sorie Acid, Saturated 150 R 120 R R 120 R Sareks Faits Solution (4) 150 R 150 R 150 R 120 R Sareks Texting Solution (4) 150 R 150 R 120 R NT NT Sares Nating Solution (4) 150 R 150 R 120 R 120 R Sares Nating Solution (4) 160 R 150 R 120 R <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td></td<>						
iggester, i.e. dimethyl sulfide and mercaptanes) (5) 150 R 150 R NT NT Boric Acid, All 150 R 150 R 120 R Boric Acid, Saturated 150 R 150 R 120 R Boric Acid, Saturated 150 R 150 R 120 R NT NT Brase Fluid ID Soft 180 R 150 R 150 R 120 R Brans Staturated 150 R 150 R 150 R 120 R Brominated Phosphoric Ester, All 120 R 120 R NT NT Bromine, Ud Gas 120 R 120 R NT		1				
Sorax 100% 190 R 190 R 120 R Boric Acid, Saturatid 190 R 190 R 120 R Boric Acid, Saturatid 190 R 190 R 120 R Barke Fluid PD 557 120 R 120 R 120 R Strike Fluid PD 557 120 R 120 R NT NT Strike Mature 150 R 150 R 120 R R Brominated Phosphoric Ester, All 120 R 120 R NR Staturatid Ga fact Ga fact Ga fact Ga fact Ga fact	150	R	150	R	NT	NT
Boric Acid, Saturated 190 R 150 R 120 R Brake Fluid HD 557 120 R 120 R 120 R NT NT Brake Stating Solution (4) 150 R 150 R 150 R 150 R 120 R Brine, Saturated 150 R 150 R 120 R Brominated Phosphoric Ester, All 120 R 120 R NR NR </td <td></td> <td>R</td> <td>150</td> <td></td> <td>120</td> <td>R</td>		R	150		120	R
Brake Fluid HD 557 120 R 120 R NT NT Brakes Plating Solution (4) 150 R 150 R NT NT Brine Mixture 150 R 150 R 150 R NT NT Brine Mixture 150 R 150 R 120 R Brominated Phosphoric Ester, All 120 R 120 R NT NT Bromine, Dry Gas (not condensing) 100 R 100 R NR NR NR Bromine, Vei Gas 120 R 120 R 120 R NR NR Bromochlocomethane NT	150	R	150	R	120	R
Brass Plating Solution (4) 150 R 150 R NT NT Brine Mixture 150 R 150 R 150 R 120 R Brine, Saturated 150 R 150 R 120 R 120 R Bromine, Dr. Sati (not condensing) 100 R 100 R NT NT Bromine, Dr. Sati (not condensing) 100 R 120 R NR NR NR Bromine Water 5% 120 R 120 R NT N	150	R	150	R	120	R
Brine Mixture 150 R 150 R 120 R Brine, Sturated 150 R 120 R 120 R Brominated Phosphoric Ester, All 120 R 120 R NT NT Bromino, Dry Gas (not condensing) 100 R 100 R NR S	120	R	120	R	NT	NT
Brine, Saturated 150 R 120 R 120 R 120 R NT Bromine, Dry Gas (not condensig) 100 R 100 R NR	150	R	150	R	NT	NT
Brominated Phosphoric Ester, All 120 R 120 R NT NT Bromine, Logid 100% NR Streamediate 5% 120 R 120<	150	R	150	R	120	R
Bromine, Dry Gas (not condensing) 100 R 100 R NR NT	150	R	150	R	120	R
Bromine, Liquid 100% NR NR NR NR NR NR NR NR Bromine, Wei Gas 120 R 120 R NR NR NR Bromine, Wei Gas 120 R 120 R NR NR NR Bromochloremethane NT NT NT NT NT NT NT NT Bromsothoremethane NT NT NT NT NT NT NT Butanefiol 150 R 150 R NT NT Butanefiol 140 R 140 R 120 R 120 R Butanefiol 100 R 100 R 100 R NT NT Butanefiol 100 R 100 R NT Statanolo R NG	120	R	120	R	NT	NT
Bromine, Wat Gas 120 R 120 R 120 R NR NR Bromine Water 5% 120 R 120 R NT BU10 BU10	100	R	100	R	NR	NR
Bromine Water 5% 120 R 120 R 120 R NR NR Brown Stock 150 R 150 R 150 R 170 NT Statioxstoxstoxstoxtoxtoxtoxtoxtoxtoxtoxtoxtoxtoxtoxtoxt	NR	NR	NR	NR		
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Butyl Oxitol NT	NT	NT	NT	NT	NT	NT
Butylamine 50% NT	NR	NR	NR	NR		NT
Butylene NT <	NT	NT	NT	NT	NT	NT
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ARIZONA DEPARTMENT OF ENVIRONMENTAL QUALITY

JAN 15 2008

	Cor-	Cote HP	Cor-Co	te HP FF	Cor-Cote SC		
Chemical Environment and Concentration (%)	Immersion	Secondary Containment	Immersion	Secondary Containment	Immersion	Secondary Containment	
Benzene Sulfonyl Chloride 98.5%; Methanol 1.5%	NR	NR	NR	NR	NR	NR	
Benzene:Ethylbenzene 1/3 - 2/3	NT	NT	NT	NT	NT	NT	
Benzene Thiol	NR	NR	NR	NR	NR	NR	
Benzoic Acid, Saturated	NR	R	120	R	120	R	
Benzoyl Benzoic Acid	NR	R	120	R	120	R	
Benzoyl Chloride	NR	R	. 100	R	100	R	
Benzyl Alcohol 20%	NR	R	NR	R	. 100	R	
Benzyl Alcohol 100%	NR	R	NR	R	100	R	
Benzyl Chloride 100%	NR	R	NR	R	NR	R	
Benzyl Peroxide	NT	NT	NT	NT	NT	NT	
Benzyl Peroxide 10%; Sodium Hydroxide 5%	NT	NT	NTi	NT	NT		
Benzyltrimethylam. Chloride 60%	NT	NT	NT NT	NT	NT NT	NT NT	
Bisulfite in Scrubber, Gases	NT	NT	NT	NT NT	NT		
Black Liquor Recovery, Furnace Gases	NT	R NT	NR	R	120	R	
Black Liquor, Pulp Mill (4, 9)	NR NT			NT	NT		
Bleach (see Sodium Hypochlorite)		NT NT	NT NT				
Blood Sugar, All						-	
Blow Down (non-condensing gases from pulp digester, i.e. dimethyl sulfide and mercaptanes) (5)	NT	NT	NT	1	NT	NT	
Borax 100%	NR	R	120	R	120	R	
Boric Acid. All	NR	R	120	R	120	R	
Boric Acid, Saturated	NR	R	120	R	120	R	
Brake Fluid HD 557	INT		NT	NT NT	NT	NT	
Brass Plating Solution (4)	NT	NT	NT	NT	NT	NT	
Brine Mixture	NR	8	100	R	100	R	
Brine, Saturated	NR	R	100	R	100	R	
Brominated Phosphoric Ester, All	NT	NT	NT	NT	NT	NT	
Bromine, Dry Gas (not condensing)	NR	NR	NR	NR	NR	NR	
Bromine, Liquid 100%	NR	NR	NR	NR	NR	NR	
Bromine, Wet Gas	NR	NR	NR	NR	NR	NR	
Bromine Water 5%	NR	NR	NR	NR	NR	NR	
Bromochloromethane	NT	NT	NT	NT	NT	NT	
Brown Stock	NR	R	NR	R	NR	R	
Bunker C Fuel Oil	NT	NT	NT	NT	NT	NT	
Butadiene Gas (9)	NT	NT	NT	NT	NT	NT	
Butanediol	NR	R	120	R	120	R	
Butanol	INR	R	120	R	120	R	
Butoxyethanol	ŇT	NT	NT	NT	NT	NŤ	
Butoxyethoxyethanol	NT	NT	NT	NT	NT	NT	
Butterscotch Topping	NT	NT	I NT	NT	NT	NT	
Butyl Acetate	NR	R	NR	R	NR	R	
Butyl Acrylate	NR	NR	NR	NR	NR	NR	
Butyl Alcohol (Butanol)	NR	R	120	R	120	R	
Butyl Acid Levulinic	NR	R	NR	R	NR	R	
Butyl Amine	NR	NR	NR	NR	NR	NR	
Butyl Benzoate 70%	NT	NT	NT	NT	NT	NT	
Butyl Benzyl Phthalate 100%	NT	NT	NT	NT	NT	NT	
Butyl Carbitol	NR	R	100	R	100	R	
Butyl Carbitol Acetate	NR	R	NR	R	NR	R	
Butyl Carbitol Diethyl Glycol 100%	NT	NT	NT	NT	NT	NT	
Butyi Cellosoive	NR	R	100	R	100	R	
Butyl Cellosolve Acetate	NR	R	NR	R	NR	R	
Butyl Ether	NT	NT	NT	NT	NT	NT	
Butyl Formcel	NT		NT		NT	NT	
Butyl Glycidyl Ether	NT	NT	NT	NT	NT	NT NT	
Butyl Hypochlorite 98%	NT	NT	NT		NT		
Butyl Oxitoł	NT	NT	NT	NT	NT	NT	
Butylamine 50%	NT	NT	NT	NT	NT		
Butylene	NT	NT	NT	NT	NT		
Butylene Glycol	NT	NT	NT	NT	NT	NT	
Butylene Oxide	NT	NT	NT NR	NT	NT	NT P	
Butyraldehyde	NR	R		R	NR	R	
Butyric Acid 100%	NR	NR NR	NR NR	NR NR	NR NR	NR	
Butyric Acid 5%	. NR						

ARIZONA DEPARTMENT OF ENVIRONMENTAL QUALITY

JAN 15 2008

Waste Programs Div.

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	EnviroLa	stic AR425 and AR200 HD	Fast-Clad ER		
				Secondary	
Chemical Environment and Concentration (%)	Immersion	Secondary Containment	Immersion	Containment	
Benzene Sulfonyl Chloride 98.5%; Methanol 1.5%	NT	NT	NT	NT	
Benzene:Ethylbenzene 1/3 - 2/3 Benzene Thiol	NT	NT	80 NT	R NT	
Benzoic Acid. Saturated	NT	NT NT	NT	NT .	
Benzoyl Benzoic Acid	NT				
Benzoyl Chloride	NT	NT	NT	NT	
Benzyl Alcohol 20%	NT	NT	NT	NT	
Benzyl Alcohol 100%	NT	NT	NT	NT	
Benzyl Chloride 100%	NT	NT	NT	NT	
Benzyl Peroxide	NT	NT	NT	NT	
Benzyl Peroxide 10%; Sodium Hydroxide 5%	NT	NT	NT	NT	
Benzyltrimethylam. Chloride 60%	NT	NT	NT	NT	
Bisulfite in Scrubber, Gases	NT	NT	NT NT	NT NT	
Black Liquor Recovery, Furnace Gases			NT	NT	
Black Liquor, Pulp Mill (4, 9) Bleach (see Sodium Hypochlorite)	NT	NT	NT	NT	
Blood Sugar, All	NT	NT	NT	NT	
Blow Down (non-condensing gases from pulp					
digester, i.e. dimethyl sulfide and mercaptanes) (5)	NT	ŇT	NT	NT	
Borax 100%	NR	NR	NT	NT	
Boric Acid, All	NT	NT	NT	NT	
Boric Acid, Saturated	NT	NT	100	R	
Brake Fluid HD 557	NR	R	NT	NT NT	
Brass Plating Solution (4)	NT	NT	NT NT	NI NT	
Brine Mixture Brine, Saturated	NR NR	R		NT	
Brominated Phosphoric Ester, All	NT	NT	- NT	NT	
Bromine, Dry Gas (not condensing)	NR	NR	NT	NT	
Bromine, Liquid 100%	NR	NR	NT	NT	
Bromine, Wet Gas	NR	ŇR	NT	NT	
Bromine Water 5%	NR	NR	NT	NT	
Bromochloromethane	NT	NT	NT	NT	
Brown Stock	NR	R	NT	NT	
Bunker C Fuel Oil	NT	NT	120	R	
Butadiene Gas (9)	NT	NT	NT	NT	
Butanediol	NT	NT	NT	R	
Butanol Butoxyethanol	NT NT	NT NT	NT	NT	
Butoxyethoxyethanol	NT		NT	NT	
Butterscotch Topping	NT	NT	NT	NT	
Butyl Acetate	NT	NT	NT	NT	
Butyl Acrylate	NT	NT	NR	R	
Butyl Alcohol (Butanol)	NT	NT	80	R	
Butyl Acid Levulinic	NT	NT	NT	NT	
Butyl Amine	NT	NT	NT	NT	
Butyl Benzoate 70%	NT	NT	NT	NT	
Butyl Benzyl Phthalate 100%	NT	NT	NT		
Butyl Carbitol	NT NT		NT NT	NT	
Butyl Carbitol Acetate Butyl Carbitol Diethyl Glycol 100%	NT			NT	
Butyl Cellosolve	NT	NT	NR	NR	
Butyl Cellosolve Acetate	NT	NT	NT	NT	
Butyl Ether	NT	NT	NT	NT	
Butyl Formcel	NT	NT	NT	NT	
Butyl Glycidyl Ether	NT	NT	NT	NT	
Butyl Hypochlorite 98%	NT	NT	NT	NT	
Butyl Oxitol	NT	NT	NR	R	
Butylamine 50%	NT	NT	NR	NR	
Butylene	NT	NT	NT	NT	
Butylene Glycol	NT	NT	80 NT	R NT	
Butylene Oxide Butyraldehyde	NT			NR NR	
Butyric Acid 100%	NT		NT	NT	
Butyric Acid 5%	NT	NT	NR	R	
Butyric Acid 25%	NT	NT	NT	NT·	

ARIZONA DEPARTMENT OF ENVIRONMENTAL QUALITY

JAN 15 2008

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	Magnal	ux 304 Vinyl Ester	Sher-Glass FF		
		Secondary		Secondary	
Chemical Environment and Concentration (%)	Immersion	Containment	Immersion	Containment	
Benzene Sulfonyl Chloride 98.5%; Methanol 1.5%	NT	NT	NT	NT	
Benzene:Ethylbenzene 1/3 - 2/3	NR	NR	NT	NT	
Benzene Thiol	NR	NR	NT	NT	
Benzolc Acid, Saturated	140	R	NT	NT	
Benzoyl Benzoic Acid	140	R	NT	NT · ···	
Benzoyl Chloride	NR	NR	NT	NT	
Benzyi Alcohol 20%	120	NR	NT	NT	
Benzyl Alcohol 100%	120	NR	NT	NT	
Benzyl Chloride 100%	NR	NR	NT	NT	
Benzyl Peroxide	NT	NT	NT	NT	
Benzyl Peroxide 10%; Sodium Hydroxide 5%	NT	NT	NT	NT	
Benzyltrimethylam. Chloride 60%	100	R	NT	NT	
Bisulfite in Scrubber, Gases	NT	NT	NT	NT	
Black Liquor Recovery, Furnace Gases	120	R	NT	NT	
Black Liquor, Pulp Mill (4, 9)	120	R	NT	NT	
Bleach (see Sodium Hypochlorite)	NT	NT	NT	NT	
Blood Sugar, All	140	R	NT	NT	
Blow Down (non-condensing gases from pulp				N7	
digester, i.e. dimethyl sulfide and mercaptanes) (5)	140	R	NT	NT	
Borax 100%	140		NT	NT	
Boric Acid, All	140	R	NT	NT NT	
Boric Acid, Saturated	140	R	NT		
Brake Fluid HD 557	140	R	NT	NT	
Brass Plating Solution (4)	140	R	NT	NT	
Brine Mixture	140	R			
Brine, Saturated	140	R	NT NT	NT	
Brominated Phosphoric Ester, All	140	R		NT NT	
Bromine, Dry Gas (not condensing)	100		NT	NT	
Bromine, Liquid 100%	NR	NR	NT	NT	
Bromine, Wet Gas	120	R	NT	NT	
Bromine Water 5%	140		NT	NT	
Bromochloromethane	140	R	NT	- NT	
Brown Stock Bunker C Fuel Oil	140				
Butadiene Gas (9)	100		NT		
Butanediol	120	R	NT		
Butanol	100	R	NT	NT	
Butoxyethanol	100	R	NT	NT	
Butoxyethoxyethanol	100		NT	NT	
Butterscotch Topping	NT NT	NT	NT	NT	
Butyl Acetate	NR	NR	NT	NT	
Butyl Acrylate	NR	NR	NT	NT	
Butyl Alcohol (Butanol)	100	R	NT	NT	
Butyl Acid Levulinic	120	R	NT	NT	
Butyl Acid Levalinic			NT	NT	
Butyl Benzoate 70%	NR	NR	NT	NT	
Butyl Benzyl Phthalate 100%	140	R	NT	NT	
Butyl Carbitol	120	R	NT	NT	
Butyl Carbitol Acetate	NR	NR	NT	NT	
Butyl Carbitol Diethyl Glycol 100%	100	R	NT	NT	
Butyl Cellosolve	120	R	NT	NT	
Butyl Cellosolve Acetate	100	R	NT	NT	
Butyl Ether	120	R	NT	NT	
Butyl Formcel	NT	NT	NT	NT	
Butyl Glycidyl Ether	NT	NT	NT	NT	
Butyl Hypochlorite 98%	NR	NR	NT	NT	
Butyl Oxitol	NT	NT	NT	NT	
Butylamine 50%	NT	NT	NT	NT	
Butylene	NT	NT	NT	NT	
Butylene Glycol	140	R	NT	NT	
Butylene Oxide	NR	NR	NT	NT	
Butyraldehyde	NR	NR	NT	NT	
Butyric Acid 100%	120	R	NT	NT	
Butyric Acid 5%	120	R	NT	NT	
Butyric Acid 25%	120	R	NT	NT	

ARIZONA DEPARTMENT OF ENVIRONMENTAL QUALITY

JAN 15 2008

Waste Programs Div. Permits Section

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	Cor-Co	Cor-Cote VEN FF		Cor-Cote VEN GF		te HCR FF
Chemical Environment and Concentration (%)	immersion	Secondary Containment	Immersion	Secondary Containment	Immersion	Secondary Containmen
Butyric Acid 50%	150	R	150	IR	80	NR
Butyrolactone	NT	NT	NT	NT	NT	NT
Cadmium Chloride, All	150	R	150	R	NR	R
Cadmium Cyanide Plating Bath (4)	150	R	150	R	120	R
Calcium Bisulfite, All	150	R	150	R	420	R
Calcium Bromide 10%	150	R	150	R	NT	NT
Calcium Carbonate, All	150	R	150	R	100	R
Calcium Carbonate, Dry	150	R	150	R	120	R
Calcium Carbonate, Saturated	150	R	150	R	100	R
Calcium Chlorate, All	150	R	150	R	NT	NT
Calcium Chloride	150.	R	150	R	120	R
Calcium Chloride, Saturated	150	R	150	R	120	R
Calcium Chloride 40%	150	R	150	R	120	R
Calcium Chloride 50%	150	R	150	R	120	R
Calcium Hydroxide (1, 2, 4, 7)	150	R	150	R	120	R
Calcium Hydroxide 5% (1, 2, 4, 7)	150	R	150	R	120	R
Calcium Hydroxide 10% (1, 2, 4, 7)	150	R	150	R	120	R
Calcium Hydroxide 15% (1, 2, 4, 7)	150	R	150	R	120	R
Calcium Hydroxide 25% (1, 2, 4, 7)	150	R	150	R	120	R
Calcium Hydroxide 50% (1, 2, 4, 7)	150	R	150	R	120	R
Calcium Hypochlorite (1, 2, 4, 7, 8)	NR	R	NR	R	NR	NR
Calcium Hypochlorite 1% (1, 2, 4, 7, 8)	NR	R	NR	R	NR	R
Calcium Hypochlorite 5% (1, 2, 4, 7, 8)	NR	R	NR	R	NR	R
Calcium Hypochlorite 15% (1, 2, 4, 7, 8)	NR	R	NR	R	NR	NR
Calcium Lignosulfonate	120	R	120	R	120	R
Calcium Nitrate, All	150	R	150	R	120	R
Calcium Oxide	150	R	150	R	NT	NT
Calcium Sulfate, Slurry	150	R	150	R	80	R
Calcium Sulfite, All	150	R	150	R	80	R
Calgon 25	NT	NT	NT	NT	NT	NT
Calignin Sulfate	NT	NT	NT	NT	NT	NT
Canola Oil (Canbra Foods)	120	R	120	R	100	R
Canola Oil, Crude (Canbra Foods)	120	R	120	R	100	R
Capric Acid, All	150	R	150	R	NR	NR
Caproic Acid 100%	120	R	120	R	120	R
Caprolactam	120	R	100	R	NT	NT
Caprylic Acid (Octanoic Acid)	150	R	150	R	NR	NR
Carbolic Acid (Phenol) 88%	100	R	100	R	NR	NR
Carbon Bisulfide (Di) Fumes, Wet	150	R	150	R	100	R
Carbon Dioxide Gas 75%	210	R	210	R	120	R
Carbon Disulfide 100%	NR	R	NR	R	NR	R
Carbon Monoxide Gas	150	R	150	R	120	R
Carbon Powder Activated	150	R	150	R	NT	NT
Carbon Tetrachloride	150	R	150	R	100	R
90% Carbon Tetrachloride; 10% Chloroform	NT	NT	NT	NT	NT	
Carbonic Acid (see Carbon Dioxide)	NT	NT	NT	NT	- NT	NT
Carbonic Acid (see Carbon Dioxide) Carbowax Polyether Glycol	150	R	150	R	NT	т
Carbowax Polyether Glycol Carboxyethyl Cellulose 10%	150	R	150	R	NT	NT
Cascade Detergent in Solution	150	R	150	R	NT	NT
Cascade Detergent in Solution	150	R	150	 R	120	R
Cation Exchange Water (see dimineralized)	NT		NT	NT	NT	NT
Cationic Polyacrylamide	NT	NT	NT	NT	100	R
Caustic Soda (see Sodium Hydroxide)	NT	NT	NT	NT	NT	NT
Caustic Socia (see Social Hydroxide)	NT	NT	NT	NT	NT	NT
Cellosolve	150	R	150	R	100	R
	120	R	120	R	100	
Cellosofve Acetate	NT	NT NT	NT	NT	NT	
Cherry Soda Concentrate 70%			150	R	100	R
Chlorobenzene	150	R			NT	NT
Chlor-Hydrocl Acid, Wet 8-10%	NT		NT	NT		
Chloro Nitrotoluene	NT	NT	NT	NT	NT	NT
Chlorinated Pulp	150	R	150	R	NT	NT
Chlorinated Wax, All	150	R	150	R	NT	NT
Chlorination Washer	150	R	150	R	NT NT	NT NT
Chlorinated Brine pH <2.5	150	R	150	R	P N f	INT

ARIZONA DEPARTMENT OF ENVIRONMENTAL QUALITY

JAN 15 2008

Chemical Environment and Concentration (%) Butyric Acid 50% Butyrolactone	Immersion	Secondary Containment	Immersion	Secondary Containment	Immersion	Secondary Containment
Butyrolactone	NR					
		NR	NR	NR	NR	NR
	NT	NT	NT	NT	NT	NT
Cadmium Chloride, All	NR	R	NR	R	NR	R
Cadmium Cyanide Plating Bath (4)	NR	R	120	R	120	R
Calcium Bisulfite, All	NR	R	120	R -	120	R
Calcium Bromide 10%	NT	NT	NT	NT	NŤ	NT
Calcium Carbonate, All	NR	R	100	R	100	R
Calcium Carbonate, Dry	NR	R	120	R	120	R
Calcium Carbonate, Saturated	NR	R	100	R	100	R
Calcium Chlorate, All	NT	NT	NT	NT	NT	NT
Calcium Chloride	NR	R	120	R	120	R
Calcium Chloride, Saturated	NR	R	120	R	120	R
Calcium Chloride 40%	NR	R	120	R	120	R
Calcium Chloride 50%	NR	R	120	R	120	R
Calcium Hydroxide (1, 2, 4, 7)	NR	R	120	R	120	R
Calcium Hydroxide 5% (1, 2, 4, 7)	NR	R	120	R	120	R
Catcium Hydroxide 10% (1, 2, 4, 7)	NR	R	120	R	120	R
Calcium Hydroxide 15% (1, 2, 4, 7)	NR	R	120	R	120	R
Calcium Hydroxide 25% (1, 2, 4, 7)	NR	R	120	R	120	R
Calcium Hydroxide 50% (1, 2, 4, 7)	NR	R	120	R	120	R
Calcium Hypochlorite (1, 2, 4, 7, 8)	NR	NR	NR	NR	NR	
Calcium Hypochlorite 1% (1, 2, 4, 7, 8)	NR	R	NR	R	NR	R
Calcium Hypochlorite 5% (1, 2, 4, 7, 8)	NR	R	NR	R	NR	R
Calcium Hypochlorite 15% (1, 2, 4, 7, 8)	NR	R	NR 100	NR	NR	NR
Calcium Lignosulfonate		R	100	R	100 NR	R
Calcium Nitrate, All	NR		NT	NT	NT	NT
Calcium Sulfate, Slurry	NR NR	R	80	R	NR	R
Calcium Sulfite, All	NR	R	NR	R	NR	R
Calgon 25	NT	NT NT	NT		NK	
Calignin Sulfate	NT	NT	INT	NT	NT NT	NT
Canola Oil (Canbra Foods)	NR	R	120	R	100	R
Canola Oil, Crude (Canbra Foods)	NR	R	120	R	100	R
Capric Acid, All	NR	NR	NR	NR	NR	NR
Caproic Acid 100%	NR	R	120	R	NR	R
Caprolactam	NT	NT	NT	NT	NT	NT
Caprylic Acid (Octanoic Acid)	NR	NR	NR	NR	NR	NR
Carbolic Acid (Phenol) 88%	NR	NR	NR	NR	NR	NR
Carbon Bisulfide (Di) Fumes, Wet	NR	R	100	R	100	R
Carbon Dioxide Gas 75%	ŇR	R	120	R	120	R
Carbon Disulfide 100%	NR	NR	NR	NR	NR	R
Carbon Monoxide Gas	NR	R	120	R	120	R
Carbon Powder Activated	NT	NT	NT	NT	NT	NT
Carbon Tetrachloride	NR	R	100	R	100	R
90% Carbon Tetrachloride; 10% Chloroform	NT	NT	NT	NT	NT	NT
Carbonic Acid (see Carbon Dioxide)	NT	NT	NT	NT	NT	NT
Carbowax Polyether Glycol	NT	NT	NT	NT	NT	NT
Carboxyethyl Cellulose 10%	NT	NT	NT	NT	NT	NT
Cascade Detergent in Solution	NT	NT	NT	NT	NT	NT
Castor Oil	NR	R	100	R	100	R
Cation Exchange Water (see dimineralized)	NT	NT	NT	NT	NT	NT
Cationic Polyacrylamide	NR	R	100	R	100	R
Caustic Soda (see Sodium Hydroxide)	NT	NT	NT	NT	NT	NT
Caustic Liquor	NT	NT	NT	NT	NT	NT
Cellosoive	NR	R	NR	R	100	R
Cellosolve Acetate	NR	NR	NR	NR	NR	R
Cherry Soda Concentrate 70%	NT	NT	NT	NT	NT	NT
Chlorobenzene	NR	R	NR	R	NR	R
Chlor-Hydrocl Acid, Wet 8-10%	NT	NT	NT	NT	NT	NT
Chloro Nitrotoluene	NT	NT	NT	NT	NT	NT
Chipsianted Bula	NT	NT	NT	NT	NT	NT
					A	1.17
Chlorinated Wax, All	NT	NT	NT	NT	NT	NT
Chlorinated Pulp Chlorinated Wax, All Chlorination Washer Chlorinated Brine pH <2.5		NT NT				NT

ARIZONA DEPARTMENT OF ENVIRONMENTAL QUALITY

JAN 15 2008

	EnviroLa	stic AR425 and AR200 HD	Fast-Clad ER		
Chemical Environment and Concentration (%)	Immersion	Secondary Containment	Immersion	Secondary Containment	
Butyric Acid 50%	NT	NT	NT	NT	
Butyrolactone	NT	NT NT	NT		
Cadmium Chloride, All	NT	NT	NT	NT	
Cadmium Cyanide Plating Bath (4)	NT	NT	NT	NT	
Calcium Bisulfite, All	NT	NT	NT ·	- NT	
Calcium Bromide 10%	NT	NT	NT	NT	
Calcium Carbonate, All	NT	NT	100	R	
Calcium Carbonate, Dry	NT	NT	100	R	
Calcium Carbonate, Saturated	NT	NT	100	R	
Calcium Chlorate, All	NT	NT	NT	NT	
Calcium Chloride	NT	NT	NT	NT	
Calcium Chloride, Saturated	NT	NT	80	R	
Calcium Chloride 40%	NT	NT	100	R	
Calcium Chloride 50%	NT	NT	100	R	
Calcium Hydroxide (1, 2, 4, 7)	NT NT	NT NT	100	R	
Calcium Hydroxide 5% (1, 2, 4, 7)	NT	NT	100	R	
Calcium Hydroxide 10% (1, 2, 4, 7) Calcium Hydroxide 15% (1, 2, 4, 7)	NT	NT	100	R	
Calcium Hydroxide 15% (1, 2, 4, 7)	NT	NT	100	R	
Calcium Hydroxide 50% (1, 2, 4, 7)			100	R	
Calcium Hypochlorite (1, 2, 4, 7, 8)	NT	NT	NT	NT	
Calcium Hypochiorite 1% (1, 2, 4, 7, 8)	NT	NT	NT	NT	
Calcium Hypochlorite 5% (1, 2, 4, 7, 8)	NT	NT	NT	NT	
Calcium Hypochlorite 15% (1, 2, 4, 7, 8)	NT	NT	NR	NR	
Calcium Lignosulfonate	NT	NT	100	R	
Calcium Nitrate, All	NT	NT	NT	NT	
Calcium Oxide	NT	NT	NT	NT	
Calcium Sulfate, Slurry	80	R	NT	NT	
Calcium Sulfite, All	NT	NT	NT	NT	
Calgon 25	NT	NT	80	R	
Calignin Sulfate	NT	NT	NT	NT	
Canola Oil (Canbra Foods)	80	R	100	R	
Canola Oil, Crude (Canbra Foods)	80	R	100	R NT	
Caproic Acid, All Caproic Acid 100%	NR	NR NT	NT NT	NT	
Caprolactam	NT		NT	NT	
Caprylic Acid (Octanoic Acid)	NT	NT	NT	NT	
Carbolic Acid (Phenol) 88%	NT	NT	NT	NT	
Carbon Bisulfide (Di) Fumes, Wet	NT	NT	NT	NT	
Carbon Dioxide Gas 75%	150	R	NT	NT	
Carbon Disulfide 100%	NR	R	NR	NR	
Carbon Monoxide Gas	150	R	NT	NT	
Carbon Powder Activated	80	R	NT	NT	
Carbon Tetrachloride	NR	NR	NT	NT	
90% Carbon Tetrachloride; 10% Chloroform	NT	NT	NT	NT	
Carbonic Acid (see Carbon Dioxide)	NT	NT	NT	NT	
Carbowax Polyether Glycol	NT	NT	NT	NT	
Carboxyethyl Cellulose 10%	NT	NT	NT	NT	
Cascade Detergent in Solution	NT	NT	NT	NT	
Castor Oil	120	R	80	R	
Cation Exchange Water (see dimineralized) Cationic Polyacrylamide	NT	NT	NT NT	NT.	
Caustic Soda (see Sodium Hydroxide)			100	R	
Caustic Soda (see Sodium Hydroxide)	NT	NT NT	NT	NT	
Cellosolve	NR	NR	NT	NT	
Cellosolve Acetate	NR	NR	NT	NT	
Cherry Soda Concentrate 70%	NT	NT	NT	NT	
Chlorobenzene	NR	NR	NT	NT	
Chlor-Hydrocl Acid, Wet 8-10%	NT	NT	NT	NT	
Chloro Nitrotoluene	NT	NT	NT	NT	
Chlorinated Pulp	NT	NT	NT	NT	
Chlorinated Wax, All	NT	NT	NT	NT	
Chlorination Washer	NT	NT	NT	NT	
Chlorinated Brine pH <2.5	NT	NT	NT	NT	
Chlorinated Brine pH 2.5 - 9.0	NT	NT	NT	NT	

ARIZONA DEPARTMENT OF ENVIRONMENTAL QUALITY

JAN 15 2008

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		ux 304 Vinyl Ester		-Glass FF	
Chemical Environment and Concentration (%)	Immersion	Secondary Containment	Immersion	Secondary Containment	
Butyric Acid 50%	120	R	NT	NT	
Butyrolactone	NT NT	NT	NT	NT	
Cadmium Chloride, Ali	140	R	NT	NT	
Cadmium Cyanide Plating Bath (4)	140	R	NT	NT	
Calcium Bisulfite, All	140	R	NT	NT	
Calcium Bromide 10%	140	R	NT	NT	
Calcium Carbonate, All	140	R	NT	NT	
Calcium Carbonate, Dry	140	R	NT	NT	
Calcium Carbonate, Saturated	140	R	NT	NT	
Calcium Chlorate, All	140	R	NT	NT	
Calcium Chloride	140	R	NT	NT	
Calcium Chloride, Saturated	140	R	NT	NT	
Calcium Chloride 40%	140	R	NT	NT	
Calcium Chloride 50%	140	R	NT	NT	
Calcium Hydroxide (1, 2, 4, 7)	140	R	NT	NT	
Calcium Hydroxide 5% (1, 2, 4, 7)	140	R	NT	NT	
Calcium Hydroxide 10% (1, 2, 4, 7)	140	R	NT	NT	
Calcium Hydroxide 15% (1, 2, 4, 7)	140	R	NT	NT	
Calcium Hydroxide 25% (1, 2, 4, 7)	140	R	NT	NT	
Calcium Hydroxide 50% (1, 2, 4, 7)	140	R	NT	NT	
Calcium Hypochlorite (1, 2, 4, 7, 8)	120	R	NT	NT	
Calcium Hypochlorite 1% (1, 2, 4, 7, 8)	120		NT	NT	
Calcium Hypochiorite 5% (1, 2, 4, 7, 8)	120	R	NT	NT	
Calcium Hypochlorite 15% (1, 2, 4, 7, 8)	120	R	NT	NT	
Calcium Lignosulfonate	120	R			
Calcium Nitrate, All	140	R		NT NT	
Calcium Oxide	140	R	NT	NT	
Calcium Sulfate, Slurry Calcium Sulfite, All	140	R	NT		
	140	R	NT	NT	
Calgon 25	NT			NT	
Canola Qil (Canbra Foods)	120	R	NT	- NT	
Canola Oil, Crude (Canbra Foods)	120	R	NT	INT	
Capric Acid, All	140	R	NT	NT	
Caproic Acid 100%	80	R	NT	NT	
Caprolactam	100	R	NT	NT	
Caprylic Acid (Octanoic Acid)	120	R	NT	NT	
Carbolic Acid (Phenol) 88%	100	R	NT	NT	
Carbon Bisulfide (Di) Fumes, Wet	NR	R	NT	NT	
Carbon Dioxide Gas 75%	140	R	NT	NT	
Carbon Disulfide 100%	NR	NR	NT	NT ·	
Carbon Monoxide Gas	140	R	NT	NT	
Carbon Powder Activated	140	NT	NT	NT	
Carbon Tetrachloride	120	R	NT	NT	
90% Carbon Tetrachloride; 10% Chloroform	NT	NT	NT	NT	
Carbonic Acid (see Carbon Dioxide)	NT	NT	NT	NT	
Carbowax Polyether Glycol	140	R	NT	NT	
Carboxyethyl Cellulose 10%	140	R	NT	NT	
Cascade Detergent in Solution	140	R	NT	NT	
Castor Oil	120	R	NT	NT	
Cation Exchange Water (see dimineralized)	NT	NT	NT	NT	
Cationic Polyacrylamide	NT	NT	NT	NT	
Caustic Soda (see Sodium Hydroxide)	NT	NT	NT	NT	
Caustic Liquor	NT	NT	NT	NT	
Cellosolve	120	R	NT	NT	
Cellosolve Acetate	NR	NR	NT	NT	
Cherry Soda Concentrate 70%	NT	NT	NT	NT	
Chlorobenzene	140	NR	NT	NT	
Chlor-Hydrocl Acid, Wet 8-10%	NT	NT	NT	NT	
Chloro Nitrotoluene	NT	NT	NT	NT	
Chlorinated Pulp	140	R	NT	NT	
Chiorinated Wax, All	140	R	NT	NT	
Chlorination Washer	140	R	NT	NT	
Chlorinated Brine pH <2.5	140	R	NT	NT	
Chlorinated Brine pH 2.5 - 9.0	NR	R	NT	NT	

ARIZONA DEPARTMENT OF

JAN 15 2008

Waste Programs Div.

	Cor-Co	te VEN FF	Cor-Co	te VEN GF	Cor-Co	ote HCR FF
		Secondary		Secondary		Secondary
Chemical Environment and Concentration (%)	Immersion	Containment	Immersion	Containment	Immersion	Containment
Chlorinated Brine pH >9.0 (4, 8, 9)	120	R	120	R	NT	NT
Chlorine Dioxide, Chlorine Bleach	150	R	150	R	NT NR	R
Chlorine Dioxide Generator Chlorine Dioxide Scrubber (4, 8, 9)	150 NR	NR	150 NR	NR		
Chlorine Dioxide, Wet, Saturated	150	R	150	R	NT	NT NT
Chlorine Dioxide (solution storage)	70	R	70	R	NR	NR
Chlorine Water pH <2.5	150	R	150	R	80	R
Chlorine Water pH 2.5 - 9.0	NR	R	NR	R	80	R
Chlorine Water pH >9.0 (4, 8, 9)	120	R	120	R	80	R
Chlorine, Dry Gas (fumes only) (5, 9)	150	R	150	R	NR	NR
Chlorine, Wet Gas (fumes only) (5, 9)	150	R	150	R	NR	NR
Chloroacetic Acid 25%	120	R	120	R	NR	R
Chloroacetic Acid 26% - 50%	120	R	120	R	NR	R
Chloroacetic Acid 51% - 85%	NR	R	NR	R	NR	NR
Chloroacetic Acid 86% - 100%	NR	R	NR	R	NR	
Chlorobenzene	100	R	100	R	100	R
Chlorobutane	120	R	120	R	100	
Chloroputane Chloroethene SM 111-Tri	120		120	R	100	R
Chloroform	100	R	100	R	NR	R
Chlorophenol	NR		NR	NR	NR	R
3-Chloropropene	NT	NT	NT	NT	NT	NT
2-Chloro 4-Nitrotoluene	100	R	100	R	NR	R
Chloropyridine (tetra)	120	R	120	R	NT	NT
Chlorosulfonic Acid 10%	NR	NR	NR	NR	NR	R
Chlorothene (see 1,1,1 Trichlorethane)	NT	NT	NT	NT	NT	NT
Chlorotoluene	120	R	120	R	NR	R
Chlorotoluene 10%	NT	NT	NT	NT	NR	R
Chloro-a-Talyl 10%	120	R	120	R	NT	
Chromated Copper Arsenate 3%	80	R	80	R	100	R
Chromated Copper Arsenate 4%	80	R	80	R	100	
Chromated Copper Arsenate 10%	80 80	R	80	R	100	R
Chromated Copper Arsenate 50% Chrome Bath, 19% Chromic Acid with Sodium Fluosili		R	150	R	NT	NT
Chrome Plating 20-48 oz/gal (1, 2, 4, 7)	NR	 R	NR	R	NR	NR
Chromic Acid 5%	100	R	100	R	NR	R
Chromic Acid 10%	100	R	100	R	NR	R
Chromic Acid 20%	100	R	100	R	NR	NR
Chromic Acid 25%	NR	R	NR	R	NR	NR
Chromic Acid 30%	NR	R	NR	R	NR	NR
Chromic Acid 40%	NR	R	NR	R	NR	NR
Chromic Acid 41% - 75%	NR	NR	NR	NR	NR	NR
Chromic Chloride	150	R	150	R	120	R
Chromium Plate	120	R	120	R	NT	
Chromium Sulfate, All	150		150	R	NT NT	
Chromium Acid/Sulfuric Acid Mix 10% Chromium Trioxide, Dry	150 NT	R NT	NT		NT	NT
Citric Acid, All	150	R	150	R	120	R
Citric Acid 5%	150	R	150	R	120	R
Citric Acid 10%	150	R	150	R	120	R
Citric Acid 25%	150	R	150	R	120	R
Citric Acid 35%	150	R	150	R	120	R
Citric Acid 40%	150	R	150	R	120	R
Citric Acid 50%	150	R	150	R	120	R
Clay, Saturated	150	R	150	R	120	R
Clopidol (Coydenô), All	80	R	80	R	NT	NT
Cobalt Acetate 40%	NT	R	NT	R	NT	R
Cobalt Chloride, All	150	R	150	R	NT	
Cobalt Citrate 12%	150		150		NT	NT
Cobalt Nitrate 15%	150	R	150	R	NT NT	NT NT
Coconut Oil, All	150	R	150	R	NT	NT
Cod Liver Oil	NR	<u></u>		R	NR	R
Coffee Instant Freeze Dried 26%						
Coffee, Instant Freeze Dried 26% Cola Concentrate, Coke	NR NR		NR	R R	NR	R

ARIZONA DEPARTMENT OF ENVIRONMENTAL QUALITY

JAN 15 2008

	Cor-	Cote HP	Cor-Co	te HP FF	Cor	-Cote SC
		Secondary		Secondary		Secondary
Chemical Environment and Concentration (%)	Immersion	Containment	Immersion	Containment	Immersion	Containment
Chlorinated Brine pH >9.0 (4, 8, 9)	NT	NT	NT	NT	NT	NT
Chlorine Dioxide, Chlorine Bleach	NT	NT	NT	NT	NT	NT
Chlorine Dioxide Generator	NR	NR	NR	NR	NR	NR
Chlorine Dioxide Scrubber (4, 8, 9)	NT	NT	NT	NT	NT	NT
Chlorine Dioxide, Wet, Saturated	NT	NT	NT	NT -	-NT	NT
Chlorine Dioxide (solution storage)	NR	NR	NR	NR	NR	NR
Chlorine Water pH <2.5	NR	NR	NR	NR	NR	NR
Chlorine Water pH 2.5 - 9.0	NR	NR	NR	NR	NR	NR
Chlorine Water pH >9.0 (4, 8, 9)	NR	NR	NR	NR	NR	NR
Chlorine, Dry Gas (fumes only) (5, 9)	NR	NR	NR NR	NR	NR	NR
Chlorine, Wet Gas (fumes only) (5, 9) Chloroacetic Acid 25%	NR	NR		NR NR	NR	NR NR
Chloroacetic Acid 25%	NR	NR	NR	NR NR	NR	NR NR
Chloroacetic Acid 51% - 85%	NR	NR	NR .	NR	NR	NR
Chloroacetic Acid 86% - 100%	NR	NR	NR	NR	NR	NR
Chlorobenzene	NR	R	100	R	100	R
Chlorobenzene (Mono)	NR	R	100	R	100	R
Chlorobutane	NR	R	NR	R	NR	R
Chloroethene SM 111-Tri	NR	R	NR	R	NR	R
Chloroform	NR	R	NR	R	NR	R
Chlorophenol	NR	R	NR	R	NR	NR
3-Chloropropene	INT	NT	NT	NT	NT	NT
2-Chloro 4-Nitrotoluene	NR	NR	NR	NR	NR	R
Chloropyridine (tetra)	NT	NT	NT	NT	NT	NT
Chlorosulfonic Acid 10%	NR	NR	NR	NR	NR	NR
Chlorothene (see 1,1,1 Trichlorethane)	NT NR	NT	NT NR	NT	NT NR	R
Chlorotoluene 10%	NR	NR	NR	NR NR	NR	R
Chloro-o-Tolyl 10%	NT	INT		NT NT	NT	
Chromated Copper Arsenate 3%	NR	R	NR	R	NR	R
Chromated Copper Arsenate 4%	NR	R	NR	R	NR	R
Chromated Copper Arsenate 10%	NR	R	NR	R	NR	R
Chromated Copper Arsenate 50%	NR	R	NR	R	NR	R
Chrome Bath, 19% Chromic Acid with Sodium Fluosil	ica NT	NT	NT	NT	NT	NT
Chrome Plating 20-48 oz/gal (1, 2, 4, 7)	ŇR	NR	NR	NR	NR	NR
Chromic Acid 5%	NR	R	NR	R	NR	R
Chromic Acid 10%	NR	R	NR	R	NR	R
Chromic Acid 20%	NR	NR	NR	NR	NR	NR
Chromic Acid 25%	NR	NR	NR	NR	NR	NR
Chromic Acid 30%	NR	NR	NR	NR	NR	. NR
Chromic Acid 40%	NR	NR NR	NR NR	NR NR	NR	NR
Chromic Acid 41% - 75% Chromic Chloride	NR NR	R	120	R	NR 120	R
Chromium Plate	INT	NT	NT	NT NT	NT NT	
Chromium Sulfate, All	NT	NT	NT	NT	NT	
Chromium Acid/Sulfuric Acid Mix 10%	NT	NT	NT	INT	NT	NT
Chromium Trioxide, Dry	NT	NT	NT	NT	NT	NT
Citric Acid, All	NR	R	120	R	120	R
Citric Acid 5%	NR	R	120	R	120	R
Citric Acid 10%	NR	R	120	R	120	R
Citric Acid 25%	NR	R	120	R	120	R
Citric Acid 35%	NR	R	120	R	120	R
Citric Acid 40%	NR	R	120	R	120	R
Citric Acid 50%	NR	R	120	R	120	R
Clay, Saturated	NR	R	120	R	120	R
Clopidol (Coydenő), All	NT	NT	NT	NT	NT	
Cobalt Acetate 40%	NR	R NT	NT NT	R NT	NR NT	R NT
Cobalt Chloride, All Cobalt Citrate 12%	NT		NT		NT	
Cobalt Citrate 12%			NT		NT	NT
Coconut Oil, All	NT	NT	NT	NT	NT	NT
Cod Liver Oil	NT	NT NT	NT	NT	NT NT	NT
Coffee, Instant Freeze Dried 26%		R	NR	R	NR	R
Cola Concentrate, Coke	NR	R	NR	R	NR	R
Cola Concentrate, RC	NR	R	NR	R	NR ·	R

ARIZONA DEPARTMENT OF ENVIRONMENTAL QUALITY

JAN 15 2008

	EnviroLa	stic AR425 and AR200 HD	Fast-Clad ER		
Chemical Environment and Concentration (%)	Immersion	Secondary Containment	Immersion	Secondary Containment	
Chlorinated Brine pH >9.0 (4, 8, 9)	NT	NT	NT	NT	
Chlorine Dioxide, Chlorine Bleach	NT	NT	NT	NT	
Chlorine Dioxide Generator	NT	NT	NT	NT	
Chlorine Dioxide Scrubber (4, 8, 9)	NT	NT	NT	NT	
Chlorine Dioxide, Wet, Saturated	NT	NT	NT	NT	
Chlorine Dioxide (solution storage)	NT	NT	NT	NT	
Chlorine Water pH <2.5	80	R	NT	NT	
Chlorine Water pH 2.5 - 9.0	NR	NR	NT NT		
Chlorine Water pH >9.0 (4, 8, 9) Chlorine, Dry Gas (fumes only) (5, 9)	NR NT	NR	NT	NT	
Chlorine, Wet Gas (fumes only) (5, 9)		NT	NT	NT	
Chloroacetic Acid 25%	NR	NR	NT	NT	
Chloroacetic Acid 26% - 50%	NR	NR	NT	NT	
Chloroacetic Acid 51% - 85%	NT	NT	NT	NT	
Chloroacetic Acid 86% - 100%	NR	NR	NT	NT	
Chlorobenzene	NR	NR	NR	R	
Chiorobenzene (Mono)	NR	NR	NT	NT	
Chlorobutane	NR	NR	NT	NT	
Chloroethene SM 111-Tri	NR	NR	NT	NT	
Chloroform	NR	NR	NT	NT	
Chlorophenol	NR	NR	NT	NT	
3-Chloropropene	NT	NT NR	NT		
2-Chloro 4-Nitrotoluene	NR	NR	NT		
Chloropyridine (tetra) Chlorosulfonic Acid 10%	NR NR	NR	NT	NT	
Chlorothene (see 1,1,1 Trichlorethane)	NT NT		NT	NT	
Chlorotoluene	NR	NR	NT	NT	
Chlorotoluene 10%	NR	NR	NT	NT	
Chloro-o-Toiyl 10%	NT	NT	NT	NT	
Chromated Copper Arsenate 3%	NT	NT	NT	NT	
Chromated Copper Arsenate 4%	NT	NT	NT	NT	
Chromated Copper Arsenate 10%	NT	NT	NT	NT	
Chromated Copper Arsenate 50%	NT	NT	NT	NT	
Chrome Bath, 19% Chromic Acid with Sodium Fluos		NT	TM	NT	
Chrome Plating 20-48 oz/gal (1, 2, 4, 7)	NT	NT	NT	NT	
Chromic Acid 5%	NR	NR	NT	NT	
Chromic Acid 10%	NR	NR	NR	R	
Chromic Acid 20%	NR	NR	NT	NT NT	
Chromic Acid 25% Chromic Acid 30%	NR NR	NR NR	NT NT		
Chromic Acid 30%	NR	NR	NT	NT	
Chromic Acid 41% - 75%	NR		NT	NT	
Chromic Chloride	NR	NR	NT	NT	
Chromium Plate	NR	NR	NT	NT	
Chromium Sulfate, All	NT	NT	NT	NT	
Chromium Acid/Sulfuric Acid Mix 10%	NT	NT	NT	NT	
Chromium Trioxide, Dry	NT	NT	NT	NT	
Citric Acid, All	NT	R	NT	NT	
Citric Acid 5%	NT	R	100	R	
Citric Acid 10%	NT	R	100	R	
Citric Acid 25%	NT	R	100	R	
Citric Acid 35%	NT	R	100	R	
Citric Acid 40%	NT	R	100	R	
Citric Acid 50%	NT NT	NT	100	R	
Clay, Saturated Clopidol (Coydenô), All	NT		INT	NT	
Cobalt Acetate 40%	NT NT	NT	NT	NT	
Cobalt Chloride, All	NT	NT	NT	NT	
Cobalt Citrate 12%	NT	NT	NT	NT	
Cobalt Nitrate 15%	NT	NT	NT	NT	
Coconut Oil, All	NT	NT	80	R	
Cod Liver Oil	NT	NT	NT	NT	
Coffee, Instant Freeze Dried 26%	NR	NT	NT	NT	
Cola Concentrate, Coke	NR	NT	NT	NT	
Cola Concentrate, RC	NR	TNT	NT	NT	

ARIZONA DEPARTMENT OF ENVIRONMENTAL QUALITY

JAN 15 2008

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	Magnal	ux 304 Vinyl Ester	Sher-Glass FF		
		Secondary		Secondary	
Chemical Environment and Concentration (%)	Immersion	Containment	Immersion	Containment	
Chlorinated Brine pH >9.0 (4, 8, 9)	140	R	NT	NT	
Chlorine Dioxide, Chlorine Bleach	140	R	NT	NT	
Chlorine Dioxide Generator	140	R	NT	NT	
Chlorine Dioxide Scrubber (4, 8, 9) Chlorine Dioxide, Wet, Saturated	140 140	R	NT NT	NT - ~~	
Chlorine Dioxide, Wet, Saturated	70	R	NT	NT	
Chlorine Water pH <2.5	140	- R		NT	
Chlorine Water pH 2.5 - 9.0	NR	R	NT	NT	
Chlorine Water pH >9.0 (4, 8, 9)	140	R	NT	NT	
Chlorine, Dry Gas (fumes only) (5, 9)	140	R	NT	NT	
Chlorine, Wet Gas (fumes only) (5, 9)	140	R	NT	NT	
Chloroacetic Acid 25%	120	R	NT	NT	
Chloroacetic Acid 26% - 50%	100	R	NT	NT	
Chloroacetic Acid 51% - 85%	NR	R	NT	NT	
Chloroacetic Acid 86% - 100%	NR	NR	NT	NT	
Chlorobenzene	NR	NR	• NT		
Chlorobenzene (Mono) Chlorobutane	NR 120		NT		
Chloroputane Chloroputane SM 111-Tri	120		NT NT	NT	
Chloroform	NR	INR	NT	NT	
Chlorophenol	NR	NR	NT	NT	
3-Chloropropene	NT	NT	NT	NT	
2-Chloro 4-Nitrotoluene	80	R	NT	NT	
Chloropyridine (tetra)	80	R	NT	NT	
Chlorosulfonic Acid 10%	NR	NR	NT	NT	
Chlorothene (see 1,1,1 Trichlorethane)	NT	NT	NT	NT	
Chlorotoluene	NR	R	NT	NT	
Chlorotoluene 10%	NT	NT	NT	NT	
Chloro-o-Toiyi 10%	140	R	NT	NT	
Chromated Copper Arsenate 3%	80	R	NT	NT	
Chromated Copper Arsenate 4%	80	R	NT	NT	
Chromated Copper Arsenate 10%	80	R	NT	NT NT	
Chromated Copper Arsenate 50% Chrome Bath, 19% Chromic Acid with Sodium Fluosilik		R	NT	NT	
Chrome Plating 20-48 oz/gal (1, 2, 4, 7)	NR	NR	NT	INT	
Chromic Acid 5%	NR	NR	NT	NT	
Chromic Acid 10%	NR	NR	NT	NT	
Chromic Acid 20%	NR	NR	NT	NT	
Chromic Acid 25%	NR	R	NT	NT	
Chromic Acid 30%	NR	R	NŤ	NT	
Chromic Acid 40%	NR	NR	NT	NT	
Chromic Acid 41% - 75%	NR	NR	NT	NT	
Chromic Chloride	140	R	NT	NT	
Chromium Plate	140	R	NT	NT	
Chromium Sulfate, All	140	R	NT NT	NT	
Chromium Acid/Sulfuric Acid Mix 10%	140		NT		
Chromium Trioxide, Dry	140	R	NT	NT	
Citric Acid, All Citric Acid 5%	140	R	NT	NT NT	
Citric Acid 5%	140	R	NŤ	NT NT	
Citric Acid 25%	140	R	NT	NT	
Citric Acid 35%	140	R	NT	NT	
Citric Acid 40%	140	R	NT	NT	
Citric Acid 50%	140	R	NT	NT	
Clay, Saturated	140	R	NT	NT	
Clopidol (Coydenô), All	NR	R	NT	NT	
Cobalt Acetate 40%	NT	R	NT	NT	
Cobalt Chloride, All	140	R	NT	NT	
Cobalt Citrate 12%	140	R	NT	NT	
Cobalt Nitrate 15%	140	R	NT	NT	
Coconut Oil, All	140	R	NT	NT	
Cod Liver Oil	80	R	NT	NT	
Coffee, Instant Freeze Dried 26%	NR	R	NT NT		
Cola Concentrate, Coke					

ARIZONA DEPARTMENT OF ENVIRONMENTAL QUALITY

JAN 15 2008

	Cor-Cote VEN FF		Cor-Cote VEN GF		Cor-C	te HCR FF
Chemical Environment and Concentration (%)	Immersion	Secondary Containment	Immersion	Secondary Containment	Immersion	Secondary Containment
Condensed Milk	NR	R	NR	R	NR	R
Continue Etch Solvent	NT	NT	NT	NT	NT	ŃT
Conveyor Lube	NT	NT	NT	NT	NT	NT
Copper Acetate 50%	NT	NT	NT	NT	NT	NT
Copper Chloride, All	150	R	150	R	80	R
Copper Chloride 50%	150	R	150	R	80	R
Copper Chromate Arsenic 4%	80	R	80	R	100	R
Copper Cyanide, All	150	R	150	R	120	R
Copper Cyanide, Potassium	80	R	80	R	120	R
Copper Liquor	NT	NT	NT	NT	NT	NT
Copper Matte, 30% FeCI3, 19% HCL (3, 5, 6)	150	R	150	R	NT	NT
Copper Nitrate, All	150	R	150	R	80 -	R
Copper Plating, Cyanide	120	R	120	R	120	R
Copper Plating, Acid (4)	150	R	150	R	100	R
Copper Sulfate, All	150	R	150	R	80	R
Corn Oil	150	R	150	R	100	R
Corn Steep Liquor	NR	R	NR	R	100	R
Corn Starch	NR	R	NR	R	100	R
Corn Syrup	NR	R	NR	R	100	R
Cottonseed Oil	150	R	150	R	100	R
Cresol (Cresylic Acid)	NR	NR	NR	NR	NR	NR
Crude Oil, Sour	150	R	150	R	120	R
Crude Oil, Sweet	150	R	150	R	120	R
Crude Oil/Sea Water, 50/50	150	R	150	R	120	R
Cumene	120	R	120	R	100	R
Cupric and Cuprous Acetate	NT	NT	NT	NT	NT	NT
Cupric and Cuprous Chloride	150	R	150	R	NT	NT
Cupric and Cuprous Cyanide	120	Ŕ	120	R	120	R
Cupric and Cuprous Nitrate	150	R	150	R	NT	NT
Cupric and Cuprous Sulphate	150	R	150	R	NT	NT
Cyanide	80	R	80	R	NR	R
Cyanide Disposal (Hypo) (see Sodium Thiosulfite)	NT	NT	NT	NT	NT	NT
Cyclohexane	150	R	150	R	100	R
Cyclohexanone	120	R	120	R	NR	<u>R</u>
Cyclohexene	NT	NT	NT	NT	NT	NT
Cyclohexylamine	100	R	100	R	NT	NT
Cymene	120	R	120	R	100	R
Dalapon Grass Killer	100	R	100	R	NT	NT
Dash Herbicide	100	R	100	R	100	R
Diacetone Alcohol	80	R	80	R	80	R
Decanoic Acid, All	150	R	150	R	NT	NT
Decanol 100%	150	R	150	R	80	R
Decyl Alcohol (1-Decanol)	150	R	150	R	80	R
Demon EC Insecticide	NT	NT	NT	NT	NT	NT
Desmophen 670-90	NT	NT	NT	NT	NT	NT
Desmophen 800	NT	NT	NT	NT	NT	NT
Detergents, Sulfonated 100%	150	R	150	R	NT	NT
Detergents, Organic pH 12 100%	150	R	150	R	NT	NT
Detergents, Organic pH 9,11, All	150	R	150	R	NT	NT
Detergents, Paste	150	R	150	R	NT	NT
Detergents 1%	150	R	150	R	NT	NT
Dextrose	150	R	150	R	120	R
Diallyl Phthalate	150	R	150	R	NT	NT
Diaminopropane	NT	NT	NT	NT	NT	NT
Diammonium Phosphate 65%	150	R	150	R	NT	NT
Diatomaceous Earth	NT	NT	NT	NT	NT	NT
Dibromo Dichloroethane	NT	NT	NT	NT	NT	NT
Dibromoethane	NT	NT	NT	NT	NT	NT
Dibromophenol	100	R	100	R	NT	NT
Dibromopropane	100	R	100	R	NT	NT
Dibromopropane Phosphate	100	R	100	R	80	R
Dibromopropanol	100	R	100	R	NT	NT
Dibutyl Carbitol	100	R	100	R	NT	NT
Dibutyl Ether	150	R	150	R	NT	NT
Dibutyl Phthalate	150	R	150	R	120 ·	R

ARIZONA DEPARTMENT OF ENVIRONMENTAL QUALITY

JAN 15 2008

Waste Programs Div. Permits Section

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	Cor-Cote HP FF		Cor-Cote SC			
		Secondary		Secondary		Secondary
Chemical Environment and Concentration (%)	Immersion	Containment	Immersion	Containment	Immersion	Containment
Condensed Milk	NR	R	NR	R	NR	R
Continue Etch Solvent	NT	NT	NT	NT	NT	NT
Conveyor Lube	NT	NT	NT	NT	NT	NT
Copper Acetate 50%	NT	NT	NT	NT	NT	NT
Copper Chloride, All	NR	R	80	R	TNR	R
Copper Chloride 50%	NR	R	80	R	NR	R
Copper Chromate Arsenic 4%	NR	R	NR	R	NR 100	R
Copper Cyanide, All	NR NR	R	100	R	100	R .
Copper Cyanide, Potassium Copper Liquor	NR NT	NT	NT		NT	NT NT
Copper Matte, 30% FeCI3, 19% HCL (3, 5, 6)		NT	NT	NT	NT	NT
Copper Nitrate, All	NR	R	NR	R	NR	R
Copper Plating, Cyanide	NR	R	100	R	100	R
Copper Plating, Acid (4)	NR	R	100	R	100	R
Copper Sulfate, All	NR	R	80	R	NR	R
Corn Oil	NR	R	100	R	100	R
Corn Steep Liquor	NR	R	NR	R	NR	R
Corn Starch	NR	R	100	R	100	R
Corn Syrup	NR	R	100	R	100	R
Cottonseed Oil	NR	R	100	R	100	R
Cresol (Cresylic Acid)	NR	NR	NR	NR	NR	NR
Crude Oil, Sour	NR	NR	NR	NR	NR	NR
Crude Oil, Sweet	NR	NR	NR	NR	NR	NR
Crude Oil/Sea Water, 50/50	NR	NR	NR 120	NR R	NR 120	 R
Cumene Cupric and Cuprous Acetate	NR NT	R NT	NT	NT	NT	NT
Cupric and Cuprous Chloride	NT	NT	NT	NT	NT	NT
Cupric and Cuprous Cyanide	NR	R	100	R	100	R
Cupric and Cuprous Nitrate	NT	NT	INT	NT	NT	NT
Cupric and Cuprous Sulphate	NT	NT	NT	NT	NT	NT
Cyanide	NR	R	NR	R	NR	R
Cyanide Disposal (Hypo) (see Sodium Thiosulfite)	NT	NT	NT	NT	NT	NT
Cyclohexane	NR	R	NR	R	NR	R
Cyclohexanone	NR	R	NR	R	NR	R
Cyclohexene	NT	NT	NT	NT	NT	NT
Cyclohexylamine	NT	NT	NT	NT	NT	NT
Cymene	NR	R	NR	R	NR	R
Dalapon Grass Killer	NT	NT	NT	NT	NT	NT
Dash Herbicide	NR	R	100	R	100	R
Diacetone Alcohol	NR	R	80 NT	R	NR NT	R NT
Decanoic Acid, All Decanol 100%	NR	R	80	R	80	R
Decyl Alcohol (1-Decanol)	NR	R	80	R	80	R
Demon EC Insecticide	NR	R	100	R	100	R
Desmophen 670-90	NT	NT	NT	NT	NT	NT NT
Desmophen 800	NT -	NT	NT	NT	NT	NT
Detergents, Sulfonated 100%	NT	NT	NT	NT	NT	NT
Detergents, Organic pH 12 100%	NT	NT	NT	NT	NT	NT
Detergents, Organic pH 9,11, All	NT	NT	NT	NT	NT	NT
Detergents, Paste	NT	NT	NT	NŢ	NT	NT
Detergents 1%	NT	NT	NT	NT	NT	NT
Dextrose	NR	R	120	R	120	R
Diallyl Phthalate	NT	NT	NT	NT	NT	NT
Diaminopropane	NT	NT	NT	NT	NT	NT
Diammonium Phosphate 65%	NT	NT	NT	NT NT	NT	NT
Diatomaceous Earth	NT	NT NT	NT NT		NT NT	NT NT
Dibromo Dichloroethane Dibromoethane		NT	NT	NT	INT	
Dibromoethane	NT NT		NT	NT	NT	NT
Dibromopropane	NT	NT	NT		NT	NT
Dibromopropane Phosphate	NR	R	80	R	80	R
Dibromopropanol	NT -	NT	NT	NT	NT	NT
Dibutyl Carbitol	NT	NT	NT	NT	NT	NT
Dibutyl Ether	NT	NT	NT	NT	NT	NT
Dibutyl Phthalate	NR	R	120	R	NR	R

ARIZONA DEPARTMENT OF ENVIRONMENTAL QUALITY

JAN 15 2008

	EnviroLa	stic AR425 and AR200 HD	Fast-Clad ER		
Chemical Environment and Concentration (%)	Immersion	Secondary Containment	Immersion	Secondary Containment	
Condensed Milk	NR	NT	NT	NT	
Continue Etch Solvent	NT NT	NT	NT	NT	
Conveyor Lube	NT	NT	NT	NT	
Copper Acetate 50%	NT	NT	NT	NT	
Copper Chloride, All	NT	NT	NT -	NT	
Copper Chloride 50%	NT	NT	NT	NT	
Copper Chromate Arsenic 4%	NT	NT	NT	NT	
Copper Cyanide, All	NT	. NT	NT	NT	
Copper Cyanide, Potassium	NT	NT	NT	NT	
Copper Liquor	NT	NT	NT	NT	
Copper Matte, 30% FeCI3, 19% HCL (3, 5, 6)	NT	NT	NT	NT	
Copper Nitrate, All Copper Plating, Cyanide	NT	NT NT	NT NT	NT NT	
Copper Plating, Acid (4)	NT	NT	NT	NT NT	
Copper Sulfate, Ali	NT	NT	NT	NT	
Corn Oil	NT	NT	140	R	
Corn Steep Liquor	NT	NT	NT		
Corn Starch	NT	NT	NT	NT	
Corn Syrup	NT	NT	140	R	
Cottonseed Oil	NT	NT	80	R	
Cresol (Cresylic Acid)	NT	NT	NT	NT	
Crude Oil, Sour	NT	NT	120	R	
Crude Oil, Sweet	NT	NT	120	R	
Crude Dil/Sea Water, 50/50	NT	NT	120	R	
Ситепе	NT	NT	80	R	
Cupric and Cuprous Acetate	NT	NT	NT	NT	
Cupric and Cuprous Chloride	NT	NT	NT	R	
Cupric and Cuprous Cyanide	NT	NT	NT	NT	
Cupric and Cuprous Nitrate	NT	NT	NT	NT	
Cupric and Cuprous Sulphate	NT	NT	NT	NT	
Cyanide	NT	NT	NT	NT	
Cyanide Disposal (Hypo) (see Sodium Thiosulfite) Cyclohexane	NT NT	NT NT	NT 100	NT	
Cyclohexanone			NT	R	
Cyclohexane	NT		NR	R	
Cyclohexylamine	NT	NT NT	NR	NR	
Cymene	NT	NT	NT	NT	
Dalapon Grass Killer	NT	NT	NT	NT	
Dash Herbicide	NT	NT	100	R	
Diacetone Alcohol	NT	NT	NT	NT	
Decanoic Acid, All	NT	NT	NT	NT	
Decanol 100%	NT	NT	NT	NT	
Decyl Alcohol (1-Decanol)	NT	NT	NT	NT	
Demon EC Insecticide	NT	NT	100	R	
Desmophen 670-90	NT	NT	120	R	
Desmophen 800	NT	NT	120	R	
Detergents, Sulfonated 100%	NT	NT	NT	NT	
Detergents, Organic pH 12 100%	NT	NT	NT	NT	
Detergents, Organic pH 9,11, All	NT		NT	NT	
Detergents, Paste	NT	NT	NT NT	NT	
Dextrose	80	R	NT NT	NT NT	
Diallyl Phthalate	NT	NT	NT	NT	
Diaminopropane	NT	NT	NT	NT	
Diammonium Phosphate 65%	NT	NT	NT	NT	
Diatomaceous Earth	NT	NT	NT	NT	
Dibromo Dichloroethane	NT	NT	NT	NT	
Dibromoethane	NT	NT	NT	NT	
Dibromophenol	NT	NT	NT	NT	
Dibromopropane	NT	NT	NT	NT	
Dibromopropane Phosphate	NT	NT	NT	NT	
Dibromopropanol	NT	NT	NT	NT	
Dibutyl Carbitol	NT	NT	NT	NT	
Dibutyl Ether	NR	NT	NT	NT	
Dibutyl Phthalate	NR	NR	NT	NT.	

ARIZONA DEPARTMENT OF ENVIRONMENTAL QUALITY

JAN 15 2008

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	Magnal	ux 304 Vinyl Ester	Sher-Glass FF		
		Secondary		Secondary	
Chemical Environment and Concentration (%)	Immersion	Containment	Immersion	Containment	
Condensed Milk	NR	R	NT	NT	
Continue Etch Solvent	NT	NT	NT	NT	
Conveyor Lube	NT	NT	NT	NT	
Copper Acetate 50%	NT	NT	NT	NT	
Copper Chloride, All	140	 	NT	NT · ····	
Copper Chloride 50% Copper Chromate Arsenic 4%	140 80	R	NT	NT NT	
Copper Cyanide, All	140	R	NT	INT	
Copper Cyanide, Potassium	140	R	NT	NT	
Copper Liquor	NT	NT	NT	NT	
Copper Matte, 30% FeCI3, 19% HCL (3, 5, 6)	140	R	NT	NT	
Copper Nitrate, All	140	R	NT	NT	
Copper Plating, Cyanide	120	R	NT	NT	
Copper Plating, Acid (4)	120	R	NT	NT	
Copper Sulfate, All	140	R	NT	NT	
Corn Oil	140	R	NT	NT	
Corn Steep Liquor	140	R	NT		
Corn Starch	140	R	NT		
Corn Syrup Cottonseed Oil	140	R	NT		
Cresol (Cresylic Acid)	140 NR	NR	NT		
Crude Oil, Sour	140	R	120		
Crude Oil, Sweet	140	R	120	R	
Crude Oil/Sea Water, 50/50	140	R	NT	NT	
Cumene	120	R	NT	NT	
Cupric and Cuprous Acetate	NT	NT	NT	NT	
Cupric and Cuprous Chloride	140	R	NT	NT	
Cupric and Cuprous Cyanide	140	R	NT	ŇT	
Cupric and Cuprous Nitrate	140	R	NT	NT	
Cupric and Cuprous Sulphate	140	R	NT	NT	
Cyanide	80	R	NT	NT	
Cyanide Disposal (Hypo) (see Sodium Thiosulfite) Cyclohexane	NT 120	R	NT NT	NT	
Cyclohexanore	100	R	NT NT	NT	
Cyclohexene	INT		NT	NT NT	
Cyclohexylamine	NR	NR	NT	NT	
Cymene	120	R	NT	NT	
Dalapon Grass Killer	NR	NR	NT	NT	
Dash Herbicide	80	R	NT	NT	
Diacetone Alcohol	NR	R	NT	NT	
Decanoic Acid, All	140	R	NT	NT	
Decanol 100%	140	R	NT	NT	
Decyl Alcohol (1-Decanol)	140	R	NT	NT	
Demon EC Insecticide	NT		NT	NT	
Desmophen 670-90 Desmophen 800	NT NT	NT NT			
Detergents, Sulfonated 100%	140	R	NT		
Detergents, Organic pH 12 100%	140	R	NT	NT	
Detergents, Organic pH 9,11, All	140	R	NT	NT	
Detergents, Paste	140	R	NT	NT	
Detergents 1%	140	R	NT	NT	
Dextrose	140	R	NT	NT	
Dially! Phthalate	140	R	NT	NT	
Diaminopropane	NT	NT	NT	NT	
Diammonium Phosphate 65%	140	R	NT	NT	
Diatomaceous Earth	NT	NT	NT	NT	
Dibromo Dichloroethane	NT	NT	NT	NT	
Dibromoethane	NT	NT	NT	NT	
Dibromophenol	NR	NR	NT	NT	
Dibromopropane	NR 100	R	NT	NT	
Dibromopropane Phosphate Dibromopropanol	100 NR	NR	NT	NT NT	
Dibutyl Carbitol	80	R	NT		
Dibutyl Ether	140	R	INT	NT	
Dibutyl Phthalate	120	R	NT	NT	

ARIZONA DEPARTMENT OF ENVIRONMENTAL QUALITY

JAN 15 2008

	Cor-Cote VEN FF Cor-Cote VEN GF			te VEN GF	Cor-Cote HCR FF	
		Secondary		Secondary		Secondary
Chemical Environment and Concentration (%)	Immersion	Containment	Immersion	Containment	Immersion	Containment
Dibutyl Sebacate, All	150	R	150	R	NT	
Dichloro Acetic Acid (see Chloroacetic Acid)	NT	R	NT 120	R		NT
Dichlorobenzene	120 NT	NT	NT	NT	INT	NT
Dichlorobutane	NT		NT	NT	NT-	NT
Dichloroethane	80	R	80	R	80	R
Dichloroethylene	NR	R	NR	R	NT	NT
Dichloromethane	NR	R	NR	R	NT	NT
Dichlorophenoxyacet Acid	NT	NT	NT	NT	NT	NT
Dichloropropane	100	R	100	R	NT	NT
Dichloropropene	80	R	80	R	NT	NT
Dichloropropionic Acid	100	R	100	R	NT	NT
Dichlorotoluene	120	R	120	R	NT	NT
Diesel Fuel	150	R	150	R	NT	
Diesel Fuel/Water 50:50 V/V	150	R	150	R	NT NT	NT NT
Diesel Oil, #2, #3	80	R	80	R	NR	R
Diethanolamine Diethyl Carbonate	120	R	120	R	NT	
Diethyl Ether	INR	NR	NR	NR	NT	
Diethyl Formamide	100	R	100	R	NT	NT
Diethyl Glycol	NT	NT	NT	NT	NT	NT
Diethy! Ketone	80	R	80	R	NT	NT
Diethyl Sulfate	120	R	120	R	NT	NT
Diethylbenzene	150	R	150	R	NT	NT
Diethylene Chloroformate	NR	NR	NR	NR	NR	R
Diethylene Glycol	150	R	150	R	NT	NT
Diethylene Glycol Monobutyl Ether	NT	NT	NT	NT	NT	NT
Diethylenetriamine	NT	NT	NT	NT	NT	NT
Diethylhexyl Phosphoric Acid 20%	150	R	150	R	NT	NT
Diethylketone	100	R	100	R	NR NT	R NT
Difluorophosphoric Acid	NT NT	NT				NT
Digestor Liquor, Low MEA		NT NT	NT	NT		NT
Diglycoamine	NR	R	NR	R		NT NT
Diisobutyl Ketone	120	R	120	R	NT	NT
Diisobutyl Phthalate	150	R	150	R	NT	NT
Diisobutylene	100	R	100	R	NT	NT
Diisopropanolamine	150	R	150	R	NT	NT
Dilute Caustic	NT	NT	NT	NT	NT	NT
Dimethyl Aniline	100	R	100	R	NR	NR
Dimethylacetamide	NR	NR	NR	NR	NT	NT
Dimethylamine 1%	100	R	100	R	NT	NT
Dimethylamine 25%	100	R	100	R	NT	NT
Dimethylaminamethyl Phenol	NT	NT NR	NT	NT NR	NT NR	R
Dimethylaminopropylamine Dimethyl Carbamoyl Chloride	100	100	100	100		R
Dimethyl Carbonyl Chloride	NT	NT	NT	NT	NR	R
Dimethylethanolamine	NT	NT	NT	NT	NT	NT
Dimethyl Dissulfide	NT	NT	NT	NT	NT	NT
Dimethyl Formamide	NR	R	NR	R	NR	R
Dimethyl Morpholine	120	R	120	R	NT	NT
Dimethyl Phenol	NT	NT	NT	NT	NT	NT
Dimethylphenol	NT	NT	NT	NT	NT	NT
Dimethyl Phthalate	150	R	150	R	NT	
Dimethyl Sulfide	80	R	80	R	NT	NT NT
Dimethyl Sulfoxide	NR	R	NR 150	R	NT	NT
Dimethyl Thiazolidine	150 NR	R	150 NR	NR	NR	R
Dinitro Benzene	NR	NR NT	NT	NR	NR	R
Dintro Toluene Dioctyl Phthalate	150	R	150	R	80	R
Dioxin	NT	NT	NT	INT	NT	NT
Diphenyl Oxide	120	R	120	R	NT	NT
Dipotassium Phosphate 50%	150	R	150	R	NT	NT
Dipropylene Glycol	150	R	150	R	NT	NT
Disodium Phosphate	NT	NT	NT	NT	NT	NT

ARIZONA DEPARTMENT OF ENVIRONMENTAL QUALITY

JAN 15 2008

	Cor-	Cor-Cote HP		Cor-Cote HP FF		Cor-Cote SC		
		Secondary		Secondary		Secondary		
Chemical Environment and Concentration (%)	Immersion	Containment	Immersion	Containment	Immersion	Containment		
Dibutyl Sebacate, All	NT	I NT	INT	NT	NT	NT		
Dichloro Acetic Acid (see Chloroacetic Acid)	NT NT	NT	NT	NT	NT	NT		
Dichlorobenzene	NT	NT	NT	NT	NT	NT		
Dichlorobutane	NT	NT	NT	NT	NT	NT		
Dichlorodintene	NT	NT	NT	NT	NT	NT		
Dichloroethane	NR	NR	NR	NR	NR	NR		
Dichloroethylene	NT	NT	NT	NT	NT	NT		
Dichloromethane	NT	NT	NT	NT	NT	NT		
Dichlorophenoxyacet Acid	NT	NT	NT	NT	NT	NT		
Dichloropropane	NT	NT	NT .	NT	NT	NT		
Dichloropropene	NT	NT	NT	NT	NT	NT		
Dichloropropionic Acid	NT	NT	NT	TN	NT	NT		
Dichlorotoluene	NT	NT	NT	NT	NT	NT		
Diesel Fuel	NR	R	120	R	100	R		
Diesel Fuel/Water 50:50 V/V	NR	R	120	R	100	R		
Diesel Oil, #2, #3	NT	NT	NT	NT	NT	NT		
Diethanolamine	NR	NR ,	NR	NR	NR	R		
Diethyl Carbonate	NT	NT	NT	NT	NT	NT		
Diethyl Ether	NT	NT	NT	NT	NT	NT		
Diethy! Formamide	NT	NT	NT	NT	NT	NT		
Diethyl Glycol	NT	NT	NT	NT	NT	NT		
Diethyl Ketone	NT	INT	NT	ŃT	NT	NT		
Diethyl Sulfate	NT	NT	NT	NT	NT	ŇŤ		
Diethylbenzene	NT	NT	NT	NT	NT	NT		
Diethylene Chloroformate	NR	NR	NR	NR	NR	NR		
Diethylene Glycol	NR	R	120	R	100	R		
Diethylene Glycol Monobutyl Ether	NT	NT	NT	NT	NT	NT		
Diethylenetriamine	NR	NT	NR	NT	NR	NT		
Diethylhexyl Phosphoric Acid 20%	NT	NT	NT	NT	NT	NT		
Diethylketone	NR	NR	NR	INR	NR	NR		
Difluorophosphoric Acid	NŤ	NT	NT	NT	NT	NT		
Digestor Liquor, Low MEA	NT	NT	NT	NT	NT	NT		
Digester Liquor, High MEA	NT	NT	NT	NT	NT	NT		
Diglycoamine	NT	NT	NT	NT	NT	NT		
Diisobutyl Ketone	NT	NT	NT	NT	NT	NT		
Diisobutyl Phthalate	NT	NT	NT	NT	NT	NT .		
Diisobutylene	NT	NT	NT	NT	NT	NT		
Diisopropanolamine	NT	NT	NT	NT	NT	NT		
Dilute Caustic	NT	NT	NT	NT	NT	NT		
Dimethyl Aniline	NR	NR	NR	NR	NR	NR		
Dimethylacetamide	NT	NT	NT	NT	NT	NT		
Dimethylamine 1%	NT	NT	NT	NT	NT	NT		
Dimethylamine 25%	NT	NT	NT	NT	NT	NT		
Dimethylaminamethyl Phenol	NT	NT	NT	NT	ŃT	NT		
Dimethylaminopropylamine	NR	NR	NR	NR	NR	NR		
Dimethyl Carbamoyl Chloride	NR	NR	NR	NR	NR	NR		
Dimethyl Carbonyl Chloride	NR	NR	NR	NR	NR	NR		
Dimethylethanolamine	NT	NT	NT	NT	NT	NT		
Dimethyl Dissulfide	NR	NT	NR	NT	NR	NT		
Dimethyl Formamide	NR	NR	NR	NR	NR	NR		
Dimethyl Morpholine	NT	NT	NT	NT	NT	NT		
Dimethyl Phenol	NT	NT	NT	NT	NT	NT		
Dimethylphenol	NT	NT	NT	NT	NT	NT		
Dimethyl Phthalate	NT	NT	NT	NT	NT	NT		
Dimethyl Sulfide	NT	NT	NT	NT	NT	NT		
Dimethyl Sulfoxide	NT	NT	NT	NT	NT	NT		
Dimethyl Thiazolidine	NT	NT	NT	NT	NT	NT		
Dinitro Benzene	NR	NR	NR	NR	NR	NR		
Dinitro Toluene	NR	NR	NR	NR	NR	R		
Dioctyl Phthalate	NR	R	120	R	100	R		
Dioxin	NT	NT	INT	NT	NT	NT		
Dishamul Outlda	NT	NT	NT	NT	NT	NT		
Diphenyl Oxide								
Dipotassium Phosphate 50%	NT	NT	NT	NT	NT	NT		
	NT NR	NT R	NT NR	R	NT NR	R R		

ARIZONA DEPARTMENT OF ENVIRONMENTAL QUALITY

JAN 15 2008

· · · · · · · · · · · · · · · · · · ·		stic AR425 and AR200 HD	Fast-Clad ER		
Chemical Environment and Concentration (%)	Immersion	Secondary Containment	Immersion	Secondary Containmen	
Dibutyl Sebacate, All	NT	NT	NT	NT	
Dichloro Acetic Acid (see Chloroacetic Acid)	NT	INT	NT	INT	
Dichlorobenzene	NT	NT	NT	NT	
Dichlorobutane	NT	NT	NT	NT	
Dichlorodintene	NT	NT	NT	NT	
Dichloroethane	NT	NT	NT	NT	
Dichloroethylene	NT	NT	NT	NT	
Dichloromethane	NT	NT	NT	NT	
Dichlorophenoxyacet Acid	NT	NT	NT	NT	
Dichloropropane	NT	NT	NT	NT	
Dichloropropene	NT	NT	NT	NT	
Dichloropropionic Acid	NT	NT	NT	NT	
Dichlorotoluene	NT	NT .	NT	NT	
Diesel Fuel	80	R	120	R	
Diesel Fuel/Water 50:50 V/V	80	R	120	R	
Diesel Oil, #2, #3	80	R	120	R	
Diethanolamine	NT	NT	80	R	
Diethyl Carbonate	NT	NT	100	R	
Diethyl Ether	NT	NT	NT	NT	
Diethyl Formamide	NT	NT	NT	NT	
Diethyl Glycol	NT	NT	NT	R	
Diethyl Ketone	NT	NT	NT	NT	
Diethyl Sulfate	NT	NT	NT	NT	
Diethylbenzene	NT	NT	80	R	
Diethylene Chloroformate	NT	NT	NT	NT	
Diethylene Glycol	NT	NT	NR	R	
Diethylene Glycol Monobutyl Ether	NT	NT	NR	NR	
Diethylenetriamine	NT	NT	NR	NR	
Diethylhexyl Phosphoric Acid 20%	NT	NT	NT	NT	
Diethylketone	NT	NT	NT	NT	
Difluorophosphoric Acid	NT	NT	NT	NT	
Digestor Liquor, Low MEA	NT	NT	NT	NT	
Digester Liquor, High MEA	NT	NT	NT	NT	
Diglycoamine	NT	NT	NT	NT	
Diisobutyl Ketone	NT	NT	NT	NT	
Diisobutyl Phthalate	NT	NT	NT	NT	
Diisobutylene	NT	NT	NT	NT	
Diisopropanolamine	NT	NT	NT	NT	
Dilute Caustic	NT	NT	80	R	
Dimethyl Aniline	NT	NT	NT	NT	
Dimethylacetamide	NT	NT	NT	NT	
Dimethylamine 1%	NT	NT	100	R	
Dimethylamine 25%	NT	NT	NT	NT	
Dimethylaminamethyl Phenol	NT	NT	NT	NT	
Dimethylaminopropylamine	NT	NT	NT	NT	
Dimethyi Carbamoyl Chloride	NT	NT	NT	NT	
Dimethyl Carbonyl Chloride	NT	NT	NT	NT	
Dimethylethanolamine	NT	NT	NT	NT	
Dimethyl Dissulfide	NT	NT	NR	NR	
Dimethyl Formamide	NT	NT	NT	NT	
Dimethyl Morpholine	NT	NT	NT	NT	
Dimethyl Phenol	NT	NT	NT	NT	
Dimethylphenol	NT	NT	NT	NT	
Dimethyl Phthalate	NT	NT	NT	NT	
Dimethyl Sulfide	NT	NT	NT	NT	
Dimethyl Sulfoxide	NT	NT	NT	NT	
Dimethyl Thiazolidine	NT	NT	NT	NT	
Dinitro Benzene	NT	NT	NT	NT	
Dinitro Toluene	NT	NT	NT	NT	
Dioctyl Phthalate	NT	NT	NT	NT	
Dioxin	NT	NT	NT	NT	
Diphenyl Oxide	NT	NT	NT	NT	
Dipotassium Phosphate 50%	NT	NT	NT	NT	
Dipropylene Glycol	NT	NT	NT	NT	
Disodium Phosphate	NT	NT	NT	NT ·	

ARIZONA DEPARTMENT OF ENVIRONMENTAL QUALITY

JAN 15 2008

	Magnal	ux 304 Vinyl Ester	She	Sher-Glass FF		
		Secondary		Secondary		
Chemical Environment and Concentration (%)	Immersion	Containment	Immersion	Containment		
Dibutyl Sebacate, All	140	R	NT	NT		
Dichloro Acetic Acid (see Chloroacetic Acid)	NT	NT	NT	NT		
Dichlorobenzene	NR	NR	NT	NT		
Dichlorobutane	NT	NT	NT	NT		
Dichlorodintene	NT	NT	NT	NT		
Dichloroethane	NR	NR	NT	NT		
Dichloroethylene	NR	NR	<u>NT</u>	NT		
Dichloromethane	NR	R	NT	NT		
Dichlorophenoxyacet Acid	NT	NT	NT	NT		
Dichloropropane	NR	NR	NT	NT		
Dichloropropene	NR	NR	NT	NT		
Dichloropropionic Acid	NR	NR	NT	NT		
Dichlorotaluene Diesel Fuel	80	R R	NT R0	R		
Diesel Fuel/Water 50:50 V/V	140	R	80	8		
Diesel Oil, #2, #3	80	R	80	<u>R</u>		
Diethanolamine	120	R	NT	NT NT		
Diethyl Carbonate	NR	NR NR	NT			
Diethyl Ether	NR	NR	NT	NT		
Diethyl Formamide	NR	NR	NT	NT		
Diethyl Glycol	NT NT	NT	NT	NT		
Diethyl Ketone	NR	NR	NT	NT		
Diethyl Sulfate	100	R	NT	NT		
Diethylbenzene	100	R	NT	NT		
Diethylene Chloroformate	NR	NR	NT	NT		
Diethylene Glycol	140	R	NT	NT		
Diethylene Glycol Monobutyl Ether	NT	NT	NT	NT		
Diethylenetriamine	NT	NT	NT	NT		
Diethylhexyl Phosphoric Acid 20%	140	R	NT	NT		
Diethylketone	NR	NR	NT	NT		
Difluorophosphoric Acid	NT	NT	NT	NT		
Digestor Liquor, Low MEA	NT	NT	NT	NT		
Digester Liquor, High MEA	NT	NT	NT	NT		
Diglycoamine	NR	NR	NT	NT		
Diisobutyl Ketone	NR	NR	NT	NT		
Diisobutyl Phthalate	140	R	NT	NT		
Diisobutylene	100	R	NT	NT		
Diisopropanolamine	140	R	NT	NT		
Dilute Caustic	NT	NT	NT	NT		
Dimethyl Aniline	120	R	NT	NT		
Dimethylacetamide	NR	NR	NT	NT		
Dimethylamine 1%	100	R	NT	NT		
Dimethylamine 25%	100	R	NT	NT		
Dimethylaminamethyl Phenol	NT	NT	NT	NT		
Dimethylaminopropylamine Dimethyl Carbamoyl Chloride	NR 100	NR 100	NT	NT		
Dimethyl Carbonyl Chloride	NT	NT	NT			
Dimethylethanolamine	NT NT	NT NT	NT	NT		
Dimethyl Dissulfide	NT	NT	NT	NT		
Dimethyl Formamide	NR	R	NT	NT		
Dimethyl Morpholine	NR	NR	NT	NT		
Dimethyl Phenol		NT	NT	NT		
Dimethylphenol	NT	NT	NT	NT		
Dimethyl Phthalate	140	R	NT	NT		
Dimethyl Sulfide	NR	NR	NT	NT		
Dimethyl Sulfoxide	NR	R	NT	NT		
Dimethyl Thiazolidine	140	R	NT	NT		
Dinitro Benzene	NR	NR	NT	NT		
Dinitro Toluene	NT	NT	NT	NT		
Dioctyl Phthalate	140	R	NT	NT		
Dioxin	NT	NT	NT	NT		
Diphenyl Oxide	80	R	NT	NT		
Dipotassium Phosphate 50%	140	R	NT	NT		
Dipropylene Glycol	140	R	NT	NT		
Disodium Phosphate	NT	NT	NT	NT		

ARIZONA DEPARTMENT OF ENVIRONMENTAL QUALITY

JAN 15 2008

	Cor-Co	ote VEN FF	Cor-Co	te VEN GF	Cor-Co	ote HCR FF
Chemical Environment and Concentration (%)	Immersion	Secondary Containment	Immersion	Secondary Containment	Immersion	Secondary Containment
Divinylbenezene	120	R	120	R	NT	NT
)-Limonene	NT	NT	NT	NT	NT	NT
DMA 4 Weed Kill 2, 4-D	120	R	120	R	NT	NT
DMA 6 Weed Killer	120	R	120	R	NT	NT
Dodecanol (Lauryl Alco)	150	R	150	R	זא־	NT
Dodecene	150	R	150	R	NT	NT
Dodecyl Alcohol (Lauryl)	150	R	150	R	100	R
Dodecylbenzene	150	R	150	R	NT	NT
Dodecyl Benzene Sulfonic Acid	150	R	150	R	NR	R
Dolomitic Lime	NT	NT	NT	NT	NT	NT
Dolomitic Hydrated Lime	NT	NT	NT.	NT	NT	NT
Dowanol DB Diethylene Glycol	100	R	100	R	NT	NT
Dowanol DB Glycol Ether	100	R	100	R	NT	NT
Dowanol EB Glycol Ether	100	R	100	R	NT	NT
Dowanol PM Glycol Ether	80	R	80	R	NT	NT
Dowclene EC Solvent	120	R	120	R	NT	NT
Dowclene Solvent	120	R	120	R	NT	NT
Dowex 50WX4 Ion Exch Resin	150	R	150	R	NT	NT
Dowfax 2A0 Sol Surf 40% Sol	120	R	120	R	NT	NT
Dowfax 2A1 Surfactant 45% Sol	120	R	120	R	NT	NT
Dowicide Antimicrobial	120	R	120	R	NT	NT
Dowtherm Heat Trans	150	R	150	R	NT	NT
Dricon (fire retardant)	NT	NT	NT	NT	NT	NT
Dyes	NT	NT	NT	NT	NT	NT
ECR-34	NT	NT	NT	NT	NT	NT
Effluent Glycol	NT	NT	NT	NT	NT	NT
Electrosol Antistatic Agent 5%	150	R	150	R	NT	NT
Emery 3004	NT	NT	NT	NT	NT	NT
Endura-etch Solution	NT	NT	NT	NT	NT	NT
Epichlorohydrin	80	R	80	R	NT	NT
Epoxidized Soybean Oil	150	R	150	R	NT	NT
Esteron 245 Herbicide	NT	NT	NT	NT	NT	NT
Esteron Herbicide	NT	NT	NT	NT	NT	NT
Esters, Fatty Acid	150	R	150	R	NT	NT
Ethanoi 10%	150	R	150	R	100	R
Ethanol 20%	150	R	150	R	100	R
Ethanol 50%	150	R	150	R	100	R
Ethanol 95%	100	R	100	R	100	R
Ethanol 100% (Ethyl Alcohol)	150	R	150	R	100	R
Ethanolamine	100	R	100	R	NT	NT
Ethoxyl Ethanol	100	R	100	R	NR	R
Ethoxylated Nonyl Phenol	NR	R	NR	R	100	R
Ethyl Acetate (4, 9)	80	R	80	R	NR	R
Ethyl Acrylate	80	R	80	R	NR	R
Ethyl Alcohol, Liquor (see Ethanol)	NT	NT	NT	NT	NT	NT
Ethyl Amine 20%	80	R	80	R	NR	R
Ethyl Amine 70%	NR	R	NR	R	NR	R
Ethyl Bromide	NR	NR	NR	NR	NR	R
Ethyl Chloride	80	R	80	R	NR	R
Ethyl Chloroformate	NR	NR	NR	NR	NR	R
Ethyl Ether	NR	R	NR	R	NR	R
Ethyl Ether (Diethylether)	NT	NT	NT	NT	NR	R
Ethyl Hexyl Acrylate	NT	NT	NT	NT	NR	R
Ethyl Hexyl Chloroformate	NT	NT	NT	NT	NT	NT
Ethyl Silicate	NT	NT	NT	NT	NT	NT
Ethyl Sulfate	100	R	100	R	NR	R
Ethyl Thiochloroformate	NT	NT	NT	NT	NT	NT
Ethylbenzene	100	R	100	R	NT	NT
Ethylbenzene: Benzene 2/3:1/3	100	R	100	R	NT	NT
Ethylene Glycol Monobutyl Ether	100	 	100	R	NT	NT
Ethylene Chloride	80	R	80	R	NT	NT
Ethylene Chlorohydrin	150	R	150	R	NT	
Ethylene Diamine	NR	NR	NR	NR	NT	NT
Ethylene Diamine	NR	NR	NR	NR		
Lanysene Dibrotnide			MIN		NT	R

ARIZONA DEPARTMENT OF ENVIRONMENTAL QUALITY

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Ethyl ChlorideNRNRNRNRNRNRNREthyl ChloroformateNRNRNRNRNRNRNRREthyl EtherNRNRNRNRNRNRNRNRNREthyl Ether (Diethylether)NRNRNRNRNRNRNREthyl Hexyl AcrylateNRNRRNRNRRNREthyl Hexyl AcrylateNTNTNTNTNTNTNTEthyl Hexyl ChloroformateNTNTNTNTNTNTNTEthyl JilcateNTNTNTNTNTNTNTEthyl SulfateNTNTNTNTNTNTNTEthyl IbiochloroformateNRRNRRRREthyl SulfateNTNTNTNTNTNTEthylenzeneNTNTNTNTNTNTEthylenzeneNTNTNTNTNTNTEthylene Glycol Monobutyl EtherNTNTNTNTNTNTEthylene ChlorodeNTNTNTNTNTNTNTEthylene DibronideNTNTNTNTNTNTNTEthylene DibromideNTNTNTNTNTNTNT							and the second se
Ethyl ChloroformateNRNRNRNRNRNRREthyl EtherNRNRNRNRNRNRNREthyl Ether (Diethylether)NRNRNRNRNRNRNREthyl Lether (Diethylether)NRNRNRNRNRNRNREthyl Lether (Diethylether)NRNRNRNRNRNRNREthyl Lether (Diethylether)NRRNRNRNRNRNREthyl Lether (Diethylether)NRRNRRNRRNREthyl SelfateNTNTNTNTNTNTNTEthyl SilicateNTNTNTNTNTNTNTEthyl SelfateNTNTNTNTNTNTNTEthyl IbiochloroformateNRRNRRNRREthyl BenzeneNTNTNTNTNTNTEthylene Glycol Monobutyl EtherNTNTNTNTNTNTEthylene ChlorideNTNTNTNTNTNTNTEthylene DibronideNTNTNTNTNTNTNTEthylene DibromideNTNTNTNTNTNTNT							
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Ethyl Sulfate NT							
Ethyl Thiochloroformate NR R NR R NR R NR R Ethylbenzene NT <						NT	NT
Ethylbenzene NT				NR	and the second s	NR	R
Ethylene Glycol Monobutyl Ether NT		NT	NT	NT	NT	NT	NT
Ethylene Chloride NT		NT	NT	NT	NT		
Ethylene Chlorohydrin NT NT </td <td>Ethylene Glycol Monobutyl Ether</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	Ethylene Glycol Monobutyl Ether						
Ethylene Diamine NT							
Ethylene Dibromide NT NT NT NT NT NT NT							
Ethylene Dichloride NR NR NR NR NR NR		the second se		NT NR		NT NR	NT NR

ARIZONA DEPARTMENT OF ENVIRONMENTAL QUALITY

JAN 15 2008

				Secondary
Chemical Environment and Concentration (%)	Immersion	Secondary Containment	Immersion	Containment
Divinylbenezene	NT	NT	NT	NT
D-Limonene	NT	NT	NT	NT
DMA 4 Weed Kill 2, 4-D	NT	NT	NT	NT NT
DMA 6 Weed Killer Dodecanol (Lauryl Alco)	NT NT	NT	NT .	NT
Dodecene	NT	NT NT	NT	NT NT
Dodecyl Alcohol (Lauryl)	NT	NT	NT	NT
Dodecylbenzene	NT	NT	NT	NT
odecyl Benzene Sulfonic Acid	NT	NT	NT	NT
olomitic Lime	NT	NT	NT	NT
Olomitic Hydrated Lime	NT	NT	NT	NT
owanol DB Diethylene Glycol	NT	NT	NT	NT
Iowanol DB Glycol Ether	NT	NT	NT	NT
lowanol EB Glycol Ether	NT	NT	NT	NT
Iowanol PM Glycol Ether	NT	NT	NT	NT
lowclane EC Solvent	NT	NT	NT	NT
Dowclene Solvent	NT NT	NT		NT
Dowex 50WX4 lon Exch Resin Dowfax 2A0 Sol Surf 40% Sol			NT	
Dowfax 2AU Sol Surf 40% Sol			NT	
Dowicide Antimicrobial	NT		NT	NT
Dowtherm Heat Trans	NT	NT	NT	NT
Dricon (fire retardant)	NT	NT	NT	NT
Dyes	NT	NT	NT	NT
ECR-34	NT	NT	NT	NT
Effluent Glycol	NT	NT	NT	NT
Electrosol Antistatic Agent 5%	NT	NT	NT	NT
Emery 3004	NT	NT	140	R
Endura-etch Solution	NT	NT	NT	NT
pichlorohydrin	NT	NT	NT	NT
poxidized Soybean Oil	NT	NT	NT NT	
steron 245 Herbicide	NT		NT	
sters, Fatty Acid	NT	NT	NT	NT
Ethanol 10%	INT	NT	NT	R
thanol 20%	NT	NT	NT	R
Ethanol 50%	NT	NT	NT	R
Ethanol 95%	NT	NT	NR	R
Ethanol 100% (Ethyl Alcohol)	NT	NT	NR	R
Ethanolamine	NT	NT	NR	NR
Ethoxyl Ethanol	NT	NT	NT	NT
Ethoxylated Nonyl Phenol	NT	NT	NT	NT
Ethyl Acetate (4, 9)	NT	NT	NR	NR
Ethyl Acrylate	NT	NT	NT	NT
Ethyl Alcohol, Liquor (see Ethanol)	NT		NT	NT NT
Ethyl Amine 20%		NT	NT NT	
Ethyl Bromide		NT NT	NT -	NT
Ethyl Chloride	NT NT	NT	NT	NT
Ethyl Chloroformate	NT	NT	NT	NT
Ethyl Ether	NT	NT	NT	NT
Ethyl Ether (Diethylether)	NT	NT	NT	NT
Ethyl Hexyl Acrylate	NT	NT	NT	NT
Ethyl Hexyl Chloroformate	NT	NT	NT	NT
Ethyl Silicate	NT	NT	NT	NT
Ethyl Sulfate	NT	NT	NT	NT
Ethyl Thiochloroformate	NT	NT	NR	NR
Ethylbenzene	NT	NT	80	R
Ethylbenzene: Benzene 2/3:1/3	NT		80 NT	R NT
Ethylene Glycol Monobutyl Ether	NT		NT NT	NT
Ethylene Chloride Ethylene Chlorohydrin	NT NT	NT	NT	NT
Ethylene Diamine	NT		NR	
Ethylene Dibromide	NT	NT	NT	
Ethylene Dichloride	NR	NR NR	NT	NT

ARIZONA DEPARTMENT OF ENVIRONMENTAL QUALITY

JAN 15 2008

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	Magnalı	x 304 Vinyl Ester	Sher-Glass FF		
		Secondary		Secondary	
Chemical Environment and Concentration (%)	Immersion	Containment	Immersion	Containment	
Divinylbenezene	100	R	NT	NT	
D-Limonene	NT	NT	NT	NT	
DMA 4 Weed Kill 2, 4-D	140	R	NT	NT	
DMA 6 Weed Killer	140	R	NT		
Dodecanol (Lauryl Alco)	140		NT		
Dodecene Dodecyl Alcohol (Lauryl)	140	R	NT	NT	
Dodecylbenzene	140	R	NT	NT	
Dodecyl Benzene Sulfonic Acid	140	R	INT	NT	
Dolomitic Lime	NT	NT	NT	NT	
Dolomitic Hydrated Lime	NT	NT	NT	NT	
Dowanol DB Diethylene Glycol	100	R	NT	TN	
Dowanol DB Glycol Ether	100	R	NT	NT	
Dowanol EB Glycol Ether	100	R	NT	NT	
Dowanol PM Glycol Ether	NR	NR	NT	NT	
Dowclene EC Solvent	100	R	NT	NT	
Dowclene Solvent	140	R	NT		
Dowex 50WX4 Ion Exch Resin	140	R			
Dowfax 2A0 Sol Surf 40% Sol Dowfax 2A1 Surfactant 45% Sol	140	R			
Dowicide Antimicrobial	140	 R	NT	NT NT	
Dowtherm Heat Trans	140	- R	NT	NT	
Dricon (fire retardant)	NT	NT	NT	NT	
Dyes	NT	NT	NT	NT	
ECR-34	NT	NT	NT	NT	
Effluent Glycol	NT	NT	NT	NT	
Electrosol Antistatic Agent 5%	140	R	NT	NT	
Emery 3004	NT	NT	NT	NT	
Endura-etch Solution	NT	NT	NT	NT	
Epichlorohydrin	NR	R	NT	NT	
Epoxidized Soybean Oil	140	R	NT	NT	
Esteron 245 Herbicide	NT	NT		NT	
Esters, Fatty Acid	NT	R	NT NT	NT	
Ethanol 10%	140		120	R	
Ethanol 20%	140	R	120	R	
Ethanol 50%	100	R	120	R	
Ethanol 95%	80	R	120	R	
Ethanol 100% (Ethyl Alcohol)	120	R	120	R	
Ethanolamine	80	R	NT	NT	
Ethoxyl Ethanol	80	R	NT	NT	
Ethoxylated Nonyl Phenol	NR	NR	NT	NT	
Ethyl Acetate (4, 9)	NR	NR	NT	NT	
Ethyl Acrylate	NR	NR	NT	NT	
Ethyl Alcohol, Liquor (see Ethanol)	NT	NT	NT	NT	
Ethyl Amine 20%	80 NR	R NR	NT NT	NT NT	
Ethyl Bromide	NR	NR NR		NT	
Ethyl Chloride	NR	NR	NT	NT	
Ethyl Chloroformate	NR	NR	NT	NT	
Ethyl Ether	NR	R	NT	NT	
Ethyl Ether (Diethylether)	NT	NT	NT	NT	
Ethyl Hexyl Acrylate	NT	NT	NT	NT	
Ethyl Hexyl Chloroformate	NT	NT	NT	NT	
Ethyl Silicate	NT	NT	NT	NT	
Ethyl Sulfate	100	R	NT	NT	
Ethyl Thiochloroformate	NT	NT	NT	NT	
Ethylbenzene	80	R	NT	NT	
Ethylbenzene: Benzene 2/3:1/3	NR	NR	NT	NT	
Ethylene Glycol Monobutyl Ether	100	R		NT	
Ethylene Chlorohydrin	NR	R	NT NT	NT NT	
Ethylene Diamine	100 NR	NR	NT		
Ethylene Dibromide	NR	NR	NT	NT	
and show on the state of the st	NR	NR NR	NT	NT	

ARIZONA DEPARTMENT OF ENVIRONMENTAL QUALITY

JAN 15 2008

Cor-Cote VEN FF Cor-Cote VEN GF Cor-Cote HCR FF Secondary Secondary Secondary Immersion Containment Containment Immersion Containment Chemical Environment and Concentration (%) Immersion 150 120 150 R Ethylene Glycol R NR NR NR NR Ethylene Oxide NR NR Ethylene Oxide (Dilute) NR R NR Ethylene Sulfate NT NT. Ethylenediaminetetraacetic Acid 150 R 150 R Eucalyptus Oil 120 R 120 R NT NT 150 R NŤ NT R Fatty Acids, Saturated 150 NT NT Fatty Acids, Unsaturated 150 R 150 R NT NT NT NT NT ΝT Fatty Ester NT NT NT NT NT NT Felt Cleaning Solution (acidic) Ferric Acetate, Saturated 150 R 150 R NT NT NT NR R NT NT NT Ferric Ammoniom Citrate Solution 120 150 R R Ferric Chloride 38% 150 R Ferric Chloride 45% 150 R 150 R 120 R R 120 Ř 150 R 150 Ferric Chloride 50% 120 R 150 R R Ferric Nitrate 150 Ferric Sulfate 12% 150 R 150 R 120 R 150 R 120 R R 150 Ferric Sulfate 50% 150 R 120 R Ferrous Chloride, All 150 R 150 R 150 R I NT NT Ferrous Nitrate, All NT ŇT NT NT NT Ferrous Sulfate 7% NT 150 R NT NT R Ferrous Sulfate 19% 150 Ferrous Sulfate 50%; Hydrochloric Acid 2% NT NT NT NT NT NT 150 R NT NT 150 R Ferrous Sulfate, All 150 R 120 R Fertilizer, URAN 150 R 150 R 150 R 120 R Fertilizer Composition 888 NT NT NT NT NT Fertilizer (Liquid Nitrogen 28-0-0) NT NT NT NT NT Fertilizer (Liquid Urea) NT NT NT NT NT NT NT NT Fire Retardant (Dricon) NT NT NT NT NT NT Fish Oil NT NT 150 Flue Gas, Wet, All 150 R R Fiuoboric Acid, All (1, 2, 4, 7, 9) 150 R 150 R NR R R NT NT Fluoride Salt+Hydrochloric Acid 30:10 (2, 4, 7, 9) R 120 120 150 NT NT R Fluorine Gas (1) 150 R Fluosilicic Acid 10% (1, 2, 4, 7, 9) NR R 80 Ŕ ŇR R R NR R R 80 NR Fluosilicic Acid 25% (1. 2. 4. 7. 9) R NR 80 NR Fluosilicic Acid 35% (1, 2, 4, 7, 9) NR R 150 R 150 R 120 R Fly Ash, Slurry NT 80 R Forane 1413 Refrigerant NT NT NT 100 R 150 Formaldehyde, All 150 R R Formaldehyde 44% 150 R 150 R 100 R NT NT NT NT NT NT Formalin 120 R Formic Acid 10% 120 R 120 R 120 R 120 R 120 R Formic Acid 98% NT NT NT NT NT Fosterge Products NT 100 NT Freon 11 100 R R NT Freon 113 Solvent 100 R 100 R NT NT 100 NT NT R R 100 Freon 12 150 120 R Fresh Water 150 R R R 150 R 150 R 120 Fuel Oil, Heating Oil 150 R 150 R NT NT Fuel Oil - No. 1 150 NT NT R R Fuel Oil - No. 2 150 Furfural to 10% 100 R 100 R 80 R R 80 R Furfural 100% NR R NR 80 NT NT R R Furfural in Organic Solvent 0-20 80 NR Fufural/Acetic Acid/Methanol 30/10/5 NR R NR R NR R NR R 100 R 100 Furfuryl Alcohol 20% (9) NR R NR R Furfuryl Alcohol 100% (9) NR R NT NT NT NT NT NT Fusilade 2000 Herbicide NT NT R 120 R Galecron 4EC Insecticide 120 NT NT 150 R Gallic Acid, Saturated 150 R Gasohol (up to 10% Alcohol) 120 R 120 R 120 R 120 R R 150 R 150 Gasoline Reference Fuel C 150 120 R Gasoline, Aviation 150 R R 120 R 120 R 120 R Gasoline, Commercial

ARIZONA DEPARTMENT OF ENVIRONMENTAL QUALITY

JAN 15 2008

	Car-	Cole HP	Cor-C	ota HP FF	Co	r-Cote SC
		Secondary	Immersion	Secondary Contaioment	Immersion	Secondary Containment
Chemical Environment and Concentration (%)	Immersion	Containment	120	R	120	8
Ethylana Glycol Erhylana Oxida	NR NR	R	NR NR	NR	NR	NR
Ethylene Oxide (Dilute)	NR	NR	NR	NR	NR	NR
Ethylene Sulfate	NR	NR	NR	NR	NR	NR
Ethylonediaminotetraacetic Acid	NT	NT	NT	ייא	NT	אד
Eucalypius Oil	กา	NT	NT	NT	NT	NT
Fatty Acids, Saturated	NT	NT	лт	NT	NT	NT
Fatty Acids, Unsaturated	NT	זא	, мî	NT	NT	٦M
Faity Ester	NR	Ŕ	80	R	80	R
Felt Cleaning Solution (acidic)	NT	N	NT	NT	NT	NT
Ferric Acetate, Saturated	NT	10	ТИ		NT	NT O
Farric Ammoniom Clurate Solution	NR	R	NR NR	R	NR 120	R 8
Ferric Caloride 38%	NR NR	R	NR	8	120	R
Forric Chlorido 45% Forric Chlorido 50%	NR	8	120	R	120	R
Farric Nitrate	NR	R	NR	R	NR	8
Forde Sulfata 12%	NR	R	120		120	R
Forric Sulfate 50%	NR	R	120	R	120	R
Ferrous Chloride, All	NR	R	120	R	120	R
Farrous Nitrate, All	NT	NT	NT	NT	NT	INT
Ferrous Sulfate 7%	NT	NT	דא ד	NT	NT	זא
Farrous Suifata 19%	NT	ทั	мт	NT	NT	<u>IN</u>
Ferrous Sulfate 50%; Hydrochloric Acid 2%	דא	NT	NT	NT	NT	NT
Ferrous Sulfate, All	NT	NT	NT	NT	NT	NΪ
Fortilizer, URAN	NT	NŤ	NT	NT	N7	NY
Fortilizer Composition 888	זא	NT	NT	NT	NT	NT
Fertilizer (Liquid Nitrogen 28-0-0)	NT	NT	ти		NT	NT NT
Fortilizer (Liquid Urea)	NT	NT	NT	NT NT	זא דא	NT
Fire Retargent (Dricon)	NT NT	אד זא	NT NT		דא	NT
Fish Oli	NT NT		NT	NT	NT	דא
Flugbode Acid, All (1, 2, 4, 7, 9)	NR	8	NR	R		8
Fluoride Salt+Hydrochloric Acid 30:10 (2, 4, 7, 9)			NT	NT	NT	NT
Fluorine Gas (1)	NT	NT	NT	NT	NT	NY
Fluosificic Acid 10% (1. 2, 4, 7, 9)	NR	NR	NR	NR	NR	NR
FlugsIlicic Aold 25% (1, 2, 4, 7, 9)	NR	NR	NR	NR	NR	NR
FluosIlicic Acid 35% (1, 2, 4, 7, 9)	NR	NR	NR	NR	NR.	NR
Fly Ash, Slurry	NR	R	NR	8	NR.	R
Forane 1413 Rafrigarant	N8	R	80	8.	80	8
Formaldehyde, All	NR	R	NR	R	NR	R
Formaldehydo 44%	NR	R	NR	R	NR	R
Formalin	TM	NT	NT	NT	NT	NŤ
Formic Acid 10%	NR	R	NR	R	NR NR	R
Formic Acid 98%	NR	R NT		NT	NT	NT
Fosterge Products	NT NT	זא	NT	NT	NT	NT
Freen 11 Freen 113 Solvent	NT		NT	NT	NT	NT
Freen 12	NT	NT	NT	NT	TNT	TA
Fresh Wator	NR	R	120	Ŕ	120	R
Fuel Oil, Heating Oil	NR	8	120	R	120	R
Fuel Oli · No. 1	NR	R	120	R	120	8
Fugi Oli - No, 2	NR	R	120	R	120	R
Furfural to 10%	NR	R	NR	8	NR	R
Furtural 100%	NR	R	NR	R	NR	R
Furfural In Organic Solvont 0-20	זא	NT	NT	NT	NT	NF
Futura/Acotic Acid/Methanol 30/10/5	:NHR	1 NR	NR	NR	NR	NR
Furtury! Alcohol 20% (9)	NR	1 11	INR	R	I NR	R
Furfuryl Alcohol 100% (9)	NR	R		R	NR	R
Fusilade 2000 Herbicide	NR	R	100	R	100	R NT
Galecron 4EC insecticide	NT	NT	NT NT	NT NT	NT NT	
Gallic Acid, Saturated	NT NR	R	NR	R	120	8
			1 1111	1 n	144	
Gaschol (up to 10% Alcohol)			NR	R	120	R
	NR	R	NR NR	R	120	R

ARIZONA DEPARTMENT OF ENVIRONMENTAL QUALITY

JAN 15 2008

Waste Programs Div. Permits Section

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	EnviroLa			Second
Chemical Environment and Concentration (%)	Immersion	Secondary Containment	Immersion	Secondary Containmen
thylene Glycol	80	R	NT	R
thylene Oxide	NT	NT	NT	NT
thylene Oxide (Dilute)	NT	NT	NT	NT
Ethylene Sulfate	NT	NT	NT	NT
Ethylenediaminetetraacetic Acid	NT	NT	NT -	- NT
Eucalyptus Oil	NT	·NT	NT	NT
Fatty Acids, Saturated	NT	NT	NT .	NT
Fatty Acids, Unsaturated	NT	NT	NT	NT
Fatty Ester	NT	NT	100	R
Felt Cleaning Solution (acidic)	NT	NT	NT	NT
Ferric Acetate, Saturated	NT	NT	NT	NT
Ferric Ammoniom Citrate Solution	NT	NT	NT	NT
Ferric Chloride 38%	80	R	80	R ·
Ferric Chioride 45%	NT	NT	80	R
Ferric Chloride 50%	NT	NT	NT	NT
Ferric Nitrate	NT	NT	NT	NT
Ferric Sulfate 12%	NT	NT	80	R
Ferric Sulfate 50%	NT	NT	NT	NT
Ferrous Chloride, All	80	R	80	R
Ferrous Nitrate, All	NT	NT	NT .	NT
Ferrous Sulfate 7%	NT	NT	80	R
Ferrous Sulfate 19%	NT	NT	NT	NT
Ferrous Sulfate 50%; Hydrochloric Acid 2%	NT	NT	NT	NT
Ferrous Sulfate, All	NT	NT	NT	NT
Fertilizer, URAN	NT	NT	NT	NT
Fertilizer Composition 888	NT	NT	NT	NT
Fertilizer (Liquid Nitrogen 28-0-0)	NR	R	NT	NT .
Fertilizer (Liquid Urea)	NR	R	NT	NT
Fire Retardant (Dricon)	NT	NT	NT	NT
Fish Oil	NT	NT	NT	NT
Flue Gas, Wet, All	NT	NT	NT	NT
Fluoboric Acid, All (1, 2, 4, 7, 9)	NT	NT	NR	R
Fluoride Salt+Hydrochloric Acid 30:10 (2, 4, 7, 9)	NT	NT	NT	NT
Fluorine Gas (1)	NT		NT	NT
Fluosilicic Acid 10% (1, 2, 4, 7, 9)	NT	NT	NT	NT
Fluosilicic Acid 25% (1, 2, 4, 7, 9)	NT	NT	NT	NT
Fluosilicic Acid 35% (1, 2, 4, 7, 9)	NT	NT	NT	
Fly Ash, Slurry	NT	NT	NR	R
Forane 1413 Refrigerant	NT	NT	80	R
Formaldehyde, All	NT	NT	NT	NT .
Formaldehyde 44%	NT	NT	NR	R
Formalin	NT	NT	NT	NT
Formic Acid 10%	NT	NT	NT	NT
Formic Acid 98%		NT	NT	NT
Fosterge Products	NT	NT	NT	
Freon 11	NT	NT	NT	
Freon 113 Solvent	NT		NT	NT
Freon 12	NT	NT	NT	NT
Fresh Water	NT	NT	80	R
Fuel Oil, Heating Oil	NT	NT	120	_
Fuel Oil - No. 1	NT		120	R
Fuel Oil - No. 2	NT	NT	120	R NT
Furfural to 10%	NR	NR NR	NT	
Furfural 100%	NR NT	NR	NT	
Furfural in Organic Solvent 0-20	NT NR	NT	NT	
Fufural/Acetic Acid/Methanol 30/10/5	NR	NR	NT	NT
Furfuryl Alcohol 20% (9)	NT	NT	NT	NT
Furfuryl Alcohol 100% (9)	NT	NT	NT	
Fusilade 2000 Herbicide	NT	NT	100	R
Galecron 4EC Insecticide	NT	NT	NT NT	NT
Gallic Acid, Saturated	NT		NT	NT
Gasohol (up to 10% Alcohol)	NR	NR	NT	
Gasoline Reference Fuel C	NR	NR	80	R
Gasoline, Aviation	NR	NR	80	R
Gasoline, Commercial	NR	R	80	R

ARIZONA DEPARTMENT OF ENVIRONMENTAL QUALITY

JAN 15 2008

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	Magnalı	ux 304 Vinyl Ester	Sher-Glass FF		
		Secondary		Secondary Containment	
Chemical Environment and Concentration (%)	Immersion	Containment	Immersion		
Ethylene Glycol	140	R	NT	NT	
Ethylene Oxide	NR	NR NR		NT	
Ethylene Oxide (Dilute)	NR		NT		
Ethylene Sulfate Ethylenediaminetetraacetic Acid	140	R	NT	NT	
Eucalyptus Oil	140	R	NT	NT	
Fatty Acids, Saturated	140	R	NT	NT	
Fatty Acids, Unsaturated	140	R	NT	NT	
Fatty Ester	NT	NT	NT	NT	
Felt Cleaning Solution (acidic)	NT	NT	NT	NT	
Ferric Acetate, Saturated	140	R	NT	NT	
Ferric Ammoniom Citrate Solution	NT	NT	NT	NT	
Ferric Chloride 38%	140	R	NT NT		
Ferric Chloride 45%	140	R		NT	
Ferric Chloride 50%	140	R		NT	
Ferric Sulfate 12%	140	R	NT	NT	
Ferric Sulfate 50%	140	R	NT	NT	
Ferrous Chloride, All	140	R	NT	NT	
Ferrous Nitrate, All	140	R	NT	NT	
Ferrous Sulfate 7%	NT	NT	NT	NT	
Ferrous Sulfate 19%	140	R	NT	NT	
Ferrous Sulfate 50%; Hydrochloric Acid 2%	NT	NT	NT	NT	
Ferrous Sulfate, All	140	R	NT	NT	
Fertilizer, URAN	140	R	NT	, NT	
Fertilizer Composition 888	140	R	NT		
Fertilizer (Liquid Nitrogen 28-0-0)	140 NT	 		NT	
Fertilizer (Liquid Urea) Fire Retardant (Dricon)				NT	
Fish Oil	140	- R	NT NT	NT	
Flue Gas, Wet, All	140	R	NT	NT	
Fluoboric Acid, All (1, 2, 4, 7, 9)	NR	R	NT	NT	
Fluoride Salt+Hydrochloric Acid 30:10 (2, 4, 7, 9)	140	R	NT	NT	
Fluorine Gas (1)	140	R	NT	NT	
Fluosilicic Acid 10% (1, 2, 4, 7, 9)	NR	NR	NT	NT	
Fluosilicic Acid 25% (1, 2, 4, 7, 9)	NR	NR	NT	NT	
Fluosilicic Acid 35% (1, 2, 4, 7, 9)	NR	NR	NT.	NT	
Fly Ash, Slurry	140	R	NT		
Forane 1413 Refrigerant	NT	NT	NT NT	NT	
Formaldehyde, All Formaldehyde 44%	140	R	NT		
Formalin	NT		NT	NT	
Formic Acid 10%	140	R	NT	INT	
Formic Acid 98%	140	R	NT	NT	
Fosterge Products	NT	NT	NT	NT	
Freon 11	80	R	NT	NT	
Freon 113 Solvent	100	R	NT	NT	
Freon 12	80	R	NT	NT	
Fresh Water	140	R	NT	NT	
Fuel Oil, Heating Oil	140	R	NT NT		
Fuel Oil - No. 1	140	R			
Fuel Oil - No. 2	140	R	NT		
Furfural 100%	NR	NR	NT	NT	
Furfural in Organic Solvent 0-20	NR	R	NT	NT	
Fufural/Acetic Acid/Methanol 30/10/5	NR	NR	Ντ	NT	
Furfuryl Alcohol 20% (9)	NR	NR	NT	NT	
Furfuryl Alcohol 100% (9)	NR	NR	NT	NT	
Fusilade 2000 Herbicide	NT	NT	NT	NT	
Galecron 4EC Insecticide	80	R	NT	NT	
Gallic Acid, Saturated	140	R	NT	NT	
Gasohol (up to 10% Alcohol)	100	R	NT	NT	
	140	R	100	R	
Gasoline Reference Fuel C Gasoline, Aviation	140	R	120	R	

ARIZONA DEPARTMENT OF ENVIRONMENTAL QUALITY

JAN 15 2008

	Cor-Cote VEN FF		Cor-Cote VEN GF		Cor-Cote HCR FF	
	001-00	Secondary		Secondary		Secondary
Chemical Environment and Concentration (%)	Immersion	Containment	Immersion	Containment	Immersion	Containment
Gasoline, Diesel	150	R	150	R	120	R
Gasoline, Jet Fuel JP4	120	R	120	R	120	R
Gasoline, Set Fuel SF4	150	R	150	R	120	R
Gasoline, Premium Unleaded	150	R	150	R	120	R
Gasoline, Regular Unleaded	150	R	150	R	-1-20	R
Gasoline (White)	150	R	150	R	120	R
Gasoline (White) 90% Unleaded, 10% Ethanol	100	R	100	R	120	R
Gasoline (White) 90% Unleaded, 10% MTBE	100	R	150	R	120	R
Gasoline (White) 90% Unleaded, 10% Methanol	100	R	150	R	120	R
Gasoline (White) 80% Unleaded Metahnol 20%	100	R	100	R	120	R
Gin, 80 Proof (40% Ethanol)	150	R	150	R	100	R
Glacial Acetic Acid (see Acetic Acid 100%)	100	R	80	R	NR	NR
Glucose	150	R	150	R	120	R
Glutaraldehyde 50%	NT	NT	NT	NT	NT	NT
Glutaric Acid 50%	100	R	100	R	NT	NT
Glycerin	150	R	150	R	120	R
Glycerol	100	R	100	R	120	R
Glycol	150	R	150	R	NT	NT
Glycolic Acid 70%	120	R	120	R	NR	R
Glyconic Acid 50%	150	R	150	R	NT	NT
Glyoxal 40%	100	R	100	R	NT	NT
Gold Plating Solution (Cyanide)	120	R	120	R	120	R
Green Liquor, Ali (4, 9)	150	R	150	R	120	R
Grape Juice	150	R	NR	R	120	R
Grapefruit Juice	NT	NT	NT	NT	120	R
Halogenated Polyester Resin	NT	NT	NT	NT	NT	NT
Heat Transfer Agent	NT	NT	NT	NT	NT	NT
Heptane	150	R	150	R	120	R
Heptanoic Acid	NT	NT	NT	NT	NT	NT
Herbicides	120	R	120	R	NT	NT
Hexachloroethane	. 120	R	120	R	NT	NT
Hexachlorocyclopentadiene	NT	NT	NT	NT	NT	NT
Hexamethylenetetramine 40%	120	R	120	R	NT	NT_
Hexane	150	R	150	R	120	
Hexane Sulfonic Acid	120	R	120		NT	
Hexylene Glycol	NT	NT	NT NT	NT NT	NT	NT
Honey	NT	NT	NT		INT	NT NT
Horseradish	NT	NT R	150	R	NT	NT
Hydraulic Fluid	150 NR	R	NR	R	NR	8
Hydrazine 35% Hydrazine	NR	R	NR	R	NR	R
Hydrazine Hydrate	NR	R	NR	R	NR	R
Hydriodic Acid 20%	150	R	150	R	80	R
Hydriodic Acid 20%	150	R	150	R	NR	NR
Hydrobromic Acid 20%	150	R	150	R	NR	R
Hydrobromic Acid 25%	150	R	150	R	NR	NR
Hydrobromic Acid 20%	150	R	150	R	NR	NR
Hydrobromic Acid 52%	100	R	100	R	NR	NR
Hydrochloric Acid 5% (6, 10)	150	R	150	R	100	R
Hydrochloric Acid 10% (5, 6, 10)	150	R	150	R	100	R
Hydrochloric Acid 15% (5, 6, 10)	150	R	150	R	NR	R
Hydrochloric Acid 20% (5, 6, 10)	150	R	150	R	NR	R
Hydrochloric Acid 30% (5, 6, 10)	100	R	100	R	NR	NR
Hydrochloric Acid 37% (3, 5, 6, 12)	100	R	100	R	NR	NR
Hydrocyanic Acid, All	150	R	150	R	NT	NT
Hydrofluoric Acid 10% (1, 2, 4, 7, 9)	NR	NR	120	R	NR	NR
Hydrofluoric Acid 20% (1, 2, 4, 7, 9)	NR	NR	80	R	NR	NR
Hydroflouric Acid 35% (1, 2, 4, 7, 9)	NR	NR	NR	R	NR	NR
Hydrofluoric Acid 50% (1, 2, 4, 7, 9)	NR	NR	NR	R	NR	NR
Hydrofluoric Acid 70% (1, 2, 4, 7, 9)	NR	NR	NR	R	NR	NR
Hydrofluosilicic Acid 10% (1, 2, 4, 7, 9)	NR	NR	150	R	NR	NR
	INK					
Hydrofluosilicic Acid 25% (1, 2, 4, 7, 9)	NR	NR	80	R	NR	NR
Hydrofluosilicic Acid 25% (1, 2, 4, 7, 9) Hydrofluosilicic Acid 30% (1, 2, 4, 7, 9)			80 80	R R	NR NR	NR NR
	NR	NR			_	

ARIZONA DEPARTMENT OF ENVIRONMENTAL QUALITY

JAN 1 5 2008

<u> </u>	Cor	Cote HP	Cor-C	ote HP FF	Co	-Cote SC
Chemical Environment and Concentration (%)	Immersion	Secondary Containment	Immersion	Secondary Containment	Immersion	Secondary Containment
Gasoline, Diesel	NR	R	NR	R	120	R
Gasoline, Jet Fuel JP4	NR	R	NR	R	120	R
Gasoline, Leaded	NR	R	NR	R	120	R
Gasoline, Premium Unleaded	NR	R	NR	R	120	R
Gasoline, Regular Unleaded	NR	R	NR	R .	. 120	R
Gasoline (White)	NR	R	NR	R	120	R
Gasoline (White) 90% Unleaded, 10% Ethanol	NR	R	NR	R	120	R
Gasoline (White) 90% Unleaded, 10% MTBE	NR	R	NR	R	120	R
Gasoline (White) 90% Unleaded, 10% Methanol	NR	R	NR	R	120	R
Gasoline (White) 80% Unleaded Metahnol 20%	NR	R	NR	R	120	R
Gin, 80 Proof (40% Ethanol)	NR	R	NR	R	NR	R
Glacial Acetic Acid (see Acetic Acid 100%)	NR	NR	NR	NR	NR	NR
Glucose	NR	R	120	R	120	R
Glutaraldehyde 50%	NT	NT	NT	NT	NT	NT
Glutaric Acid 50%	NT	NT	NT	NT	NT	NT
Glycerin	NR	R	120	R	120	R
Glycerol	NR	R	120	R	120	R
	NT	NT	NT	NT	NT	
Glycolic Acid 70%	NR	R	NR	R	NR	
Glyconic Acid 50%	NT	NT	NT		NT	NT
Glyoxal 40%	NT	R NT	NT		NT	R
Gold Plating Solution (Cyanide) Green Liquor, All (4, 9)	NR	R	NR NR	R	120 NR	R
		R	120	R	120	R
Grape Juice	NR	R	80	R	80	R
Grapefruit Julce Halogenated Polyester Resin	NR NT	NT	NT		NT	
Heat Transfer Agent	NT	NT	NT	INT	NT	
Heptane	NR	R	120	R	120	R
Heptanoic Acid	NR NR	R	NR	R	NR	R
Herbicides	NT	NT	NT		NT	NT
Hexachloroethane	NT	NT NT	NT	NT	NT	NT
Hexachlorocyclopentadiene	NT	NT	NT	NT	NT	NT
Hexamethylenetetramine 40%	NT	NT	NT	NT	NT	NT
Hexane	NR	R	120	R	120	R
Hexane Sulfonic Acid	NT	NT	NT	NT	NŤ	NT
Hexylene Glycol	NR	R	80	R	80	R
Honey	NT	NT	NT	NT	NT	NT
Horseradish	NT	NT	NT	NT	NT	NT
Hydraulic Fluid	NT	NT	NT	NT	NT	NT
Hydrazine 35%	NR	NR	NR	NR	NR	R
Hydrazine	NR	R	NR	R	NR	R
Hydrazine Hydrate	NR	R	NR	R	NR	R
Hydriodic Acid 20%	NR	NR	NR	NR	NR	NR
Hydriodic Acid 40%	NR	NR	NR	NR	NR	NR
Hydrobromic Acid 20%	NR	NR	NR	NR	NR	NR
Hydrobromic Acid 25%	NR	NR	NR	NR	NR	NR
Hydrobromic Acid 50%	NR	NR	NR	NR	NR	NR
Hydrobromic Acid 62%	NR	NR	NR	NR	NR	NR
Hydrochloric Acid 5% (6, 10)	NR	R	100	R	100	R
Hydrochloric Acid 10% (5, 6, 10)	NR	R	100	R	1,00	R
Hydrochloric Acid 15% (5, 6, 10)	NR	R	NR	R	NR	R
Hydrochloric Acid 20% (5, 6, 10)	NR	NR	NR	NR	NR	NR
Hydrochloric Acid 30% (5, 6, 10)	NR	NR	NR	NR	NR	NR
Hydrochloric Acid 37% (3, 5, 6, 12)	NR	NR	NR	NR	NR	NR
Hydrocyanic Acid, All	NT	NT	NT	NT	NT	NT
Hydrofluoric Acid 10% (1, 2, 4, 7, 9)	NR	NR	NR	NR	NR	NR
Hydrofluoric Acid 20% (1, 2, 4, 7, 9)	NR	NR	NR	NR	NŔ	NR
Hydroflouric Acid 35% (1, 2, 4, 7, 9)		NR	NR	NR	NR	NR
Hydrofluoric Acid 50% (1, 2, 4, 7, 9)	NR	NR	NR	NR	NR	NR
Hydrofluoric Acid 70% (1, 2, 4, 7, 9)	NR	NR	NR	NR	NR	NR
Hydrofluosilicic Acid 10% (1, 2, 4, 7, 9)	NR	NR	NR	NR	NR	R
Hydrofluosilicic Acid 25% (1, 2, 4, 7, 9)	NR	NR	NR	NR	NR NR	NR
Hydrofluosilicic Acid 30% (1, 2, 4, 7, 9)	NR	NR	NR	NR NR	NR NR	NR NR
Hydrofluosilicic Acid 35% (1, 2, 4, 7, 9)	NR	NR	NR			

ARIZONA DEPARTMENT OF ENVIRONMENTAL QUALITY

JAN 15 2008

Chemical Environment and Concentration (%) Gasoline, Diesel Gasoline, Jet Fuel JP4 Gasoline, Leaded Gasoline, Premium Unleaded Gasoline, Regular Unleaded Gasoline (White) Gasoline (White) 90% Unleaded, 10% Ethanol Gasoline (White) 90% Unleaded, 10% MTBE Gasoline (White) 90% Unleaded, 10% MtBanol Gasoline (White) 90% Unleaded Metahnol Gasoline (White) 80% Unleaded Metahnol 20%	Immersion NR NR NR NR NR NR NR NR NR	Secondary Containment R NR NR NR NR	Immersion 80 80 80	Secondary Containment R R R
Gasoline, Diesel Gasoline, Jet Fuel JP4 Gasoline, Leaded Gasoline, Premium Unleaded Gasoline, Regular Unleaded Gasoline (White) 90% Unleaded, 10% Ethanol Gasoline (White) 90% Unleaded, 10% MTBE Gasoline (White) 90% Unleaded, 10% Methanol	NR NR NR NR NR NR	R NR NR NR	80 80 80	R R
Sasoline, Jet Fuel JP4 Sasoline, Leaded Sasoline, Premium Unleaded Sasoline, Regular Unleaded Sasoline (White) 90% Unleaded, 10% Ethanol Sasoline (White) 90% Unleaded, 10% MTBE Sasoline (White) 90% Unleaded, 10% Methanol	NR NR NR NR NR	NR NR NR	80 80	R
Gasoline, Leaded Gasoline, Premium Unleaded Gasoline, Regular Unleaded Gasoline (White) Gasoline (White) 90% Unleaded, 10% Ethanol Gasoline (White) 90% Unleaded, 10% MTBE Gasoline (White) 90% Unleaded,10% Methanol	NR NR NR NR	NR NR	80	
Gasoline, Premium Unleaded Gasoline, Regular Unleaded Gasoline (White) Gasoline (White) 90% Unleaded, 10% Ethanol Gasoline (White) 90% Unleaded, 10% MTBE Gasoline (White) 90% Unleaded,10% Methanol	NR NR NR	NR		10
Gasoline, Regular Unleaded Gasoline (White) Gasoline (White) 90% Unleaded, 10% Ethanol Gasoline (White) 90% Unleaded, 10% MTBE Gasoline (White) 90% Unleaded,10% Methanol	NR NR			
Gasoline (White) Gasoline (White) 90% Unleaded, 10% Ethanol Gasoline (White) 90% Unleaded, 10% MTBE Gasoline (White) 90% Unleaded,10% Methanol	NR	INR	80	R
Gasoline (White) 90% Unleaded, 10% Ethanol Gasoline (White) 90% Unleaded, 10% MTBE Gasoline (White) 90% Unleaded,10% Methanol			80 ·	R =-
Gasoline (White) 90% Unleaded, 10% MTBE Gasoline (White) 90% Unleaded,10% Methanol	NR	NR	80	R
Gasoline (White) 90% Unleaded, 10% Methanol		NR	80	R
	NR	NR	80	R
Sasoline (White) 80% Unleaded Metannol 20%	NR	NR	80	NT
Gin, 80 Proof (40% Ethanol)	NR	NR	80 NT	NT
	NR	R		NR
Glacial Acetic Acid (see Acetic Acid 100%)	NR NT	NT	NR	NT
GlucoseGlutaraldehyde 50%		NT	NT	NT
Glutaraidenyde 50%		NT	NT	NT
Glycerin	NT		80	R
Giycerin		NT	80 NT	NT
Glycol			NT	
Glycolic Acid 70%	NR	NR NR	NT	
Glyconic Acid 50%	NR	NT NT		
Glyoxal 40%	NT	NT	NT	NT
Gld Plating Solution (Cyanide)	NT	NT	NT	INT
Green Liquor, All (4, 9)	NT	NT	NR	R
Grape Juice	NT	NT	NT	NT
Grapefruit Juice	NT	NT	100	R
Halogenated Polyester Resin	NT	NT	NT	NT
Heat Transfer Agent	NT	NT	NT	
Heptane	NT	NT	80	R
Heptanoic Acid	NT	NT	NR	R
Herbicides	NT	NT	NT	NT
Hexachioroethane	NT	NT	NT	NT
Hexachlorocyclopentadiene	NT	NT	NT	NT
Hexamethylenetetramine 40%	NT	NT	NT	NT
Hexane	NŤ	R	80	R
Hexane Sulfonic Acid	NT	NT	NT	NT
Hexylene Glycol	NT	NT	100	R
Honey	NT	NT	NT	NT
Horseradish	NT	NT	NT	NT
Hydraulic Fluid	NR	R	NR	R
Hydrazine 35%	NT	NT	NT	NT
Hydrazine	NT	NT	NT	NT
Hydrazine Hydrate	NT	NT	NT	NT
Hydriodic Acid 20%	NT	NT	NT	NT
Hydriodic Acid 40%	NT	NT	NT	NT
Hydrobromic Acid 20%	NT	NT	NT	NT
Hydrobromic Acid 25%	NT	NT	NT	NT
Hydrobromic Acid 50%	NT	NT	NT	NT
Hydrobromic Acid 62%	NT	NT	NT	ŇT
Hydrochloric Acid 5% (6, 10)	NR	R	NT	R
Hydrochloric Acid 10% (5, 6, 10)	NR	R	NT	R
Hydrochloric Acid 15% (5, 6, 10)	NR	R	NT	R
Hydrochloric Acid 20% (5, 6, 10)	NR	R	NT	NR
Hydrochloric Acid 30% (5, 6, 10)	NT	NT	NT	NT
Hydrochloric Acid 37% (3, 5, 6, 12)	NT	NT	NR	NR
Hydrocyanic Acid, All	NT	NT	NT	NT
Hydrofluoric Acid 10% (1, 2, 4, 7, 9)	NR	NR	NT	
Hydrofluoric Acid 20% (1, 2, 4, 7, 9)	NR	NR	NT	NT
Hydroflouric Acid 35% (1, 2, 4, 7, 9)	NR	NR	NT	
Hydrofluoric Acid 50% (1, 2, 4, 7, 9)	NR	NR NR	NT	NT
Hydrofluoric Acid 70% (1, 2, 4, 7, 9)	NR	NR	NT	NT
Hydrofluosilicic Acid 10% (1, 2, 4, 7, 9)	NR	R	NT	NT
Hydrofluosilicic Acid 25% (1, 2, 4, 7, 9)	NR	R	NT	NT
Hydrofluosilicic Acid 30% (1, 2, 4, 7, 9)	NR	R	NR	NR
Hydrofluosilicic Acid 35% (1, 2, 4, 7, 9) Hydrogen Bromide, Dry Gas	NR NT	R NT	NT NT	

ARIZONA DEPARTMENT OF ENVIRONMENTAL QUALITY

JAN 15 2008

	Magnar	ux 304 Vinyi Ester	Sher-Glass FF		
Chemical Environment and Concentration (%)		Secondary Containment	Immoreian	Secondary Containment	
	Immersion		Immersion 80	R	
Sasoline, Diesel Sasoline, Jet Fuel JP4	140		80	R	
Gasoline, Leaded	140	R	100	R	
Gasoline, Premium Unleaded	140	R	100	R	
Gasoline, Regular Unleaded	140	R	100	R -	
Gasoline (White)	NT	NT	100	R	
Gasoline (White) 90% Unleaded, 10% Ethanol	80	NR	130	R	
Gasoline (White) 90% Unleaded, 10% MTBE	80	R	120	R	
Gasoline (White) 90% Unleaded,10% Methanol	80	NR	NR	NR	
Gasoline (White) 80% Unleaded Metahnol 20%	NR	NR	NR	NR	
Gin, 80 Proof (40% Ethanol)	100	R	130	R	
Glacial Acetic Acid (see Acetic Acid 100%)	NR	NR	NT	NT	
Glucose	150	R	NT	NT	
Glutaraldehyde 50%	140	R	NT	NT	
Glutaric Acid 50%	100	R	NT	NT	
Glycerin	140	R	NT	NT	
Glycerol	100	R			
Giycol	140	R	NT	NT	
Glyconic Acid 70%	120	R			
Glyconic Acid 50%	140	R		NT NT	
Gigoxal 40% Gold Plating Solution (Cyanide)	120	R		NT	
Green Liquor, All (4, 9)	140	 	NT	NT	
Grape Juice	140			NT	
Grapefruit Juice	NT	NT	NT	NT	
Halogenated Polyester Resin	NT	NT	NT	NT	
Heat Transfer Agent	NT	NT	NT	NT	
Heptane	140	R	NT	NT	
Heptanoic Acid	NT	NT	NT	NT	
Herbicides	140	R	NT	NT	
Hexachloroethane	NR	R	NT	NT	
Hexachlorocyclopentadiene	NT	NT	NT	NT	
Hexamethylenetetramine 40%	100	R	NT	NT_	
Hexane	140	R	NT	NT	
Hexane Sulfonic Acid	80	R	NT	NT	
Hexylene Glycol	NT	NT	NT	NT	
Honey	NT	NT	NT	NT	
Horseradish	NT	NT	NT	NT	
Hydraulic Fluid	140	R	NT		
Hydrazine 35%	NR	NR NR	NT NT	NT NT	
Hydrazine	NR	NR	NT	NT NT	
Hydrazine Hydrate Hydriodic Acid 20%	NR 120	R		NT	
Hydriodic Acid 20%	120	R	NT	NT	
Hydrobromic Acid 20%	140	R	NT	NT	
Hydrobromic Acid 25%	140	R	NT	NT	
Hydrobromic Acid 50%	140	R	NT	NT	
Hydrobromic Acid 62%	100	R	NT	NT	
Hydrochloric Acid 5% (6, 10)	. 120	R	NT	NT	
Hydrochloric Acid 10% (5, 6, 10)	120	R	NT	NT	
Hydrochloric Acid 15% (5, 6, 10)	120	R	NT	NT	
Hydrochloric Acid 20% (5, 6, 10)	120	R	NT	NT	
Hydrochloric Acid 30% (5, 6, 10)	NR	NR	NT	NT	
Hydrochloric Acid 37% (3, 5, 6, 12)	NR	NR	NT	NT	
Hydrocyanic Acid, All	140	R	NT	NT	
Hydrofluoric Acid 10% (1, 2, 4, 7, 9)	120	R	NT	NT	
Hydrofluoric Acid 20% (1, 2, 4, 7, 9)	80	R	NT	NT	
Hydroflouric Acid 35% (1, 2, 4, 7, 9)	NR	NR	NT	NT	
Hydrofluoric Acid 50% (1, 2, 4, 7, 9)	NR	NR	NT	NT	
Hydrofluoric Acid 70% (1, 2, 4, 7, 9)	NR	NR	NT	NT	
Hydrofluosilicic Acid 10% (1, 2, 4, 7, 9)	150	R	NT	NT	
Hydrofluosilicic Acid 25% (1, 2, 4, 7, 9)	NR	R	NT	NT NT	
Hydrofluosilicic Acid 30% (1, 2, 4, 7, 9)	NR	R			
Hydrofluosilicic Acid 35% (1, 2, 4, 7, 9)	B0 140	R	NT		

ARIZONA DEPARTMENT OF ENVIRONMENTAL QUALITY

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JAN 15 2008

	Cor-Cote VEN FF		Cor-Lo	te VEN GF	Cor-Cote HCR FF		
Chemical Environment and Concentration (%)	Immersion	Secondary Containment	Immersion	Secondary Containment	Immersion	Secondary Containment	
	150	R	150	R	NT	NT	
Hydrogen Bromide, Wet Gas Hydrogen Chloride, Dry Gas	210		210	R	NT	NT	
Hydrogen Chloride, Wet Gas	150	R	150	R	NT	NT	
Hydrogen Chloride Anhydrous	150	R	150	R	NT	NT -	
Hydrogen Fluoride Dry Gas/Vapor (4, 9)	150	R	150	R	NT.	NT	
Hydrogen Peroxide 5% (8)	150	R	150	R	NR	R	
Hydrogen Peroxide 10% (8)	150	R	150	R	NR	R	
Hydrogen Peroxide 30% (8)	150	R	150	R	NR	R	
Hydrogen Peroxide 50% (8)	NR	R	NR	R	NR	R	
Hydrogen Sulfide 5%	150	R	150	R	140	R	
Hydrogen Sulfide Gas	150	R	150	R	140	R	
Hydrogen Sulfide, Wet	150	R	150	R	140	R	
Hydroguinone	NT		NT	NT	NT	NT	
Hydrosulfite Bleach, Aqueous	150	R	150	R	NT	NT	
Hydroxyacetic Acid 70% (see Glycolic Acid)	100	R	100	R	NT	NT	
Hydroxylamine Sulfate	150	R	150	R	NT	INT	
Hypo (Photographic Solution)	150	R	150	R	120	R	
Hypochlorous Acid 10% (8)	NR	R	NR	R	NR	R	
Hypochlorous Acid 10% (8) Hypophosphorous Acid 50%	120	R	120	R	NT	NT	
Hypophosphorous Acia 50% Hyrochl Acid+Free Chlor, All	120 NT	NT	NT	NT	NT		
Ink Remover		NT NT	NT		NT	NT	
Insecticide Emulsions	120	R	120	R	NT NT	NT -	
Intermediate Polyether	120 NT		NT	NT	120	R	
•	150	R	150	R	NT		
Iodine Vapor		R	130		NR	R	
lodine, Crystals	140		NT	NT	INT	NT	
lodophor	NT		NT	NT	NT	NT	
Iridate 10%	NT			NT	NT	NT	
Iron Arsenic Sludge	NT		NT			NT	
Iron Plating Solution	150		150	R	NT NT	NT NT	
Iron and Steel Cleaning Bath	150	R	150	R			
Isobornyl Acetate	NT	NT	NT	NT	NT		
Iso Butane	120	R	120	R	NT	NT	
Isoamy! Alcohol	150	R	150	R	NT	NT	
Isobutyl Alcohol	150	R	150	R	NT	NT	
lsobutyraldehyde	NT	NT	NT	NT	NT	NT	
Isodecanoi Alcohol	150	R	150	R	NT	NT	
Isononyi Alcohol	150	R	150	<u>,</u> R	NT	NT	
Isooctyl Adipate	150	R	150	R	NT	NT	
Isoocyti Alcohol	150	R	150	R	NT	NT	
Isooctylthioglycolcolate	120	R	120	R	80	R	
Isopar M	NT	NT	NT	NT	NT	NT	
Isophorone	100	R	100	R	NR	R	
Isopropanol Amine	120	R	120	R	120	R	
Isopropyl Acetate	NR	NR	NR	NR	NR	R	
Isopropyl Alcohol (Isopropanol)	150	R	150	R	120	R	
Isopropyl Amine	NR	NR	NR	NR	NT	NT	
Isopropyl Ether	NR	NR	NR	NR	NR	R	
Isopropyl Myristate	150	R	150	R	NT	NT	
Isopropyl Palmitate	150	R	150	R	NT	NT	
Itaconic Acid 25%	120	R	120	R	NT	NT	
Jet Fuel A	150	R	150	R	120	R	
Jet Fuel JP (1, 3, 4, 5)	150	R	150	R	120	R	
Jet Turbine Oil	150	R	150	R	NT	NT	
Kaolin (Saturated China Clay)	NT	NT	NT	NT	100	R	
Karate Insecticide	NT	NT	NT	NT	100	R	
Кегозепе	150	R	150	R	120	R	
Ketchup	150	R	150	R	120	R	
Keystone 1351	NT	NT	NT	NT	NT	NT	
Kraft Rec Boiler Breeching	NT	NT	NT	NT	NT	NT	
Kymene	NT	NT	NT	NT	NT	NT	
Lactic Acid 5%	150	R	150	R	NR	NR	
Lactic Acid 10%	150	R	150	R	NR	NR	
Lactic Acid 20%	150	R	150	R	NR	NR	
Lactic Acid, All	150	R	150	R	NR	NR	
Lactic Acid Concentrated	150	R	150	R	NR	R	

ARIZONA DEPARTMENT OF ENVIRONMENTAL QUALITY

JAN 15 2008

	Cor-C	ote HP	Cor-Cote HP FF		Cor-Cote SC	
		Secondary		Secondary		Secondary
Chemical Environment and Concentration (%)	Immersion	Containment	Immersion	Containment	Immersion	Containment
Hydrogen Bromide, Wet Gas	NT	NT	NT	NT	NT	NT
Hydrogen Chloride, Dry Gas	NT	NT	NT	NT	NT	NT
Hydrogen Chloride, Wet Gas	NT	NT	NT	NT	NT	NT
Hydrogen Chloride Anhydrous	NT	NT	NT	NT	NT	NT
Hydrogen Fluoride Dry Gas/Vapor (4, 9)	NT	NT	NT	NT	NT	NT
Hydrogen Peroxide 5% (8)	NR	R	NR	R	NR	R
Hydrogen Peroxide 10% (8)	NR	R	NR	R	NR	R
Hydrogen Peroxide 30% (8)	NR	R	NR	R	NR	R
Hydrogen Peroxide 50% (8)	NR	R	NR	R	NR	R
Hydrogen Sulfide 5%	NR	R	80	R	80	R
Hydrogen Sulfide Gas	NR	R	80	R	80	R
Hydrogen Sulfide, Wet	NR	R	80	R	80	R
Hydroquinone	NT	NT	NT	NT	NT	NT
Hydrosulfite Bleach, Aqueous	NT	NT		NT	NT	NT
Hydroxyacetic Acid 70% (see Glycolic Acid)	NT	NT	NT NR	NT	NT NR	NT
Hydroxylamine Sulfate	NR NR	R	NR	R	120	R
Hypo (Photographic Solution) Hypochlorous Acid 10% (8)		NR	NR	NR	NR	NR
Hypophosphorous Acid 50%	NT	NT	NT	NT	NT	NT
Hyrochi Acid+Free Chlor, All	NT	NT	NT	NT	NT	NT
Ink Remover	NT	NT	NT	NT	NT	NT
Insecticide Emulsions	NT	NT	NT	NT	NT	NT
Intermediate Polyether	NR	R	120	R	120	R
Iodine Vapor	NT	NT	NT	NT	NT	NT
Iodine, Crystals	NR	NR	NR	NR	NR	NR
lodophor	NT	NT	NT	NT	NT	NT
Iridate 10%	NT	NT	NT	NT	NT	NT
Iron Arsenic Sludge	NR	R	80.	R	80	R
Iron Plating Solution	NT	NT	NT	NT	NT	NT
Iron and Steel Cleaning Bath	NT	NT	NT	NT	NT	NT
Isobornyl Acetate	NT		NT	NT	NT	NT
Iso Butane	NT	NT	NT	NT	NT	NT
Isoamyl Alcohol	NT	NT	NT	NT	NT	NT
isobutyl Alcohol	NT	NT	NT	NT		NT
Isobutyraldehyde	NT	NT	NT	NT	NT	
Isodecanol Alcohol	NT NT	NT	NT NT		NT	NT
Isononyl Alcohol Isooctyl Adipate	NT	NT NT	NT	NT	NT	NT
Isoocyt Alcohol	NT	NT	NT	NT	NT	NT
Isooctylthioglycolcolate	NR	R	NR	R	NR	R
Isopar M	NT	NT NT	NT	NT	INT	NT
Isophorone	NR	R	NR	R	NR	R
Isopropanol Amine	NR	R	NR	R	NR	R
Isopropyl Acetate	NR	NR	NR	NR	NR	NR
Isopropyl Alcohol (Isopropanol)	NR	R	NR	R	NR	R
Isopropyl Amine	NT	NT	NT	NT	NT	NT
Isopropyl Ether	NR	NR	NR	NR	NR	NR
Isopropyl Myristate	NT	NT	NT	NT	NT	NT
Isopropy Palmitate	NT	NT	NT	NT	NT	NT
Itaconic Acid 25%	NT	NT	NT	NT	NT	NT
Jet Fuel A	NR	R	120	R	120	R
Jet Fuel JP (1, 3, 4, 5)	NR	R	120	R	120	R
Jet Turbine Oil	NT	NT	NT	NT	NT 100	NT
Kaolin (Saturated China Clay) Karate Insecticide	NR	R	100	R	100	R
Karate insecticide Kerosene	NR NR	R	100	R	100	R
Kerosene Ketchup	NR	R	120	R	120	R
Keystone 1351	110.5		NT NT		NT	NT NT
Kraft Rec Boiler Breeching	NT			1.111		
	NT			NT	NT	NT
Kymene	NT	NT	NT	NT NT	NT NT	
Kymene Lactic Acid 5%	NT NT	NT NT	NT NT	NT	NT NT NR	NT
Lactic Acid 5%	NT NT NR	NT NT NR	NT NT NR	NT NR	NT NR	
	NT NT	NT NT	NT NT	NT	NT	NT
Lactic Acid 5% Lactic Acid 10%	NT NT NR NR	NT NT NR NR	NT NT NR NR	NT NR NR	NT NR NR	NT NR NR

ARIZONA DEPARTMENT OF ENVIRONMENTAL QUALITY

JAN 15 2008

	EnviroLa	stic AR425 and AR200 HD	Fas	t-Clad ER
Chemical Environment and Concentration (%)	Immersion	Secondary Containment	Immersion	Secondary Containment
Hydrogen Bromide, Wet Gas	NT	NT	NT	NT
Hydrogen Chloride, Dry Gas	NT	NT	NT	NT
Hydrogen Chloride, Wet Gas	NŤ	NT	NT	NT
Hydrogen Chloride Anhydrous	NT	NT	NT	NT
Hydrogen Fluoride Dry Gas/Vapor (4, 9)	NT	NT	NT	NT
Hydrogen Peroxide 5% (8)	NR	· NR	100	R
Hydrogen Peroxide 10% (8)	NR	NR	NT	NT
Hydrogen Peroxide 30% (8)	NR	NR	NR	NR
Hydrogen Peroxide 50% (8)	NR	NR	NT	NT
Hydrogen Sulfide 5%	80	R	NT	
Hydrogen Sulfide Gas	80	R	NT	
Hydrogen Sulfide, Wet	80 NT		NT	NT
Hydroquinone	NT	- NT	NT	NT
Hydrosulfite Bleach, Aqueous Hydroxyacetic Acid 70% (see Glycolic Acid)	NT	NT	NT	NT
Hydroxylamine Sulfate	NT NT		NR	R
Hypo (Photographic Solution)	NT	NT	NT	
Hypochlorous Acid 10% (8)	NT	NT	NT	NT
Hypophosphorous Acid 50%	NT		NT	NT
Hyrochl Acid+Free Chlor, All	NT	NT	NT	NT
Ink Remover	NT		NT	NT
Insecticide Emulsions	NT	NT NT	NT	NT
Intermediate Polyether	NT	NT	NT	NT
iodine Vapor	NT	NT NT	NR	NR
lodine, Crystals	NT	NT	NT	NT
lodophor	NT	NT	NT	NT
Iridate 10%	NT	NT	NT	NT
Iron Arsenic Sludge	NT	NT	100	R
fron Plating Solution	NT	NT	NT	NT
Iron and Steel Cleaning Bath	NT	NT	NT	NT
Isobornyl Acetate	NT	NT	NT	NT
Iso Butane	NT	NT	80	R
Isoamyl Alcohol	NT	NT	ŇT .	R
Isobutyl Alcohol	NT	NT	NT	R
Isobutyraidehyde	NT	NT	NT	NT
Isodecanol Alcohol	NT	NT	NT	R
Isononyl Alcohol	NT	NT	NT	R
Isooctyl Adipate	NT	• NT	NT	NT
Isoocytl Alcohol	NT	NT	NT	NT
Isooctylthioglycolcolate	NT	NT	NT	NT
Isopar M	NT	NT	NT	NT
Isophorone	NT	NT	NT	R
Isopropanol Amine	NT	NT	NT	NT
Isopropyl Acetate	NT	NT	NR	R
isopropyl Alcohol (Isopropanol)	NR	NR	NT	R
Isopropyl Amine	NT	NT	NT	NT
Isopropyl Ether	NT	NT	NT	
Isopropyl Myristate	NT	NT	NT	NT
Isopropyl Palmitate	NT	NT	NT NT	NT NT
Itaconic Acid 25%	NR	R	80	R
Jet Fuel A Jet Fuel JP (1, 3, 4, 5)	NR	NT NT	80	R
Jet Fuel JP (1, 3, 4, 5) Jet Turbine Oil	NT	NT		NT
Kaolin (Saturated China Clay)	80		TNT	NT
Kaolin (Saturated China Clay)	NT	NT NT	NT	NT
Kerosene	NR	R	80	R
Ketchup	NT	NT	NT	NT
Keystone 1351	NT	NT	NT	
Kraft Rec Boiler Breeching	NT		NT	
Kymene	NT	NT	80	R
Lactic Acid 5%	NT	R	100	R
Lactic Acid 10%	NT	R	NT	NT
Lactic Acid 20%	NT	R	NT	NT
Lactic Acid 20%	NT	R	NT	NT
Lactic Acid Concentrated	NT		NT	NT

ARIZONA DEPARTMENT OF ENVIRONMENTAL QUALITY

JAN 1 5 2008

	Magnali	ux 304 Vinyl Ester	Sher	r-Glass FF
Chemical Environment and Concentration (%)	Immersion	Secondary Containment	Immersion	Secondary Containment
Hydrogen Bromide, Wet Gas	140	R	NT	NT
lydrogen Chloride, Dry Gas	160	R	NT	NT
lydrogen Chloride, Wet Gas	140	R	NT	NT
Hydrogen Chloride Anhydrous	140	R	NT	NT
Hydrogen Fluoride Dry Gas/Vapor (4, 9)	140	R	NT	NT
Hydrogen Peroxide 5% (8)	140	R	NT	NT
Hydrogen Peroxide 10% (8)	140	R	NT	NT
Hydrogen Peroxide 30% (8)	120	R	NT	NT
Hydrogen Peroxide 50% (8)	NR	NR	NT	NT
Hydrogen Sulfide 5%	140	R	NT	NT
Hydrogen Sulfide Gas	140	R	NT	NT
Hydrogen Sulfide, Wet	140	R	NT	NT
Hydroquinone	NT	NT	NT	NT
Hydrosulfite Bleach, Aqueous	140	R	NT	
Hydroxyacetic Acid 70% (see Glycolic Acid)	100	R		NT
Hydroxylamine Sulfate	140	NT	NT NT	NT
Hypo (Photographic Solution)	140	R NR	NT NT	NT NT
Hypochlorous Acid 10% (8)	NR	R		NT
Hypophosphorous Acid 50% Hyrochl Acid+Free Chlor, All	140 NT	NT		NT
Ink Remover	NT	I NT	NT	NT
Insecticide Emulsions	140	R	NT	NT
Intermediate Polyether	NT NT	NT	NT	NT
Iodine Vapor	120	R	NT	NT
Iodine, Crystals	120	R	NT	NT
lodophor	NT	NT	NT	NT
Iridate 10%	NT	NT	NT	NT
Iron Arsenic Sludge	NT	NT	NT	NT
Iron Plating Solution	140	R	NT	NT
Iron and Steel Cleaning Bath	140	R	NT	NT
Isobornyl Acetate	NT	NT	NT	NT
Iso Butane	140	R	NT	NT
Isoamyl Alcohol	140	R	NT	NT
Isobutyi Alcohol	140	R	NT	NT
Isobutyraldehyde	NT	NT	NT	NT
Isodecanol Alcohol	140	R	NT	NT
Isononyl Alcohol	140	R	NT	NT
Isooctyl Adipate	140	R	NT	NT
isoocytl Alcohol	140	R	NT	NT
IsooctyIthioglycolcolate	120	R	NT	NT
Isopar M	NT	NT	NT	NT
Isophorone	100	R	NT	NT
Isopropanol Amine	140	R	NT	NT
Isopropyl Acetate	NR	NR	NT	NT
Isopropyl Alcohol (Isopropanól)	120	R	NT	NT
Isopropyl Amine	NR	NR	NT	NT
Isopropyl Ether	NR	NR	NT	NT
Isopropyl Myristate	140	R	NT	NT
Isopropyl Palmitate	140	R	NT	
Itaconic Acid 25%	140	R		NT
Jet Fuel A	140	R	80	R
Jet Fuel JP (1, 3, 4, 5)	120	R		NT
Jet Turbine Oil	140	R	NT NT	
Kaolin (Saturated China Clay)	NT	we want the second seco		NT
Karate Insecticide	NT 140	R	NT	NT
Kerosene	140	R	NT	NT
Ketchup Keystone 1351	NT	NT	NT	NT
	NT	NT		NT
Kraft Rec Boiler Breeching	NT	NT		NT
Lactic Acid 5%	140	R		
Lactic Acid 5%	140	R	NT	NT
Lactic Acid 10%	140	R	NT	NT
Lactic Acid 20%	140	R	NT NT	NT NT
Lactic Acid, All	140	R	NT	NT

ARIZONA DEPARTMENT OF ENVIRONMENTAL QUALITY

JAN 15 2008

Waste Programs Div. Permits Section

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	Cor-Cot	e VEN FF	Cor-Cot	e VEN GF	Cor-Co	te HCR FF
		Secondary		Secondary		Secondary
Chemical Environment and Concentration (%)	Immersion	Containment	Immersion	Containment	Immersion	Containment
Lard	150	R	150	R	100	R NT
Lasso Herbicide	120 120	R R	120 120	R	NT 100	R
Latex	120	R	120	R	NR ⁻	R
Lauryl Alcohol	150	R	150	R	80	R
Lauryl Chloride	150	R	150	R	80	R
Lauryl Chloride, Acidic	NT	NT	NT	NT	NT	NT
Lauryldimethylamine	NT	NT	NT	NT	NT	NT
Lauryl Mercaptain, All	150	R	150	R	NT	NT
Lead Acetate, All	150	R	150	R	120	R
Lead Chloride	150	R	150	R	NT	NT
Lead Nitrate	150	R	150	R	NT	NT
Leachate (Landfill)	NT	NT	NT	<u>NT</u>	80	R
Lecithin	120	R	120	R	120	R
Lemon Juice	NT 150	R R	NT 150	NT R	NT 120	R
Levulinic Acid, All	150 NT	NT	NT	NT	NT	NT
Light Water	NT	NT	NT	NT	NT	NT
Limestone, Saturated	150	R	150	R	NT	NT
Linseed Oil	150	R	150	R	120	R
Lithium Bromide, Saturated	150	R	150	R	NT	NT
Lithium Carbonate, Saturated (1, 2, 4, 7)	150	R	150	R	NT	NT
Lithium Chloride 40%	150	R	150	R	NT	NT
Lithium Chloride, Saturated	150	R	150	R	NT	NT
Lithium Hydroxide 10% (1, 2, 4, 7)	NR	R	80	R	120	R
Lithium Hydroxide, Saturated (1, 2, 4, 7)	NR	R	80	R	NR	R
Lithium Hypochlorite, All (1, 2, 4, 7, 8)	NR	R R	80	R	NR NT	NR
LP Gas	120	R	120	R	120	R
Lube / Motor Oils, All	150 NT	NT	NT	NT	NT	NT
Lusol	NT	NT	NT	NT	NT	NT
Magnesium Bisulfite, All	150	R	150	R	NT	NT
Magnesium Carbonate, All	150	R	150	R	NT	NT
Magnesium Chloride, All	150	R	150	R	NT	NT
Magnesium Fluosilicate, All (1, 2, 4, 7)	150	R	150	R	NT	NT
Magnesium Hydroxide, All	100	R	100	R	NT	NT
Magnesium Nitrate, All	150	R	150	R	NT	NT
Magnesium Sulfate, All	150	R	150	R	NT	NT
Magnifloc 500 Series Products, All	120	R	120	R	NT	NT
Magnifloc 837A Products, All	150	R	150	R	NT	R
Maleic Acid Maleic Anhydrite	150	R	150 150	R	120 NT	NT
Maleic Annyante	150 150	R	150	R	120	R
Manganese Ammonium Sulfate	NT	NT	NT	INT	NT	NT
Manganese Chloride, All	150	R	150	R	NT	NT
Manganese Sulfate, All	150	R	150	R	NT	NT
MeCI:Methanol:Water 1:4:95	NT	NT	NT	NT	NT	NT
Melamine Formalde Res, All	120	R	120	R	NT	NT
Mercaptoacetic Acid, All	100	R	100	R	NT	NT
Mercaptoethanol	150	R	150	R	NT	NT
Mercuric Chloride	150	R	150	R	NT	NT
Mercury	150	R	150	R	120	R
Mercury and Salts	150	R	150	R	120 NT	NT
Methacrylic Acid Crude Methacrylic Acid Glacial	100	R	100	R	NT	NT
Methacrylic Acid Glacial	100	R	100	R	NT	NT
Methane Gas 20%	1				1	
Methane Sulfonic Acid	100	R	100	R	NT	NT
Methanesulfonic Acid Anhydrous	NT	NT	NT	NT	NT	NT
Methanesulfonic Chloride	NT	NT	NT	NT	NT	NT
Methanesulfonyl Chloride	NT	NT	NT	NT	NT	NT
Methanol 5%	100	R	100	R	NR	R
Methanol 20 - 100%	100	R	100	R	NR	R
Methanol 38 1%; Chloroform 1.2%; Water 60.7%	NT	NT	NT	NT	NR	R
Methanol 50%; Hydrochloric Acid 5%; Water 45%	NR	R	NT	R	NT	NT

ARIZONA DEPARTMENT OF ENVIRONMENTAL QUALITY

JAN 15 2008

Waste Programs Div. Permits Section

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		Cote HP	1	ote HP FF		r-Cote SC
Chemical Environment and Concentration (%)	Immersion	Secondary Containment	Immersion	Secondary Containment	Immersion	Secondary Containment
_ard	NR	R	120	R	100	R
Lasso Herbicide	NT	NT	NT	NT	NT	NT
atex	NR	R	100	R	100	R
Lauric Acid	NR	NR	NR	NR	- NR	NR
Lauryl Alcohol	NR	R	80	R	80	R
Lauryl Chloride	NR	R	NR	R	NR	R
Lauryl Chloride, Acidic	NT	NT	NT	NT	NT	NT
Lauryldimethylamine	ŅT	NT	NT	NT	NT	NT
Lauryl Mercaptain, All	NT	NT	NT	NT	NT	NT
Lead Acetate, All	NR	R	120	R	NR	<u>R</u>
Lead Chloride	NT	NT	NT	NT	NT	NT
Lead Nitrate	NT	NT	NT	NT	NT	NT
Leachate (Landfill)	NR	R	80	R	80	R
Lecithin	NR	R	100	R	100	R
Lemon Juice	NT	NT	NT	NT	NT	NT
Levulinic Acid, All	NR	NR	100	NR	NR	NR
Light Water	NT NT	R NT	NT NT	R	NT	R NT
Lime Juice Limestone, Saturated	NT	NT	NT		NT	NT
Limestone, Saturated	NR	R	100	R	NR	R
Lithium Bromide, Saturated	NT	NT	NT	NT	NT	NT
Lithium Carbonate, Saturated (1, 2, 4, 7)	NT	NT	NT	NT	NT	NT
Lithium Chloride 40%		NT	NT	NT	NT	NT
Lithium Chloride, Saturated	NT	NT	NT	NT	NT	NT
Lithium Hydroxide 10% (1, 2, 4, 7)	NR	NR	120	R	120	R
Lithium Hydroxide, Saturated (1, 2, 4, 7)	NR	NR	NR	R	NR	R
Lithium Hypochlorite, All (1, 2, 4, 7, 8)	NR	NR	NR	NR	NR	NR
LP Gas	NT	NT	NT	NT	NT	NT
Lube / Motor Oils, All	NR	R	120	R	120	R
Ludox LS	NT	NT	NT	NT	NT	NT
Lusol	NT	NT	NT	NT	NT	NT
Magnesium Bisulfite, All	NT	NT	NT	NT	NT	NT
Magnesium Carbonate, All	NT	NT	NT	NT	NT	NT
Magnesium Chloride, All	NT	NT	NT	NT	NT	NT
Magnesium Fluosilicate, All (1, 2, 4, 7)	NT	NT	NT	NT	NT	NT
Magnesium Hydroxide, All	NT	NT	NT	NT	NT	NT
Magnesium Nitrate, All	NT	NT	NT	. NT	NT	NT
Magnesium Sulfate, All	NT	NT	NT	NT	NT	NT
Magnifloc 500 Series Products, All	NT	NT	NT	NT NT	NT NT	NT NT
Magnifloc 837A Products, All	NT	NR	NR	NR	NR	NR
Maleic Acid	NR	NR	NR	NR	NR	NR
Maleic Anhydrite Malic Acid	NR	NR	80	NR	NR	NR
Manganese Ammonium Sulfate	NT		NT	NT	NT	NT
Manganese Chloride, All	NT	NT	NT	NT	NT	NT
Manganese Sulfate, Ali	NT	NT	NT	NT	NT	NT
MeCl:Methanol:Water 1:4:95	NT	NT	NT	NT	NT	NT
Melamine Formalde Res, All	NT	NT	NT	NT	NT	NT
Mercaptoacetic Acid, All	NT	NT	NT	NT	NT	NT
Mercaptoethanol	NR	R	NR	R	NR	R
Mercuric Chloride	NT	NT	NT	NT	NT	NT
Mercury	NR	R	80	R	80	R
Mercury and Salts	NR	R	80	R	80	R
Methacrylic Acid Crude	NT	NT	NT	NT	NT	NT
Methacrylic Acid Glacial	NR	R	NR	R	NR	R
Methacrylic Acid	NT	NT	NT	NT	NT	NT
Methane Gas 20%						
Methane Sulfonic Acid	NT	NT	NT	NT	NT	NT
Methanesulfonic Acid Anhydrous	NR	NR	NR	NR	NR	NR
Methanesulfonic Chloride	NT	NT	NT	NT	NT	NT
Methanesulfonyl Chloride	NR	NR	NR	NR	NR	NR
Methanol 5%	NR	NR	NR	NR	NR	NR
Methanol 20 - 100%	NR	NR	NR	NR	NR	NR
Methanol 38 1%; Chloroform 1.2%; Water 60.7%	NT	NT	NT	NT	NT	NT

ARIZONA DEPARTMENT OF ENVIRONMENTAL QUALITY

JAN 15 2008

Waste Programs Div. Permits Section

				Secondary
Chemical Environment and Concentration (%)	Immersion	Secondary Containment	Immersion	Containmen
Lard	NT	NT	140	R
Lasso Herbicide	NT	NT	NT	NT
Latex	NT	NT	100	R
Lauric Acid	NT	NT	NT	
Lauryl Alcohol	NT	NT	NT	NT
Lauryl Chloride	NT	NT	NT	NT
Lauryl Chloride, Acidic	NT NT	NT NT	NT NT	NT NT
Lauryldimethylamine Lauryl Mercaptain, All	NT	NT	NT	NT
Lead Acetate, All	NT	NT	NT	NT
Lead Chloride	NT	NT	NT	NT
Lead Nitrate	NT	NT	NT	NT
Leachate (Landfill)	NT	NT	NT	NT
Lecithin	NT	NT	NT	NT
Lemon Juice	NT	NT	NT	NT
Levulinic Acid, All	NT	NT	NT	NT
Light Water	NT	NT	NT	R
Lime Juice	NT	NT	NT	NT NT
Limestone, Saturated	NT NT		NT	NT
Lithium Bromide, Saturated	NT	NT	NT	NT
Lithium Carbonate, Saturated (1, 2, 4, 7)	NT	NT	NT	NT
Lithium Chloride 40%	NT	NT	NT	NT
Lithium Chloride, Saturated	NT	NT	NT	NT
Lithium Hydroxide 10% (1, 2, 4, 7)	NT	NT	NT	NT
Lithium Hydroxide, Saturated (1, 2, 4, 7)	NT	NT	NT	NT
Lithium Hypochlorite, All (1, 2, 4, 7, 8)	NT	NT	NT	NT
LP Gas	NT	NT	NT	NT
Lube / Motor Oils, All	NT	NT	80	R
Ludox LS	NT	NT	NT	NT
Lusol	NT	NT	NT	NT
Magnesium Bisulfite, All	NT	NT NT	NT	NT
Magnesium Carbonate, All Magnesium Chloride, All	NT	NT	NT	NT
Magnesium Fluosilicate, All (1, 2, 4, 7)	NT	NT	NT	NT
Magnesium Hydroxide, All	NT	NT	100	R
Magnesium Nitrate, All	NT	NT	NT	NT
Magnesium Sulfate, All	NT	NT	NT	NT
Magnifloc 500 Series Products, All	NT	NT	NT	NT
Magnifloc 837A Products, All	NT	NT	NT	NT
Maleic Acid	NT	NT	NT	NT
Maleic Anhydrite	NT	NT	NT	NT
Malic Acid	NT	NT	NT	NT
Manganese Ammonium Sulfate	NT		NT	NT NT
Manganese Chloride, All	NT	NT	NT	NT
Manganese Sulfate, All MeCl:Methanol:Water 1:4:95		NT NT	NT	NT
Melamine Formalde Res, All	NT	NT	NT	NT
Mercaptoacetic Acid, All	NT	NT	NT	NT
Mercaptoethanol	NT	NT	NR	NR
Mercuric Chloride	NT	NT	NT	NT
Mercury	NT	NT	NT	NT
Mercury and Salts	NT	NT	NT	NT
Methacrylic Acid Crude	NT	NT	NT	NT
Methacrylic Acid Glacial	NT	NT	NR	R
Methacrylic Acid	NT	NT	NT	NT
Methane Gas 20%				
Methane Sulfonic Acid	NT		NT	NT
Methanesulfonic Acid Anhydrous	NT	NT	NR	NR
Methanesulfonic Chloride	NT	NT	NR	NR
Methanesulfonyl Chloride Methanol 5%	NT NR	R	NR	NT
Methanol 20 - 100%	NR	NR	NR	R
Methanol 38 1%; Chloroform 1.2%; Water 60.7%	NR	NR	NT	NT
Methanol 50%; Hydrochloric Acid 5%; Water 45%	NR	NR	NT	NT

ARIZONA DEPARTMENT OF ENVIRONMENTAL QUALITY

JAN 15 2008

	magnai	ux 304 Vinyl Ester		-Glass FF	-
		Secondary		Secondary	
Chemical Environment and Concentration (%)	Immersion	Containment	immersion	Containment	_
Lard	140	R	NT	NT	
asso Herbicide	NT	NT	NT	NT	
Latex	140	R	NT	NT	
Lauric Acid	140	R	NT	NT	
Lauryl Alcohol	140	R	NT	NT	
Lauryl Chloride	140	R	NT	NT	
Lauryl Chloride, Acidic	NT	NT	NT	NT	1
Lauryldimethylamine	NT	NT	NT	NT	
Lauryl Mercaptain, All	140	R	NT	NT	-
Lead Acetate, All	140	R	NT	NT	
Lead Chloride	140	R	NT	NT	-1
Lead Nitrate	140	R	NT	NT	
Leachate (Landfill)	NT	NT	NT	NT	
Lecithin	140	R	NT	NT	-1
Lemon Juice	NT	NT	NT	NT	-1
Levulinic Acid, All	140	R	NT	NT	
	NT	NT	NT	NT	-1
Light Water	NT	NT	NT	NT	
	140	R	NT	NT	-1
Limestone, Saturated	140	R	NT	NT	-1
	140	R	NT	NT	-
Lithium Bromide, Saturated	140	R	NT	NT	
Lithium Carbonate, Saturated (1, 2, 4, 7)		R	NT	NT	-
Lithium Chloride 40%	140	 	NT	NT	
Lithium Chloride, Saturated		NR	NT NT	NT	
Lithium Hydroxide 10% (1, 2, 4, 7)	NR		NT	NT	
Lithium Hydroxide, Saturated (1, 2, 4, 7)	NR	NR NR	NT	NT	
Lithium Hypochlorite, All (1, 2, 4, 7, 8)	NR			NT	
LP Gas	140	R	NT NT	NT	
Lube / Motor Oils, All	140	R		and the second s	
Ludox LS	NT	NT	NT	NT NT	
Lusol	NT	NT	NT		
Magnesium Bisulfite, All	140	R	NT	NT	
Magnesium Carbonate, All	140	R	NT	NT	
Magnesium Chloride, All	140	R	NT	NT	
Magnesium Fluosilicate, All (1, 2, 4, 7)	140	R	NT	NT	
Magnesium Hydroxide, All	140	R	NT	NT	
Magnesium Nitrate, All	140	R	NT	NT	
Magnesium Sulfate, All	140	R	NT	NT	
Magnifloc 500 Series Products, All	140	R	NT	NT	
Magnifloc 837A Products, All	140	R	NT	NT	
Maleic Acid	140	R	NT	NT	
Maleic Anhydrite	140	R	NT	NT	
Malic Acid	140	R	NT	NT	
Manganese Ammonium Sulfate	NT	NT	NT	NT	
Manganese Chloride, All	140	R	NT	NT	
Manganese Sulfate, All	140	R	NT	NT	
MeCI:Methanol:Water 1:4:95	NT	NT	NT	NT	
Melamine Formalde Res, All	100	R	NT	NT	
Mercaptoacetic Acid, All	NR	NR	NT	NT	
Mercaptoethanol	140	R	NT	NT	
Mercuric Chloride	140	R	NT	NT	_
Mercury	140	R	NT	NT	
Mercury and Salis	140	R	NT	NT	
Methacrylic Acid Crude	100	R	NT	NT	
Methacrylic Acid Glaciai	NR	R	NT	NT	
Methacrylic Acid	NR	R	NT	NT	
Methane Gas 20%			NT	NT	
Methane Sulfonic Acid	NR	NR	NT	NT	
Methanesulfonic Acid Anhydrous	NT	NT	NT	NT	
Methanesulfonic Chloride	NT	NT	NT	NT	
Methanesulfonyi Chloride	NT	NT	NT	NT	
Methanol 5%	100	R	NR	R	
Methanol 20 - 100%	NR	NR	NR	NR gam	
	NT	NT	NT		ARIZONA DEPARTMENT
					UCPARIMENT
Methanol 38 1%; Chloroform 1.2%; Water 60.7% Methanol 50%; Hydrochloric Acid 5%; Water 45%	NT	NT	NT	NT	ENVIRONMENTAL QUAL

Waste Programs Div. Permits Section

- -

	Cor-Co	ote VEN FF	Cor-Co	ote VEN GF	Cor-Go	te HCR FF
Chemical Environment and Concentration (%)	Immersion	Secondary Containment	Immersion	Secondary Containment	Immersion	Secondary Containment
Methanol 93%; Acetic Acid (DI Water 2%)	NR	R	NT	R	NT	NT
Methene Bis 4, Cyclohexylamine	NT	NT	NT	NT	NT	NT
Methionine Hydroxy, Analog	NT	NT	NT	NT	NT	NT
Methy Mercaptan	150	R	150	R -	NT	NT
n-Methyl-2-Pyrrolidone	NR	R	NR	R	NT	NT
Methyl Alcohol (see Methanol 100%)	NT	NT	NT	NT	NT	NT
Methylamyl Alcohol	NT	NT	NT	NT	NR	R
Methyl Acetate	NR	R	NR	R	NR	R
Methyl Acrylate	NT	NT	NT	NT	NT	NT
Methyl Amyl Ketone MAK	NT	NT	NT	NT	NT	NT
Methylaminoethanol	100	R	100	R	NT	NT
Methyl-Bis-Amino Propylamine	NT	NT	NT	NT	NT	NT
Methyl Bromide, Gas 10%	80	R	80	R	NT	NT
Methyl Cellosolve	NT	NT	NT	NT	NT	NT
Methyl Chloride	NR	R	NR	R	NR	R
Methyl Chloroformate	NT	NT	NT	NT	NT	NT
Methyl Diethanolamine	150	R	150	R	NT	NT
Methyl Ethyl Ketone (MEK)	NR	R	NR	R	NR	R
MEK Peroxide in Plasticizer	NT	NT	NT	NT	NR	NR NT
Methyl FORMCEL	120	R	120	R	NT NR	R
Methyl Oleate	120	R		R	NR	R
Methyl Isobutyl Ketone (MIBK)	100	R	100 80	R	NR	NT
Methyl Tertiary Butyl Ether (MTBE)	80 NR	R	NR	R	NT	NT
Methylamine		R	100	R	NR	R
Methylamyl Alcohol	100	R	150	R	NT	NT
Methyldiethanolamine 50%	150	R	150	R	NT	NT
Methylene Chloride	NR	R	NR	R	NR	R
Methylstyrene	80	R	80	R	NT	NT
Milk, Fresh and Sour	150	R	150	R	120	R
Milk Whey	NT	NT	NT	NT	120	R
Mineral Oils	150	R	150	R	120	R
Mineral Spirits	150	R	150	R	120	R
Molasses	150	R	150	R	120	R
Monochloracetic Acid (see Chloracetic Acid)	NT	NT	NT	NT	NT	NT
Monochlorobenzene	100	R	100	R	NT	NT
Mono Ethyl Ether Acetate	NT	NT	NT	NT	NT	NT
Monomethyl Ether PM-Acetate	NT	NT	NT	NT	NT	NT
Monomethylhydrazine	NR	R	NR	R	NT	NT
Monylphenol	NT	NT	NT	NT	NT	NT
Monylphenoxy Polyoxyethylene Ethanol	NT	NT	NT	NT	NT	NT
Morpholine (9)	80	R	80	R	NT	NT
Motor Oil	150	R	150	R	120	'R
Muratic Acid (see Hydrochloric Acid)	NT	NT	NT	NT	NT	NT
Mustard	NT	NT	NT	NT	NT	NT
Myristic Acid	150	R	150	R	NT	NT
Naphtha, Aliphatic	150	R	150	R	120	R
Naphtha, Aromatic (coal tar)	140	R	140	R	100	R
Naphtha, Heavy Aromatic	140	R	140	R	100	R
Naphtha VM&P	NT	NT	NT	NT	NT	NT
Naphtha Sour	NT	NT	NT	NT	NT	NT
Naphtha Sufonic Acid	NT	NT	NT	NT	NT	NT
Naphthalene	120	R	120	R	100	R
Naphthenic Acid	120	R	120	R	100	R
Neodene	NT	NT	NT	NT	NT	NT
Neodol	NT	NT	NT	NT	NT NT	NT
Neutralizer and Desmut	120	R	120	R		R
N-Methyl-2-Pyrrolidone	NR	R	NR	R	NR	NT
Nickel Acetate 50%	NT	NT	NT 150	R	NT NT	NT
Nickel Chloride 50%	150	R	150	R	NT	NT
Nickel Chloride, All	150	R	150	R	NT NT	NT
Nickel Nitrate, All	150	R	150	R	120	R
Nickel Plating Solution #1 Nickel Plating Solution #2	150	R	150	R	120	R
	1 1 3 0	10	1130	1.15	1120	1.15

ARIZONA DEPARTMENT OF ENVIRONMENTAL QUALITY

JAN 15 2008

Waste Programs Div.

			Secondary	1	Secondary	Secondary		
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Naphtha, Aromatic (coal tar)NRRNRRNRRNRRNaphtha, Heavy AromaticNRRNRRNRRNRRNaphtha, Heavy AromaticNRRNRRNRRNRRNaphtha VM&PNTNTNTNTNTNTNTNTNaphtha SourNTNTNTNTNTNTNTNTNaphtha Sufonic AcidNRR80R80RNaphthaleneNRRNRRNRRNaphthenic AcidNRRNRRNRRNeodeneNRR120R100RNeodelNRR120R100RNeutralizer and DesmutNTNTNTNTNTNTNickel Acetate 50%NTNTNTNTNTNTNickel Chloride 50%NTNTNTNTNTNTNickel Chloride, AllNTNTNTNTNTNTNickel Plating Solution #1NRNRNRNRNRNRNRNickel Plating Solution #2NRNRNRNRNRNRNRNR								
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NaphthaleneNRRNRRNRRNaphthenic AcidNRRNRRNRRNaphthenic AcidNRRNRRNRRNeodeneNRR120R100RNeodolNRR120R100RNeutralizer and DesmutNTNTNTNTNTNTN-Methyl-2-PyrrolidoneNRNRNRNRNRNRNickel Acetate 50%NTNTNTNTNTNTNickel Chloride 50%NTNTNTNTNTNTNickel Chloride, AllNTNTNTNTNTNTNickel Plating Solution #1NRNRNRNRNRNRNRNickel Plating Solution #2NRNRNRNRNRNRNRNR								
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N-Methyl-2-Pyrrolidone NR NR<			the second se				Contraction of the paper	
Nickel Acetate 50% NT					and the second se			
Nickel Chloride 50% NT NT <td></td> <td></td> <td>and the second second</td> <td></td> <td></td> <td></td> <td></td>			and the second					
Nickel Chloride, All NT NT <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>								
Nickel Nitrate, All NT NT <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>								
Nickel Plating Solution #1 NR NR <th< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td></th<>								
Nickel Plating Solution #2 NR NR NR NR NR NR NR								
		and the second se	and the second se		the second se			
NICKEI Plating, Bright NR NR NR ARIZONA DEPARTME	Nickel Plating Solution #2							

JAN 15 2008

	EnviroLa	astic AR425 and AR200 HD	Fasi	-Clad ER
				Secondary
Chemical Environment and Concentration (%)	Immersion	Secondary Containment	Immersion	Containment
Methanol 93%; Acetic Acid (DI Water 2%)	NR	NR	NT	NT
Methene Bis 4, Cyclohexylamine	NT	NT	NT	NT
Methionine Hydroxy, Analog	NT	NT	NT	NT
Methy Mercaptan	NT	NT	NT ···	1971
n-Methyl-2-Pyrrolidone Methyl Alcohol (see Methanol 100%)	NR NT	NR NT	NT NR	NT NR
Methylamyl Alcohol	NR	NR	NT	NT
Methyl Acetate	NT	NT	NT	NT
Methyl Acrylate	NT	NT	NT	NT
Methyl Amyl Ketone MAK	NR	NR	NT	NT
Methylaminoethanol	NR	NR	NT	NT
Methyl-Bis-Amino Propylamine	NR	NR	NR	R
Methyl Bromide, Gas 10%	NR	NR	NT	NT
Methyl Cellosolve	NR	NR	NR	NR
Methyl Chloride	NR	NR	NT	NT
Methyl Chloroformate	NR	NR	NR	NR
Methyl Diethanolamine Methyl Ethyl Ketone (MEK)	NR NR	NR NR	NT NR	NT NR
MEK Peroxide in Plasticizer	NR	NR	NT	NT
Methyl FORMCEL	NT	NT	NT	
Methyl Oleate	NT	NT	NT	NT
Methyl Isobutyl Ketone (MIBK)	NT	NT	NR	NR
Methyl Tertiary Butyl Ether (MTBE)	NR	R	NR	R
Methylamine	NT	NT	NT	NT
Methylamyl Alcohol	NT	NT	NT	NT
Methyldiethanolamine 50%	NT	NT	NT	NT
Methyldiethanolamine		NT	NR	R
Methylene Chloride	NT	NR	NR	NR
Methylstyrene	NT NT	NT	NT NT	NT
Milk, Fresh and Sour	NT	NT	NT	NT
Mineral Oils	NT	NT	80	R
Mineral Spirits	NT		80	R
Molasses	NT	NT	100	R
Monochloracetic Acid (see Chloracetic Acid)	NT	NT	NT	NT
Monochlorobenzene	NT	NT	NT	NT
Mono Ethyl Ether Acetate	NT	NT	NT	NT
Monomethyl Ether PM-Acetate	NT	NT	NT	NT
Monomethylhydrazine	NT	NT	NT	NT
Monylphenol	NT	NT	NT	NT
Monylphenoxy Polyoxyethylene Ethanol Morpholine (9)	NT	NT NT	NT NT	NT NT
Morpholine (9)	NT 80	R	120	R
Muratic Acid (see Hydrochloric Acid)	NT	NT	NT	NT NT
Mustard	NT	NT	NT	NT
Myristic Acid	NT	NT	NT	NT
Naphtha, Aliphatic	NT	NT	NT	NT
Naphtha, Aromatic (coal tar)	NT	NT	80	R
Naphtha, Heavy Aromatic	NT	NT	80	R
Naphtha VM&P	NT	NT	80	R
Naphtha Sour	NT	NT	NT	NT
Naphtha Sufonic Acid	NT	NT	100	R
Naphthalene Naphthenic Acid	NT NT	NT NT	NT	NT NT
Naphthenic Acid Neodene	NT	NT	100	R
Neodol	NT	NT	100	R
Neutralizer and Desmut	NT	NT	NT	NT
N-Methyl-2-Pyrrolidone	NR	NR	NT	NT
Nickel Acetate 50%	NT	NT	NT	NT
Nickel Chloride 50%	NT	NT	NT	NT
Nickel Chloride, All	NT	NT	NT	NT
Nickel Nitrate, All	NT	NT	NT	NT
Nickel Plating Solution #1	NT	NT	NT	NT
Nickel Plating Solution #2	NT	NT	NT	NT
Nickel Plating, Bright	NT	NT	NT	NT

ARIZONA DEPARTMENT OF ENVIRONMENTAL QUALITY

JAN 15 2008

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	Magnal	ux 304 Vinyl Ester	Sher-Glass FF			
Chemical Environment and Concentration (%)	Immersion	Secondary Containment	Immersion	Secondary Containment		
Methanol 93%; Acetic Acid (DI Water 2%)	NT	NT	NT	NT		
Methene Bis 4, Cyclohexylamine	NT	NT	NT	NT		
Methionine Hydroxy, Analog	NT	NT	NT	NT		
Methy Mercaptan	100	R	NT	NT		
n-Methyl-2-Pyrrolidone	NR	R	NT	NT		
Methyl Alcohol (see Methanol 100%)	NT	NT	NT	NT		
Methylamyl Alcohol	NT	NT	NT	NT		
Methyl Acetate	NR	NR	NT	NT NT		
Methyl Acrylate	NT	NT	NT NT	NT		
Methyl Amyl Ketone MAK	NT NR	NT NR		NT		
Methyl-Bis-Amino Propylamine	NT	NT	NT	NT		
Methyl Bromide, Gas 10%	80	R	NT	INT		
Methyl Cellosolve	NT	NT	NT	NT		
Methyl Chloride	NR	NR	NT	NT		
Methyl Chloroformate	NT	NT	NT	NT		
Methyl Diethanolamine	140	R	NT	NT		
Methyl Ethyl Ketone (MEK)	NR	NR	NT	NT		
MEK Peroxide in Plasticizer	NT	NT	NT	NT		
Methyl FORMCEL	100	R	NT	NT		
Methyl Oleate	100	R	NT	NT		
Methyl Isobutyl Ketone (MIBK)	NR	NR	NT	NT		
Methyl Tertiary Butyl Ether (MTBE)	NR	NR	120	R		
Methylamine	NR	NR	NT	NT		
Methylamyl Alcohol	100	R	NT	NT		
Methyldiethanolamine 50%	140	R	NT	NT		
Methyldiethanolamine	140	R	NT	NT		
Methylene Chloride	NR			NT		
Methylstyrene	NR	R	NT	NT		
Milk Whey	NT	NT				
Mineral Oils	140	R	NT	NT		
Mineral Spirits	140	R	NT	NT		
Molasses	140	R	NT	NT		
Monochloracetic Acid (see Chloracetic Acid)	NT	NT	NT	NT		
Monochlorobenzene	NR	NR	NT	NT		
Mono Ethyl Ether Acetate	NT	NT	NT	NT		
Monomethyl Ether PM-Acetate	NT	NT	NT	NT		
Monomethylhydrazine	NR	NR	NT	NT		
Monyiphenol	NT	NT	NT	NT		
Monylphenoxy Polyoxyethylene Ethanol	NT	NT	NT	NT		
Morpholine (9)	NR	NR	NT	NT		
Motor Oil	140	R	NT	NT		
Muratic Acid (see Hydrochloric Acid)	NT		NT NT	NT		
Mustard Myristic Acid	NT	R	NT	NT		
Naphtha, Aliphatic	140	R	NT	NT		
Naphtha, Aromatic (coal tar)	120	R	NT	NT		
Naphtha, Heavy Aromatic	120	R	NT	NT		
Naphtha VM&P	NT	NT	NT	NT		
Naphtha Sour	NT	NT	NT	NT		
Naphtha Sufonic Acid	NT	NT	NT	NT		
Naphthalene	140	R	NT	NT		
Naphthenic Acid	140	R	NT	NT		
Neodene	NT	NT	NT	NT		
Neodol	NT	NT	NT	NT		
Neutralizer and Desmut	120	R	NT	NT		
N-Methyl-2-Pyrrolidone	NR	NR	NT	NT		
Nickel Acetate 50%	NT	NT	NT	NT		
Nickel Chloride 50%	140	R	NT	NT		
Nickel Chloride, All	140	R	NT	NT		
Nickel Nitrate, All	140	R	NT	NT		
	4.10		NIT	NT		
Nickel Plating Solution #1 Nickel Plating Solution #2	140	R	NT NT	NT NT		

ARIZONA DEPARTMENT OF ENVIRONMENTAL QUALITY

JAN 15 2008

Waste Programs Div. Permits Section

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	Cor-Co	te VEN FF	Cor-Co	Cor-Cote VEN GF		ote HCR FF
Chemical Environment and Concentration (%)	Immersion	Secondary Containment	Immersion	Secondary Containment	Immersion	Secondary Containmen
Nickel Sulfate, All	150	R	150	R	NT	NT
NIPAR \$30	NT	NT	NT	NT	NT	NT
Nitric Acid 0% - 5%	150	R	150	R	80	R
Nitric Acid 6% - 10%	120	R	120	R	80 -	R
Nitric Acid 11% - 20%	120	R	120	R	NR	R
Nitric Acid 21%- 29% (9)	80	R	80	R	NR	NR
Nitric Acid 30% - 35% (9)	NR	R	NR	R	NR	NR
Nitric Acid 36% - 40% (9)	NR	R	NR	R	NR	NR
Nitric Acid 60%	NR	R	NR	R	NR	NR
Nitric Acid 70%	NR	R	NR	R	NR	NR
Nitric Acid, Fumes <60% (9)	150	R	150	R	NR	NR
Nitric Acid, Fumes >60%, Non-condensing (9)	150	R	150	R	NR	NR
Nitric/Hydrofluoric Acid 20/6% (1, 2, 4, 7, 9)	NR	R	NT	R	NR	R
Nitrilotriethanol	100	R	100	R	NR	R
1-Nitropropane 50%; 2-Nitropropane 50%	NT	NT	NT	NT	NT	NT
Nitrochlorobenzene	NT	NT	NT	NT	NT	NT
Nitrobenzene	80	R	80	R	NR	R
Nitrogen Fertilizer Solution	NT	NT	NT	NT	NT	NT
Nitromethane	NR	NR	NR	NR	NR	R
2-Nitropropane	NT	NT	NT	NT	NT	NT
Nonyiphenol	NT	NT	NT	NT	NT	NT
Nylon Resin Pellets	NT	NT	NT	NT	NT	NT
Oakite Rust Stripper	NT	NT	NT	NT	NT	NT
Oakite Plasti-Prep	NT	NT	NT	NT	NT	NT
n-Octadecanoic Acid 90%	NT	NT	NT	NT	NT	NT
Octanoic Acid (see Caprylic Acid)	150	R	150	R	NR	NR
Octanol	100	R	100	R	100	R
n-Octyl Mercaptan	NT	NT	NT	NT	NT	NT
Oil, Separator Fluid	NT	NT	NT	NT	NT	NT
Oil, Lubricating	150	R	150	R	120	R
Oil, Silicon	150	R	150	R	120	R
Oil, Turbine-Synthetic	150	R	150	R	120	R
Oil, Water Soluble	150	R	150	R	120	R
Oil, Wyoming Crude	150	R	150	R	120	R
Oleic Acid, All	150	R	150	R	80	R
Oleo Margarine	NT	NT	NT	NT	120	R
Oleum (Fuming Sulfuric Acid)	NR	R	NR	R	NR	NR
Olive Oils	150	R	150	R	120	R
Orange Juice	ŃT		NT		100	R
Orange Conc	NT	NT	NT	NT	100	R
Orange Soda	NT	NT NT	NT	NT	100	R
Organic Amine 1% - 2%	NT	NT	NT	NT	NT	NT
Ortho-Dichloronitrobenzene (see Dichlorobenzene)	NT	NT	NT	NT	NT	NT
		NT	NT	NT	NT	NT
OrthoxyleneOxalic Acid 10%	150	R	150	R	NR	R
Oxalic Acid 10% Oxalic Acid, Saturated	150	R	150	R	NR	R
Oxalic Acid, Saturated	150 NT		NT	NT	NT	NT
Oxonexamethylenelmine Oxynol Blends	NT		NT	NT	NT	NT
Ozone, 2 mg/L	80	R	80	R	NT	R
Palm Oil	150	R	150	R	120	R
Palmitic Acid	150 NT	 	NT	NT	120	R
Palmitoleic Fatty Acid	NT	NT	NT	NT	NT	NT
	80	R	80	R	80	R
Peracetic Acid 10% (1, 2, 4, 7, 8)	80	R	80	R	NR	NR
Peracetic Acid 20% (1, 2, 4, 7, 8)	NR	R	NR	R	NR	NR
Peracetic Acid 35% (1, 2, 4, 7, 8)			100	R	120	R
Paraffin Wax	100	R	150	R	120	R
	150	R	and the second se	NT	NT	NT
	NT	NT	NT			
Paraldehyde			120	R	100	R
Paraldehyde Paraxylene	120				100	
Paratdehyde Paraxylene Peanut Buter	120 150	R	150	R	120	R
Paraldehyde Paraxylene Peanut Buter Peanut Oil	120 150 150	R R	150 150	R R	120	R
Paratdehyde Paraxylene Peanut Buter Peanut Oil Pelargonic Acid	120 150 150 100	R R R	150 150 100	R R R	120 NR	R R
Paraxylene	120 150 150	R R	150 150	R R	120	R

ARIZONA DEPARTMENT OF ENVIRONMENTAL QUALITY

JAN 15 2008

Waste Programs Div. Permits Section

	Cor-	Cote HP	Cor-Co	ote HP FF	Co	r-Cote SC
		Secondary	1	Secondary		Secondary
Chemical Environment and Concentration (%)	Immersion	Containment	Immersion	Containment	Immersion	Containment
Nickel Sulfate, All	NT	NT	NT	NT	NT	NT
NIPAR S30	NT	NT	NT	NT	NT	NT
Nitric Acid 0% - 5%	NR	R	NR	R	NR	R
Nitric Acid 6% - 10%	NR	R	NR NR	R	. NR	R
Nitric Acid 11% - 20% Nitric Acid 21%- 29% (9)	NR NR	NR NR	NR	NR NR	NR NR	R
Nitric Acid 20% - 35% (9)	NR	NR	NR	NR	NR	NR
Nitric Acid 36% - 40% (9)	NR	NR	NR	NR	NR	NR
Nitric Acid 60%	NR	NR	NR	NR	NR	NR
Nitric Acid 70%	NR	NR	NR	NR	NR	NR
Nitric Acid, Fumes <60% (9)	NR	NR	NR	NR	NR	NR
Nitric Acid, Fumes >60%, Non-condensing (9)	NR	NR	NR	ŇR	NR	NR
Nitric/Hydrofluoric Acid 20/6% (1, 2, 4, 7, 9)	NR	NR	NR	NR	NR	R
Nitrilotriethanol	NR	R	NR	R	NR	R
1-Nitropropane 50%; 2-Nitropropane 50%	NT	NT	NT	NT	NT	NT
Nitrochlorobenzene	NT	NT	NT	NT	NT	NT
Nitrobenzene	NR	NR	NR	NR	NR	NR
Nitrogen Fertilizer Solution	NT	NT	NT	NT	NT	NT
Nitromethane	NR	NR	NR	NR	NR	NR
2-Nitropropane	NT	NT	NT	NT	NT	NT
Nonylphenol	NR	R NT	_120 NT	R	100 NT	R
Nylon Resin Pellets	NT NT		NT	NT NT	NT	
Oakite Rust Stripper Oakite Plasti-Prep	NT	NT	NT	NT	NT	NT
n-Octadecanoic Acid 90%	NT	NT	NT	NT	NT	NT
Octanoic Acid (see Caprylic Acid)	NR	NR	NR	NR	NR	NR
Octanol	NR	R	NR	R	NR	R
n-Octyl Mercaptan	NR	R	NR	R	NR	R
Oil, Separator Fluid	NT	NT	NT	NT	NT	NT
Oil, Lubricating	NR	R	120	R	120	R
Oil, Silicon	NR	R	120	R	120	R
Oil, Turbine-Synthetic	NR	R	120	R	120	R
Oil, Water Soluble	NR	R	120	R	120	R
Oil, Wyoming Crude	NR	R	120	R	120	R
Oleic Acid, All	NR	NR	NR	NR	NR	NR
Oleo Margarine	NR	R	120	R	120	R
Oleum (Fuming Sulfuric Acid)	NR	NR	NR	NR	NR	NR
Olive Oils	NR	R	120	R	120	R
Orange Juice	NR	R	120	R	100	R
Orange Conc Orange Soda	NR	R	120	R	100	R
Organic Amine 1% - 2%	NT	NT	NT	NT	NT	NT
Ortho-Dichloronitrobenzene (see Dichlorobenzene)	NT	NT	NT	NT	NT	NT
Orthoxylene	NT	NT	NT	NT	NT	NT
Oxalic Acid 10%	NR	NR	NR	NR	NR	NR
Oxalic Acid, Saturated	NR	NR	NR	NR	NR	NR
Oxohexamethyleneimine	NT	NT	NT	NT	NT	NT
Oxynol Blends	NT	NT	NT	NT	NT	NT
Ozone, 2 mg/L	NT	R	NT	R	NT	R
Palm Oil	NR	R	120	R	120	R
Palmitic Acid	NR	R	120	R	120	R
Palmitoleic Fatty Acid	NT	NT	NT	NT	NT	NT
Peracetic Acid 10% (1, 2, 4, 7, 8)	NR	R	NR	R	80	R
Peracetic Acid 20% (1, 2, 4, 7, 8)	NR	NR	NR	NR	NR	NR
Peracetic Acid 35% (1, 2, 4, 7, 8)	NR	NR	NR	NR	NR	NR
Paraffin Wax	NR	R	100	R	100	R
Paraformaldehyde 50%	NR	R	NR NT	R	NR NT	R
Paraldehyde	NT	R	NR	R	NR NR	R R
Paraxylene Peanut Buter	NR NR	R	120	R	120	R
Peanut Oil	NR	R	120	R	120	R
Pelargonic Acid	NR	R	NR	R	NR	R
Pennstop #1866	NT	NT	NT	NT	NT	NT
Pentane	NT	R	NT	R	NT	R
n-Pentanoic Acid	NT	NT	NT	NT	NT	NT

ARIZONA DEPARTMENT OF ENVIRONMENTAL QUALITY

JAN 15 2008

Waste Programs Oly

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	LINIIOLA	stic AR425 and AR200 HD	Fast	-Clad ER
Chemical Environment and Concentration (%)	Immersion	Secondary Containment	Immersion	Secondary Containment
Nickel Sulfate, All	NT	NT	NT	NT
NIPAR S30	NT	NT	NT	NT
Nitric Acid 0% - 5%	NR	R	NT	NT
Nitric Acid 6% - 10%	NR	R	NT	
Nitric Acid 11% - 20%	NR	NR	NT	NT
Nitric Acid 21%- 29% (9)	NR	NR	NT	NT
Nitric Acid 30% - 35% (9)	NR	NR	NT	NT
Nitric Acid 36% - 40% (9)	NR	NR	NR	NR
Nitric Acid 60%	NR	NR	NR	NR
Nitric Acid 70%	NR	NR	NR	NR
Nitric Acid, Fumes <60% (9)	NR	NR	NR	NR
Nitric Acid, Fumes >60%, Non-condensing (9)	NR	NR	NR	NR
Nitric/Hydrofluoric Acid 20/6% (1, 2, 4, 7, 9)	NR	NR	NT	NT
Nitrilotriethanol	NR	NR	NT	NT
1-Nitropropane 50%; 2-Nitropropane 50%	NT	NT	NR	NR
Nitrochlorobenzene	NT	NT	NR	NR
Nitrobenzene	NR	NR	NT	NT
Nitrogen Fertilizer Solution	NT	NT	NT	NT
Nitromethane	NR	NR	NT	NT
2-Nitropropane	NT	NT	NT	NT
Nonylphenol	NT	NT	100	R
Nylon Resin Pellets	NT	NT	NT	NT
Oakite Rust Stripper	NT	NT	NT	NT
Oakite Plasti-Prep	NŤ	NT	NT	NT
n-Octadecanoic Acid 90%	NT	NT	NT	NT
Octanoic Acid (see Caprylic Acid)	NT	NT	NR	R
Octanol	NT	NT	NT	NT
n-Octyl Mercaptan	NT	NT	NR	R
Oil, Separator Fluid	NT	NT	<u>NT</u>	NT
Oil, Lubricating	NT	NT	NT	NT
Oil, Silicon	NT	NT	NT	NT
Oil, Turbine-Synthetic	NT	NT	150	R
Oil, Water Soluble	NT	NT	NT	NT
Oil, Wyoming Crude	NT	NT	NT	NT
Oleic Acid, All	NT	NT	NT	NT
Oleo Margarine	NT	NT	NT	NT
Oleum (Fuming Sulfuric Acid)	NT	NT	NT	NT
Olive Oils	NT	<u>NT</u>	NT	NT
Orange Juice	NT	NT	NT	NT
Orange Conc	NT	NT	100	R
Orange Soda	NT	NT	NT	NT
Organic Amine 1% - 2%	NT	NT	NT	NT
Ortho-Dichloronitrobenzene (see Dichlorobenzene)	NT	NT	NT	NT
Orthoxylene	NT	NT	80	R
Oxalic Acid 10%	NT	NT	NT	NT
Oxalic Acid, Saturated	NT	NT	NT	NT
Oxohexamethyleneimine	NT	NT	NT	NT
Oxynol Blends	NT	NT	NT	<u>NT</u>
Ozone, 2 mg/L	NT	NT	NT	NT
Palm Oil	NT	NT	140	R
Palmitic Acid	NT	NT	140	R
Palmitoleic Fatty Acid	NT	NT	NT	NT
Peracetic Acid 10% (1, 2, 4, 7, 8)	NT	NT	NT	NT
Peracetic Acid 20% (1, 2, 4, 7, 8)	NT	NT	NT	NT
Peracetic Acid 35% (1, 2, 4, 7, 8)	NT	NT	NT	NT
Paraffin Wax	NT	R	80	R
Paraformaldehyde 50%	NT	NT	NT	NT
Paraidehyde	NT	NT	NT	NT
Paraxylene	NT	NT	80	R
Peanut Buter	NT	NT	NT	NT
Peanut Oil	NT	NT	NT	NT
Pelargonic Acid	NT	NT	NT	NT
Pennstop #1866	NT	NT	NT	NT
Pentane	NR	R	80	R
n-Pentanoic Acid	NT	NT	NT	NT

ARIZONA DEPARTMENT OF ENVIRONMENTAL QUALITY

JAN 15 2008

Waste Programs Div. Permits Section

59/92

	Magnal			E anordan
Chemical Environment and Concentration (%)	Immersion	Secondary Containment	Immersion	Secondary Containment
Nickel Sulfate, All	140	R	NT	NT
NIPAR S30	NT	NT	NT	NT
Nitric Acid 0% - 5%	140	R	NT	NT
Nitric Acid 6% - 10%	120	R	NT	NT
Nitric Acid 11% - 20%	80	R	NT .	NT
Nitric Acid 21%- 29% (9)	NR	R	NT	NT
Nitric Acid 30% - 35% (9)	NR	NR	NT	NT
Nitric Acid 36% - 40% (9)	NR	R	NT	NT
Nitric Acid 60%	NR	R	NT	NT
Nitric Acid 70%	NR	NR	NT	NT
Nitric Acid, Fumes <60% (9)	140	NR	NT	NT
Nitric Acid, Fumes >60%, Non-condensing (9)	140	NR	NT	NT
Nitric/Hydrofluoric Acid 20/6% (1, 2, 4, 7, 9)	NT	NT	NT	NT
Nitrilotriethanol	100	R	NT	NT
1-Nitropropane 50%; 2-Nitropropane 50%	NT	NT	NT	NT
Nitrochlorobenzene	NT	NT .	NT	NT
Nitrobenzene	NR	NR	NT	NT
Nitrogen Fertilizer Solution	NT	NT	NT	NT
Nitromethane	NR	NR	NT	NT
2-Nitropropane	NT	NT	NT	NT
Nonylphenol	100	R	NT	NT
Nylon Resin Pellets	NT	NT	NT	NT
Oakite Rust Stripper	NT	NT	NT	NT
Oakite Plasti-Prep	NT	NT	NT	NT
n-Octadecanoic Acid 90%	NT	NT	NT	NT
Octanoic Acid (see Caprylic Acid)	140	R	NT	NT
Octanol	100	R	NT	NT
n-Octyl Mercaptan	NT	NT	NT	NT
Oil, Separator Fluid	NT	NT	NT	NT
Oil, Lubricating	140	R	NT	NT
Oil, Silicon	140	R	NT	NT
Oil, Turbine-Synthetic	140	R	NT	NT
Oil, Water Soluble	NT	NT	NT	NT
Oil, Wyoming Crude	140	R	NT	NT
Oleic Acid, All	140	R	NT	NT
Oleo Margarine	NT	NT	NT	NT
Oleum (Fuming Sulfuric Acid)	NR	NR	NT	NT
Olive Oils	140	R	NT	NT
Orange Juice	NT	NT	NT NT	NT
Orange Conc	NT	NT	NT	NT
Orange Soda	NT	NT	NT	NT
Organic Amine 1% - 2%	NT	NT	NT	NT
Ortho-Dichloronitrobenzene (see Dichlorobenzene)	NT	NT	NT	NT
Orthoxylene	NT	NT	NT	NT
Oxalic Acid 10%	100	R	NT	NT
Oxalic Acid, Saturated	100	R	NT	NT
Oxohexamethyleneimine	NT		NT	NT
Oxonexametnyleneimine		NT	NT	NT
Ozone, 2 mg/L	80	R	NT	NT
Palm Oil	140	R	NT	NT
Palmitic Acid	140	R	NT	NT
	NT	NT	NT	NT
Palmitoleic Fatty Acid		and the second s	NT	NT
Peracetic Acid 10% (1, 2, 4, 7, 8)	80 80	R	NT	NT
Peracetic Acid 20% (1, 2, 4, 7, 8)			NI	
Peracetic Acid 35% (1, 2, 4, 7, 8)	NR	NR	· · · · · · · · · · · · · · · · · · ·	NT NT
Paraffin Wax	100	R	NT	
Paraformaldehyde 50%	140	R	NT	NT
Paraldehyde	NT	NT	NT	NT
Paraxylene	NR	NR	NT	NT
Peanut Buter	140	R	NT	NT
Peanut Oil	140	R	NT	NT
Pelargonic Acid	100	R	NT	NT
Pennstop #1866	NT	NT	NT	NT
Pentane	NT	R	NT	NT
n-Pentanoic Acid	NT	NT	NT	NT

ARIZONA DEPARTMENT OF ENVIRONMENTAL QUALITY

JAN 15 2008

	Cor-Co	ote VEN FF	Cor-Co	te VEN GF	Cor-Co	ote HCR FF
		Secondary		Secondary		Secondary
Chemical Environment and Concentration (%)	Immersion	Containment	Immersion	Containment	Immersion	Containment
Pentanedione	NT	NT	NT	NT	NT	NT
Pentanedioic Acid (see Glutaric Acid 50%)	100	R	100	R	NT	NT
Pentachloroethane	100	R	100	R	NR	R
Pepper	NR	R	NR	R	<u>NR</u>	R
Perchloric Acid 10%	120	R	120	R	NR	R
Perchloric Acid 30%	100	R	100	R	NR	R
Perchloroethylene	120	R	120	R	100 NT	R
PERMACOL #120	NT	R R	NT 100	R	100	R
Permalastic Adhesive	100	R	150	R	120	R
Phenol Formaldehyde Resin, All (9)	100	R	100	R	NT	NT
Phenol Sulfonic Acid 65% (9)	NR	R	NR	R	NR	NR
Phenol (Carbolic Acid) 5% (9)	100	R	100	R	NR	R
Phenol (Carbolic Acid) 10% (9)	100	R	100	R	NR	NR
Phenol (Carbolic Acid) 15% (9)	80	R	80	R	NR	NR
Phenol (Carbolic Acid) 88% (9)	100	R	100	R	NR	NR
Phenolic Resin (9)	NR	R	NR	R	NR	NR
1-Phenyl-2-Methyl-1,2-Propane Diamin	NT	NT	NT	NT	NT	NT
Phenylenediamine 50%	NT	NT	NT	NT	NT	NT
Phenylhydrazine	NT	NT	NT	NT	NT	NT
Phosphoric Acid 115% (Polyphos)	150	R	150	R	NR	R
Phosphoric Acid 105% (Superphos)	150	R	150	R	NR	R
Phosphoric Acid 100% (Vapor and Condensate)	100	<u> </u>	100	R	NR	R
Phosphoric 100% (Vapor)	150	R	150	R	NR	R
Phosphoric Acid:HCL Acid 15:9	NT	R	NT 150	R R	NR	R
Phosphoric Acid 5% Phosphoric Acid 10%	150	R	150	R	NR	R
Phosphoric Acid 10%	150	R	150	R	NR	R
Phosphoric Acid 20%	150	R	150	R	NR	R
Phosphoric Acid 50%	150	R	150	R	NR	R
Phosphoric Acid 85%	150	R	150	R	NR	R
Phosphorous Acid 70%	150	R	150	R	NR	R
Phosphorous Oxychloride	NR	R	NR	R	100	R
Phosphorous Trichloride	NR	R	NR	R	100	R
Phthalic Acid, All	150	R	150	R	NT	NT
Phthalic Anhydride	150	R	150	R	NT	NT
Phthalic Anhydrous Acid	NT	NT	NT	NT	NT	NT
Pickling Acids	80	R	NR	R	NT	NT
Picric Acid (in Alcohol) 10%	120	R	120	R	NR	R
Pine Gum (Diluted)	150	R	150	R	NT NT	NT NT
Pine Oil	150	R	150 NT		NT	NT
Platformate	NT NT	NT NT	NT	NT	NT	NT
Platinum Plating Solution POAST Herbicide		NT	NT	NT	NT	NT
Podecyl Benzene Sulfonic Acid	NT	NT	NT	NT	NT	NT
Polyacrylic Acid	120	R	120	R	NR	R
Polyaluminum Chloride	NT	NT	NT	NT	NT	NT
Polyamide, Aqueous Borne	NT	NT	NT	NT	NT	NT
Polychlorinated Biphenyl (PCB)	NT	NT	NT	NT	120	R
Poly-EM 10 Anionic	NŤ	NT	NT	NT	NT	NT
Poly-EM20	NT	NT	NT	NT	NT	NT
Polyester Resin	NT	NT	NT	NT	NT	NT
Polyethylene Glycol	NT	NT	NT	NT	NT	NT
Polyethylene, Resin w/ PVA Traces	NT	NT	NT	NT	NT	NT
Polyethyleneimine	NT	NT .	NT	NT	NT	NT NT
Polymin SK	NT	NT		R R	NT NT	R
Polymer (Emulsion)	NT	R NT		NT		NT
Polymer (Mannich)	NT NT	NT	NT			NT
Polyol Polyolefin Resin, Dry	NT	NT	NT	NT	NT	NT
Polyphosphate (Zinc Orthophosphate)	NT	NT	NT	NT	NT	NT
Polyphosphoric Acid 115% H3PO4	NT	NT	NT	NT	NT	NT
Polypropylene Resin, Dry	NT	NT NT	NT	NT	NT	NT
Polytetrahydrofuran	NT	NT	NT	NT	NT	NT
POLYTEX 669	NT	NT	NT	NT	NT	NT

ARIZONA DEPARTMENT OF ENVIRONMENTAL QUALITY

JAN 15 2008

	Cor-Cote HP		Cor-Cote HP FF		Cor-Cote SC		
		Secondary		Secondary		Secondary	
Chemical Environment and Concentration (%)	Immersion	Containment	Immersion	Containment	Immersion	Containment	
Pentanedione	NT	NT	NT	NT	NT	NT	
Pentanedioic Acid (see Glutaric Acid 50%)	NT	NT	NT	NT	NT	NT	
Pentachloroethane	NR	NR	NR	NR	NR	NR	
Pepper	NR	R	NR	R	NR	R	
Perchloric Acid 10%	NR	NR	NR	NR	NR-	NR	
Perchloric Acid 30%	NR	NR	NR	NR	NR	NR	
Perchloroethylene	NR	R	NR	R	NR	R	
PERMACOL #120	NT	NT	NT	NT	NT	NT	
Permalastic Adhesive	NR	R	120	R	100	R	
Petroleum Jelly	NR	R	120	R	120	R	
Phenol Formaldehyde Resin, All (9)	NT	NT	NT	NT	NT	NT	
Phenol Sulfonic Acid 65% (9)	NR	NR	NR	NR	NR	NR	
Phenol (Carbolic Acid 5% (9)	NR	R	NR	R	NR	R	
Phenol (Carbolic Acid) 10% (9)	NR	NR	NR	NR	NR	NR	
Phenol (Carbolic Acid) 15% (9)	NR	NR	NR	NR	NR	NR	
Phenol (Carbolic Acid) 88% (9)	NR	NR	NR	NR	NR	NR	
Phenolic Resin (9)	NR	NR	NR	NR	NR	NR	
1-Phenyl-2-Methyl-1,2-Propane Diamin	NT	NT	NT	NT	NT	NT	
Phenylenediamine 50%	NT	NT	NT	NT	NT	NT	
Phenylhydrazine	NT	NT	NT	NT	NT	NT	
Phosphoric Acid 115% (Polyphos)	NR	R	NR	R	NR	R	
Phosphoric Acid 105% (Superphos)	NR	R	NR	R	NR	R	
Phosphoric Acid 100% (Vapor and Condensate)	NR	R	NR	R		R	
Phosphoric 100% (Vapor and Condensate)	NR	R	NR	R	NR	R	
Phosphoric Acid:HCL Acid 15:9	NR NR	R	NR	R	NR	R	
Phosphoric Acid 5%	NR	R	NR	R	NR	R	
Phosphoric Acid 5%	NR	R	NR	R	NR	R	
Phosphoric Acid 20%	NR	R	NR	R	NR	R	
	NR	NR	NR	NR	NR	NR	
Phosphoric Acid 40%	NR	NR	NR	NR	NR	NR	
Phosphoric Acid 85%	NR	NR	NR	NR	NR	NR	
Phosphorous Acid 70%	NR	NR	NR	NR	NR	NR	
	NR	R	NR NR	R	NR	R	
Phosphorous Oxychloride	NR	R	NR	R	NR	R	
Phosphorous Trichloride Phthalic Acid, All	NT	NT	NT	NT	ŃT	NT	
	NT	NT	NT	NT		NT	
Phthalic Anhydride	NT	NT	NT	NT		NT	
Phthalic Anhydrous Acid Pickling Acids	NT	NT	NT	NT	NT	NT	
Picric Acid (in Alcohol) 10%	NR	NR	NR	NR	NR	NR	
Pine Gum (Diluted)	NT	NT	NT	NT	NT	NT	
Pine Oil	NT	NT	NT	NT	NT	NT	
Platformate	NT	NT	NT	NT	NT	NT	
Platinum Plating Solution	NT	NT	NT	INT	NT	NT	
POAST Herbicide	NR	R	120	R	100	R	
Podecyl Benzene Sulfonic Acid	NT	NT	NT	NT	NT	NT	
Polyacrylic Acid	NR	NR	NR	NR	NR	NR	
Polyaluminum Chloride	NT	NR	NT	NT	NR	NT	
Polyamide, Aqueous Borne	NT	NT	NT	NT	NT	NT	
Polyamide, Aqueous Borne Polychlorinated Biphenyl (PCB)	NT	NT		NT	NT	NT	
Poly-EM 10 Anionic	NT	NT	NT		NT	NT	
Poly-EM20	NT	NT	NT	NT NT	NT	NT	
Polyester Resin	NR	R	120	R	100	R	
Polyethylene Glycol	NT	NT	NT	NT	NT	NT	
Polyethylene, Resin w/ PVA Traces	NT	NT	NT	NT	NT	NT	
Polyethyleneimine	NT	NT	NT	NT	NT	NT	
Polymin SK	NT	NT	NT	NT	NT	NT	
Polymin SK Polymer (Emulsion)	NT	R	NT	R	NT	R	
Polymer (Emulsion)	NT	NT		NT	NT NT		
	NR	R	120	R	120	R	
Polyol		R NT					
Polyolefin Resin, Dry	NT		NT NT	NT	NT	NT	
Polyphosphate (Zinc Orthophosphate)	NT	NT		NT	NT	NT	
Polyphosphoric Acid 115% H3PO4	NT	NT	NT	NT	NT	NT	
Polypropylene Resin, Dry	NT	NT	NT	NT	NT	NT	
Polytetrahydrofuran	NT	NT	NT NT	NT NT	NT NT	NT NT	
POLYTEX 669	NT						

ARIZONA DEPARTMENT OF ENVIRONMENTAL QUALITY

JAN 15 2008

				Secondary
Chemical Environment and Concentration (%)	Immersion	Secondary Containment	Immersion	Containmen
Pentanedione	NT	NT	NT	NT
Pentanedioic Acid (see Glutaric Acid 50%)	NT	NT	NT	NT
Pentachloroethane	NR	NR	NT	NT
Pepper	NT	NT	NT	NT
Perchloric Acid 10%	NT	NT	NT	NT
Perchloric Acid 30%	NT	NT	NT	NT
Perchloroethylene	NT	NT	NT	NT
PERMACOL #120	NT	NT	NT	NT
Permalastic Adhesive	NT	NT	NT	NT
Petroleum Jelly	NT	NT	150	R
Phenol Formaldehyde Resin, All (9)	NT	NT	NT	NT
Phenol Sulfonic Acid 65% (9)	NR	NR	NT	NT
Phenol (Carbolic Acid) 5% (9)	NR	NR	NT	NT
Phenol (Carbolic Acid) 10% (9)	NR	NR	NT	NT
Phenol (Carbolic Acid) 15% (9)	NR	NR	NT	NT
Phenol (Carbolic Acid) 88% (9)	NR	NR	NT	NT
Phenolic Resin (9)	NR	NR	NT	NT
1-Phenyl-2-Methyl-1,2-Propane Diamin	NT	NT	NT	NT
Phenylenediamine 50%	NT	NT	NT	NT
Phenylhydrazine	NT	NT	NT	NT
Phosphoric Acid 115% (Polyphos)	NT	NT	NT	NT
Phosphoric Acid 105% (Superphos)	NT	NT	NT	NT
Phosphoric Acid 100% (Vapor and Condensate)	NT	NT	NT	NT
Phosphoric 100% (Vapor)	NT	NT	NT	NT
Phosphoric Acid:HCL Acid 15:9	NT	NT	NT	NT
Phosphoric Acid 5%	80	R	NT	NT
Phosphoric Acid 10%	80	R	NT	NT
Phosphoric Acid 20%	NT	NR	NT	NT
Phosphoric Acid 40%	NT	NR	NT	NT
Phosphoric Acid 50%	NT	NR	NR	NR
Phosphoric Acid 85%	NT	NT	NR	NR
Phosphorous Acid 70%	NT	NT	NT	NT
Phosphorous Oxychloride	NT	NT	NT	NT
Phosphorous Trichloride	NT	NT	NT	NT
Phthalic Acid, All	NT	NT	NT	NT
Phthalic Anhydride	NT	NT	NT	NT
Phthalic Anhydrous Acid	NT	NT	NT	NT
Pickling Acids	NT	NT	NT	NT
Picric Acid (in Alcohol) 10%	NT	NT	NT	NT
Pine Gum (Diluted)	NT	NT	NT	NT
Pine Oil	NT	NT	NT	NT
Platformate	NT	NT	80	R
Platinum Plating Solution	NT	NT	NT	NT
POAST Herbicide		NT	100	R
Podecyl Benzene Sulfonic Acid	NT	NT	NT	NT
Polyacrylic Acid	NT	NT	NT	NT
Polyaluminum Chloride	NT	NT	NT	NT
Polyamide, Aqueous Borne	NT	NT	NT	NT
Polychlorinated Biphenyl (PCB)	NT	NT	NT	NT
Poly-EM 10 Anionic	NT	NT	NT	NT
Poly-EM20	NT	NT	NT	NT
Polyester Resin	NT	NT	NT	NT
Polyethylene Glycol	NT	NT	NT	NT
Polyethylene, Resin w/ PVA Traces	NT	NT	NT	NT
Polyethyleneimine	NT	NT	100	R
Polymin SK	NT	NT	NT	
Polymer (Emulsion)	NT	R	NT	R
Polymer (Mannich)	NR	R	NT	NT
Polyol	NR	R	140	R
Polyolefin Resin, Dry	NT	NT	NT	NT
Polyphosphate (Zinc Orthophosphate)	NT	NT	NT	NT
Polyphosphoric Acid 115% H3PO4	NT	NT	NT	NT
Polypropylene Resin, Dry	NT	NT	NT	NT
Polytetrahydrofuran	NT	NT	NT	NT

ARIZONA DEPARTMENT OF ENVIRONMENTAL QUALITY

JAN 15 2008

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	Magnali	ux 304 Vinyl Ester	Sher	Sher-Glass FF		
		Secondary		Secondary		
Chemical Environment and Concentration (%)	Immersion	Containment	Immersion	Containment		
Pentanedione	NT	NT	NT	NT		
Pentanedioic Acid (see Glutaric Acid 50%)	100	R	NT	NT		
Pentachloroethane	NR	NR	NT	NT NT		
Pepper Perchloric Acid 10%	100	R		NT		
Perchloric Acid 30%	100	R	NT	NT		
Perchloroethylene	100	R	NT	NT		
PERMACOL #120	NT	NT		NT		
Permalastic Adhesive	100	R	NT	NT		
Petroleum Jelly	140	R	NT	NT		
Phenol Formaldehyde Resin, All (9)	80	R	NT	NT		
Phenol Sulfonic Acid 65% (9)	NR	NR	NT	NT		
Phenol (Carbolic Acid) 5% (9)	NR	NR	NT	NT		
Phenol (Carbolic Acid) 10% (9)	NR	NR	NT	NT		
Phenol (Carbolic Acid) 15% (9)	NR	NR	NT	NT		
Phenol (Carbolic Acid) 88% (9)	100	R	NT	NT		
Phenolic Resin (9)	NR	NR	NT	NT		
1-Phenyl-2-Methyl-1,2-Propane Diamin	NT	NT	NT NT	NT		
Phenylenediamine 50%	NT	NT	NT	NT		
Phenylhydrazine	NT	NT	NT	NT		
Phosphoric Acid 115% (Polyphos)	140	R	NT NT	NT NT		
Phosphoric Acid 105% (Superphos)	140	R	NT			
Phosphoric Acid 100% (Vapor and Condensate) Phosphoric 100% (Vapor)	140	R	NT	NT		
Phosphoric Acid:HCL Acid 15:9	NT	NT	NT	NT		
Phosphoric Acid 5%	140	R	NT	NT		
Phosphoric Acid 10%	140	R	NT	NT		
Phosphoric Acid 20%	140	R	NT	NT		
Phosphoric Acid 40%	140	R	NT	NT		
Phosphoric Acid 50%	140	R	NT	NT		
Phosphoric Acid 85%	140	R	NT	NT		
Phosphorous Acid 70%	140	R	NT	NT		
Phosphorous Oxychloride	NR	NR	NT	NT		
Phosphorous Trichloride	NR	NR	NT	NŤ		
Phthalic Acid, All	140	R	NT	NT		
Phthalic Anhydride	140	R	NT	NT		
Phthalic Anhydrous Acid	NT .	NT	NT	NT		
Pickling Acids	NR	NR	NT	NT		
Picric Acid (in Alcohol) 10%	140	NR	NT	NT		
Pine Gum (Diluted)	140	R	NT	NT		
Pine Oil	140	R	NT	NT		
Platformate	NT	NT NT	NT	NT		
Platinum Plating Solution	NT		NT			
POAST Herbicide	NT			NT NT		
Podecyl Benzene Sulfonic Acid Polyacrylic Acid	120	R	NT	NT		
Polyaluminum Chloride	NT	NT	NT	NT		
Polyamide, Aqueous Borne	NT		NT			
Polychlorinated Biphenyl (PCB)	NT	NT	NT	NT		
Poly-EM 10 Anionic	NT	NT	NT	NT		
Poly-EM20	NT	NT	NT	NT		
Polyester Resin	NT	NT	NŤ	NT		
Polyethylene Glycol	NT	NT	NT	NT		
Polyethylene, Resin w/ PVA Traces	NT	NT	NT	NT		
Polyethyleneimine	NT	NT	NT	NT		
Polymin SK	NT	NT	NT	NT		
Polymer (Emulsion)	NT	R	NT	NT		
Polymer (Mannich)	NT	NT	NT	NT		
Polyol	NT	NT	NT	NT		
Polyolefin Resin, Dry	NT	NT	NT	NT		
Polyphosphate (Zinc Orthophosphate)	NT	NT	NT	NT		
Polyphosphoric Acid 115% H3PO4	NT	NT	NT	NT		
Polypropylene Resin, Dry	NT	NT		NT		
Polytetrahydrofuran	NT	NT	NT	NT		

ARIZONA DEPARTMENT OF ENVIRONMENTAL QUALITY

JAN 15 2008

	Cor-Cote VEN FF		Cor-Cote VEN GF		Cor-Cote HCR FF		
	001-001	Secondary		Secondary		Secondary	
Chemical Environment and Concentration (%)	Immersion	Containment	Immersion	Containment	Immersion	Containment	
	100	R	100	R	NT	NT	
Polyvinyl Acetate Adhesives Polyvinyl Acetate Emulsion	100	R	100	R	NT	NT	
and the second se	150	R	150	R	NT	NT	
Polyvinyl Alcohol, All	100	R	100	R	NT	NT	
Polyvinyl Chloride Latex Potassium Acetate	150	R	150	R	120	R	
Potassium Aluminum Sulfate, All	150	R	150	R	NT	NT	
Potassium Bicarbonate, All	150	R	150	R	80	R	
Potassium Bichromate	150	R	150	R	80	R	
Potassium Bromide, All	150	R	150	R	120	R	
Potassium Grbonate 10% (1, 2, 4, 7)	150	R	150	R	120	R	
Potassium Carbonate 25% (1, 2, 4, 7)	150	R	150	R	120	R	
Potassium Carbonate 50% (1, 2, 4, 7)	150	R	150	R	NT	NT	
Potassium Chlorate	150	R	150	R	100	R	
Potassium Chloride, All	150	R	150	R	120	R	
Potassium Chloride 20%	150	R	150	R	120	R	
Potassium Cyanide	150	R	150	R	120	R	
Potassium Dichromate, All	150	R	150	R	NT	NT	
Potassium Enricyanide, All	150	R	150	R	NT	NT	
Potassium Ferrocyanide, All	150	R	150	R	NT	NT	
Potassium Fluoride (2, 4, 7)	150	R	150	R	120	R	
Potassium Gold Cyanide 12%	150	R	150	R	NT	NT	
Potassium Hydroxide 5% (1, 2, 4, 7, 9)	NR	R	NR	R	120	R	
Potassium Hydroxide 10% (1, 2, 4, 7, 9)	NR	R	NR	R	120	R	
Potassium Hydroxide 20% (1, 2, 4, 7, 9)	NR	R	NR	R	120	R	
Potassium Hydroxide 25% (1, 2, 4, 7, 9)	NR	R	NR	R	120	R	
Potassium Hydroxide 45% (1, 2, 4, 7, 9)	NR	R	NR	R	120	R	
Potassium Hydroxide 44%; Acrylic Acid 21% (1, 2, 4, 7, 9	NR	R	NR	R	NT	NT	
Potassium Hydroxide 50% (1, 2, 4, 7, 9)	NR	R	NR	R	120	R	
Potassium Hypochlorite (1, 2, 4, 7, 9)	NR	R	NR	R	NT	NT	
Potassium Iodide, All	120	R	120	R	NT	NT	
Potassium Nitrate, All	150	R	150	R	120	R	
Potassium Permaganate, All	150	R	150	R	NR	R	
Potassium Persulfate, All	150	R	150	R	NR	R	
Potassium Phosphate, Tribasic	NT	NT	NT	NT	NT	NT	
Potassium Phosphate 50%	NT	NT	NT	NT	NT	NT	
Potassium Pyrophosphate 60%	120	R	120	R	NT	NT	
Potassium Silicofluoride (1, 2, 4, 7)	100	R	100	R	NT	NT	
Potassium Sulfate, All	150	R	150	R	120	R	
Potassium Sulfite 45%	100	R	100	R	NT	NT	
Potassium Thiosulfate Solution	100	R	100	R	NT	NT	
Potassium Titanium Fluoride <5%	NT	NT	NT	NT	NT	NT	
Power Steering Fluid	NT	NT	NT	NT	NT	NT	
Potato Starch	NT	NT	NT	NT	NT	NT	
Propane	120	R	120	R	NT	NT	
Propanediol	120	R	120	R	100	R	
Propionaldehyde	100	R	100	R	NT	NT	
Propionic Acid 50%	150	R	150	R	NR	NR	
Propionic Acid	100	R	100	R	NR	NR	
Propyl Acetate	80	R	80	R	NT	NT	
Propyl Alcohol	80	R	80	R	NT	NT	
Propyl Cellosolve	NT	NT	NT	NT	NT	NT	
Propylene Carbonate	NT	NT	NT	NT	NT	NT	
Propylene Dichloride	NT	NT	NT	NT	NT	NT	
Propylene Glycol	150	R	150	R	120	R	
Propylene Glycol [Dowanol PMA] Monomethyl Ether Ac	e 100	R	100	R	NT	NT	
Propylene Glycol [Dowanol PMA] Monomethyl Ether Ac	d NR	NR	NR	NR	NT	NT	
Propylene Oxide	NR	NR	NR	NR	NT	NT	
Prune Juice	NT	NT	NT	NT	NT	NT	
Pulp, Slurry	NT	NT	NT	NT	NT	NT	
Pulp Mill Blow Down from Digester (5)	150	R	150	R	NT	NT	
Purifloc C-41 Flocculant	NT	NT	NT	NT	NT	NT	
PVC Powder	NT	NT	NT	NT	NT /	NT	
PVC 2% in Sulfuric Acid 5%	NT	NT	NT	NT	NT	NT	
FVC 2% IT Sururic Acid 5%				the second se			
PVC Feed Tank, Slurry	NT	NT	NT NT	NT NT	NT	NT NT	

ARIZONA DEPARTMENT OF ENVIRONMENTAL QUALITY

JAN 15 2008

Waste Programs Div. Permits Section

65/92

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	Cor-Co	ote HP	Cor-Cot	e HP FF	Cor-C	ote SC
		Secondary		Secondary		Secondary
Chemical Environment and Concentration (%)	Immersion	Containment	Immersion	Containment	Immersion	Containment
Polyvinyl Acetate Adhesives	NT	NT	NT	NT	NT	NT
Polyvinyl Acetate Emulsion	NT	NT	NT	NT	NT	NT
Polyvinyl Alcohol, All	NT	NT	NT	NT	NT	NT
	NT	NT	NT	NT	NT	NT
	NR	R	120	R	120	R
	NT	NT	NT	NT	NT	NT
Potassium Bicarbonate, All	NR	NR	NR	NR	NR NR	R
Potassium Bichromate Potassium Bromide, All	NR NR	NRR	NR	NR R	NR 120	R
Potassium Bromide, All Potassium Carbonate 10% (1, 2, 4, 7)	NR	R	80	R	80	R
Potassium Carbonate 25% (1, 2, 4, 7)	NR	R	80	R	80	R
Potassium Carbonate 50% (1, 2, 4, 7)	NT	NT	NT	NT	NT	NT
Potassium Chlorate	NR	R	120	R	100	R
Potassium Chloride, All	NR	R	120	R	120	R
Potassium Chloride 20%	NR	R	120	R	120	R
Potassium Cyanide	NR	R	NR	R	120	R
Potassium Dichromate, All	NT	NT	NT	NT	NT	NT
Potassium Ferricyanide, All	NT	NT	NT	NT	NT	NT
Potassium Ferrocyanide, All	NT	NT	NT	NT	NT	NT
Potassium Fluoride (2, 4, 7)	NR	R	NR	R	120	R
Potassium Gold Cyanide 12%	NT	NT	NT	NT	NT	NT
Potassium Hydroxide 5% (1, 2, 4, 7, 9)	NR	R	120	R	120	R
Potassium Hydroxide 10% (1, 2, 4, 7, 9)	NR	R	120	R	120	R
Potassium Hydroxide 20% (1, 2, 4, 7, 9)	NR	R	NR	R	120	R
Potassium Hydroxide 25% (1, 2, 4, 7, 9)	NR	R	NR	R	120	R
Potassium Hydroxide 45% (1, 2, 4, 7, 9)	NR	R	NR NT	R	120	R
Potassium Hydroxide 44%; Acrylic Acid 21% (1, 2, 4, 7, 9	NT NR	NT R	NR	R R	NT	R
Potassium Hydroxide 50% (1, 2, 4, 7, 9) Potassium Hypochlorite (1, 2, 4, 7, 9)	NT	NT	NT -	NT	NT	
Potassium lodide, All	NT	NT	NT	NT	NT	NT
Potassium Nitrate, All	NR	R	120	R	120	R
Potassium Permaganate, All	NR	NR	NR	NR	NR	NR
Potassium Persulfate, All	NR	R	NR	R	NR	R
Potassium Phosphate, Tribasic	NT	NT	NT	NT	NT	NT
Potassium Phosphate 50%	NR	R	120	R	100	R
Potassium Pyrophosphate 60%	NT	NT	NT	NT	NT	NT
Potassium Silicofluoride (1, 2, 4, 7)	NT	NT	NT	NT	NT	NT
Potassium Sulfate, All	NR	R	120	R	120	R
Potassium Sulfite 45%	NR	R	120	R	100	R
Potassium Thiosulfate Solution	NR	R	120	R	100	R
Potassium Titanium Fluoride <5%	NT	NT	NT	NT	NT	NT
Power Steering Fluid	NT	NT	NT	NT	NT	NT
Potato Starch	NT	NT	NT	NT	NT	NT
Propane	NT	NT	NT 420		NT	R
Propanediol Propionaldehyde	NR	R NR	120 NR	R NR	100 NR	NR
Propionic Acid 50%	NR	R	NR	R	NR	R
Propionic Acid 50%	NR	R	NR	R	NR	R
Propyl Acetate	NT	NT	NT	NT	NT	NT
Propyl Alcohol	NT	NT -	NT	NT	NT	NT
Propyl Cellosolve	NT	NT	NT	NT	NT	NT
Propylene Carbonate	NR	R	NR	R	NR	R
Propylene Dichloride	NT	NT	NT	NT	NT	NT
Propylene Glycol	NR	R	120	R	120	R
Propylene Glycol [Dowanol PMA] Monomethyl Ether Acc	NT	NT	NT	NT	NT	NT
Propylene Glycol [Dowanol PMA] Monomethyl Ether Acc		NT	NT	NT	NT	NT
Propylene Oxide	NT	NT	NT	NT	NT	NT
Prune Juice	NT	NT	NT	NT	NT	NT
Pulp, Slurry	NR	R	80	R	80	R
	NT ·	NT	NT	NT	NT	NT
Pulp Mill Blow Down from Digester (5)		NT	NT	NT	NT	NT
Purifloc C-41 Flocculant	NT			NT	NT	
Purifloc C-41 Flocculant PVC Powder	NT	NT	NT	NT	NT	NT
Purifloc C-41 Flocculant				NT NT	NT NT NT	NT NT NT

ARIZONA DEPARTMENT OF ENVIRONMENTAL QUALITY

JAN 1 5 2008

	EnviroLa	stic AR425 and AR200 HD	Fast	-Clad ER
Chemical Environment and Concentration (%)	Immersion	Secondary Containment	Immersion	Secondary Containment
Polyvinyl Acetate Adhesives	NT	NT	NT	NT
Polyvinyl Acetate Emulsion	NT	NT	NT	NT
Polyvinyl Alcohol, All	NT	NT	NT	NT
Polyvinyl Chloride Latex	NT	NT	NT	NT
Potassium Acetate	NT	NT	NT	- NT
Potassium Aluminum Sulfate, All	NT	NT	NT	NT
Potassium Bicarbonate, All	NT	NT	NT	NT
Potassium Bichromate	NR	NR	NT	NT
Potassium Bromide, All	NT	NT	NŤ	NT
Potassium Carbonate 10% (1, 2, 4, 7)	NT	NT	NT	NT
Potassium Carbonate 25% (1, 2, 4, 7)	NT	NT	NT	NT
Potassium Carbonate 50% (1, 2, 4, 7)	NT	NT	NT	NT
Potassium Chlorate	NT	NT	NT	NT
Potassium Chloride, All	NT	<u>NT</u>	NT	NT
Potassium Chloride 20%	NT	NT	140	R
Potassium Cyanide	NT	NT	NT	NT
Potassium Dichromate, All	NT	NT	NT	NT
Potassium Ferricyanide, All	NT	NT	100	R
Potassium Ferrocyanide, All	NT	NT	NT	
Potassium Fluoride (2, 4, 7)	NT	NT	NT	NT NT
Potassium Gold Cyanide 12%	NT 80	R	80	R
Potassium Hydroxide 5% (1, 2, 4, 7, 9) Potassium Hydroxide 10% (1, 2, 4, 7, 9)	80		80	R
	80	R	80	R
Potassium Hydroxide 20% (1, 2, 4, 7, 9) Potassium Hydroxide 25% (1, 2, 4, 7, 9)	80	R	NT	
Potassium Hydroxide 25% (1, 2, 4, 7, 9)	NR	NR	NT	NT
Potassium Hydroxide 44%; Acrylic Acid 21% (1, 2, 4, 7,		NT	100	R
Potassium Hydroxide 50% (1, 2, 4, 7, 9)	NR	NR	NR	NR
Potassium Hypochlorite (1, 2, 4, 7, 9)	NR	NR	NT	NT
Potassium Iodide, All	NT	NT	NT	NT
Potassium Nitrate, All	NT	NT	NT	NT
Potassium Permaganate, All	NT	NT	80	R
Potassium Persulfate, All	NT	NT	NT	NT
Potassium Phosphate, Tribasic	NT	NT	NT	NT
Potassium Phosphate 50%	NT	NT	100	R
Potassium Pyrophosphate 60%	NT	NT	NT	NT
Potassium Silicofluoride (1, 2, 4, 7)	NT	NT	NT	NT
Potassium Sulfate, All	NT	NT	NT	R
Potassium Sulfite 45%	NT	NT	100	R
Potassium Thiosulfate Solution	NT	NT	100	R
Potassium Titanium Fluoride <5%	NT	NT	NT	NT
Power Steering Fluid	NR	NR	NT	NT
Potato Starch	NT	NT	NT	NT
Propane	NT	NT	80	R
Propanediol	NT	NT	NT	R
Propionaldehyde	NT	NT	NR	NR
Propionic Acid 50%	NT	NT	NT	NT
Propionic Acid	NT	NT	NT	NT
Propyl Acetate	NT	NT	NT	NT
Propyl Alcohol	NT	NT	NT	NT
Propyl Cellosolve	NT		NR	NR
Propylene Carbonate	NT	NR	NR	NR
Propylene Dichloride	NT	NTR	NT	R
Propylene Glycol	80	and the second se	80 NR	NR
Propylene Glycol [Dowanol PMA] Monomethyl Ether A		NT	Cardina and a state of a state of the state	NR
Propylene Glycol [Dowanol PMA] Monomethyl Ether A		NT P	NR NT	NR
Propylene Oxide	NT	R NT	NT	NT
Prune Juice	NT		120	R
Pulp, Slurry Pulp Mill Blow Down from Digester (5)			120 NT	NT NT
Pulp Mill Blow Down from Digester (5) Purifloc C-41 Flocculant			NT	NT NT
PURITION C-41 Flocculant			NT	NT
PVC 2% in Sulfuric Acid 5%	NT	NT	NT	NT
PVC Feed Tank, Slurry	NT	NT	NT	NT
r to tota rain, olary		NT	NT	NT

ARIZONA DEPARTMENT OF ENVIRONMENTAL QUALITY

JAN 15 2008

Waste Programs Div. Permits Section

67/92

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	Magnal	ux 304 Vinyl Ester	Sher	-Glass FF
		Secondary		Secondary
Chemical Environment and Concentration (%)	Immersion	Containment	Immersion	Containment
Polyvinyl Acetate Adhesives	100	R	NT	NT
Polyvinyl Acetate Emulsion	100	R	NT	NT
Polyvinyl Alcohol, All	140	R	NT	NT
Polyvinyl Chloride Latex	100	R		
Potassium Acetate Potassium Aluminum Sulfate, All	140	R		NT
Potassium Aluminum Sultate, All	140	R	NT	NT
Potassium Bichromate	140	R	NT	NT
Potassium Bromide, All	140	R	NT	NT
Potassium Carbonate 10% (1, 2, 4, 7)	140	R	NT	NT
Potassium Carbonate 25% (1, 2, 4, 7)	140	R	NT	NT
Potassium Carbonate 50% (1, 2, 4, 7)	140	R	NT	NT
Potassium Chlorate	140	R	NT	NT
Potassium Chloride, All	140	R	NT	NT
Potassium Chloride 20%	140	R	NT	NT
Potassium Cyanide	140	R	NT	NT
Potassium Dichromate, All	140	R		NT
Potassium Ferricyanide, All	140	R	NT	NT
Potassium Ferrocyanide, All	140	R	NT NT	NT NT
Potassium Fluoride (2, 4, 7) Potassium Gold Cyanide 12%	140	R	NT	NT
Potassium Gold Cyanide 12% Potassium Hydroxide 5% (1, 2, 4, 7, 9)	140	R	NT	NT
Potassium Hydroxide 10% (1, 2, 4, 7, 9)	120	R	NT	NT
Potassium Hydroxide 20% (1, 2, 4, 7, 9)	140	R	NT	NT
Potassium Hydroxide 25% (1, 2, 4, 7, 9)	140	R	NT	NT
Potassium Hydroxide 45% (1, 2, 4, 7, 9)	140	R	NT	NT
Potassium Hydroxide 44%; Acrylic Acid 21% (1, 2, 4, 7,	9 140	R	NT	NT
Potassium Hydroxide 50% (1, 2, 4, 7, 9)	140	R	NT	NT
Potassium Hypochlorite (1, 2, 4, 7, 9)	140	R	NT	NT
Potassium lodide, All	140	R	NT	NT
Potassium Nitrate, All	140	R	NT	NT
Potassium Permaganate, All	140	R	NT	NT
Potassium Persulfate, All	140	R	NT	NT
Potassium Phosphate, Tribasic	NT	NT		
Potassium Phosphate 50% Potassium Pyrophosphate 60%	NT 100	R	NT	NT
Potassium Fyrophosphate 60%	100	R	NT	NT
Potassium Sulfate, All	140	R	NT	NT
Potassium Sulfite 45%	100	R	NT	NT
Potassium Thiosulfate Solution	NR	R	NT	NT
Potassium Titanium Fluoride <5%	NT	NT	NT	NT
Power Steering Fluid	NT	NT	NT	NT
Potato Starch	NT	NT	NT	NT
Propane	140	R	NT	NŤ
Propanediol	120	R	NT	NT
Propionaldehyde	80	R	NT	NT
Propionic Acid 50%	140	R	NT	NT
Propionic Acid	NR	NR	NT NT	
Propyl Acetate	NR 80	R		NT NT
Propyl Cellosolve	NT		NT	NT
Propylene Carbonate	NT	NT	NT	NT
Propylene Dichloride	NT	NT	NT	NT
Propylene Glycol	140	R	NT	NT
Propylene Glycol [Dowanol PMA] Monomethyl Ether Ad		R	NT	NT
Propylene Glycol [Dowanol PMA] Monomethyl Ether Ad	and the second of the second s	NR	NT	NT
Propylene Oxide	NR	NR	NT	NT
Prune Juice	NT	NT	NT	NT
Pulp, Slurry	NT	NT	NT	NT
Pulp Mill Blow Down from Digester (5)	140	R	NT	NT
Purifloc C-41 Flocculant	NT	NT	NT	NT
PVC Powder	NT	NT	NT	NT
PVC 2% in Sulfuric Acid 5% PVC Feed Tank, Slurry	NT NT		NT NT	NT NT

ARIZONA DEPARTMENT OF ENVIRONMENTAL QUALITY

JAN 15 2008

	Cor-Co	te VEN FF	Cor-Co	te VEN GF	Cor-Co	ote HCR FF
		Secondary		Secondary		Secondary
Chemical Environment and Concentration (%)	Immersion	Containment	Immersion	Containment	Immersion	Containment
Pyridine 20%	80	R	80	R	NR	R
Pyridine 100%	NR	R	NR	R	NR	NR
Quaternary Amine Salts	150	R	150	R	NT	NT
Raisin Feedstock Concentrate (SunMaid)	150	R	NR	R	NT 100	R
Rayon Spin Bath	120	R R	120	R	100	R
Rayon Spin Liquor Rock Salt	120 150	R	150	R	140	R
Red Liquor	150	R	150	R	NT	NT
Rosin Size	NT	NT	NT	NT	NT	NT
ROUNDUP Herbicide	100	R	100	R	NT	NT
Rum, 80 Proof	150	R	150	R	100	R
Salicyaldehyde	100	R	100	R	80	R
Salicylic Acid	140	R	140	R	100	R
SC - Solvent	NT	NT	NT	NT	NT	NT
Selenious Acid, All	150	R	150	R	NT	NT
Separan CP-7 Flocculant	NT	NT	NT	NT	NT NT	NT NT
SERVAC Shell, Orthoxylene	NT NT	NT NT	NT NT	NT		
Silicon Tetrafluoride w/HFL, Sulfuric (1, 2, 4, 7, 9)	80	R	80	R	NT	NT
Silicon Tetrachloride	120	R	120	R	80	R
Silicone Fluid 2-0408	NT	NT	NT	NT	NT	NT
Silver Nitrate	150	R	150	R	80	R
Silver Plating Solution (1, 2, 4, 7)	150	R	150	R	NT	NT
Skydrol	80	R	80	R	80	R
Soap Solution 10%	NT	NT	NT	NT	NT	NT
Soap Concentrate, Fatty Acid	NT	NT	NT	NT	NT	NT
Soap Concentrate, Oleic Acid	NT	NT	NT	NT	NT	
Soda Ash (Sodium Carbonate)	150	R	150 150	R	NT 120	R
Sodium AcetateSodium Alkyd Aryl Sulfate, All	150	R	150	R	NT	NT
Sodium Alwinate, All (1, 2, 4, 7)	120	R	120	R	120	R
Sodium Benzoate	150	R	150	R	NT	NT
Sodium Bicarbonate (1, 2, 4, 7)	150	R	150	R	120	R. [,]
Sodium Bicarbonate 10% (1, 2, 4, 7)	150	R	150	R	120	R
Sodium Bicarbonate 20% (1, 2, 4, 7)	150	R	150	R	120	R
Sodium Bicarbonate, Saturated (1, 2, 4, 7)	150	R	150	R	120	R
Sodium Bisulfate, All	100	R	100	R	120	R
Sodium Bisulfide	150	R	150	R	NR	R
Sodium Bisulfite 38%	150	R	150	R	120	R
Sodium Bisulfite, Saturated	150	R	150	R	120 NT	NT
Sodium Borate, Saturated Sodium Bromate	150 150	R	150	R	120	R
Sodium Bromate 5%	150	R	150	- R	120	R
Sodium Bromide 5%	150	R	150	R	100	R
Sodium Bromide	150	R	150	R	100	R
Sodium Bromide;Sodium Hydroxide	150	R	150	R	100	R
Sodium Bromide Waste	150	R	150	R	NT	NT
Sodium Carbonate 10% (1, 2, 4, 7)	150	R	150	R	120	R
Sodium Carbonate 25% (1, 2, 4, 7)	150	R	150	R	120	R
Sodium Carbonate 30% (1, 2, 4, 7)	150	R	150	R	120	R
Sodium Carbonate 35% (1, 2, 4, 7)	150	R	150	R	120	R
Sodium Carbonate, Saturated (1, 2, 4, 7)	150	R	150	R	120	R
Sodium Carbonate, Slurry (1, 2, 4, 7) Sodium Chlorate 50%	150	R	150	R	120	R
Sodium Chlorate (solid)	150	R	150	R	120	R
Sodium Chlorate; Sodium Chloride	150	R	150	R	120	R
Sodium Chloride; Sodium Hydrosulfite	80	R	80	R	NT	NT
Sodium Chloride; Sodium Hydroxide	80	R	80	R	NT	NT
Sodium Chloride	150	R	150	R	120	R
Sodium Chloride Solution 10%	150	R	150	R	120	R
Sodium Chlorite pH >6	150	R	150	R	NR	NR
Sodium Chlorite, Saturated	150	R	150	R	NR	NR
Sodium Chromate	150	R	150	R	120	R
Sodium Citrate	120	R	120	R	120	R
Sodium Cyanide 15%	150	R	150	R	120	R

ARIZONA DEPARTMENT OF ENVIRONMENTAL QUALITY

JAN 15 2008

Waste Programs Div

	Cor	-Cote HP	Cor-C	ote HP FF	L Co	r-Cote SC
		Secondary		Secondary		Secondary
Chemical Environment and Concentration (%)	Immersion	Containment	Immersion	Containment	Immersion	Containment
Pyridine 20%	NR	NR	NR	NR	NR	NR
Pyridine 100%	NR	NR	NR	NR	NR	NR
Quaternary Amine Salts	NT	NT	NT	NT	NT	NT
Raisin Feedstock Concentrate (SunMaid)	NR	R	120	R	100	R
Rayon Spin Bath	NR	R	120	R	-100	R
Rayon Spin Liquor	NR	R	120	R	100	R
Rock Salt	NR	R	120	R	120	R
Red Liquor	NT	NT	NT	NT	NT	NT
Rosin Size	NT	NT	NT	NT	NT	NT
ROUNDUP Herbicide	NT	NT	NT	R	NT NR	R
Rum, 80 Proof	NR NR	R NR	NR NR	NR	NR	NR
Salicyaldehyde		R	NR	R	NR	R
Salicylic Acid	NT	NT	NT	NT	NT	NT
Selenious Acid, All	NT	NT	NT	NT	NT	NT
Separan CP-7 Flocculant	NT	NT	NT	NT	NT	NT
SERVAC	NT	NT	NT	NT	NT	NT
Shell, Orthoxylene	NT	NT	NT	NT	NT	NT
Silicon Tetrafluoride w/HFL, Sulfuric (1, 2, 4, 7, 9)	NT	NT	NT	NT	NT	NT
Silicon Tetrachloride	NR	R	NR	R	NR	R
Silicone Fluid 2-0408	NR	R	120	R	100	R
Silver Nitrate	NR	R	NR	R	NR	R
Silver Plating Solution (1, 2, 4, 7)	NT	NT	NT	NT	NT	NT
Skydrol	NR	R	NR	R	NR	R
Soap Solution 10%	NT	NT	NT		NT	NT
Soap Concentrate, Fatty Acid	NT	NT	NT	NT	NT	NT NT
Soap Concentrate, Oleic Acid	NT NT	NT NT	NT NT	NT NT	NT	NT
Soda Ash (Sodium Carbonate) Sodium Acetate	NR	R	120	R	120	R
Sodium Alkyd Aryl Sulfate, All	NT	NT	NT	NT	NT	
Sodium Aluminate, All (1, 2, 4, 7)	NR	R	120	R	120	R
Sodium Benzoate	NT	NT	NT	NT	NT	NT
Sodium Bicarbonate (1, 2, 4, 7)	NR	R	120	R	120	R
Sodium Bicarbonate 10% (1, 2, 4, 7)	NR	R	120	R	120	R
Sodium Bicarbonate 20% (1, 2, 4, 7)	NR	R	120	R	120	R
Sodium Bicarbonate, Saturated (1, 2, 4, 7)	NR	R	120	R	120	R
Sodium Bisulfate, All	NR	R	120	R	120	R
Sodium Bisulfide	NR	R	NR	R	NR	R
Sodium Bisulfite 38%	NR	R	NR	R	120	<u>R</u>
Sodium Bisulfite, Saturated	NR	R	120	R	120	R NT
Sodium Borate, Saturated	NT	NT	NT 120	R	NT	R
Sodium Bromate Sodium Bromate 5%	NR NR	R	100	R	100	R
Sodium Bromate 5%	NR	R	100	R	100	R
Sodium Bromide	NR NR	R	100	R	120	R
Sodium Bromide;Sodium Hydroxide	NR	R	100	R	120	R
Sodium Bromide Waste	NT	NT -	NT	NT	NT	NT
Sodium Carbonate 10% (1, 2, 4, 7)	NR	R	120	R	120	R
Sodium Carbonate 25% (1, 2, 4, 7)	NR	R	120	R	120	R
Sodium Carbonate 30% (1, 2, 4, 7)	NR	R	120	R	120	R
Sodium Carbonate 35% (1, 2, 4, 7)	NR	R	120	R	120	R
Sodium Carbonate, Saturated (1, 2, 4, 7)	NR	R	120	R	120	R
Sodium Carbonate, Slurry (1, 2, 4, 7)	NR	R	120	R	120	R
Sodium Chlorate 50%	NR	R	120	R	NR	R
Sodium Chlorate (solid)	NR	R	120	R	120	R
Sodium Chlorate; Sodium Chloride	NR	R	120 NT	R NT	120 NT	
Sodium Chloride; Sodium Hydrosulfite		NT NT	NT		NT	NT
Sodium Chloride; Sodium Hydroxide Sodium Chloride	NR	R	120	R	120	R
Sodium Chloride Sodium Chloride Solution 10%	NR	R	120		120	R
Sodium Chlorite pH >6	NR	NR	NR	NR	NR	NR
Sodium Chlorite, Saturated	NR NR	NR	NR	NR	NR	NR
Sodium Chromate	NR	R	120	R	NR	R
	NR	R	NR	R	NR	1 R
Sodium Citrate						

ARIZONA DEPARTMENT OF ENVIRONMENTAL QUALITY

JAN 15 2008

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Chemical Environment and Concentration (%)	Immersion	Secondary Containment	Immersion	Containmen
Pyridine 20%	NR	R	NT	NT
Pyridine 100%	NR	R	NT	NT
Quaternary Amine Salts	NT	NT	NT	NT
Raisin Feedstock Concentrate (SunMaid)	NT	NT	100	R
Rayon Spin Bath	NT	NT	NT ····	NT
Rayon Spin Liquor	NT	NT	NT	NT
Rock Salt	NR	R	100	R
Red Liquor	NT	NT	NT	NT
Rosin Size	NR	R	NT	NT
ROUNDUP Herbicide	NT	NT	100	R
Rum, 80 Proof	NT	NT	NR	NR
Salicyaldehyde	NT	NT	NT	NT
Salicylic Acid	NT	NT	NT	NT
SC - Solvent	NT	NT	NT	NT
Selenious Acid, All	NT	NT	NT	NT
Separan CP-7 Flocculant	NT	NT	NT	NT
SERVAC	NT	NT	NT	NT
Shell, Orthoxylene	NT	NT	80	R
Silicon Tetrafluoride w/HFL, Sulfuric (1, 2, 4, 7, 9)	NT	NT	NT	NT
Silicon Tetrachloride	NT	NT	NT	NT
Silicone Fluid 2-0408	NT	NT	NT	NT
Silver Nitrate	NT	NT	NT	NT
Silver Plating Solution (1, 2, 4, 7)	NT	NT	NT	NT
Skydrol	NR	NR	NT	NT
Soap Solution 10%	NT	NT	NT	NT
Soap Concentrate, Fatty Acid	NT	NT	NT	NT
Soap Concentrate, Oleic Acid	NT	NT	NT	NT
Soda Ash (Sodium Carbonate)	NT	NT	NT	NT
Sodium Acetate	NT	NT	NT	NT
Sodium Alkyd Aryl Sulfate, All	NT	NT	NT	NT
Sodium Aluminate, All (1, 2, 4, 7)	NT	NT	140	R
Sodium Benzoate	NT	NT	NT	NT
Sodium Bicarbonate (1, 2, 4, 7)	NT	NT	NT	NT
Sodium Bicarbonate 10% (1, 2, 4, 7)	NT	NT	NT	NT
Sodium Bicarbonate 20% (1, 2, 4, 7)	NT	NT	NT	NT
Sodium Bicarbonate, Saturated (1, 2, 4, 7)	NT	NT	NT	NT
Sodium Bisulfate, All	NT	NT	NT	NT
	NT	NT NT	NT	R
Sodium Bisulfite 38%	NT		NT	NR
Sodium Bisulfite, Saturated	NT		NT	NT
Sodium Borate, Saturated Sodium Bromate	NT	NT	NT	NT NT
Sodium Bromate 5%	NT	NT	NT	NT
			NT	
Sodium Bromide 5%	NT	NT NT	NT NT	R
		NT	100	
Sodium Bromide;Sodium Hydroxide Sodium Bromide Waste	NT NT	NT	100 NT	R NT
Sodium Bromide Waste Sodium Carbonate 10% (1, 2, 4, 7)	NT	NT	140	R
Sodium Carbonate 10% (1, 2, 4, 7)			140	R
Sodium Carbonate 25% (1, 2, 4, 7)	NT	NT	140	R
Sodium Carbonate 30% (1, 2, 4, 7)	NT	NT	140 NT	R
Sodium Carbonate 35% (1, 2, 4, 7)	NT	NT	NT	R
Sodium Carbonate, Saturated (1, 2, 4, 7)	NT	NT	140	R
Sodium Carbonate, Sturry (1, 2, 4, 7)	NT	NT	NR	R
Sodium Chlorate (solid)	NT	NT	140	R
Sodium Chlorate (Solid)	NT	NT	NT	NT
Sodium Chloride; Sodium Chloride	NT	NT	Sare and the second sec	NI
Sodium Chloride; Sodium Hydrosulitte	NT	NT	NT	
history and the second se			NR	NR
Sodium Chloride	80	R	NT	NT
Sodium Chloride Solution 10%	120	R	NT	NT
Sodium Chlorite pH >6	NT	NT	100	R
Sodium Chlorite, Saturated	NT	NT	NR	R
Sodium Chromate	NT	NT NT	80 NT	R
			I NI	NT

ARIZONA DEPARTMENT OF ENVIRONMENTAL QUALITY

JAN 15 2008

Waste Programs Div. Permits Section

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	Magnali	ux 304 Vinyl Ester	Sher	-Glass FF
Chamical Environment and Concentration (9/)		Secondary		Secondary Containment
Chemical Environment and Concentration (%)	Immersion	Containment	Immersion	the second s
Pyridine 20%	80	R	NT	NT
Pyridine 100%	NR	NR	NT	NT
Quaternary Amine Salts Raisin Feedstock Concentrate (SunMaid)	140 NR	R	NT NT	NT
Rayon Spin Bath	140	R	NT	NT ·····
Rayon Spin Liquor	140	R	NT	
Rock Salt	140	R	NT	NT
Red Liquor	140	R	NT	NT
Rosin Size	NT	NT	NT	NT
ROUNDUP Herbicide	100	R	NT	NT
Rum, 80 Proof	140	R	NT	NT
Salicyaldehyde	NR	NR	NT	NT
Salicylic Acid	120	R	NT	NT
SC - Solvent	NT	NT	NT	NT
Selenious Acid, All	140	R	NT	NT
Separan CP-7 Flocculant	NT	NT	NT	NT
SERVAC	NT	NT	NT	NT
Shell, Orthoxylene	NT	NT	NT	NT
Silicon Tetrafluoride w/HFL, Sulfuric (1, 2, 4, 7, 9)	80	R	NT	NT
Silicon Tetrachloride	140	R	NT	NT
Silicone Fluid 2-0408	NT	NT	NT	NT
Silver Nitrate	140	R	NT	NT
Silver Plating Solution (1, 2, 4, 7)	140	R	NT	NT
Skydrol	80	R	NT	NT
Soap Solution 10%	NT	NT	NT	NT
Soap Concentrate, Fatty Acid	NT	NT	NT	NT
Soap Concentrate, Oleic Acid	140	R	NT	NT
Soda Ash (Sodium Carbonate)	140	R	NT	NT
Sodium Acetate	140	R	NT	NT
Sodium Alkyd Aryl Sulfate, All	140	R	NT	NT
Sodium Aluminate, All (1, 2, 4, 7)	140		NT	NT
Sodium Benzoate	140	R	NT	NT
Sodium Bicarbonate (1, 2, 4, 7)	140	R		NT NT
Sodium Bicarbonate 10% (1, 2, 4, 7)	100		NT	
Sodium Bicarbonate 20% (1, 2, 4, 7)	100	R		
Sodium Bicarbonate, Saturated (1, 2, 4, 7) Sodium Bisulfate, All	140	R	NT	
Sodium Bisulfide	140	R	NT	NT
Sodium Bisulfite 38%	140	R		
Sodium Bisulfite, Saturated	140	R	NT	NT
Sodium Brate, Saturated	140	R	NT	NT
Sodium Bromate	140		NT	NT
Sodium Bromate 5%	140	R	NT	NT
Sodium Bromide 5%	140	R	NT	NT
Sodium Bromide	140	R	NT	NT
Sodium Bromide;Sodium Hydroxide	140	R	NT	NT
Sodium Bromide Waste	140	R	NT	NT
Sodium Carbonate 10% (1, 2, 4, 7)	140	R	NT	NT
Sodium Carbonate 25% (1, 2, 4, 7)	140	R	NT	NT
Sodium Carbonate 30% (1, 2, 4, 7)	140	R	NT	NT
Sodium Carbonate 35% (1, 2, 4, 7)	140	R	NT	NT
Sodium Carbonate, Saturated (1, 2, 4, 7)	140	R	NT	NT
Sodium Carbonate, Slurry (1, 2, 4, 7)	140	R	NT	NT
Sodium Chlorate 50%	140	R	NT	NT
Sodium Chlorate (solid)	140	R	NT	NT
Sodium Chlorate; Sodium Chloride	140	R	NT	NT
Sodium Chloride; Sodium Hydrosulfite	140	R	NT	NT
Sodium Chloride; Sodium Hydroxide	140	R	NT	NT
Sodium Chloride	140	R	NT	NT
Sodium Chloride Solution 10%	140	R	NT	NT
Sodium Chlorite pH >6	120	R	NT	NT
Sodium Chlorite, Saturated	120	R	NT	NT
Sodium Chromate	140	R	NT	NT
Sodium Citrate	140	R	NT	NT
Sodium Cyanide 15%	140	R	NT	NT

ARIZONA DEPARTMENT OF ENVIRONMENTAL QUALITY

JAN 15 2008

	Cor-C	Dto VEN FF	Cor-Co	ta VEN QF	Cor-Co	THO HCR FF
		Secondary		Secondary		Socondary
Chemical Environment and Concentration (%)	Immersion	Containmont	Immersion	Containment	mme rsio n	Containment
Sodium Cyanide	150	R	150	R	NT	NT
Sodium Dichromato, All	150	8	150	R	100	R
Sodium Diphosphale, All	150	R	150	R	NT	NT
Sodium Dodacylbanzenesuli	150	R	150	R ,	NT	NT
Sodium Ferricyanida, All	150	R	150	R	NT	NT
Sodium Ferrocyanide, All	150	R	150	R	NT	NY
Sodium Formate	100	R	100	8	NT ADD	NT
Sodium Fluoride, Alt (1, 2, 4, 7) Sodium Fluorosilicate, Alt (1, 2, 4, 7)	150	R	150	R	120 NT	R NT
Sodium Gluconata	150	R	150	R	NT	NT
Sodium Olycolate	150	8	150	R	NT	TN
Sodium Hexametaphosph, All	150	R	150	R	NT	NT
Sodium Hydrosulfide (see Sodium Bisulfide)	NT	NT	NT	N7	NŤ	Nĭ
Sodium Hydrosulfile 25%	150	R	150	R	NT	NT
Sodium Hydrosulfite 40%	100	R	100	R	лт	NT
Sodium Hydroxide 2% (1, 2, 4, 7, 9)	100	Ŕ	100	R	100	R
Sodium Hydroxide 5% (1, 2, 4, 7, 9)	100	R	100	R	100	R
Sodium Hydroxida 10% (1, 2, 4, 7, 9)	100	R	100	R	100	R
Sodium Hydroxide 20% (1, 2, 4, 7, 9)	100	R	100	R	100	
Sodium Hydroxide 25% (1, 2, 4, 7, 9)	100	8	100	R	100	R
Sodium Hydroxide 50% (1, 2, 4, 7, 9) Sodium Hypochlorite 3% (1, 2, 4, 7, 8)	100	R	100 120	R 8	100 NR	R
Sodium Hypochiorite 12.5% (1, 2, 4, 7, 8, 9)	120	R	120	8	NR	R
Sodium Hypochlorite 15% (1, 2, 4, 7, 8)	120	R	120	R	NR	R
Sodium Hypochlorite 20% (1, 2, 4, 7, 8)	NR	8	NR	R	NR	8
Sodium Lauryi Suifate 20%	140	8	140	R	120	R
Sodium Metablsulfile, All	150	R	150	R	NŤ	TM
Sodium Monophosphate, All	150	R	1.50	R	NT	NT
Sodium N-Mathyldithlocarbamate	150	R	150	R	NT	NT
Sodium Nitrito, All	150	R	150	R	NT	NT
Sadium Nitrito, 41-47%	NT'	NT	NT	NT	NT	R
Sodium Oxalate, Saturatod	150	R	150	R	120	R
Sodium Permaganale, 41-44%	NIT	NT	NT	พา	NR	NR
Sodium Persulfate	150	<u>R</u>	150	R 8	NT 120	NT R
Sodium Peroxide - Peroxide Bleach Sodium (Acid) Phosphate	150	R	150	R	120	R
Sodium Phosphate 10%	150	R	150	A	120	8
Sodium Phosphate 50%	150	8	150	R	120	R
Sodium Phosphate (Trl), All	100	8	100	8	120	R
Sodium Polyacrylate 25%	150	R	150	8	NT	זא
Sodium Polymethacrylato	120	R	120	R	100	R
Sodium Propionato	NT	NT	NT	NT	NΥ	พา
Sodium Silicate, All	150	8	150	R	NT	אד
Sadium Silicofluoride	NT	NT	זא	NT	NT	Nî
Sodium Sulfate, All	150	R	150	R	120	R
Sodium Sulfide, All	150	R	150	R	120	
Sodium Sullite, All Sodium Sulfide, Saturated	150	R	150 150	R	120	R
Sodium Tartrata, All	150	R	150	8	120	R
Sodium Tetraborato, Salurated	150	R	150	R	NT	NT
Sodium Thiocyanato 57%	150	R	150	R	NY	NT
Sedium Thiosulfate (Hypo)	150	R	150	R	120	R
Sodium Tripolyphosphate, Saturated	150	R	150	R	NŤ	NT
Sodium Vinyl Sulfonato	NŤ	NT	NT	NT	NT	Tא
Sudium Xylene Sulfonate, All	150	8	150	R	זא	мт
Soll Fumigant	N	NT	NT	NT	NT	NT
Solder Plato	NT	NT	NT	NT	NT	NT
Solu-Smokta	NT	NT	NT	NT	זא	NT
Solvent Extraction Solutions	150	R	נגט אד	R	NT	NT NT
Solvani SC #100 Sorbitol Salutions, All	NT 150	R	150	R	NT	NT
Sorbico Solutions, All	150 NT		150 NT	NT		NT
Soya Oil	150	- 8	150	R	100	R
Soybean Oil	150	R	150	R	100 .	R

ARIZONA DEPARTMENT OF ENVIRONMENTAL QUALITY

JAN 15 2008

Waste Programs Div. Permits Section

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Commaxi Environment and Concentration (%) Immersion Secondary Immersion Secondary Immersion Containment Sodium Dichonants All NT		Cor-Cote HP		Cor-Cote HP FF		Cor-Cote SC	
Chembal Conviounes and Concentration (Non-ContainanterImmersionContainanterImmersionContainanterContainanterContainanterSodum Dichorsonta, AllNRR120RNT <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th>							
Solum Disconstra, AI NR R 100 R 100 R Solum Disconstramsuff NT	Chemical Environment and Concentration (%)			Immersion	-	immersion	
Solum Diposphate, AI NT NT <th>Sodium Cyanide</th> <th>NT</th> <th>NT</th> <th>NT</th> <th>NT</th> <th>NT</th> <th>NT</th>	Sodium Cyanide	NT	NT	NT	NT	NT	NT
Sortum Doscychosznesour NT		NR	R	120	R	100	R
Solum NT Sodium Nydrokids (2, 4, 7,	Sodium Diphosphate, All	NT	NT	NT	NT	NT	NT
Sadue nerrongands, All NT Sodium hydroide 595 (1, 2, 4,	Sodium Dodecylbenzenesulf	NT	NT	NT	NT	NT ⁻	
Sodium Functional NT	Sodium Ferricyanide, All	NT	NT	NT	NT	NT	
Sadium Fluoridia, Al (1, 2, 4, 7) NF NT Sodium Nydoxide 2% (1, 2, 4, 7, 10 <td>Sodium Ferrocyanide, All</td> <td>NT</td> <td>NT</td> <td>NT</td> <td></td> <td></td> <td></td>	Sodium Ferrocyanide, All	NT	NT	NT			
Sordium Picconsideria, Ai (1, 2, 4, 7) NT NT <td>Sodium Formate</td> <td>NT</td> <td>NT</td> <td>NT</td> <td>NT</td> <td>-</td> <td></td>	Sodium Formate	NT	NT	NT	NT	-	
Solian Glocosta NT Solian infycolood 25% (1, 2, 4, 7, 0<	Sodium Fluoride, All (1, 2, 4, 7)						
Sadium Speciata NT		NT					
Sodium Hystamstaphosph, AII NT NT <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>							
Sadium Hydroxulfde (see Sodium Bisuffide) NT NT </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>							
Sadium Hydroxulfie 2% NT NT NT NT NT NT NT NT Sodium Hydroxde 2% (1, 2, 4, 7, 9) NR R 100 R 100 R Sodium Hydroxde 2% (1, 2, 4, 7, 9) NR R 100 R 100 R Sodium Hydroxde 2% (1, 2, 4, 7, 9) NR R 100 R 100 R Sodium Hydroxde 2% (1, 2, 4, 7, 9) NR R 100 R 100 R Sodium Hydroxde 2% (1, 2, 4, 7, 9) NR R 100 R 100 R Sodium Hydroxde 2% (1, 2, 4, 7, 9) NR NR R 100 R 100 R Sodium Hydroxde 2% (1, 2, 4, 7, 8) NR Sodium Hydroxde 2% (1, 2, 4, 7, 8) NR NR NR NR S							
Sodium Hydroxide 2% (1, 2, 4, 7, 9) NR R 100 R NT NT Sodium Hydroxide 2% (1, 2, 4, 7, 9) NR R 100 R 100 R Sodium Hydroxide 2% (1, 2, 4, 7, 9) NR R 100 R 100 R Sodium Hydroxide 2% (1, 2, 4, 7, 9) NR R 100 R 100 R Sodium Hydroxide 2% (1, 2, 4, 7, 9) NR R 100 R 100 R Sodium Hydroxide 2% (1, 2, 4, 7, 9) NR R 100 R 100 R Sodium Hydroxide 2% (1, 2, 4, 7, 8) NR NR R 100 R NR Sodium Hydroxide 2% (1, 2, 4, 7, 8) NR NR NR NR NR Sodium Sodia Matchistante NR NR NR Sodium Sodia Matchistante NR NR NR <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>							
Sodium Hydroxide 2% (1, 2, 4, 7, 9) NR R 100 R 100 R Sodium Hydroxide 2% (1, 2, 4, 7, 9) NR R 100 R 100 R Sodium Hydroxide 20% (1, 2, 4, 7, 9) NR R 100 R 100 R Sodium Hydroxide 20% (1, 2, 4, 7, 9) NR R 100 R 100 R Sodium Hydroxide 20% (1, 2, 4, 7, 9) NR R 100 R 100 R Sodium Hydroxide 20% (1, 2, 4, 7, 8) NR NR R 100 R NR R Sodium Hydroxide 20% (1, 2, 4, 7, 8) NR Sodium NR NR							
Sadium Hydraxide 5% (1, 2, 4, 7, 9) NR R 100 R 100 R Sodium Hydraxide 25% (1, 2, 4, 7, 9) NR R 100 R 100 R Sodium Hydraxide 25% (1, 2, 4, 7, 9) NR R 100 R 100 R Sodium Hydraxide 25% (1, 2, 4, 7, 9) NR R 100 R 100 R Sodium Hydraxide 25% (1, 2, 4, 7, 8) NR NR R 100 R NR Sodium Sodia Mydebydibite Atamate NT Sodium Sodia Mydebydibite Atamate N							
Sodium Hydroxide 10% (1, 2, 4, 7, 9) NR R 100 R 100 R Sodium Hydroxide 25% (1, 2, 4, 7, 9) NR R 100 R 100 R Sodium Hydroxide 25% (1, 2, 4, 7, 9) NR R 100 R 100 R Sodium Hydroxide 25% (1, 2, 4, 7, 9) NR R 100 R NR R Sodium Hydroxide 25% (1, 2, 4, 7, 9) NR							
Sodium Hydroxide 20% (1, 2, 4, 7, 9) NR R 100 R 100 R Sodium Hydroxide 25% (1, 2, 4, 7, 9) NR R 100 R 100 R Sodium Hydroxide 25% (1, 2, 4, 7, 9) NR R 100 R 100 R 100 R Sodium Hybochiorite 15% (1, 2, 4, 7, 8) NR Sodium Anthydrixide Anthydrixide Anthydrixide Anth							
Sadium Hydroxide 25% (1, 2, 4, 7, 9) NR R 100 R 100 R Sodium Hydroxide 52% (1, 2, 4, 7, 9) NR R 100 R 100 R Sodium Hypochiorite 15% (1, 2, 4, 7, 9) NR Sodium Nrink AL NR NR NR NR NR							
Sodium Hydroxis 50% (1, 2, 4, 7, 9) NR R 100 R 100 R Sodium Hypochiorite 3% (1, 2, 4, 7, 8) NR R 100 R NR NT <							
Sodium Hypochiorite 3% (1, 2, 4, 7, 8, 9) NR R 100 R NR NT NT <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>							
Sodium Hypochiorita 12,3% (1, 2, 4, 7, 8, 9) NR NT N							
Sodium Hypochiorite 15% (1, 2, 4, 7, 8) NR NT NT <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>							
Sodium Hypochkoris 20% (1.1 2, 4, 7, 8) NR NT NT <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>							
Sodium Lary IS Juffate 20% NR R 120 R 120 R Sodium Metabisutifie, AII NT Sodium Prophate 10% N							
Sodium Metabisulfite, AllNTNTNTNTNTNTNTSodium MethylidhiocarbanateNRNTNTNTNTNTNTSodium Nitrite, AllNRR120R100RSodium Nitrite, AllNRR120R100RSodium Nitrite, AllNRR120R100RSodium Nitrite, AllNRNRR120R100RSodium Permaganate, 41-44%NRNRR120R120RSodium Permaganate, 41-44%NRNRNRNRNRNTNTNTNTSodium Permaganate, 41-44%NRNRR120R120R120RSodium Permaganate, 41-44%NRNRR120R100RR120R100RSodium Permaganate, 41-44%NRNRR120R100RR100<							
Sodium Monophosphate, All NT R 100 R Sodium Nitrite, All NA R 120 R 120 R 120 R Sodium Parsufate NR NR NR NR NR NT							
Sodium N-Methyldilhiocarbamate NR R 120 R 100 R Sodium Nitrite, All NR R 120 R 100 R Sodium Nitrite, All NR NR R 120 R 100 R Sodium Persuganate, 41-44% NR NR R 120 R 120 R Sodium Persufate NT							
Sodium Nitrite, Ail NR R 120 R 100 R Sodium Nitrite, Ail, 41-47% NT R NT R NT R NT NT Sodium Permaganate, 41-44% NR NR NR NR NR NR NT NR R 120 R 100 R Sodium Phosphate 50% NT NT <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>R</td>							R
Sodium Nitrite, 41-47%NTRNTRNTRNTRNTNTSodium Permagnate, 41-44%NRNRNRNRNRNRNRNTNTSodium PersulfateNTNTNTNTNTNTNTNTSodium PersulfateNRNRRRNRRRSodium Acidy PhosphateNRR120R120RSodium Phosphate 10%NRR120R100RSodium Phosphate 10%NRR120R100RSodium Phosphate 10%NRR120R100RSodium Phosphate 10%NRR120R100RSodium Phosphate 25%NTNTNTNTNTNTSodium Polyacrylate 25%NTNTNTNTNTNTSodium Polyacrylate 25%NTNTNTNTNTNTSodium Silicate, AliNTNTNTNTNTNTSodium Silicate, AliNTNTNTNTNTNTSodium Sulfide, AllNRR120R120RSodium Sulfide, AllNRR120R120RSodium Sulfide, AllNRR120R120RSodium Sulfide, AllNRR120R120RSodium Sulfide, AllNRR120 <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>							
Sodium Oxalata, SaturatedNRR120R120RSodium Permaganate, 41-44%NRNRNRNRNRNTNTNTSodium Peroxide - Peroxide BleachNRRNRRNRR120RSodium Peroxide - Peroxide BleachNRRNRR120R120RSodium PhosphateNRR120R100RRSodium PhosphateNRR120R100RSodium Phosphate f0%NRR120R100RSodium Phosphate f0%NRR120R100RSodium Polyacylate 25%NTNTNTNTNTNTSodium Polyacylate 25%NTNTNTNTNTNTNTSodium Polyacylate 25%NTNTNTNTNTNTNTSodium Brogorylate 25%NTNTNTNTNTNTNTSodium Brogorylate 25%NTNTNTNTNTNTNTSodium Brogorylate 12%NTNTNTNTNTNTNTSodium Brogorylate 25%NTNTNTNTNTNTNTSodium Solicate, AliNTNTNTNTNTNTNTSodium Solicate, AliNRR120R120RSodium Solicate, AliNRR120R120 </td <td></td> <td></td> <td></td> <td></td> <td>R</td> <td>NT</td> <td>NT</td>					R	NT	NT
Sodium Permaganate, 41-44%NRNRNRNRNRNTNTSodium PersulfateNTNTNTNTNTNTSodium PersulfateNRRNRRNRRSodium PhosphateNRRNRR120R120RSodium Phosphate10%NRR120R100RSodium Phosphate10%NRR120R100RSodium Phosphate10%NRR120R100RSodium Polyacrylate S5%NTNTNTNTNTNTNTSodium Polyacrylate 25%NRR120R100RSodium Polyacrylate 25%NRR120R100RSodium Polyacrylate 25%NTNTNTNTNTNTNTSodium Silicate, AliNTNTNTNTNTNTNTSodium Silicate, AliNTNTNTNTNTNTNTSodium Sulfide, AliNRR120R120RSodium Sulfide, AliNRR120R120RSodium Sulfide, AliNRR120R120RSodium Sulfide, AliNRR120R120RSodium Sulfide, AliNRR120R120RSodium Tripolyphosphate, SaturatedNTNTNT </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>							
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Sodium Phosphate 10%NRR120R100RSodium Phosphate (Tri), AllNRR120R100RSodium Phosphate (Tri), AllNRR120R100RSodium Polyacriyate 25%NTNTNTNTNTNTNTSodium Polyacriyate 25%NTNTNTNTNTNTNTNTSodium PolyactiaccylateNRR120R100RSodium PropionateNTNTNTNTNTNTNTSodium SilicofluorideNTNTNTNTNTNTNTSodium SilicofluorideNRR120R120RSodium Silide, AllNRR120R120RSodium Sulfite, AllNRR120R120RSodium Sulfite, AllNRR120R120RSodium Sulfite, AllNRR120R120RSodium Sulfite, AllNRR120R120RSodium Tartach, AllNRR120R120RSodium Tripolyhosphate, SaturatedNTNTNTNTNTNTSodium Tripolyhosphate, SaturatedNRR120R120RSodium Tripolyhosphate, SaturatedNRR120R120RSodium Tripolyhosphate, SaturatedNRR <td< td=""><td></td><td></td><td></td><td>120</td><td>R</td><td>120</td><td>R</td></td<>				120	R	120	R
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Sodium Xylene Sulfonate, All NT <							
Soil Furnigant NR R 120 R 120 R Solder Plate NT Soil value of solutions, All value of solutions, All value of solutions, All value of solutions, All va							
Solder Plate NT							
Solu-Smokte NR R 120 R 100 R Solvent Extraction Solutions NT Solva 01 NR R 120 R 100 R NT NT NT NT NT NT NT NT <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>							
Solvent Extraction Solutions NT <				the second s			
Solvent SC #100 NT							
Sorbitol Solutions, All NT							
Soy Sauce NR R 120 R 120 R Soya Oil NR R 120 R 100 R Soybean Oil NR R 120 R 100 R							
Soya Oil NR R 120 R 100 R Soybean Oil NR R 120 R 100 R							
Soybean Oil NR R 120 R 100 R							
				_			
	Soybean Oil	NR NR	R	120	R	100	R

ARIZONA DEPARTMENT OF ENVIRONMENTAL QUALITY

JAN 15 2008

Waste Programs Div. Permits Section

74/92

	EnviroLa	atic AR425 and AR200 HD	Fas	-Clad ER
				Secondary
Chemical Environment and Concentration (%)	Immorsion	Secondary Containment	Immersion	Containment
Sodium Cyanide	זא	т	NT	NT
Sodium Dichromate, All	TN	דא	สา	NT
Sodium Diphosphate, All	NT	NT	NT	ТИ
Sodium Oodecylbenzenesulf	NT	NT	лт -	NT
Sodium Ferricyanido, All	NT	NŤ	NT	NT
Sodium Ferrocyanide, All	۲ ۸	NT	кт	NT
Sodium Formato	NT	NT	NT	TM
Sodium Fluorido, All (1, 2, 4, 7)	N۲	NT	100	8
Sodium Fluorosilicate, All (1, 2, 4, 7)	NT	NT	NT	NT
Sodium Glaconato	NT	NT	זא	N٢
Sodium Glycolato	NT	<u>NT</u>	NT	NT
Sodium Hoxamalaphosph, Ali	NT	NT	NT	NT
Sodium Hydrosulfido (see Sodium Bisulfide)	<u>אד</u>	TN	NR	NR
Sodium Hydrosutfite 25%	NT	Ти 174	NT	R NT
Sodium Hydrosulfite 40%	NT	R	NT 140	8
Sodium Hydroxide 2% (1, 2, 4, 7, 9)	80	R	140	R
Sodium Hydroxida 5% (1, 2, 4, 7, 9)	080	R	140	R
Sodium Hydroxide 10% (1, 2, 4, 7, 9) Sodium Hydroxide 20% (1, 2, 4, 7, 9)		R	140	R
Sodium Hydroxido 20% (1, 2, 4, 7, 9)	NR NR	R	100	
Sodium Sydroxido 50% (1, 2, 4, 7, 9)	NR NR	8	100	8
Sodium Hypochlorite 3% (1, 2, 4, 7, 8)	80	8	100	R
Sodium Hypochlorite 12.5% (1, 2, 4, 7, 8, 9)	NR		80	NT
Sodium Hypochiorita 15% (1, 2, 4, 7, 8)	NR	NR	NR	R
Sodium Hypochionite 20% (1, 2, 4, 7, 8)	NR	NR	NT	NT
Sodium Lauryi Sulfato 20%	NT	NT	NR	NR
Sadium Motobisulfile, All	NT	NT	NT	NT
Sodium Monophosphato, All	זא		NT	NT
Sodium N-Methyldithiocarbamate	TN	NT	NT	NT
Sodium Nitrile, All	NR	R	NT	NT
Sodium Nitrilo, 41-47%	NR	R	140	R
Sodium Oxalate, Saturalad	NT	NT	NT	זא
Sodium Permaganate, 41-44%	NR	NR	NT	NT
Sodium Persulfate	זא	NT	14	NT
Sodium Peraxide - Peroxide Bloach	T א	NT	דא	NT
Sodium (Acid) Phosphate	NT .	NT	۲N	NT
Sodium Phosphate 10%	, NT	NT	NT	NT
Sodium Phosphate 50%	NT	Nĩ	NT	NT
Sodium Phosphato (Tri), All	Ти	NT	NT	NT
Sodium Polyacrylate 25%	NT	NT	NT	NT
Sodium Polymethacrylate	NT	NT	NT	NT
Soulum Propionata	NT	NT	NT	NŤ
Sodium Silicate, All	TN	NT	NT	Ти
Sodium Silicolluorldo	NT	NT	N.T.	TM
Sodium Sulfato, All	NT		NT	R
Sodium Sulfide, All	NT	1 NT	100	8
Sodium Sulfite, All		זא	100	R
Sodium Suilide, Saturated	NT		דא אד	NT NT
Sodium Fartrate, All Sodium Fotraborate, Saturated	NT NT	ΝΤ ΝΥ		NT
Sodium Thiocyanato 57%			100	R
Sodium Thiosultate (Hypo)	NT	NT	100	R
Sodium Tripolyphosphate, Saturated	NI	NT	NT	Nĩ
Sodium Visyl Sulfonate	NT		100	R
Sodium Xylone Sulfonato, Alf	NY NY	NT	NT	NT
Soil Funigant		וא	100	R
Solder Plate	NT		NT	NT
Solu-Smokla	אר –	NT	100	R
Solvent Extraction Solutions	NT	NT	NT	NT
Solven: SC #100	NT	NT	NT	NT
Sorbital Solutions, All	NT	NT	זא	NT
Soy Sauco	NT	NT	140	R
Soya Oll	NT	NT	80	R
	NT	דא	80	R ·
Soybean Oll	DU		100	

ARIZONA DEPARTMENT OF ENVIRONMENTAL QUALITY

JAM 1 5 2008

Waste Programs Div.

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	Magnal	ux 304 Vinyl Ester	Sher-Glass FF		
Chamical Environment and Conservation Auto		Secondary Containment	1-0-0-0	Secondary Containmen	
Chemical Environment and Concentration (%)	Immorsion		Immersion		
Sodium Cyanido	140	Ŕ	NT	NT	
Sodium Dichromato, All	140		NT	NT	
Sodium Diphosphato, All	140	R	NT NT	NT ··	
Sodium Opdocylbenzenosulf	140	R		NT	
Sodium Ferricyanide, All	140	R	NT זא		
Sodium Ferrocyanida, All	140	R	NT	NT	
			אז	NT	
Sodium Fluorido, All (1, 2, 4, 7) Sodium Fluorosilicato, All (1, 2, 4, 7)	140	<u></u>	NT	NT	
Sodium Fuorositicate, Alt (1, 2, 4, 7)	140	R	NT	NT	
Sodum Glycolata	140	R	NT	TN	
Sodium Hexametaphosph, All	140	R	NT	NT	
Sodium Hydrosolfide (see Sodium Bisuifide)	NT		NT	NT	
Sodium Hydrosulfile 25%	100	R		NT	
Sodium Hydrosullite 40%	NR	R	NT	NT	
Sodium Hydroxide 2% (1, 2, 4, 7, 9)	140	R	NT	NT	
Sodium Hydroxide 5% (1, 2, 4, 7, 9)	140	R	NT	INT	
Sodium Hydroxide 10% (1, 2, 4, 7, 9)	140	R	זא	78	
Sodium Hydroxide 20% (1, 2, 4, 7, 9)	140	R	NT	NT	
Sodium Hydroxide 25% (1, 2, 4, 7, 9)	140	R	NT		
Sodium Hydroxido 50% (1, 2, 4, 7, 9)	140	R	NT	זא	
Sodium Hypochlorite 3% (1, 2, 4, 7, 8)	NR		NT	TN	
Sodium Hypochionite 12.5% (1, 2, 4, 7, 8, 9)	NR	R	NT		
Sodium Hypochlorite 15% (1, 2, 4, 7, 8)	NR	8	TK	NT	
Sodium Hypochiorile 20% (1, 2, 4, 7, 8)	NR	8	NT	NT	
Sodium Lauryi Sulfate 20%	120	R	NT	NT	
Sodium Metablaulite, All	140	- R -	NT	NT	
Sodium Monophosphate, All	140	R	NT	NT	
Sodium N-Methyldithiocarbamata	140	R	NT	איז	
Sodium Nicilie, Ali	140	R	NT	NT	
Sodium Nitrile, 41-47%	NT	NT	NT	NT	
Sodium Oxalato, Saturated	140	R	NT	NT	
Sodium Permaganate, 41-44%	NT	NT	NT	NT	
Sadium Persulfate	140	R	NT	NT	
Sodium Peroxide - Peroxido Bleach	140	R	- NT	NT	
Sodium (Acid) Phosphere	140	R	NT	אז	
Sodium Phosphalo 10%	140	R	NT	NT	
Sodium Phosphate 50%	140	R	NT	NT	
Sodium Phosphate (Tri), All	100	R	NT	NT	
Sodium Polyacrylate 25%	140	R	NT	דא	
Sodium Polymothacrylate	120	R	NT T	NT	
Sodium Propionate	NT	NT	NT	NT	
Sodium Silicato, Ali	140	R	NT	NT	
Sodium Silicofiuoride	NT	NT	NT	NT	
Sodium Sulfate, All	140	R	NT	NT	
Sodium Sullido, All	140	8	NT	NT	
Sadium Sulfite, All	140	R	NT	דא	
Sodium Sulfido, Saturated	140	R	NT	TN	
Sodium Tartrate, All	140	Ŕ	NT	NT	
Socium Tetraborate, Saturated	140	R.	NT	NT	
Sodium Thiotyanato 67%	140	8	NY	NT	
Sodium Thiosulfate (Hypo)	140	8	NT	NT	
Sodium Tripolyphosphate, Saturated	140	R	NT	NT	
Sodium Vinyl Sulfonate	140	NT	NT	NT	
Sodium Xylanii Sulfonalii, Ali	140	R	NT	, NT	
Soil Fumigant	140	NT	NT	N'T	
Solder Plate	140	TM T	NT	NT	
Solu-Smokte	140	NT	NT	NT	
Solvent Extraction Solutions	140	R	NT	NT	
Solvent SC #100	140	NT	NT	NT	
Sorbitol Solutions, All	140	R	TN	NT	
Soy Sauce	140	R	NT	NT	
Soya Oit	140	R	TN	NT	
Soybean Oli	140	8	NT	NY	
	140	R	NT	NT	

ARIZONA DEPARTMENT OF ENVIRONMENTAL QUALITY

JAN 15 2008

Waste Programs Div. Permits Section

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Chemical Environment and Concentration (W) Baccondary Immersion Immersion Conciliancent Immersion Conciliancent Secundary Immersion Immersion Conciliancent Environment Immersion Immersion Conciliancent Conciliancent		ConCold	OVEN FF	Cordate	VEN GF	Cor-Cali	HCRFF
Chammari and Concentration (*) Invension Containment Invension Containment Invension Containment Invension NT							Socondary
Stantis Charida, All 190 R 170 NT NT </th <th>Chemical Environment and Concentration (%)</th> <th>Immarsion</th> <th></th> <th>Immersion</th> <th></th> <th>Immersion</th> <th>Containment</th>	Chemical Environment and Concentration (%)	Immarsion		Immersion		Immersion	Containment
Stantis Charida, All 190 R 170 NT NT </td <td></td> <td></td> <td></td> <td>NT</td> <td></td> <td>NT</td> <td></td>				NT		NT	
Symon Chibrido, Al 150 R 160 R 160 R 160 R Steard Add. All 150 R 150 R 160 R 8 Steard Add. SOK in Ethyl Actional 140 R 140 R 400 R 97 Steard Add. SOK in Ethyl Actional 140 R 140 R 140 R 470 NT N				-			
Staven 190 PA 120 PA 171 NT NT </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>R</td>							R
Sine Sand All 150 R 150 R 150 R 160 R NT NT Step Guld Sol Sol Stard All Sol Sol Stard Sul Sol Sol Stard Sol	Starch	150	R	150	8 -	120	R
Stards and S 90% in Sthy Alacehol 140 R 40 R MT MT STEROX AL-BIG MT MT<	Steam	NR	R	NR	R	דא	NT
Sing Water 160 R 190 R 190 R NT	Stearic Add, All	150	8	150	8	80	R
STERGXA-JB NT Statestantstant is an tan is an tan	Stearic Acid 50% in Ethyl Alcohol	140	R	140			NY
Slock-Brown, Filtrata NT NT </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>							
Stock, Nackwood NT							
Stransbury Preserve HT NT NT <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>							
Stronthm Nurals, 41 47%; NT N							
Syrans 120 R 120 R 120 R 120 R 100 R 101 RT NT NT <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>							
Symon Acrylic Emulsion 100 R 100 R NT NT<							
Su2 300 NT NT <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>							
Buckmontrific, Aqueous B0 R B0 R B0 R H10 R H30 R H30 R H40 R Sugar Bel, Liquer 150 R H30 R H30 R H40 R Sugar, Survated 150 R H30 R H40 R Sulfanic Acid 19% 150 R H50 R H50 R H40 R Sulfanic Acid 19% 150 R H50 R H60 R Sulfanic Acid 25% 150 R H50 R H7 NT NT <t< td=""><td></td><td></td><td></td><td></td><td></td><td>-</td><td></td></t<>						-	
Sugar Disk 190 R							
Sugar Cane, Liquer 190 R 190 R 190 R Sugar Cane, Liquer 150 R 150 R 140 R Sugar, Survated 150 R 150 R 140 R Sulfane Acid 19% 150 R 150 R 80 R Sulfane Acid 19% 150 R 150 R 80 R Sulfane Acid 25%, 150 R 150 R NT							
Singar Cone. Liquor. 190 R. 190 R. 190 R. 140 R. Sungar, Shurated 150 R. 150 R. 150 R. 160 R. Sunfamik Acid 20%. 150 R. 150 R. 150 R. 80 R. Sunfamik Acid 20%. 150 R. 150 R. 150 R. 80 R. Sunfamik Acid 20%. 120 R. 120 R. NT							
Sulfanic Acid 19% 150 R 150 R 150 R 80 R Sulfanik Acid 25%, 150 R 150 R 150 R 80 R Sulfanik Acid 25%, 150 R 150 R 150 R NT NT Sulfact Ethosylated Alcohol 120 R 120 R NT				150	8	140	
Sulfamic Acid 25% 150 R 150 R 150 R 80 R Sulfamic Acid, All 150 R 120 R 120 R MT NT Sulfade Elizor, Sultado Alcohol 120 R 120 R 120 R NT NT <td></td> <td>150</td> <td></td> <td>150</td> <td></td> <td></td> <td>R</td>		150		150			R
Suffantlic Acid, AT 150 R 150 R 150 R NT NT <td></td> <td></td> <td></td> <td></td> <td></td> <td>-</td> <td></td>						-	
Sulfated Ethosylated Alcohol 120 R 120 R NT <							
Suilide Caugitic NT							
Sulfite/Sulfate Black Liquers (4, 9) 150 R 150 R 150 R 120 R Sulforan 60% NT							
Sutiona 60% NT Strifterite it it it it it it it i							
Sulicinated Detargents 150 R 160 R NT NT Sulicinated Styrane Malet: Annydride (Aqueous) NT							
Sutionaled Styrene Maletc Anhydride (Aqueous) NT							
Sulfonic Acid NR NT							
Sulfurous Acid 100 R 100 R NTNNNNNNNNNNNN							
Sulfur, Molten, Dry 150 R 150 R NT NT Sulfur, Procipilated NT							
Sutfur, 3ablined NT							
Sulfur Dioxide, Dry Gas 150 R 150 R 150 R 120 R Sulfur Dioxide, Wei Gas 150 R 150 R 150 R 120 R Sulfur Dioxide, Wei Gas 150 R 150 R 150 R 120 R Sulfur Trioxide, Wat (see Sulfuric Acid) NT NT <td>Sullur, Precipitated</td> <td>NT</td> <td>NT</td> <td>NT</td> <td>זא</td> <td>NT</td> <td>NT</td>	Sullur, Precipitated	NT	NT	NT	זא	NT	NT
Sullar Dioxide, Dry Gas 150 R 150 R 150 R 120 R Sulfar Dioxide, Wei Gas 150 R 150 R 150 R 120 R Sulfar Trioxide, Dry 150 R 150 R 150 R 120 R Sulfar Trioxide, Wei Sars Sulfaric Acid) NT Sulfaric Acid 55% 150	Sulfur, Sablined	NT	Ти	NT	NΓ	NT	NT
Sulfur Dioxida, Wai Gas 150 R 150 R 150 R 120 R Sulfur, Trioxido, Dry 150 R 150 R 150 R 100 R Sulfur, Wai (som Sulfuric Acid) NT Sulfuric Acid 50% 150 R 150 R 120	Sulfur Dioxide 1% Solution	150	R	150		120	
Sultur Trioxido, Dry 150 R 150 R 150 R 100 R Sultur Trioxide, Wat (see Sulturic Acid) NT SUIfuric Acid 5% 120 R 120 R 120 R 120 R 120 R 120 R		150					
Suifur Trioxide, Wat (see Suifuric Acid) NT NT <td></td> <td></td> <td></td> <td></td> <td>·</td> <td></td> <td></td>					·		
Sulfur, Wettable, Fungleide 150 R 150 R 150 R NT NT Bulfurle Acid 5% 150 R 150 R 150 R 120 R Sulfurle Acid 10% 150 R 150 R 120 R Sulfurle Acid 25% 150 R 150 R 120 R Sulfurle Acid 70% 150 R 150 R 120 R Sulfurle Acid 70% 120 R 120 R 100 R Sulfurle Acid 70% 120 R 100 R 100 R Sulfurle Acid 93% (12) 100 R 100 R 100 R Sulfurle Acid 93% (12) NR R NR R 100 R Sulfurle Acid 93% (12) NR R NR R NR NR Sulfurle Acid 93% (12) NR R NR NR NR NR Sulfu							
Sulfuric Acid 5% 150 R 150 R 120 R Sulfuric Acid 10% 150 R 150 R 120 R Sulfuric Acid 25% 150 R 150 R 120 R Sulfuric Acid 25% 150 R 150 R 120 R Sulfuric Acid 50% 150 R 150 R 120 R 120 R Sulfuric Acid 70% 120 R 100 R 100 R 100 R Sulfuric Acid 30% (12) 100 R 100 R 100 R 100 R Sulfuric Acid 93% (12) NR R NR NR NR R NR NR<							
Sulfuric Acid 10% 150 R 120 R Sulfuric Acid 25% 150 R 150 R 120 R Sulfuric Acid 25% 150 R 150 R 120 R Sulfuric Acid 25% 150 R 150 R 120 R Sulfuric Acid 75% 120 R 150 R 120 R 120 R Sulfuric Acid 75% 121 100 R 100 R 100 R 100 R Sulfuric Acid 30% (12) 100 R 100 R 100 R 100 R Sulfuric Acid 98% (12) NR R NR R NR R 100 R Sulfuric Acid 98% (12) NR R NR R NR R 100 R Sulfuric Acid 98% (12) NR							
Sulfuric Acid 25% 150 R 150 R 120 R Sulfuric Acid 25% 150 R 150 R 150 R 120 R Sulfuric Acid 50% 120 R 120 R 120 R 120 R Sulfuric Acid 75% (12) 100 R 100 R 100 R Sulfuric Acid 30% (12) 100 R 100 R 100 R Sulfuric Acid 93% (12) NR R NR R NR R Sulfuric Acid 93% (12) NR R NR R NR R Sulfuric Acid 93% (12) NR NR R NR R NR Sulfuric Acid 93% (12) NR NR R NR R NR R Sulfuric Acid 93% (12) NR NR R NR NR R Sulfuric Acid 93% (12) NR NR NR NR NR NR							
Sulfuric Acid 50% 150 R 150 R 120 R Sulfuric Acid 70% 120 R 120 R 120 R 100 R Sulfuric Acid 75% (12) 100 R 100 R 100 R 100 R Sulfuric Acid 80% (8, 12) 100 R 100 R 100 R 100 R Sulfuric Acid 98% (12) NR R NR R NR R 100 R Sulfuric Acid 98% (12) NR R NR R NR R 100 R Sulfuric Acid 98% (12) NR R NR R NR R 100 R Sulfuric Acid 98% (12) NR NR R NR NR R 100 R Sulfuric Acid 98% (12) NR NR R NR							
Suiturite Acid 70% 120 R 120 R 100 R Suiturite Acid 75% (12) 100 R 100 R 100 R 100 R Suiturite Acid 35% (12) 100 R 100 R 100 R 100 R Suifurite Acid 30% (12) NR R NR R NR R 100 R Suifurite Acid 98% (12) NR R NR R NR R 100 R Suifurite Acid 98% (12) NR NR R NR R NR R NR R NR R NR R NR NR <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>							
Sulfuric Acid 75% (12) 100 R 100 R 100 R Sulfuric Acid 80% (8, 12) 100 R 100 R 100 R Sulfuric Acid 80% (8, 12) 100 R 100 R 100 R Sulfuric Acid 93% (12) NR R NR R NR R 100 R Sulfuric Acid 93% (12) NR R NR R NR R 100 R Sulfuric Acid 93% (12) NR NR R NR R NR R 100 R Sulfuric Acid Forrous 10, Saturated NR NR <td< td=""><td></td><td></td><td></td><td></td><td></td><td>-</td><td></td></td<>						-	
Sulfuric Acid 93% (12) NR R NR R Sulfuric Acid 93% (12) NR NR R NR Sulfuric Acid - Furning (see Oleum) NR NR NR NR Sulfuric Acid:Forrous 10, Saturated NT NT NT NT Sulfuric Acid:Hephane; Water; Oli NT NT NT NT Sulfuric Acid:Phosphorous 20% 150 R 150 R NT Sulfurio Acid:Phosphorous 20% 120 R 120 R NT Sulfurios Acid 80 R 80 R 120 R Sulfurous Acid 120 R 120 R NT NT Sulfurios Acid 10% 120 R 150 R 120 R Sulfurous Acid 150 R 150 R 120 R Sulfurous Acid 150 R 120 R 120 R		100	R	100	R	100	R
Sulfuric Acid 98% (12)NRRNRRNRRSulfuric Acid-Fornia SolutionNRNRNRNRNRNTNTSulfuric Acid-Fornia SolutionNRNRNRNRNRNRNRNRSulfuric Acid-Fornia SolutionNRNRNRNRNRNRNRNRSulfuric Acid-Fornia SolutionNRNRNRNRNRNRNRNRSulfuric Acid-Fornia SolutionNTNTNTNTNTNTNTSulfuric Acid-Fornia SolutionNTNTNTNTNTNTNTSulfuric Acid-Fornia SolutionNTNTNTNTNTNTNTSulfuric Acid-Fornia SolutionNTNTNTNTNTNTNTSulfuric Acid-Fornia Solution150R150R120RNTNTSulfuraus Acid 10%150R150R120R120RSwift GlueNTNTNTNTNTNTNTNTNTTall Oli150R150R120R120RTall Oli Reactor150R150R120R120RTall Oli Storage, All150R150R120R120R	Sulfuric Acid 80% (9, 12)	100	R	100		100	
Sulfurit Acid/Chlorina SolutionNRNRNRNRNRNTNTSulfurit Acid-Furning (see Oleum)NRNRNRNRNRNRNRNRSulfurit Acid-Forrous 10, SaturatedNTNTNTNTNTNTNTSulfurit Acid:Forrous 10, SaturatedNTNTNTNTNTNTNTSulfurit Acid:Forrous 20%150R150RNTNTNTSulfurita Acid:Phosphorous 20%150R150RNTNTSulfurous Acid80R80R80RNTNTSulfurous Acid120R120RNTNTNTSulfuraus Acid 10%120R120RNTNTSwift GlueNTNTNTNTNTNTTall Oli150R150R120RTall Oli Reactor150R150R120RTall Oli Storago, All150R150R120R							
Subfuric Acid - Furning (see Oteum) NR Sulluric Acid: Forrous 10, Saturated NT							
Suilluric Acid:Forrous 10, Saturated NT NT NT NT NT NT NT Suilluric Acid: Heptano; Water; Oli NT NT NT NT NT NT NT Suilluric Acid: Phosphorous 20% 150 R 150 R NT NT Suilluric Acid: Phosphorous 20% 150 R 150 R NT NT Suilluraus Acid 60 R 90 R NT NT Suilluraus Acid 120 R 120 R NT NT Suifuraus Acid 170 R 120 R NT NT Suifuraus Acid 170 R 120 R 170 RT Suifuraus Acid 170 R 120 R NT NT Suifuraus Acid 150 R 120 R 120 R Tall Oli 150 R 150 R 120 R Tall Oli Fexty Acid 150 R 150 R 120 R Tall Oli Reactor 150 R 150 R 120 R						-	
Sulfucic Acid; Heptano; Water; Oli NT							
Sulluric Acid:Phosphorous 20% 150 R 150 R NT NT Sullurous Acid 80 R 80 R 80 R NT NT NT Sulfurous Acid 80 R 80 R 80 R NT NT NT Sulfurous Acid 10% 120 R 120 R NT							
Sulfurous Acid 80 R 80 R NT NT NT Sulfurous Acid 10% 120 R 120 R 120 R NT NT <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>							
Sulfurous Acid 10% 120 R 120 R NT							
Swift Glue NT							
Tall Oil 150 R 160 R 120 R Tall Oil Fotty Aold 150 R 150 R 120 R Tall Oil Fotty Aold 150 R 150 R 120 R Tall Oil Reactar 150 R 150 R 120 R Tall Oil Storage, All 150 R 150 R 120 R							
Tall Oil Fotty Aoid 150 R 150 R 120 R Tall Oil Reactor 150 R 150 R 120 R Tall Oil Reactor 150 R 150 R 120 R Tall Oil Storage, All 150 R 150 R 120 R							
Tall Oli Reactor 150 R 150 R 120 R Tall Oli Storage, All 150 R 160 R 120 R							
Tall DW Storage, All 150 R 150 R 120 R							
				150			
	Tallow/Sulfuric Acid	NT	זא	NT	NT	NT	ТN
Tannic Acid, All 150 R 150 R NR R	Tannic Acid, All	150	R	150	R	NR	R
Tanolog Extract 150 R 150 R NR R	Tanolog Extract	150	R	150	8	NR	R

ARIZONA DEPARTMENT OF ENVIRONMENTAL QUALITY

JAN 15 2008

Waste Programs Div. Permits Section

77/92

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		Cole HP		OLD HP FF	1	Cor-Cote SC Sacordary		
Chemical Environment and Concentration (%)	Immorsian	Secondary Containment	Immersion	Secondary Containment	Immersion	Containmon		
SR-10	NT	NT	NT	NT	NT	NT		
Sianaic Chlorida, Ali	NR	NR	NR	NR	NR	Ŕ		
Stannous Chlorida, All	NR	NR	NR	NR	NR	R		
Starch	NR	NR	120	NR	100 -	NR		
Sleam	NT	NT	NT	NT	NT	NT		
Stoarle Acid, All	NR	R	60	8	80	R		
Steanic Acid 50% In Ethyl Alcohol	NT	NT	NT	лТ	NT	NT		
Stoep Water	NR	R	120	R	100	R		
STEROX AJ-85	NT	NT	NT	NT	<u>_</u> NT	זא		
Stock-Brown, Fillrate	NT	NT	NT	דא	М7	NT		
Stock, Hardwood	NT	NT	74	NT	NT	NT		
Strawborry Proserve	NT	NT	NT	NT	NT	NT		
Birontium Nitrate, 41-47%	NT	8	NT	R	NT	NT		
Slyrene	NR	R	NR	R	NR	R		
Styrene Acrylic Emulsion	NT	NT	NT	דא	NT	NT		
50 2000	NT	NT	NT	NT	NT	NT		
Succinontrile, Aquaous	NT		NT	NT D	NT	NT		
Sugar 10%	NR	R	120	R	120	R		
Sugar Bost, Liquor	NR	R	120	8	120	R		
Sugar Cane, Liquor	NR	R R	120	R	120	R		
Sugar, Saturated	NR	R	120 NR	R	120 NR	R		
Sulfamic Acid 10%	NR	R	NR	- R	NR	- <u>R</u>		
Sulfanille Acid, Ali	NK	NT T	NT	NT	Nĩ	NT		
Sulfated Ethoxylated Alcohol	T	NT	NT	NT	זא	TN		
Sulfide Caustic	TNT	NT	NT	NT	NT			
Sulfile/Sulfate Black Liquors (4, 9)	- NR	R	120	R	120	R		
Sulfolane 60%	NR	R	120	8	100	R		
Sulfonated Detorgants	NT	TN	TM	NT	T NT	NT -		
Sulfonated Styrene Maleic Anhydride (Aqueous)	NT	NT	NT	NT	NT	NT		
Sulfonic Acid	NR	NR	NR	NR	NR	NR		
Sulfurous Acid	NT	NY	NT	NT	NT	NT		
Sulfur, Molten, Dry	NT	TN	ти	NT	דא	NT		
Sulfur, Precipitated	NR	R	NR	R	NR	R		
Sulfur, Saolined	NT	NT	NT	NT	NT	NT		
Sulfur Dioxide 1% Solution	NR	R	120	R	120	R		
Sulfar Dioxida, Dry Gas	NR	R	120	R	120	8		
Sulfur Dioxide, Wet Gas	NR	R	120	R	120	8		
Sulfur Tiloxida, Dry	NR	R	100	R	100	R		
Sulfur TrioxIde, Wet (see Sulfuric Acid)	זא	NT	NT	NT	NT	NY		
Sulfur, Woltable, Fungleide	NT	NT	NT	TN	NT	NC		
Sutturle Acid 5%	NR	R	80	R	80	R		
Sulfurie Acid 10%	NR	R	80	R	80	8		
Sulfuric Acid 25%	NR	8	NR	R	NR	R		
Sulfuric Acid 50%	NR	NR	NR	NR	NR	R		
Sutforic Acid 70%	NR	NR	NR	NR	NR	NR		
Sulfuric Acid 75% (12)	NR	NR	NR	NR	NR	NR		
Sulfuric Acid 80% (9, 12)	NR	NR	NR	NR	NR	NR		
Sulfuric Acid 93% (12)	NR	NR	NR	NR	NR	NR		
Sulfurle Acid 98% (12)	NR	NR	NR	NR	NR	NR		
Sulfuric Acid/Chlorine Solution	NT	NT	NT	NT	NT	NT		
Sulfuric Acid - Furning (see Oloum)	NR	NR	NR NT	NR	NR NT	אR NT		
Sutfuric Acid: Ferrous 10, Saturated	NT NT	NT	NT NT	NT	NT NT			
Sulfuric Acid; Hoptone; Water; Oli Sulfuric Acid;Phosphorous 20%			NT	NT	NT			
Sulfureus Acid	<u>אד</u> זא	NT NT	NT	INT	NT			
Sulfurous Acid 10%	NT	NT	NT	NT	NT	NT TR		
Sulfurous Acio 10%	NT	NT	NT	NT	NT NT	NI		
Tall Oli		R	120	8	100	R		
Tall Oil Faity Acid	NR		120	8	100	R		
Tail Oli Reactor	NR	R	120	R	100	R		
Tall Dil Storago, All	NR	R	120	R	100	R		
Tallow/Sulfuric Acid	NT	NT	NT	NT NT	NT	NT		
Tannic Acid, All	NR	R	NB	R	NR	R		
Tanulng Extract	NR	8	NR	R	NR	B		

ARIZONA DEPARTMENT OF ENVIRONMENTAL QUALITY

JAN 15 2008

	EnviroLa	stic AR425 and AR200 HD	Fasi	-Clad ER
Chamical Southparant and Constantiate (%)		Secondary Containment	Immorsion	Secondary Containment
Chemical Environment and Concentration (%)	Immersion	Secondary Containment	NT	NT
Stannic Chloride, All	NT NT	NT	NT	NT
Stannous Chlorklo, All	TN	זא	NT	NT
Starch	NT	NT	NT	ŇT
	NT	NT	NT	NT
Stearic Acid, All	NY	R	NT	זא
Stearle Acid 50% in Ethyl Alcohol	NT	זא	NT	NT
Stoep Water	NT	NT	140	R
STEROX AJ-85	NT	Ти	NT	NT
Stock-Brown, Elltrate	NT	NT	NT	NT
Block, Hardwood	NT	NT	NT	NT
Strawberry Prosorve	TN		זא	
Strontlum Nitrate, 41-47%	NT NT	R	NT NR	NT
Styreno Acrylic Emuision	NT	NT		זא
SU 2000	NT	NT	80	R
Succinonitrile, Aqueous	NT	NT	NT	NT
Sugar 10%	120	R	NT	N۲
Sugar Baet, Liquor	120	R	60	R
Sugar Cane, Liquor	120	R	80	R
Sugar, Saturated	120	R	80	Ŕ
Sulfamic Acid 10%	NT	NT	NR	NR
Sulfamic Acid 25%	NT	NT	NR	NR
Sulfanilic Acid, All	NT		NT	NT
Sulfated Ethoxylated Alcohol	NT	NT	NT	NT
Suffice Caustle	אד אז		NR NT	R אז
Sulfite/Sulfate Black Liquors (4, 9) Sulfaters 60%		דא	100	R
Sulfonated Datargents		NT	NT	NT
Sulfonated Styrene Malaic Anhydride (Aqueous)	NT		זא	NT
Sulfonic Acid	NT	NT	NT	NT
Sulfurous Acid	NT	NT	NT	NT
Sulfur, Natten, Dry	NT	NT	NT	TN
Sulfur, Precipitated	זא	TN	אד	NT
Sulfur, Sablined	NT	NT	NT	NT
Sulfur Dioxids 1% Solution	NT	NT	NT	NT
Sulfur Dioxide, Dry Gas	NT	NT	NT	NT
Sulfor Diaxide, Wet Gas	NT	NT	NT	NT
Sulfur Trioxide, Ory	NT	NT	זא	NT
Sulfur Trioxide, Wet (see Sulfuric Acid) Sulfur, Wettablo, Fungicide	NT	NT NT	NT NT	NT NT
Sulfuric Acid 5%	80	R	דא	R
Sulfuric Acid 10%	80	R	זא	R
Sulfuric Acid 25%	NR	R	NR	NR
Sulfuric Acid 50%	NR	R	NR	NR
Sulfuric Acid 70%	NR	NR	NR	NR
Sulfuric Acid 75% (12)	NR	NR	NR	٨R
Sulfuric Acid 60% (9, 12)	NR	NR	NR	NR
Sulforic Acid 90% (12)	NR	NR	NR	NR
Sulfuric Acid 96% (12)	NR	NR	NR	NR
Sulforic Add/Chlorine Satulion	NR	NR NR	NR NR	NR
Sulfuric Acid - Furning (see Oleum) Sulfuric Acid Forrous 10, Saturnied	NR NR	NR	NT	NK NT
Sulfuric Acid: Hoptane: Water, Oil	NR	NR	NT	NT
Sulfanc Acid: Plusphurous 20%	NR	INR	NT TH	זא
Sulfurous Acid	NR	NR	NT	NT
Sulfurous Acid 10%	NR	NR	NT	NT
Swift Glue	זא	NT	Nĭ	NT
Tall Oil	דא	NT	100	R
Tall Oli Fotty Actu	NT	NT	N۲	NT
Tall Oil Reactor	NT	NŤ	NT	NT
Tall Oli Storago, All	NT	NT	NT	NT
Tallow/Sulfuric Acid	NT	זא	NT	NT NT
Tannic Acid, Ali	NT	TN	NT	

ARIZONA DEPARTMENT OF ENVIRONMENTAL QUALITY

JAN 15 2008

Waste Programs Div. Permits Section

79/92

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	- Magnat	ux 304 Vinyl Ester		r-Glass FF
Chemical Environment and Concentration (%)	Immersion	Secondary Containment	Immersion	Secondary Containment
SR-10	NT	NT	NT	NT
Stannic Chloride, All	140	R	NT	NT
Stannous Chlorido, All	140	R	NT	NT
Starch	140	R	NT	NT
Steam	NR	NR	NT	NT
Stepric Acid, Alt	140	R	NT	NT
Stearic Acid 50% In Ethyl Alcohol	4 140	8	NT	TN
Steep Water	140	R	NT	งา
STEROX AJ-85	NT	NT	ти	NT
Stock-Brown, Filtrate	NT	NT	NT	NT
Stock, Hardwood	NT	NT	NT	אז
Strawbarry Prosarva	NT	NT	NT	NT
Strontium Nilrate, 41-47%	NT	NT	NT	NT
Styrene	NR	NR	NT	NT
Styrene Acrylic Emulsion	100	8	NT	NT
SU 2000	NT	NT	דא	NT
Succinentitile, Aqueous	NR	R	NT	NT
Sugar 10%	140	R	NΤ	NT
Sugar Beet, Liquor	140	R	NT	NT
Sugar Cano, Liquor	140	R	NT	NT
Sugar, Saturated	140	R	דא	זא
Sulfamic Acid 10%	140	R	NT	ти
Sulfamic Acid 25%	140	R	NT	NT
Sulfanitic Acid, All	140	R	NŤ	NT
Sulfated Ethoxylated Alcohol	100	R	NT	NŤ
Sulfide Caustic	NT	NT	NT	NT
Sulfite/Sulfate Black Elguers (4, 9)	140	8	NT	NT
Sulfolane 60%	NT	тк	זא	NT
Sulfonated Dotorgents	140	R	NT	NT
Sulfonated Styrene Malelc Anhydride (Aqueous)	NT	NT	NT	NT
Sutionic Acid	NR	NR	זא	NT
Svilurous Acid	100	R	NT	NT
Sulfur, Molton, Dry	140	Ŕ	NT	NT
Sulfur, Precipitated	ΤM	NT	NT	NT
Sulfur, Sablined	N۲	TM	NT	NT
Sulfur Dioxide 1% Saturion	140	R	NT	NT
Sulfur DioxIdo, Ory Gas	140	R	NT	NT
Sulfur Dioxido, Wet Gas	140	R	NT	NT
Sulfur Trioxide, Dry	140	R	Nĭ	NŢ
Sulfur Trioxide, Wet (see Sulfuric Acid)	NT	דא	NT	NT
Sulfur, Wollable, Fungicide	140	R	NT	NT
Sulfunio Acid 5%	140	8	NT	זא
Sulluric Acid 10%	140	R	אד	NT
Sulfuric Acid 25%	140	R	NT	NT
Sulfuric Acid 50%	140	R	NT	NT
Sulfuric Acid 70%	100	R	NT .	NT
Sulfurie Acid 75% (12)	100	8	NT	דא
Sulfuric Acid 80% (9, 12)	100	R	זא	NT
Sulfuric Acid 93% (12)	NR	NR	NT	NT
Sulfuric Acid 98% (12)	NR	NR	NT	NT
Sulfuric Acid/Chlorine Solution	NR	NR	N۲	NT
Sulfuric Acid - Furning (see Dioum)	NR	NR	NT	NT
Sulfuric Acid:Ferrous 10, Saturated	NT	NT	דא	NT
Sulfuric Acid; Hoptane; Water; Oil	NT	NT	NT	NT
Sulfuric Acid:Phospharous 20%	140	Ŕ	NT	NT
Sullurous Acid	80	8	NT	NT
Sulfurous Acid 10%	140	R	NT	NT
Swift Glue	NT	NT	זא	NT
Yall Oil	140	R	NT	TN
Tall Oli Fatty Acid	140	ิส	NT	NT
Tall Oll Reactor	140	8	NT	NT
Tatl Oil Storage, All	140	R	זא	NT
Tatlow/Sulfuric Acld	140	R	NT	NT
Tannic Acid, All	140	R	NT	NT

ARIZONA DEPARTMENT OF ENVIRONMENTAL QUALITY

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80/92

JAN 15 2008

	Cor-Coto VEN FF		Cor-Cote	VER OF	Cor-Cote HCR FF		
		Secondary		Secondary		Secondary	
Chemical Environment and Concentration (%)	Immersion	Containmont	Immersion	Containment	Immorston	Containment	
Tartaric Acid, All	150	R	150	R	NR	R	
TELVAR	NT	NT	NT	NT	NT	דא'	
Tert Sutyl Peroxybonzoste	80	R	80	R	NT	NT	
Tetrachloroethene	120	R	120	R	NR.	R	
Tetrachloroethylene (Perchlorethylene)	120	R	120	R	100	R	
Tetrachloropentane	זא	NT	NT	NT	NT	NT	
Totrachloropyridino	80	R	80	R	NY	NT	
Tetraethylonepentamina	Nĩ	NT	NT	NT	NT	NT	
Tetrachyi Load		NT	NT	NT	NT	NT	
Telrahydrofuran	NR	R	NR	R	NR	NR NR	
Tetrahydrofurfuryl Alcohol	100	R	100	R	NR NT	NT	
Totrapolassium Pyrophos 60%	120	R	120	R		NT	
Tetrasodium Salt of EDTA (Ethylenediaminotetrascotic A Texanol	100	8	100	R	NT	NT	
Textone (see Sodium Chlorite)	150	R	150	R	NT	NT	
Thormal Oxidizer (see Flue Gas, Wet)	NT	NT	NT	TN	NT	NT	
Therminol	NT	NT	NT	זא	TN	NT	
Thioglycolic Acid (see Mercaptoacelic)	דא	NT	NT	NT	NT	NT	
Thiosullate	NT NT	NT	NT	NT	NT	NT	
ThionylChloride	NR	R	NR	Ŕ	NR	NR	
Tin Fluchorate Plating Bath (1, 2, 4, 7)	150	R	150	R	NR	R	
Titanium Dioxide, Dry	150	R	150	R	140	R	
Titanium Dioxide, Slurry	150	R	150	R	140	R	
Toblas Acid	150	R	150	R	140	R	
Toluene, Toluoi (Methyl Benzene, Methyl Benzol)	120	R	120	R	NR	R	
Toluena Sulfonic Acid, All	150	R	150	R	NR	8	
2,4-Toluene Dílsocyanato	NT	NT	NT	NT	NT	NT	
Toluenesulfonic Acid 70%; Methanol 30%	NT	NT	NT	NT	TN T	NT	
p-Toluenosulfonic Acid	NT NR	NT	NT NR	NT NR	NR	NT NR	
Yoluidina	NR NT	NR NT	NT	NC	NT	TN T	
Tomato Paste	NT	זא		NT	NT	דא	
Tornado(R) Herbicide	NT	NT	NT	NC	NT NT	NT	
Torpedo(R) Insecticide	NT	NT	NT	NT	NT	NT	
Transformer Olls (Esters)	150	R	150	R	TN	NT	
Transformer Olls (Sillcone and Mineral)	150	R	150	R	NT	NT	
Transmission Fluid	NT	NT	NT	NT	TN	NT	
Tributyi Phosphate	120	R	120	8	NT	TN	
Trichloroacette Acid (see Chloroacetic Acid)	NT	NT	NT	NT	NT	NT	
Trichlorobenzeno [1, 2, 4-]	NR	R	NR	Ŕ	NR	R	
Trichlorosthane	100	8	100	8	NR	Ŕ	
Trichloroethylene	NR	R	NR	R	NR	R	
Trichloromonofivoromolinane (see Freen 11)	NT	NT	NT	M	NY	т	
Tricrasyl Phosphate	140	R	140	R	100	R	
Tridecyl Alcohol	אז זא	<u>พr</u>	דא זא		<u>ти</u>	NT NT	
Tri (Dimethylaminomothyl) Phrono)	120	R	120	8	NT		
TRI-ETHONE	NT	NT	NT	NT	זא	NT	
Triethylamine, All	100	8	100	R	NR	NR	
Friethylenetotramino	100	R	100	R	NR	ŅR	
TriathyleneOlycol (see Ethylane Olycol)	NT	NT	NT	NT	אד	NT	
Trimalbyl Benzene	80	R	80	R	NT	NT	
Trimethyl Phosphile	100	8	100	R	NR	8	
Trimethyl Phosphate	NT	NΥ	NT	ΝT	NT	NT	
Triphonyi Phosphito	NT	NT	NT	ΤŴ	זא	NT	
Tripotassium Phosphate	NT	NT	TH	TN	TRY.	NŤ	
Tripropylene Olycol (see Ethylane Glycol)	NT	NT	лл	NT	NY	NT	
Trisodium Phosphato	150	R	150	R	120	8	
		R	150	R	120	R	
Trisodium Phosphate, Saturated	150						
Trisodium Phosphate, Saturated Triton X-100 Wotling Agent	150	R	150	R	NT	NT	
Trisodium Phosphate, Saturated Triton X-100 Wetling Agent Turbing Oli	150 NT	R NT	ΝΥ	NT	NT	т	
Trisodlum Phosphate, Saturated Triton X-100 Wotling Agent Turbine Oil Turbo 15	150 NT NT	R NT NT	NT NT	אז זא	NT NT	אד אז	
Trisodium Phosphate, Saturated Triton X-100 Wotling Agent Turbing Oil	150 NT	R NT	ΝΥ	NT	NT	т	

ARIZONA DEPARTMENT OF ENVIRONMENTAL QUALITY

JAN 15 2008

	Cor-Cote HP Sacondary			Secondary	1	Secondary
Chamical Environment and Concentration (%)	Immersion	Containment	Immersion	Containment	Immersion	Containmen
Tartoric Acid, All	NR	R	NR	8	NR	8
TELYAR	NT	NT	NT	NT	N۲	NT
Tert Bulyi Peroxybenagala	NT	NT	NT	NT	NT	NT
Tetrachloroethane	NR	NR	NR	NR	NR	NR
Tetrachloroethylane (Perchlorothylene)	NR	R	NR	8	NR	R
Tetrachloropenlane	NT	NT	NT	זא	NT	NT
Tatrachloropyrldine	NT	NT	זא	NT	NT	NY
Tetraethylonepentimine	NR	R	NR	R	NR	R
Totraethyl Load	NT	NT	NT	NT	NT	NT
Tetrahydrofuran	NR.	NR	NR	NR	NR	NR
Tetrahydrofurfuryl Alcohol	NR	NR	NR	NR	NR	NR
Fotrapotassium Pyrophos 60%	NT	דא	ТИ	NT	NT	NT
etrasodium Sall of EDTA (Ethylenediaminatetraacetic A	NT	NT	NT	NT	TN	NT
Texanol	NT	NT	NT	NT	Nĭ	NT
Faxtone (see Sodium Chlorite)	NΥ	NT	זא	NT	TN	זא
(hormal Oxidizer (see Flue Gas, Wet)	NT	NT	NIT	NT	NT	NT
Therminol	NT	R	NT	R	NŤ	R
hiogiycolic Acid (see Mercepteacetic)	NR	NR	NR	NR	NR	NR
[hlosulleto	NŤ	NT	NT	NT	NT	NT
Thionyi Chioride	NR	NR	NR	NR	NR	NR
Tin Fluoborate Plating Bath (1, 2, 4, 7)	NR	R	NR	R	NR	R
Rtanlum Dioxido, Dry	NR	R	120	R	100	8
litanium Dioxido, Slurry	NR	8	120	R	100	R
Toblas Acid	NR_	Ŕ	NR	R	NR	R
Toluene, Toluol (Mathyl Benzene, Methyl Benzol)	NR	NR	NR	NR	NR	NR
Toluene Sullanic Acid, All	NR	NR	NR	NR	NR	NR
2,4-Tolueno Olisocyanato	МТ	NT	NT	NT	TN	ы
Totuenesulfonic Acid 78%; Methanol 30%	NT	NT	NŢ	NT	NT	NT
p-Toluenesulfonic Aald	NR	R	NR	R	NR	R
Totuidine	NR	NR	NR	NR	NR	NR
Tomata Julca	NT	NT	NT	זא	NT	NT
Tomato Pasto	NR	R	120	8	100	R
Tomado(R) Herbicido	NR	R	120	R	100	R
Torpedo(R) Insecticida	NR	8	120	R	100	R
Transformer Olts (Esters)	NT	NT	NT	NT	лт	NT
Transformer Olls (Silicone and Mineral)	NT	NT	NT	NT	NT	NT
Transmission Fluid	NT	NT	NT	NT	NT	NT
Tribulyi Phosphata	NT	NT	NT	NT	NT	NT
Frichloroacetic Acid (see Chloroacetic Acid)	NT	NT	אז	NT	NT	NT
Trichlorobanzane (1, 2, 4-)	NR	R	NR	8	NR	R
Trichloroethane	NR	NR	NR	NR	NR	NR
Trichicroathylena	NR	NR	NR	NR	NR	NR
Trichloromonofluoromethane (see Freor 11)	NŤ	NT	NT	NT	TN	אדי
Tricrosyl Phosphato	NR	8	NR	8	NR	R
Tridecyl Alcohol	NT	NT	Νĭ	NT	NT	NT
Tri (Dimethyleminamethyl) Phranol	NT	মা	NT	NT	NT	NT
Triethanolamino	NT	NT	NT	NT	NT	TM
TRI-ETKONE	NT	NT	זא	NT	NT	NT
Triothylamine, Ali	NR	NR	NR	NR	NR	NR
Triothylanetotramine	NR	NR	NR	NR	NR	NR
TriothyleneGlycol (see Ethylene Glycol)	NR	R	NR	R	NR	R
Trimelityi Benzana	NT	NT	NT	าห	NT	87
Trimethyl Phosphile	NR	R	NR	R	NR	Π
Trimethyl Phasphate	NR	NR	NR	NR	NR	NR
Inphenyl Phosphile	NI	NT	NT	אד	NT	NT
Fripotassium Phospitate	NT	NT	NC	NT	NT	זא
Tripropylene Glycof (see Ethylane Glycol)	NR	R	120	R	100	R
Trisodium Phosphate	NR	R	120	8	120	R
Trisodium Phosphale, Saturated	NR	R	120	8	120	R
Triton X-100 Wolling Agent	NT	NT	זא	NT	NŤ	NT
	NT	NT	NT	TM	NT	<u>NT</u>
Turba 15	NT	NT	NT	NT	NT	NT
Turbo 27	NT	NT	TN	זא	NT	NT
Et odruf	ТИ	NT	NT	NT	זא	NT
Turbo 41	NT	NT	NT	זא	NT	14.1

ARUZONA DEPARTMENT OF ENVIRONMENTAL QUALITY

JAN 15 2008

Waste Programs Div. Permits Section

		stic AR425 and AR200 HD		Secondary
Chemical Environment and Concentration (%)	Immersion	Secondary Containment	Immersion	Containmen
Tartaric Acid, All	NT	NT	NT	NT
TELVAR	NT	NT	NT	NT
Tert Butyl Peroxybenzoate	NT	NT	NT	NT
Tetrachioroethane	NT	NT	NT	NT
Tetrachloroethylene (Perchlorethylene)	NT	NT	NR	R
Tetrachloropentane	NT	NT	NT	NT
Tetrachloropyridine	NT	NT	NT	NT
Tetraethylenepentamine	NT	NT	NR	NR
Tetraethyl Lead	NT	NT	NT	NT
Tetrahydrofuran	NT	NT	NT	NT
Tetrahydrofurfuryl Alcohol	NT	NT	NT	NT
Tetrapotassium Pyrophos 60%	NT	NT	NT	NT
etrasodium Salt of EDTA (Ethylenediaminetetraacetic		NT	NT	NT
Texanoi	NT	NT	NT	NT
Textone (see Sodium Chlorite)	NT	NT	NT	NT
Thermal Oxidizer (see Flue Gas, Wet)	NT	NT	NT	
Therminol	NT	NT	120	R
Thioglycolic Acid (see Mercaptoacetic)	NT	NT	NR	NR
Thiosulfate	NT	NT	NT	NT
Thionyl Chloride	NT	NT	NT	NT
Tin Fluoborate Plating Bath (1, 2, 4, 7)	NT	NT	NT	NT
Titanium Dioxide, Dry	250	R	100	R
Titanium Dioxide, Slurry	100	R	100	R
Tobias Acid	NT	NT	NT	NT
Toluene, Toluol (Methyl Benzene, Methyl Benzol)	NR	NR	80	R
Toluene Sulfonic Acid, All	NT	NT	NT	NT
2,4-Toluene Diisocyanate	NT	NT	NT	NT
Toluenesulfonic Acid 70%; Methanol 30%	NT	NT	NT	NT
p-Toluenesulfonic Acid	NT	NT	100	R
Toluidine	NT	NT	NT	NT
Tomato Juice	NT	NT	NT	NT
Tomato Paste	NT	NT	100	R
Tornado(R) Herbicide	NT	NT	NT	NT
Torpedo(R) Insecticide	NT	NT	100	R
Transformer Oils (Esters)	NT	NT	NT	NT
Transformer Oils (Silicone and Mineral)	NT	NT	NT	NT
Transmission Fluid	NT	NT	NT	NT
Tributyl Phosphate	NT	NT	NT	NT
Trichloroacetic Acid (see Chloroacetic Acid)	NT	NT	NT	NT
Trichlorobenzene [1, 2, 4-]	NT	NT	NT	NT
Trichloroethane	NT	NR	NT	NT
Trichloroethylene	NT	NT	NR	NR
Trichloromonofluoromethane (see Freon 11)	NT	NT	NT	NT
Tricresyl Phosphate	NT	NT	NT	NT
Tridecyl Alcohol	NT	NT	NT	NT
Tri (Dimethylaminomethyl) Phronol	NT	NT	100	R
Triethanolamine	NT	NT	100	R
TRI-ETHONE	NT	NT	NT	NT
Triethylamine, All	NT	NT	NT	NT
Triethylenetetramine	NT	NT	NT	NT
TriethyleneGlycol (see Ethylene Glycol)	NT	NT	NT	NT
Trimethyl Benzene	NT	NT	NT	NT
Trimethyl Phosphite	NT	NT	NT	NT
Trimethyl Phosphate	NT	NT	NT	NT
Triphenyl Phosphite	NT	NT	NT	NT
Tripotassium Phosphate	NT	NT	NT	NT
Tripropylene Glycol (see Ethylene Glycol)	NT	NT	NT	R
Trisodium Phosphate	NT	R	NR	NR
Trisodium Phosphate, Saturated	NT	R	NT	NT
	NT	NT	NT	NT
Triton X-100 Wetting Agent		NT	NT	NT
Turbine Oil	NT	NT		
	NT	NT	NT	NT
Turbine Oil				

ARIZONA DEPARTMENT OF ENVIRONMENTAL QUALITY

JAN 15 2008

	Magnalu	x 304 Vinyi Ester	Shor	Glass FF
Chemical Environment and Concentration (%)	Immersion	Secondary Containment	Immersion	Secondary Containment
Tartarle Asid, All	140	R	NT	NT
TELVAR	NT	NT	NT	NT'
Tert Butyl Peroxybenzoale	NR	R	NT	NТ
Totrachloroethane	100	R	NT	NŤ
Tatrachloroethylene (Perchlorethylene)	100	R	NT	NT
fotrachioropentane	זא	NT	NT	NT
Totrachloropyriding	NR	R	NT	NT
Tetrasthylonepontamino	NT	тא	NT	NT
fotraethyl Load	ŇŤ	NT	זא	NT
Tetrohydrofuran	NR	NR	דא	ти
Fatrahydrofurfuryl Alcohof	100	R	NT	TN
fetrapolassium Pyrophos 60%	100	R	NT	זא
etrasodium Salt of EDTA (Ethylonediaminetetraacetic A	150	R	NT	NT
Texanol	NR	R	זא	NT
Textone (see Sodium Chlorite)	140	R	NT	NT
Thermal OxIdizer (see Flue Gas, Wot)	NT	N7	NT	NT
Therminol	NT	NT	Ти	ти
Thioglycolic Acid (see Mercaptoacetic)	т	NT	TN	NT
Thiosulfato	NT	N۲	NT	NT
Thionyl Chloride	NR	NR	NT	NT.
Tin Fluoborate Plating Bath (1, 2, 4, 7)	140	R	NT	זא
Titanium Bioxide, Ory	140	8	NT	NT
Titanium Dioxide, Slurry	140	R	NT	NT
Toblas Acid	140	R	NT	NT
Toluene, Toluol (Methyl Benzene, Methyl Benzol)	80	R	NT	NT
Toluene Sulfonia Acid, All	140	R	NT	NT
2,4-Toluene Olisocyanate	NT	NT	NT	NT
Folgenesulfonic Acid 70%; Methanol 30%	זא	NT	NT	NT
p-Toluanesulfanic Acid	דא	NT	NE	NT
Toluldine	NR	NR	NT	NT
Tomato Juice	140	R	NT	NT
Tomato Pasto	140	8	NT	NT
Tomado(R) Herbicide	140	R	NT	זא
Torpedo(R) Insocticide	140	8	NT	NT
Transformer Oils (Estors)	140	R	NŤ	NT
Transformer Olfa (Sillcone and Mineral)	140	R	NT	NT
Transmission Field	NT	NT	NT	
Tributyi Phosphate	140	Ŕ	NT	NT
Trichloroacetic Acid (see Chloroacetic Acid)	NT	NT	NT	NT
Trichlorobanzena (1, 2, 4-)	NR	NR	NT	NT
Trichloroothane	80	R	TK	NT
Trichlaraethylene	NR	NR	TM	TN
Trichloremonofluoromethans (see Freen 11)	NT	NT	NY.	דא
Tricresyl Phosphata	140	R	NT	NT
Tridacyl Alcohol	NT	NT	TM	NT
Tri (DimethylamInomethyl) Phronol	лт	Tא	NT	NT TA
Friethanolamine	140	8	NT	NΥ
TRIETHONE	NT'	NT	NT	NT
Triethylamine, All	100	R	NT	NT
Triathylenototramino	NR	NR	NT	NŤ
TristnyleneGlycoi (see Ethylana Olycol)	NS	NT	NT	NT
Trimothyl Bonzone	NR	NR	זא	NT
Trimathyl Phosphile	100	R	NT	NT
Frimelhyl Phosphatu	NT	NT	NT	NT
Triphonyl Phosphile	NE	NT	NT	NE
Tripotassium Phosphate	NT	NT	NT	70
Tripropylane Glycol (see Ethylana Glycol)	NT	NT	NT	NT
Trisodium Phosphate	140	R	NT	NT
Trisodium Phosphate, Saturated	140	R	NT	NT
Triton X-100 Wetting Agent	140	8	NT	NT
Turbine Oil	NT	NT	NT	NT
Turbo 15	NT	זא	NT	NT
Turbo 27	NT	NT	NT	NT
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Yu/bo 33	NT	NT	NT	NT

ARIZONA DEPARTMENT OF ENVIRONMENTAL QUALITY

JAN 15.2008

Waste Programs Div. Permits Section

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		oto VEN FF		to VEN GF		DIE HCR FF
Chemical Environment and Concentration (%)	Immersion	Secondary Containment	Immorsion	Secondary Containment	Immorsion	Secondary Containment
furpenline	150	R	150	R	100	R
Iween Surfactant (see Ethylene Glycol)	NT	NT	NT	NŤ	NT .	NT
Tychem Resin Emulsion	T	אד זא	NT	NI	NT	NT.
Tydex 12 Flacculant	NT	NT	NT	NT		_
Ultrawel Surfactant (see Sodium Dodocybenzenesulfor				NT	ΝΫ́	NT
UCON Quenchants		NT	NT		TM	NT
	NT	NT	NT	NT	NT	NT_
Uran Fertilizor Urea	150	R	150	R	NT	NT
Uranium Extraction (see Kerosone)	NT	лт	NT	NT	NT	NT
Urea (Dry)	150	R	150	R	120	R
Urea 33%	150	R	150	R	120	R
Urea 50%	150	R	150	R	120	R
Jrea Ammonium Nitrate	150	8	150	A	120	R
Jroa Formaldohyde Resin	120	Ŕ	120	R	NT	NT
Jroa:Ammonium:Nitrate 35:44:20	150	R	150	8	NT	NŤ
Irea Solutions	150	R	150	R	120	R
Jric Acid Solution	150	R	150	R	120	R
Jrine (see Urea)	NT	NT	NY	NT.	NT	NT
/aleric Acid 5%	NR	8	NR	R	NT	זא
/ogotable Fat	NT	NT	NT	NT	NT	NT
Vegotable Julce	NT	NT	NT	NT	NT	NT
Vegatable Olt	N۲	NT	NT	<u>वा</u> सर	100	R
Vegetable Shortening			NT			
VERSENE 100		אד R	-	NT .	NT	NT
	100		100	8	NT	NT
Versene Chelating Agents	100	R	100	R	NT	м
Vetran 650	120	R	120	R	NŤ	٨T
Viddon O Fumigant (see Dichloropropane)	NT	TN	Nĭ	NT	NT	NT
Vinegar (See Acolic Acid, 10-80%)	150	R	NR	R	NR	R
Vinyl Acetate 20%	80	8	80	R	۲	NT
Vinyi Acetate Ethylene Copolymer	100	R	100	R	זא	NT
Vinyl Acolate 100%	NR	R	NR	२	NT	NT
Vinyl Chlaride	NR	R	NR	3	NR	NR .
Vinyultoluona	80	R	80	8	NT	NT
Vitamin D Solution	NT	NT	NT	NT	אד	NT
VM&P Naphtha	NT	דא	NT	NT	NT	TN
Vodka, 199 Proof (96% Ethanol)	100	R	100	R	100	8
Voranol P-400 Polyol (see Ethytene Glycol)	150	R		_		
Waste Sulfide Liquid			150	R	120	R
	NT	NT	NT	NT	NT	NT
Wastewater / Sawage	150	R /	150	8	120	R
Waste, Organic	150	R	150	R	120	8
Water, Condensate Return	150	R	150	8	120	R
Water, Deionized (9)	150 -	R	150	R	120	R
Water, Demineralized (9)	150	R	150	R	120	R
Water, Oistilled (9)	150	R	150	R	120	R
Water, Fresh (9)	150	R	150	R	120	R
Water, Salt	NÎ	NT	NT	NT	NT	NT
Water, Steam Condensate (9)	150	R	150	R	120	R
Water, Sea	150	8	150	8	120	8
Mater, Tap Hand (9)	150	R	150	R	140	R
Nater, Tap Soft (9)	160	R	150	R	140	R
Mhiskey	150	R	150	R	190	8
White Ligwor (Pulp Mill) (1, 2, 4, 7, 9)	100	8	100	R		R
White Liquor, Clear or Amber	זא		100 NT		120	
Wine, 13% Alcohol		NŤ		NT	NT	זא
	150	R	150	R	100	R
Norchestershire Sauce	NT	NT	NT	NT	NT	NT
(ylene (Xylol)	120	R	120	R	100	R
Zine Chiorido	150	R	150	R	NT	ΝT
Zine Chlarida 70%	150	R	150	R	NT	NT
Zinc Electrolyte	NT	NT	NT	NT	NT	NT
Zinc Nitrate, All	150	R	150	R	NT	NT
Zinc Plating - Acid Fluoborate (1, 2, 4, 7)	150	R	150	R	NR	NR
Zinc Plating - Acid Sullate	150	R	150	R	120	R
Zinc Plating - Cyanido (1, 2, 4, 7, 9)	100	R	100	R	120	R
Zinc Orthophosphate (see Polyphosphate)	TN	NT	NT	NT	NT	NT
Zinc Phosphale 15%	150					
Zinc Sulfate, All	190	R	150	R	NT	NT

ARIZUNA DEPARTMENT OF ENVIRONMENTAL QUALITY

	Gor-		Cor-C	Dte HP FF	Car-Cote SC		
Chemical Environment and Concentration (%)	Immersion	Secondary Containment	Immersion	Secondary Containment	Immersion	Secondary Containmont	
Turpentino	NR	R	120	R	100	ß	
ween Surfactant (see Elhylene Glycol)	NT	NT	NT	NT	NT	NT	
ychem Resin Empision	NR	R	120	R	100	8	
ydex 12 Flocculant	NT	NT	NT	NT	NT	NT	
Jitrawet Surfactant (see Sodium Dodocylbenzenesulfon		NT	NT	NT	NT	NŤ	
JCON Quenchants	NR	R	NR	R	NR	R	
Jran Fertilizer Urga	NT	NT	זא	זא	া শ	NT	
Jranium Extraction (see Korosane)	NT	ти	NT	NT	NT	NT	
Jren (Dry)	NR	R	120	R	120	R	
Jraa 33%	NR	R	120	R	120	R	
Jraa 50%	NR	Ŕ	120	R	120	R	
Jroa Arumonium Nitrate	NR	R	120	R	120	R	
iroa Formaldehydo Rosin	NΫ́	ΝŤ	NT	NT	NT	NT	
Jrea:Ammonium:Nitrate 35:44:20	NT	NT	NT	NT	NŤ	NT	
Jrea Solutions	NR	Ŕ	120	R	120	8	
Jrie Acid Solution	NR.	R	120	8	120	R	
Jrine (see Urea)	NT	NT	NT	NT	NT	NĽ	
/aleric Acid 5%	NR	NR	NR	NR	NR	NR	
/egatable Fat	NR	R	120	R	100	R	
/egetable Juice	אד	NT	ИТ	NY	NŤ	ที	
/egatable Oll	NT	NT	NT	NT	NT	זא	
lagatable Shortening	NY	NT	NT	Ти	NT	NIT	
ERSENE 100	NT	NТ	NT	ит	NT	NT	
Jersane Chelating Agants	NT	ТИ	NT	NT	NT	NT	
/etran 650	NT	٨T	TM	NT	NT	NT	
Adden D Fumigant (see Dichloropropans)	NT	NT	זא	NT	মা	NT	
/inegar (See Acetic Acid, 10-80%)	NR	R	NR	R	NR	P	
/knyl Acetate 20%	NT	NT	NT	Nĩ	NΓ	N۲	
Vinyl Acotate Ethylene Copolymer	NR	8	120	R	100	R	
Vinyl Acatale 100%	NR	NR	NR	NR	NR	NR	
/Inyl Chloride	NR	NR ·	NR	.NR	NR	NR	
Vinyultoluena	זא	NT	NT	NT	NT	NT	
Vitamin D Selution	NT	NT	NT	NT	NY	<u>NT</u>	
/M&P Naphtha	NT	NT	NT	NT	NR	NR	
/odka, 190 Proof (95% Ethanol)	NR	R	NR	R	NR	R	
Voranol P-400 Polyol (see Ethylane Glycol)	NR	R	120	R	120	R	
Wasto Sulfide Liquid	NT	NT	זא	NT	NT	NT	
Wastewater / Sowage	NR	R	120	R	120	R	
Waste, Organic	NR	R	120	R	120	R	
Water, Condonsate Return	NR	R	120	R	120	Ŕ	
Water, Delonized (9)	NR	8	120	R	120	R	
Water, Deminoralized (9)	NR	Ř	120	R	120	R	
Water, Distilled (9)	NR	8	120	R	120	R	
Walor, Fresh (9)	NR	R	120	Ŕ	120	R	
Waler, Sali	NT	NT	NT	NT	NT	TM	
Water, Steam Condensate (9)	NR	R	120	R	120	8	
Water, Sea	NR	R	120	Ŕ.	120	R	
Water, Tap Hard (9)	NR	R	120	R	120	R	
Woter, Tap Soft (9)	NR	R	120	R	120	R	
Whiskey	NR	R	NR	R	NR	R	
While Liquor (Pulp Mill) (1, 2, 4, 7, 9)	NR	R	120	R	120	R	
White Liquor, Clenr or Amber	NT	NT	NT	NT	NT	NT	
Wine, 13% Alcohol	NR	8	NR	R	NR	R	
Norchestershire Sauco	NT	NT	TN	זא	NT	NT	
Kylene (Xylol)	NR	R	NR	R	NR	B	
Zinc Chlorida	NT	лĭ	N.L	NT	NT.	NT	
Zine Chloride 70%	NT	ти	NŤ	Nĩ	NT	NT	
Zine Electrolyte	NT	NT	NT	NT	NT	NT	
Zinc Nitrate, All	NT	NT	NT	NT	NT	NT	
Zinc Plating - Acid Fluoborate (1, 2, 4, 7)	NR	R	NR	8	NR	R	
Zinc Plating - Acid Sulfate	NR	R	120	R	120	Ŕ	
Zinc Plating - Cyanide (1, 2, 4, 7, 9)	NR	R	120	R	120	R	
		_		_	NT		
Zine Orthophosphale (see Polynhosphale)	NT	NT	INI I	101			
Zinc Orthophosphale (see Polyphosphate) Zinc Phosphate 15%	NT NT	NT NT	<u>אז</u> זא		NT	NT	

ARIZOWA DEPARTMENT OF ENVIRONMENTAL QUALITY

	L,ITTI OLUS	tic AR425 and AR200 HD	Fast-Clad ER Socondary		
Chemical Environment and Concentration (%)	Immorsion	Secondary Containment	Immorsion	Containment	
Turpenline	NT	NT	۲۸	тя	
fween Surfactant (see Ethylene Glycol)	NT	TM	٨٢	NT	
Typhom Resin Emulation	NT	זא	100	R	
Tydex 12 Flocculant	NT	Nĭ	NT	TRT	
Ultrawot Surfaciant (see Sodium Oodacyibenzonesulfor	TN T	NŤ	٦ĸ	NT	
JCON Quenchants	NT	NT	NT	NT	
Jran FortBizor Urea	NT	NT -	NT	NT	
Uranium Extraction (see Kerosene)	NT	NT	МТ	NT	
Jma (Dry)	NT	<u>NT</u>	NT	NT	
Urea 33%	NT	TN	NT	8	
Jrea 50%	NT	NT	NT	8	
Urea Ammonium Nitrate	NT	NT	ти	R	
Iron Formaldehyde Rosin	NT	л т	ЯT	NT	
Urea:Ammonlum:Nitrato 35:44:20	NT	Т	NT	NĨ	
Jrea Solutions	NT	NT	NT	NT	
Jric Acld Solution	NŤ	NT	NT	Nĭ	
Srine (see Urea)	NŤ	NT	NT	NT	
Valeric Add 5%	NT	TA	NR	NR	
legelable Fat	ŇŤ	ти	140	Ŕ	
Vegetable Juice	NT	זא	NT .	NT	
Yegatable Oil	NT	NT	NT	NT	
Vegetable Shortoning	NT	NT	זא	МТ	
VERSENE 100	NT	זא	ТИ	NŤ	
Versone Chelating Agents	NT	NT	NT	NT	
Vetran 650	NT	NT	TM	NT	
Vidden D Fumigant (see Dichloropropane)	NT	NT	NT	۲א	
Vinegar (See Acetic Acid, 10-80%)	NR	R	т	NT	
Vinyl Acatate 20%	ŇŤ	NT	NT .	NT	
Vinyl Acetate Ethylene Copolymer	NT	NT	100	R	
Vinyl Acetata 100%	NT	זא	NR	NR	
Viny) Chlarida	NT	NT	NT	זא	
Vinyultoluone	NT	NT	NT	NT	
Vitamin D Solution	NT TA	NT	NT	NT	
VM&P Naphtha	NR	NR	80	R	
Vodka, 190 Proof (95% Ethanol)	NR	NR	NR	NR	
Voranol P-400 Polyol (see Ethylene Glycol)	80	R	NT	R	
Waste Sulfide Liquid	NT	NT	זא	NY	
Wastewater / Sowage	100	R	80	R	
Waste, Organic	NT	NT	NT	NT	
Water, Condonsate Return	80	R	NT	NT	
Water, Delocized (9)	80	R	80	R	
Water, Deminoralized (9)	80	R	80	R	
Water, Distilled (9)	BO	R	80	R	
Water, Fresh (8)	80	R	80	R	
Water, Salt	80	R	80	R	
Water, Steam Condensate (9)	80	8	NT	NT	
Water, Sea	80	R	80	R	
Water, Tap Hard (9)	60	R	60	R	
Water, Tep Soft (9)	80	R	80	Ŕ	
Whiskey	NR	NR	NT	NΥ	
White Liquar (Pulo Mill) (1, 2, 4, 7, 9)	NT	T	NT	NT.	
White Liquor, Clear or Amber	NΥ	זא	זא	NT	
Wine, 13% Alcohol	NR	NR	NT	NT	
Worchestershire Sauce	NT	NT	NT	NT	
Xylene (Xylul)	NR	NR	80	R	
Zinc Chlaride	NT	NS	NT	NT	
Zinc Chloride 70%	NT	NT	NT	- NT	
Zinc Ejectrolyte	NT	T	NT	NT	
Zine Nitrato, All	NT .	דא	NT	NT	
Zinc Plating - Acid Fluoborate (1, 2, 4, 7)	זא		NT	NT	
Zinc Plating - Acid Sulfate	TN	NT	NT	זא	
Zinc Plating - Cyanido (1, 2, 4, 7, 9)	NT	דא	NT	NT	
Zine Orthophosphate (see Polyphosphate)	NT	NT	NT	NT	
Zine Phosphate (See Polyphosphate)	NT	NT	NT	NT	
Zine Sulfate, All	NT	NT	NT	TNT	

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ARIZONA DEPARTMENT OF ENVIRONMENTAL QUALITY

JAN 15 2008

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	Magnal	ux 304 Vinyl Ester	Sha	Shor-Glass FF		
Chemical Environment and Concentration (%)	immersion	Secondary Containment	Immersion	Secondary Containment		
Furgantine	140	R	NT	NT		
ween Surfactant (see Ethylene Glycol)	NT	NT	NT	NT		
Fychem Resin Emulsion	NT	NT	NT	NT		
Tydex 12 Flocculant	NT	דא	TK	NT -		
Jirawet Surfactant (see Sodium Dodecylbonzonosuli		NT	NT	NT		
JCON Quenchants	NT	NT	NT	NT		
Jran Fortilizer Uroa	140	R	NT	NT		
Jranium Extraction (see Kerosene)	NT	NT	NT	NT		
Jrea (Dry)	140	R	NT	NT		
Jroa 33%	140	R	NT	NT		
Jrea 50%	140	R	NT	NT		
Jrea Ammonium Nisrate	140	R	NT	NT		
Jrea Formaldehyde Resin	100	8	NT	NT		
Jrea:Ammonium:Nitrato 35:44:20	140	R	NT	NT		
Jrea Solutions	140	R	NT	NT		
Iric Acid Solution	140	R		NT		
Jrine (see Urea)	NT		NT	NT		
/aleric Acid 5%	NR	R	NT	NT		
fogetable Fat	NT			NT		
/agetable Julca	NT	- NT	אז	זא		
/egatable Oil	זא	NT	NT	זא		
/agolable Shortoning	- NT		NT	TN		
ERSENE 100	140	R	NT	NT		
/orsane Chelating Agents	100	8	NT	NT		
Jatran 650	140	8	NT	NT		
/iddon D Fumigant (see Dichloropropane)	NT	NT	NT	NT		
/Inegar (See Acetic Acid, 10-80%)	140	R	NT	NT		
		R	NT	NT NT		
/Inyl Acetato 20%	80	R	NT	NT		
/inyl Acelata Ethylano Copolymer /inyl Acelata 100%	NR	NR		NT		
· · ····			_	NT		
Vinyi Chlorida	NR	NR				
Vinyultoluene	NR NT	R	NT	NT		
Vitamin D Solution		NT	NT	NT		
VM&P Naphtha		<u>אד</u>		NT		
Vodka, 190 Proof (95% Ethanol)	80	R	NT	NT		
Voranol P-400 Polyol (see Ethylane Glycol)	140	R	NT	MT		
Waste Sulfide Liquid	NT	אז	NT_			
Mastewator / Sowago	150	R	TM	NT		
Naste, Organic	150	R	NT	NT_		
Nater, Condensate Return	140	R	NT	R		
Water, Delonized (9)	140	R	NT	NT		
Nator, Demineralized (9)	140	R	NT	NT		
Vater, Distillod (9)	140	R	NT	NT		
Nator, Fresh (9)	150	R	120	R		
Water, Salt	NŤ	NT	во	R		
Water, Steam Condensale (9)	140	R	NY	NT		
Water, Soa	140	R	NT	R		
Water, Tap Hard (9)	150	R	120	R		
Waler, Tap Soft (9)	150	8	120	R		
Whiskey	120	R	NT	NT		
White Liquor (Pulp Mill) (1, 2, 4, 7, 9)	140	R	NT	NT		
White Liquor, Clear or Amber	лт	NT	NT	NT		
Vine, 13% Alcohol	140	R	NT	NT		
esus or data	NT	NT	דא	NT		
(yiene (Xyiai)	BO	R	Nĩ	TN T		
Zinc Chloride	140	R	NT	NT		
Zins Chlorida 70%	140	R	NT	Nĩ		
Zinc Electrolyto	NT	NT	NT	NT		
Zine Nilrate, All	140	R	NT	NT		
Zinc Plating - Acid Fluoborate (1, 2, 4, 7)	NR	R	NT	NT		
Zinc Plating - Acid Sullate	140	R	Nľ	Nĩ		
Zinc Plating - Cyanido (1, 2, 4, 7, 9)	140	R	NT	NT		
		NT	NT	NT		
Zinc Orthophosphate (see Polyphosphale)	NT .					
Zing Orthophosphale (see Polyphosphale) Zing Phosphale 15%	140	R	NT	NT		

ARIZONA DEPARTMENT OF ENVIRONMENTAL QUALITY JAN 152008 Waste Programs Div. Permits Section

88/92

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	Cor-Cole VEN FF		Cor-Cote VEN GF		Cor-Cote HCR FF	
Chemical Environment and Concentration (%)		Secondary Containmont	immersion	Socondary Containment	Immorsion	Secondary Containment
Zinc SutRie, Saturated	150	R	150	R	NT	NT IN

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ARIZONA DEPARTMENT OF ENVIRONMENTAL QUALITY JAN 152008

> Waste Programs Div. Permits Section

	Car-Cate HP		Cor-Cole HP FF		Cor-Cote SC	
Chemical Environment and Concentration (%)		Secondary Containment		Secondary Containment	Immersion	Secondary Containment
Zine Sulfito, Saturated	TNT .	NT	דא	NT	10	NT

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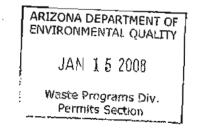
ARIZONA DEPARTMENT OF ENVIRONMENTAL QUALITY JAN 15 2008 Waste Programs Div. Permits Section

90/92

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	EnviroLastic AR425 and AR200 HO		Fast-Clad ER		Magnalux
Chemical Environment and Concontration (%)	Immorsion	Secondary Containment		Sacondary Containmont	Immersion
Zinc Sulfite, Saturated	NT	זא	TN	70	140

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	304 Vinyl Ester	Sher	-Glass FF
Chemical Environment and Concentration (%)	Secondary Containment	Immersion	Secondary Containment
Zinc Sulfite, Saturated	R	NT TA	NT

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ARIZONA DEPARTMENT OF ENVIRONMENTAL QUALITY

System Notes

6/27/2006

Notes

(1) When a vinyl ester system requires a topcoat, use Cor-Cote VEN GF graphite flake topcoat.

(2) Special carbon aggregate filler for mortar laminates and topping mortar for heavy duty mortar laminates. Contact your Sherwin-Williams representative.

(3) Acid resistant fabric in laminate, mortar laminate, and heavy duty mortar laminate systems. Contact your Sherwin-Williams representative.

(4) Double c-veil (Nexus) finish on laminate and mortar laminate systems.

(5) Double surface veil on vinyl ester laminate and mortar laminate systems.

(6) Double c-veil (Nexus) on mortar laminate and heavy duty mortar laminate systems.

(7) Resin topcoat for flake filled coatings.

(8) BPO catalyst and post cure of special vinyl esters is required. Contact your Sherwin-Williams representative.
 (9) Post cure vinyl esters at 180°F and vinyl ester novolacs at 210°F for one (1) hour per 40 mils.

(10) For temperatures above 120°F use acid resistant fabric laminate. Contact your Sherwin-Williams representative.

(11) Some staining of lining by the commodity.

(12) The resin may discolor high purity acids.

*Not recommended with low temperature hardener.

**Recommended with low temperature hardener only.

Immersion Service (immersion, constant flow, or condensing vapors):

A number reference indicates the maximum temperature (°F) permitted

NR = Not recommended

NT = Testing data not yet available. Contact your Sherwin-Williams representative for recommendations.

Secondary Containment Service:

"R" = Recommended (immersion up to 72 hours). Chemicals rated "R" for secondary containment that are also recommended for immersion are rated for the same temperature as the immersion rating. When they are rated "R" for secondary containment and rated "NR" for immersion, they are rated for exposure at temperatures up to 80°F, unless indicated otherwise.

NR = Not recommended

NT = Testing data not yet available. Contact your Sherwin-Williams representative for recommendations. Ratings are based on the entire system, not just the resin component.

ARIZONA DEPARTMENT OF ENVIRONMENTAL QUALITY

JAN 1 5 2008

Chemicals seen within Tank Farr		Cor-Cote HCR FF Epoxy
	Analysis	Compatability Analysis
Acetate Solvents	Unsuitable	recommended
Acetic Acid, 10%	?	recommended
Acetone	Unsuitable	recommended
Alcohol, Amyi	Suitable (80°F)	recommended
Alcohoi, Butyl	Suitable (140°F)	recommended
Alcohol, Diacetone	Unsuitable	recommended
Alcohol, Ethyl	Suitable (140°F)	
Alcohol, Isopropyl	Suitable	
Alcohol, Methyl	Suitable (140°F)	
Alcohoi, Propyl	Suitable (140°F)	
Amines	Suitable	
Ammonia Solutions	Suitable (140°F)	
Ammonium Persulfate	Suitable (140°F)	
Ammonium Phosphate	Suitable (140°F)	
Ammonium Sulfate	Suitable (104°F)	recommended
Barium HydroxIde	Suitable (140°F)	
Benzene (Benzol)	Unsuitable	recommended
Benzoic Acid	Suitable (180°F)	
Brake Fluid	Suitable	
Butyl Acetate	Suitable	
Chlorinated Solvents	Unsuitable	?
Chlorinated Water	Suitable	
Copper Sulfate	Suitable (140°F)	
Cresote Oil	Unsuitable	?
Cresylic Acid	Unsuitable	recommended
Cupric Nitrate	Suitable (140°F)	
Cutting Oils, Water/Emulsions	Suitable	
Cycloheanone	Unsuitable	recommended
Cyclohexane	Unsuitable	recommended
Detergents, Synthetic	Suitable (140°F)	
Dichlroethane	Unsuitable	Not Tested
Diesel Oil Fuels	Suitable (72°F)	recommended
Dimethyl Formamide	Unsuitable	recommended
Disodium Phosphate	Suitable (140°F)	
Dry Cleaning Fluids	Unsuitable	?
Enamel	?	?
Ethyl Acetate	Unsuitable	recommended
Ethyl Benzene	Unsuitable	recommended
Ethylene Glycol	Suitable (140°F)	
Ferrous Chloride	Suitable (140°F)	
Ferrous Sulfate	Sultable (140°F)	
Fluoboric Acid	Suitable (140°F)	
Fluorosilicic Acid	Suitable	
Formaldehyde, cold	Suitable (140°F)	
Formaldehyde, hot	Suitable (140°F)	
Freon 113, TF	Suitable	· · · · · · · · · · · · · · · · · · ·

Attachment II - AKE, Inc. Chemical Compatiblity Chart

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ARIZONA DEPARTMENT OF ENVIRONMENTAL QUALITY

JAN 15 2008

i	Freon 12, 13, 32, 114, 115	Suitable	
	Gasoline, Aviation	?	recommended
	Gasoline, Leaded	Suitable (100°F)	recommended
	Gasoline, Motor	?	recommended
	Gasoline, Unleaded	Suitable (70°F)	recommended
	Grease	Suitable	
	Kerosene	Suitable (140°F)	
	Ketones	Unsuitable	recommended
	Lacquer (and Solvent)	Suitable	
	Lead Acetate	Suitable (140°F)	
	Lead Sulfate	Suitable (140°F)	
	LPG	Suitable	
	Lubricating Oil Petroleum Base	Suitable (104°F)	recommended
	Mercuric Chloride	Suitable (140°F)	
	Mercuric Cyanide	Suitable (140°F)	
	Mercurous Nitrate	Suitable (140°F)	
	Mercury	Suitable (140°F)	
	Methanol	Suitable (140°F)	
	Methyl Ethyl Ketone	Unsuitable	recommended
	Methyl Isobutyl Ketone	Unsuitable	recommended
	Methylene Chloride	Unsuitable	recommended
	Mineral Spirts	?	recommended
	Naptha	Suitable (140°F)	
	Napthalene	Unsuitable	recommended
	Nitric Acid 10%	Suitable (140°F)	
	Nitric Acid 30%	Suitable (140°F)	
	Oils, Water Mixture	Suitable (100°F)	Not Tested
	Other Ketones	Unsuitable	recommended
	Oxalic Acid	Suitable (73°F)	recommended
	Phosphoric Acid 10%	Suitable (140°F)	
	Phosphoric Acid 50% Cold	Suitable (140°F)	
	Sodium Hydroxied 20% Cold	Suitable (140°F)	
	Sodium Hydroxied 50% Cold	Suitable (140°F)	
	Sodium Hypochlorite (Bleach)	Suitable (140°F)	
	Sulfuric Acid 0 to 77%	Suitable (140°F)	
	Tuluol (Toluene)	?	recommended
	Varnish	Suitable	
Occasional:	Acetaldehyde	Unsuitable	recommended
	Air	Suitable	
	Alum (Aluminum Potassium Sulfate)	Suitable	
	Alum (Aluminum Sulfate)	Suitable (140°F)	
	Ammoium Chloride	Suitable (140°F)	
	Ammonia, Anhydrous Liquid	Unsuitable	recommended
	Ammonium Acetate	Suitable (140°F)	
	Ammonium Carbonate	Suitable (140°F)	
	Arnmonium Hydroxide 28%	Suitable (140°F)	
	Ammonium Hydroxide Concentrated	Suitable (140°F)	
	Ammonium Nitrate	Suitable (140°F)	
	Aniline	Unsuitable	recommended
	Barium Carbonate	Suitable (140°F)	
	Barium Chloride	Suitable (140°F)	
	Barium Sulfate	Suitable (140°F)	
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ARIZONA DEPARTMENT OF ENVIRONMENTAL QUALITY

JAN 1 5 2008

Benzaldehyde	Unsuitable	recommended
Borax (Sodium Borate)	Suitable (140°F)	
Boric Acid	Suitable (140°F)	
Butadiene	Suitable (104°F)	Not Tested
Butane	Suitable (100°F)	recommended
Butylene	Suitable	
Butyric Acid	Unsuitable	recommended
Calcium Bisulfite	Suitable (100°F)	recommended
Calcium Carbonate	Suitable (140°F)	
Calcium Chlorate	Suitable (140°F)	
Calcium Chloride	Suitable (140°F)	
Calcium Hydroxide	Suitable (140°F)	
Calcium Nitrate	Suitable (140°F)	
Calcium Phosphate	Suitable	
Calcium Sulfate	Suitable (140°F)	
Carbon Bisulfide	Suitable	
Carbon Dioxide, Dry Carbon Monoxide	Suitable (140°F)	
Carbon Monoxide Carbon Tetrachlride, wet	Suitable (140°F) Unsuitable	recommended
		recommended
Carbonic Acid	Suitable (140°F)	
Casein	Suitable	
Caustic Potash	Suitable	
Caustic Soda	Suitable	
Cellulose Acetate	Suitable	
Chlorobenzene, dry		recommended
Chromic Acid <50%	Suitable (140°F)	
Citric Acid	Suitable (140°F)	
Copper Carbonate	Suitable (140°F)	
Copper Cyanide	Suitable (140°F)	
Copper Nitrate	Suitable (140°F)	
Diethyl Benzene	Unsuitable	recommended
Diethylene Gycol	Suitable (140°F)	
Dipentane (Pinene)	?	?
Epsom Salts (MgSo4)	Suitable (104°F)	Not Tested
Ferric Hydroxide	Suitable (140°F)	
Ferric Nitrate	Suitable (140°F)	
Ferric Sulfate	Suitable (140°F)	
Glucose	Suitable (140°F)	
Glue	Suitable (140°F)	
Glycerine (Glycerol)	Suitable	
Helium Gas	Suitable (140°F)	
Heptane	Suitable (100°F)	recommended
Hexane	Unsuitable	recommended
Hydrogen Gas, cold	Suitable (140°F)	
Hydrogen Peroxide, Dilute	Suitable (140°F)	
Hydrogen Sulfide, Dry	Suitable (140°F)	
Hydrogen Sulfide, Wet	Suitable (140°F)	
Hypo (Sodium Thiosulfate)	Suitable (104°F)	recommended
Isopropyl Acetate	Unsuitable	recommended
Isporopyl Ether	Unsuitable	recommended
Lactic Acid Dilute cold	Suitable	
Linoleic Acid	Suitable (140°F)	· · · · · · · · · · · · · · · · · · ·

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ARIZONA DEPARTMENT OF ENVIRONMENTAL QUALITY

JAN 1 5 2008

Waste Programs Div.

Linseed Oil	Suitable (140°F)	
Maganese Sulfate	Suitable	
Magnesium Carbonate	Suitable (140°F)	
Magnesium Chloride	Suitable (140°F)	
Magnesium Hydroxide	Suitable	
Magnesium Nitrate	Suitable (140°F)	
Magnesium Sulfate	Suitable	
Maleic Acid	Suitable (140°F)	
Maleic Anhydride	Suitable	
Malic Acid	Suitable (140°F)	
Melamine Resins	Suitable	
Methane	Suitable (140°F)	
Methyl Acetate	Unsuitable	recommended
Methyl Acetone	Suitable	recommended
Mineral Oils	Suitable (140°F)	
	Suitable (140 F)	
Morpholine		
Natural Gas, Sour Nickel Chloride	Suitable (140°F)	
Nickel Chloride	Suitable (140°F)	
	Suitable	
Nitrogen Oils & Fats	Suitable (140°F)	
Oleic Acid	Suitable (140°F)	· · · · · · · · · · · · · · · · · · ·
Palmitic Acid	Suitable (140°F)	
Paraffin	Suitable (120°F)	recommended
Pentane	Suitable	
Phenol 5%	Unsuitable	recommended
Phthalic Acid	Suitable	
Pine Oil	Suitable	
Polyvinyl Acetate	Suitable	
Potassium Bichromate	Suitable (140°F)	· · · · · · · · · · · · · · · · · · ·
Potassium Bisulfate	Suitable (140°F)	
Potassium Bromide	Suitable (140°F)	
Potassium Carbonate	Suitable	
Potassium Chlorate	Suitable (140°F)	
Potassium Chloride	Suitable (140°F)	
Potassium Chromate	Suitable (140°F)	
Potassium Cyanide	Suitable (140°F)	
Potassium Dichromate	Suitable (140°F)	
Potassium Ferricyanide	Suitable (140°F)	
Potassium Ferrocyanide	Suitable (140°F)	
Potassium lodide	Suitable (140°F)	
Potassium Nitrate	Suitable (140°F)	
Potassium Permanganate	Suitable (140°F)	
Potassium Phosphate	Suitable	
Potassium Sulfate	Suitable (140°F)	
Potassium Sulfide	Suitable (100°F)	?
Potassium Sulfite	Suitable (104°F)	recommended
Pyidine	Unsuitable	recommended
Pyrolgalic Acid	Suitable (73°F)	
Resorcinol	?	?
Salicylic Acid	Suitable	
Salt (NaCl)	?	recommended

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ARIZONA DEPARTMENT OF ENVIRONMENTAL QUALITY

JAN 15 2008

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	recommended
	recommended
Unsuitable	recommended
Suitable	
Suitable (100°F)	recommended
Unsuitable	recommended
Unsuitable	recommended
Suitable (140°F)	
Suitable	
Suitable	
Suitable (73°F)	recommended
Suitable	
?	?
Suitable	
Suitable (140°F)	
Suitable (140°F)	
Unsuitable	recommended
Suitable (104°F)	?
	Suitable Suitable (140°F) Suitable (140°F) Suitable (100°F) Unsuitable Unsuitable Suitable (140°F) Suitable Suitable ? Suitable ? Suitable Suitable Suitable Unsuitable Suitable (140°F) Suitable (140°F) Unsuitable

ARIZONA DEPARTMENT OF ENVIRONMENTAL QUALITY

JAN 15 2008

Section D Revision No. 9 Date: 01/11/2008

EXHIBIT D-2

CHEMICAL COMPATIBLITY CHART FOR PVC WATER STOP

CHEMICAL RESISTANCE GUIDE

The chemical resistance data provided here on the following pages has been assembled from a wide variety of sources in our industry. This information is based on practical field experience and actual laboratory testing conducted by the manufacturers of various plastic resins and finished products. Keep in mind that this information should only be used as a guideline for recommendations and not a guarantee of chemical resistance. Some performance variations may be noticed between homopolymers and copolymers as well as emulsion and suspension type resins of the same general type. In addition, actual service conditions including temperature, concentration, and contaminant's will affect variances in chemical resistance.

In assembling the chemical resistance data presented here, several sources were checked. When conflicts were uncovered, we took a conservative approach and used the lower of two or more ratings. In addition, special consideration was given to the material as supplied by a particular vendor; i.e., our polyethylene ratings are based on information provided by tank manufacturers rather than pipe suppliers. This was done primarily because of the volume of tanks supplied as compared to polyethylene pipe.

In an atternpt to make the recommendations more meaningful, we have given the maximum recommended use temperature for each plastic and elastomer in the specific chemicals listed. Lacking complete data in many cases we did leave those in question as blanks. Where a material is unsuitable for a specific chemical an "X" is used. Metals are listed as:

- A = Excellent
- B = Good, minor effect
- C = Fair, needs further tests
- X = Unsuitable

To the best of our knowledge, the information contained in this publication is accurate. However, we do not assume any liability whatsoever for the accuracy or completeness of such information. Moreover, there is a need to reduce human exposure to many materials to the lowest physical limits in view of possible long term adverse effects. To the extent that any hazards may have been mentioned in this publication, we neither suggest nor guarantee that such hazards are the only ones which exist. Final determination of the suitability of any information or product for the use contemplated by any user, the manner of that use and whether there is any infringement of patents, is the sole responsibility of the user. We recommend that anyone intending to rely on any recommendation or use any equipment, processing technique, or material mentioned in this publication should satisfy themselves as to such suitability, and that they meet all applicable safety and health standards. We strongly recommend the user seek and adhere to manufacturers' or suppliers' current instructions for handling each material they use.

USE OF THE CHEMICAL RESISTANCE TABLES

The aggressive agents are classified alphabetically according to their most common designation. Further descriptions include trivial or common names as trade names.

If several concentrations are given for a particular material, the physical data, in general, relates to the pure product that is 100% concentration.

In listing the maximum use temperature for each plastic type in a given chemical, it can in general be assumed that the resistance will be no worse at lower temperatures.

HOW TO SELECT THE CORRECT MATERIAL:

 Locate the specific chemical in the system or found in the surrounding atmosphere using the alphabetical chart of chemicals.

2. Select the material with a maximum use temperature that matches or exceeds the need. The Harrington philosophy has always been to suggest the least costly material that will do the job. 3. Where a material or elastomer appears to be marginal compared to the requirements, we encourage a call to our technical service group.

EXAMPLES:

1. Methylene chloride: in the tables PVDF, Halar, or Teflon are the only materials suitable. Carbon steel works well and that would er reason to justify Teflon or Halar.

2. Sodium hypochlorite, 15% at 100°F, PVC is good to 140°F and is the least expensive of the materials available.

3. For nitric acid 40% ambient temperature, the tables recommend either CPVC or polypropylene at 73°F. In most cases CPVC will be the economical choice. Note that PVDF is rated for higher temperature use.

NOTE: The ratings shown for carbon and ceramic pump seals are approximate. Please contact your local Harrington service center for a recommendation on your specific application.

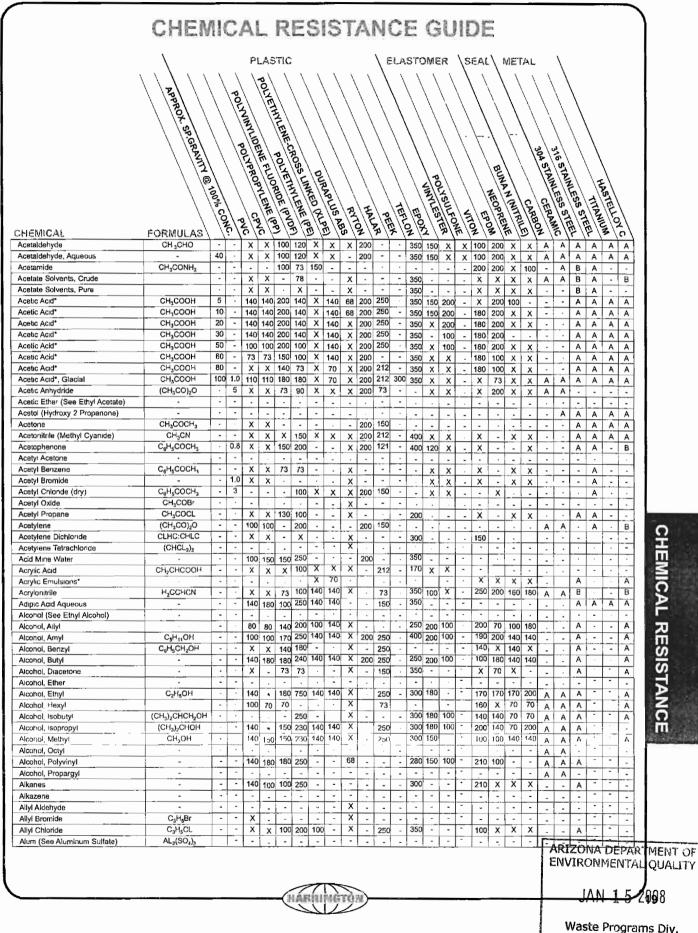
18



JAN 15 2008

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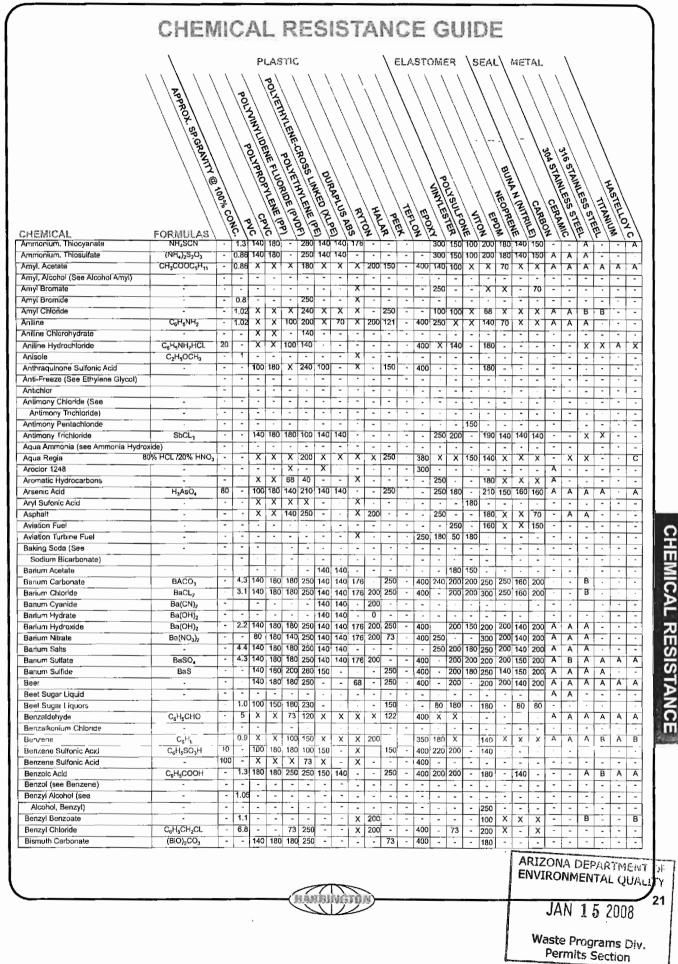
FOR SERVICE, PLEASE CALL 1-800-877-HIPCO

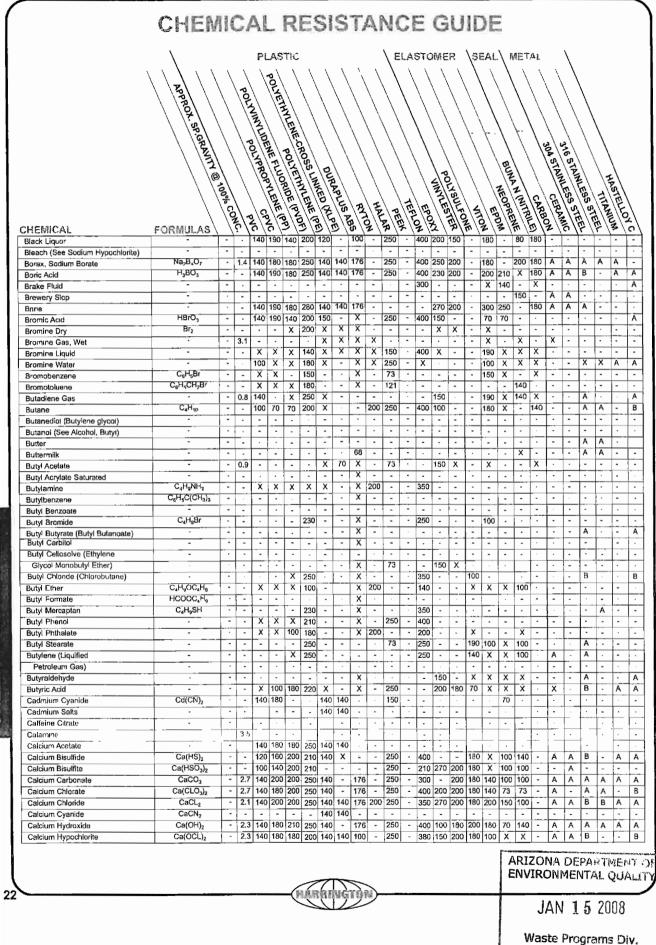


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Aluminum, Bromide	ALBr3	-	•	-	-	-	250		-	176	- 1	-	-	- I	-		-	180	-	-	140	•	-	-	•	•	•
Aluminum, Chloride	ALCL ₃	-	-				140						•	210	I I	200	-		210	200	200	A	A	С	-	•	•
Aluminum, Citrate	ALF3		-	-	-	- 200	- 280	140	140	- 176	-	- 250	•	-	180	180		- 180	·	200	- 200	- -	•	-	-	-	-
Aluminum, Fluoride	ALF3 AL(HCOO)3	-	-	140			250	1	-	-		-	-	280	-	-	-		210				-	в	-	-	-
Aluminum, Hydroxide	AL(OH)3	-		140	180	180	250	-	-	176		250		250	-	-	-	180	150	160	180	-	•	-	A	В	-
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Ammonia, Gas	NH ₃	•	-	X	x	100	180	- 1	-	-	200		-	250		-	-	x	120	- 1	180	•	-	A	A	<u>† -</u>	A
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Tribasic	•	-	-	140			250	-	140	+	· ·	-	•	250			-	<u> </u>	200			-	•	A	•	-	A
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Ammonium, Bifluoride	NH4HF2		•	140	180	180	250	- 1	•	-	· "	250		300	· · ·	-	-	140	,	X	80	-	-	Α	-	•	
Ammonium, Bisulfide	NH₄HS	-	•		180	-	250			•	-	250	-	300	2		•	-	-	-	180		•	·	-	•	·
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Ammonium, Sulfate	(NH ₄) ₂ SO ₄	-	1.8								200	250		-					+		140		A	В	-	-	A
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CHEMICAL RESISTANCE

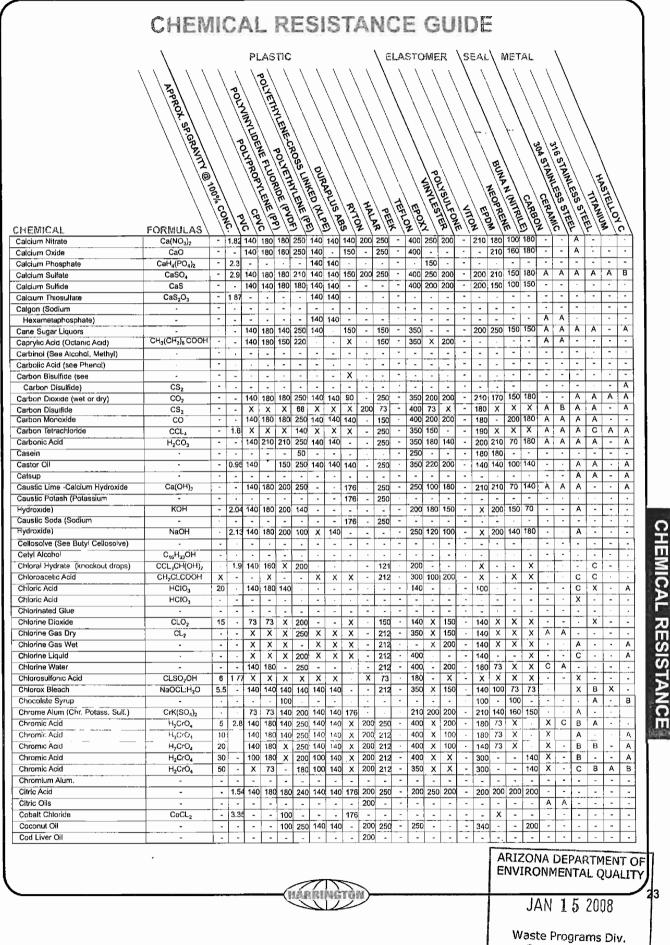




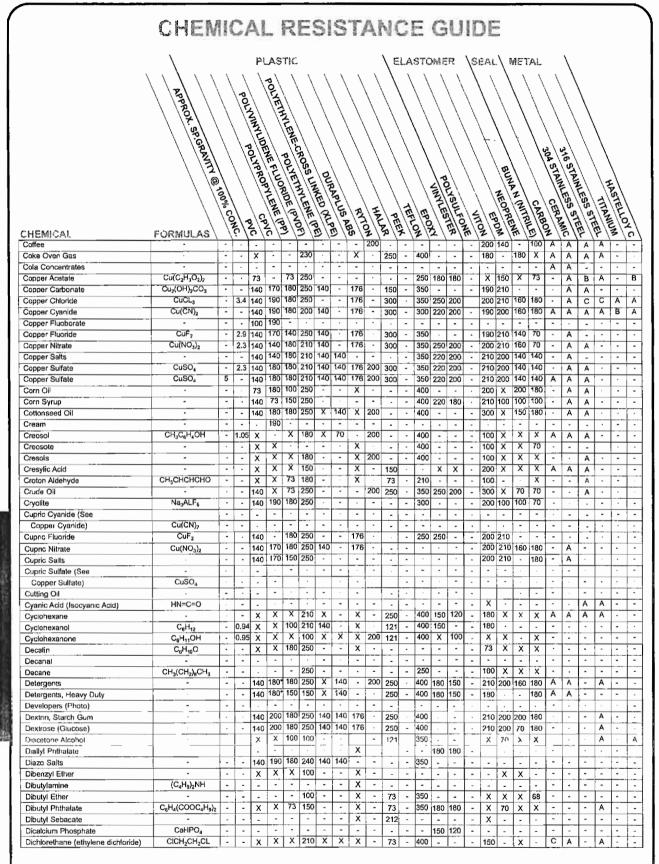
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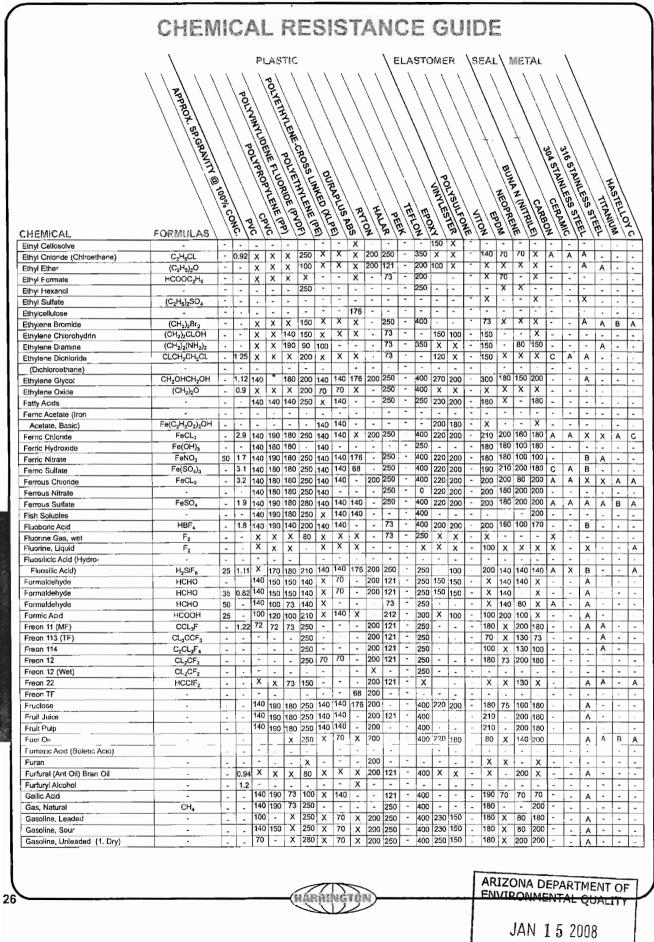
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Waste Programs Div.

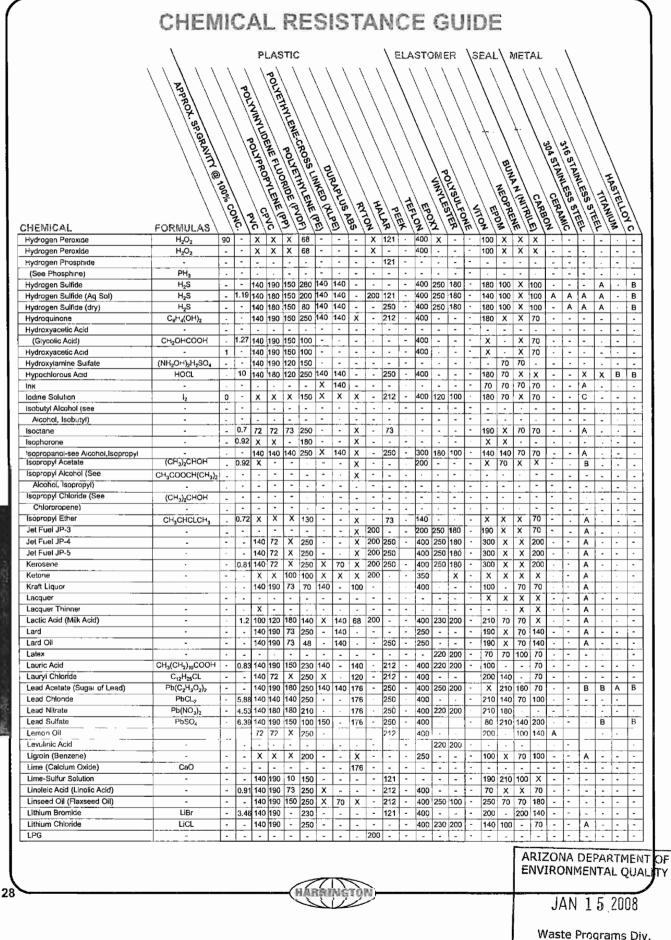
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CHEMICAL Gelatin Gin Glucoso Glucoso Glucoso Glucoso	FOR MULAS	· ·	polity Free Free	A WINYLIDE POLYPROT CY. 40	A POLYETTI ENE FLUGT POLYETTI ON 19	THE HAVENER POLYEIII	CROSS LINE	DUNED	- And Walk			le l			OME			EAL		MET		S 404	5.94			.\	
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Gin Gluconic Acid Glucose Glue	-	-		140	190	9 \ 180	250	<u>ē</u> /	<u>ل</u> ار ال	ິທີ \ 176		212	×`\'			1					<u>ا ه</u>	2	<u>ر ا</u>	1 4	<u>P/</u>	3\	<u>``\</u>
Glucose Glue	- C ₆ H ₁₂ O ₆		-	140	190	120	-	_	70	1/6 X		212	-	300 300	-		-	180	200	200	180	-	-	A -	A	-	-
Glue	C ₆ H ₁₂ O ₆	50	-	•		-	•	•		-	-		-	-	180	100	-	-	•	-	-	-	-	-	-	•	- 1
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Givcerine (see Givcerol)	0.11.00.0	-	•	140	190	120		-	-	-	•	-	-	250	-	-	-	r +	100	160	140	·	-	A	•	-	-
	C ₃ H ₅ (OH) ₃		- 1.3	•	-	100	-	• •	-		-	·	-	-	-	-	-	-	-		-	-	-	A	A	-	A
Glycerol (Glycyl Alcohol) Glycolic Acid (see	C ₃ H ₅ (OH) ₃		1.3	140	190	180	280	X	140	176	200	-	•	400	300	200	•	250	200	160	70	-	•	\vdash	-	-	A -
Hydroxyacetic Acid)	-	-	•	-	-	-		-	-	-	-	-	-	-	•	-		-	•	-	-	•	•	A	A	-	-
Glycols		-	-	140	190				140	<u> </u>		250	-	300	250		-				140	-	-	A	1.		1.
Glyoxal	онссно	30	1.26	-	-	-	•	-	-	-	-	-	-	120	•	•	-	-	-	70	X	-		Α		•	1.
Gold (Auric Cyanide)	Au(CN) ₄	-	-		-	•	-	-	•	-	-	-		250	-	-	-	180		140	140	-	·	-	-	-	•
Grape Juice	-	-	•	140		-	250		140		•	-	-	250	-	-	•	210	140	160	180	•	•	A	-	-	-
Grape Sugar	· ·	-	•	140		140		140		+				250	-	·	·	210		 i	180	-	•	A	·	· -	
Grease	-	•		· ·	-	-	•	70	140		•	-	·	•	-		-	200	X	+ + +	-			A	ŀ	ŀ	
Green Liquor (Alkaline pulp)		-	-	-	140		-	100	-	120	•	•	-	-	180	х	•	70		-	140		•	A	-	•	<u> </u>
Helium Heptane	He CH ₃ (CH ₂) ₅ CH ₃	•	-	140 100	190 150	73 73	150 250	-	-	X	200	- 250	-	-	- 200	- 180	-	-	150	-	150	-	•	-	-	-	
Hexane	CH ₃ (CH ₂) ₅ CH ₃ CH ₃ (CH ₂) ₄ CH ₃		0.66		72	73	250		70	x		250	-	300 300	150	_	•	340 340			180 180	H	•	- A	-	-	· ·
Hexene			0.67		X	x			-	Ê.	200	250		300			-	340	x	x	70	-	-	A	1		1.
Hexyl Alcohol (Hexanol)	C ₆ H ₁₁ OH	-	-		190		180	-	1.	-	-	73		250	-			250				1.				•	÷.
Honey		-	•		190			140	140		-	-		400	-	-					150	+ +	-	-	-	-	1 -
Hydraulic Oil		-	•	•	•	Х		•	70	-		•	-	300	250	200	•	250			160	-	•	A	•		-
Hydraulic Oil (synthetic)	-	-	•	-	-	X	-	•	•	-	200	-	-	300	250	200	•	250	X	X	X	-	•	-	-	-	•
Hydrazine	H ₂ NNH ₂	-	1		X	Х	200		140	+	-	-	-	250	-		-	х	70	X	70	-	•	A		-	-
Hydrobromic Acid	HBr	48	1.5		180		-	140			-	•		250	100			a danar art	140		X	· -	-	A	-	·	-
Hydrobromic Acid	HBr	20 48		140	180 180		250 250				•	-	•	250	100 100	120	-	190			X	-	В	C	X	-	ŀ
Hydrobromic Acid Hydrochlonc Acid (Dry Gas)	HBr	-	<u>.</u> .	140	100	100	2.50	140	140	-	X	-	•	400	-	120	-	190	140	×	×	•	-	С	-	•	-
Hydrochloric Acid	HCL	10	· .·	140	180	160	250	140	140			-			150	200	-	200			x	-	-		X		· ·
Hydrochloric Acid	HCL	20		140			250					•	-		120		-	200			180	-		x	<u>-</u>		+
Hydrochloric Acid	HCL	25	-	140	180	160	250			104		•			X	_		200			X		-	•	x	•	-
Hydrochloric Acid		-	-	•	-	-	•	-	•	-	-	•		-	•	-	-	•	-	•	·	-	•	•	•	-	
(Muriatic Acid)	HCL	37	1.19	140	180	160		140	140	68	х	212	-	400	х	150	-	200	100	X	X	A	С	X	X	·	·
Hydrocyanic Acid	· ·	·	-	-	-	-	•	•	•		•	250	•	-		-		-	-	-	-	-	-	-	•	-	-
(Prussic Acid)	HCN	- 1	•	<u> </u>	160				_	120		-	•	400	-	-	•	_	200			<u> </u>	Α	A	A	-	<u> -</u>
Hydrocyanic Acid	HCN	10			140	<u> </u>	250	140			-	•	•	400	-	-	•		200	1	200	Ŀ	·	A	•	-	<u> ·</u>
Hydrofluoric Acid Hydrofluoric Acid		10	-	100		150	250 250				-	-	-	300 300				150		-	- X	-	c	-	-	-	
Hydroflubric Acid	HF	30	-	100		120					-	212	-	300	X	X	-	150 200			X	В	<u> </u>	C C	+÷	+-	A
Hydrofluoric Acid	HF	40	-	68	x	<u> </u>	250	-			-	212	-	300	x	- X		200		Â	x	<u> </u>		c	t.	t÷	A
Hydrofluoric Acid	HF	50	•	68	X		250		1	-	-	212	-	300	x	Â		200		X	X		-	c			A
Hydrofluoric Acid	HF	65	•	x	X		200		140			•		250	X	X	•	100		X	x			•	-	•	1.
Hydrofluone Acid	HF	75	0.99	X	X		200		140		-	•		250	х	X		100		X	X	X	X	X	-	-	
Hydrofluosilicic Acid	H ₂ SiF,	-	_	73	/3		250			176		250	•	300	•	100	÷		140	4 i	170			Х		· ·	·
Hydrofluosilicic Acid	H ₂ SiF ₆	20	•	73	73		250			176				300		100	·		140	-	170	-		X	· ·	·	
Hydrogen	H	-	-	140	<u> </u>		280		-	176	200	250	-	300	-	-	-		250	- 	· ···	-	-	Α	-	-	-
Hydrogen Chloride Gas Dry	HCL.	-	1.27	+	h		180		1	-	-	-	-	300				70	-	70	-	<u> -</u>	-		-	-	1.
Hydrogen Cyanide	HCN		1 -	140			280			-		250	<u> </u>	300	-		-	· · · ·	h		-	-	-	A	-	-	<u> -</u>
Hydrogen Fluoride		-		X	X 160	73			- 140	68	x	73	-	250	-	-	-	180		X	X	-	-	X	-	•	+-
Hydrogen Peroxide	H ₂ O ₂ H ₂ O ₂	5 10	-		160		250					- 13	•	250 250	X	150			100		×	-	-	-	-	-	+-
Hydrogen Peroxide Hydrogen Peroxide	H ₂ O ₂	30	-	<u> </u>	73	73 X	-	140	· · · ·			-		250	X X	150 150		180 200			X	A -	A -	С	-		-
Hydrogen Peroxide	H ₂ O ₂	50	-	100		Â	· · ·	-			x			250		150		200	-	Â	x	<u> -</u>	-		-		+-

CHEMICAL RESISTANCE

ARIZONA DEPARTMENT OF ENVIRONMENTAL QUALITY

JAN 15 2008

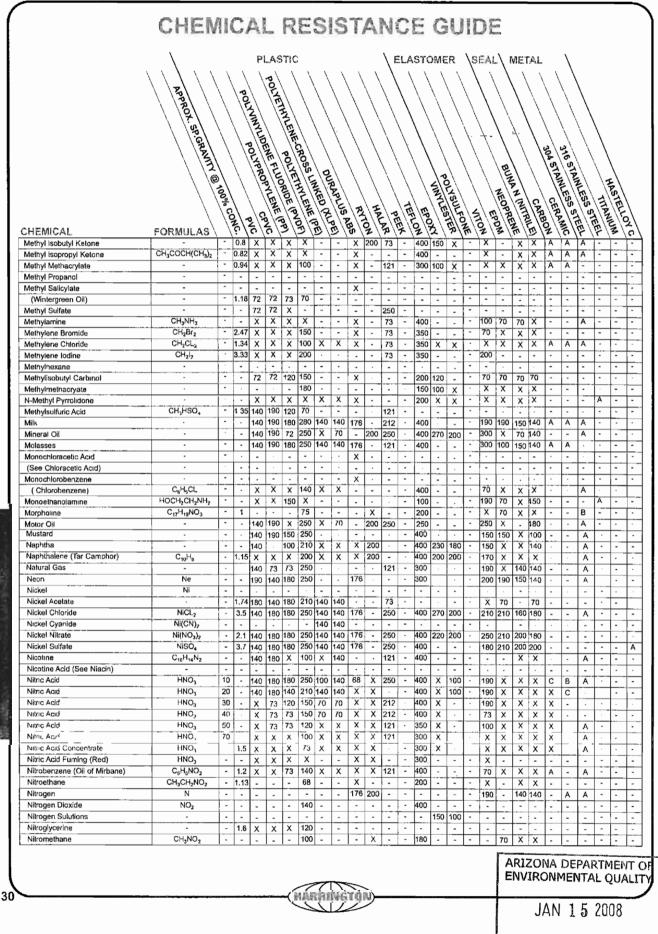


CHEMICAL RESISTANCE

Permits Section

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	APPROX SPGRANITY	2 100% CV.	POL: F. F.	WINYLINE PROV CF	POLYETT	HYLENER POLYEINE PYS	CROSS LIN LENE V	DUIE (XL.)	IRAPLUS AR	RN 1	HAL	PE	THE SEA	EPU	PUZ	NAME AND A DESCRIPTION OF A DESCRIPTION OF A DESCRIPTION OF A DESCRIPTIONO	Miles -	EPUT	BUNA	AN IMITAL	ST CARBO	ADA STAIN CERAN	318 STAINS STILL		HITTANIC	UASTELLO!	2	
CHEMICAL Lubricants	FORMULAS	<u> </u>	<u>;</u>	<u>ດ \</u>	<u>c</u> \	<u>ر</u> و	\ د <u>د</u>	<u>ም</u> \'		້ທ່\ -	2 \		*\	2\	2	2/3	m \?	2	3 \{	m /	<u>」</u> へ	Z	ন \ 	Ϋ́\ Α	7	3\	<u>0</u> /	
Lubricating Oil			·		190			_	x	-	200	_		350	- 250	- 200		180	- X	70	- 180	Ā	A	-	-	·	•	
Lye Solution (See Sodium	-	-	-	-	·	-	-	· ·	-	-			-	-		-	-			-	-	-	-		-	-	-	
Hydroxide & Potassium	-		· ·	-	-		-	-	-	-	-	-	•	-	-	-	-	-	-	•	•	•	-	•				
Hydroxide)	-	-	•	-	-	- 1	-	-	•	-	•	-	-	•	•••	•	•	-	-	-	-	-	-	-	-	•	-	
Machine Oit	-	-	-		190	120	210		•	-	-	-	-	400	·	-	-	140	-	-	140	-	•	A	-	-	-	
Magnesium Acetate	(MgOOCCH ₃) ₂	•	1.42		•	-	-	140	140	-	•	•	-	-	•	-	-	•	-	-	-	-	-			•	•	
Magnesium Carbonate	MgCO ₃	•	3	140			210		140		-	250	-		220			210				-	-	Α	-	-	•	
Magnesium Chloride	MgCL ₂	-	2.3		190						200		•		270		•			170		-	-	-	•	-	-	
Magnesium Citrate	MgHC ₆ H ₅ O ₇	-	-	140	180	180	250	140	140	-	-	-	-	400		•	_	210	180	-	180	-	-	-	•	-	-	
Magnesium Hydroxide	•	-		•	-	-	-	•	•			-	•	-	•	-		•	-	-	-	-	-	-	-	•	Α	
(Milk of Magnesia)	Mg(OH) ₂		2.36		1						200		-		270		•	230				Α	A	A	A	-	·	
Magnesiun Nitrate	Mg(NO ₃) ₂	<u> </u>	2.03	140	190	180	<u> </u>	140	140		<u> </u>	250	-	-	250		-	230		_		-	Α	A	-	-	-	
Magnesium Oxide	MgO	-	3.6	-	-	-	-	·	Ŀ	176	•	-	-	-	·	·	-	-	140	160		-	A	-	. :		-	
Magnesium Sulfate	-	-	-	•		-	•	-	•	-		•	-	-	•	-	·	•	•	-	•	•	•	-	·	-	A	
(Epsom Salts)	MgSO ₄	•	2.6		190				140		+	250	-				-	200		160		A	A	A	-	-	-	
Maleic Acid					190					-	· ·	212	<u> </u>		220			200	70		X	A	A	•	-	·	<u> </u>	
Maleic Anhydride					-	-	·	-	·	·	· ·	-	·	-	-	-		-	X	X	X	A	Α	-	<u> </u>	-	·	
Malic Acid (Apple Acid)	-	·	1.6		190		250		<u> </u> :	-	-	212	· ·	400	•	-	-	200	х	70	100	-	A	В	B	-	B	
Manganese Sulfate	MnSO₄	· ·	2.11		180			<u> </u>	-	-	<u> </u>	•	-	400	•	-	-	230	180	160		-	•	•	-	•		
Mash	-	ŀ	•	-	· ·	·	-	•	-	·	· ·	-	-	-	•	-	· .	-	•	-	-		-	-	•	-		
Mayonnaise	-	<u> </u>		-	·	•	-	<u> -</u>	-	-	<u> </u>		-	400	•	-	•	•	·	•	180	•	•	Α	•	-	-	
Melamine (Trizane)	-	<u> </u>	-	-	-	-	-	-	-	-	·		·		-	-	•	•	-	-	•	-	-	-	-	·	-	
Mercuric Chloride	HgCL ₂	·	5.4		190					X	<u> ·</u>	212	•	400	220		-			140		-	-	X	Ŀ		-	(L
Mercuric Cyanide	Hg(CN) ₂	·	4		180			1		х	-	212			· ·	-	-	70	70	70	140	-	•	A	·	-	-	
Mercuric Nitrate Mercuric Sulfate	Hg(NO ₂) ₂	-	4.3 6.47	140			250		-	-	ŀ	-	-	- 300	-	-	-	70	-	70	- 70	-	•	-	<u>·</u>	-	ŀ	
	HgSO ₄			140	100		230	1	•		· · ·	212			- 220		-	70 200	70				•	-	·	-	-	
Mercurous Chloride	Hg ₂ CL ₂	<u> </u>	4.79	140	190	120	250	- 1	•		-	212	1	400	- 220	200		200				•			- B		c	
Mercurous Nitrate	HgNO ₃		13.6	1	190		1		140	88		250	1					200		100		-	-	A	A	A	A	i 1
Mercury (Quicksilver)	Hg	-	1.02			100	2.5	. 140	140	X	+ .	- 200	•		270 X	200 X		200			100	•	·	<u> </u>	<u> </u>	1	<u>^</u>	1
Methacrylic Acid Glacial Methane (Methyl Hydride)	СН,	<u>+ :</u>			72	120				- ·	<u> </u>	212	-		250		-	- 300			180		<u> </u>	A	<u> </u>	<u> </u>		
Methanesulfonic Acid	CH ₃ SO ₃ H	-	1,48		1.	-	200	-	-		+	-	-		200	-	-	300	-	200	100	-	<u> </u>		•	· ·	-	
Methanol (See Alcohol, Methyl)	0130031	+ -	0.8	ł	210		250		140	x	+	250	·	400	150	-	-	X		140	140	•	-	A	A	+.		
Methoxyethyl Oleate	-	<u> </u>	0.9	· · ·	1.		-	<u> </u>	-	x	+ .	73	<u> </u>				·	÷				-	-	1.	1.	· ·		i 1
Methyl "Cellosolve"		+		X	X	73	250			x		212	-	400	•	-		x	70	70	x	-	-	Â	-	-	-	
Methyl Cellosoive Methyl Acetate	CH ₃ CO ₂ CH ₃		_			68	100	-	-	x	L		-		•	-	-	Ŷ	-	x	x	-	-	A			-	
Methyl Acetone	-		1 -		+	-	-	- 1		x		- 1	-	-	-	-		x		x	X	-		A		· ·		
Methyl Acrylate	-	1 .	+-		+ -		100			X	-	+ .	-	300	-	-		x	70	x	X	-	-	A	-	<u>+-</u> -		
Methyl Alconol	СН,ОН	- 1	· ·	14(210							250	- 1		150		-			140		A	A	A	-	-	-	
Methyl Benzene (See Toluene)			1	•				- 1		-	-	- 1	•	-	•	-	: -		-		1	-		-	-	+-	•	
Methy Bromide	CH ₃ Br		1.73	x	X	X	250	x	X	X		250	i .	350	•	•	-	180	х	X	X	•		-	•		-	
Methyl Butanol (See		-	•	•	1 -				•	x	-		•	•		-	-	•			•		•	•	· ·	•	•	
Alcohol, Amyl)	-	-		-	1	-	-	.	•	•	•	•	•		-	-	•	-	•			-	Í	-	-	†		
Methyl Butyl Ketone	CH ₂ COC.H ₂		0.83	×	Х	x	10		•	X		•		400		۰.	·	x	70	x	Γy -	A	A	A		·	•	
Melhyi Chionde					-	-	•	•	Ţ.	х	Γ.	250	. (-	•	÷		-		•		-		· 1			•	
(Chloromethane)	CH₃CL	-	1.3	Х	X	X	250	x	X	Х	_	-	-	400	Х	Х	-	150	х	X	X	~	-	A	A	-	С	
Methyl Chloroform	-	-	-	-	•	-	-	-	-	Х	-	11	-	-	•	-	-	-	-	-	-	-	-	-	-	-	-	
(Trichloroethane)	-	-	•	Х	X	Х	120	- 1	-	-	-	-	-	-	X	Х	-	80	Х	X	X	-	-	Α	-	-	-	
Methyl Ether (See	-	-	-	-	-	-	-	•	-	-	-	-	-	-	-	-	-	-	•	-	-	-	-	-	-	-	-	
Dimethyl Ether)	-	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	•	-	-	-	-	-	-	-	-	-	
Methyl Ethyl Ketone (MEK)	CH ₃ COC ₂ H ₅				Х	73	X	X	X	X	_		-	-	100	X	•	Х	70		X	A	A	-	В	-	-	
Methyl Formate	HCOOCH ₃	<u> </u>	0.98	-	-	-	-	-	•	X		73	-	-	-	-	-	Х	100	70	X	-	-	-	-	-	-	
Methyl Isobutyl Alcohol	-	·	-	-	-	-	-	-	-	X	-	-	-	-	180	120	-		•.	-	•	-	-	-	-	•	-	
																				A El	RIZ	ON RC	ia i NM	DEI	PAR	RTM L Q	EN	
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Permits Section



CHEMICAL RESISTANC

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	APPROX. SP.GRANITY @ .		POL	NINNIN BOLY	OLYENE	THYLENEW POLYEII (PYLE) X	rROS) -					304 9	316			\ \		
CHEMICAL	FORMULAS	100% CUT		PROF CF	LUCYLENE	YEIL PROF (PAC	S LINE INE I	DUI - WKED (XLI	HAAPLUS AL	RY 12	HAL	AL AR	TERE	EPUN	VINILES	NUSULFUI	VII	EPE	BUND	N N INTE	CARBO	TAN CERM	316 STAIN ESS STE	INLESS ST	TITAN	HASTELLO	inte	
Nitrous Oxide	N ₂ O			100				-		-	-	121	-	400	-	-	-	80	-	X	х	-	A			-	-	
Ocenol (Oleyl Alcohol)		-	140	100 X	140 X	100 X	- 250	-	•	-	-	-	-	400	-	•	-	- 68	x	-	- 70	-	- A	:-	+-	-	-	
Octanoic (Caprylic Acid)	CH ₃ (CH ₂) ₆ COOH		0.91	-	·	-	250	•	-	x	-	-	-	400		-	-		-	-	X	•	A	-	-	-	-	
Octylamine	CH ₃ (CH ₂) ₇ NH ₂	-		-	-		-	-	-	-	-	-		-	-	-	-	•	-		-	1	-	-	-	-	-	
Oils Oils, Aniline		-	-	140 X	190 X	120	250 120	140	-	140	-	-	-	400 250		200	-	x	- 140	- X	100 X	- A	- A	-	+	-	- A	
Oils, Anise	-	-	-	<u> </u>	-	-	-	-	-	-	-	-	-	300			•	-	-	-	-	A		-	-	-	-	
Oils, Bay	-	-	-	-	•.	-	-	·	70	-	-	-	-	300	-	-	-	140		-	-	A	A	-	-	-	-	
Oils, Bone		-	-		- *		-	•	70 70	-	+ -	·	-	300			-	140			-	A		-		-		
Oils, Castor Oils, Cinnamon	-	-		-		-	-	-	70	-	•	-	-	300 300		-	-	140 X		•	-	A	-	÷	-	• ·	+	
Oils, Citric	-	-	-		-	72		-	70	-	-	-	-	300		-	-	140		-	-	Ā		-	-	-	-	1
Oils, Clove	-	•	-			72	-	-	70	-	-	-	-	300			-	-	-		140	-		-	-	-	-	
Oils, Coconut Oils, Cod Liver		-	-	140	72		250	. .	70 70	÷	÷	<u>-</u>	<u>-</u>	350	-	-	-	140		100	-	A		-	·	-		
Oils, Coa Liver		-	<u> </u>	- 68	- 68	72 100		250	<u> </u>	- X	<u> ·</u>	·		300 250	-	-	-	140 140		100 X	140 140	A	A	·		-	-	
Oils, Cotton Seed	-		-	140	-			250	-	x		-	-	300	1	-		140		x	180	A		-	-			
Oils, Creosote	-	-	•	X	X			-	70	х	-	-		300				73	Х	х	73	A	A	-	-	-	•	
Oils, Crude Sour	· ·	-	•	140		73	-	250	70	-	÷	·	ŀ			200	-	180		-	70	A		•	·	-	·	
Oils, Diesel Fuel Oils, Fuel	-	-	-	72 140		73	-	250 250		x	-	-	·		250 250	180 180	•	140 140		X	100	A	-	+·	+·	-		
Oils, Linseed	-	-		140	1 +	180		250			<u> </u>	-	-		250		-	220		70	180	Â		-	-	-	- <u>·</u>	
Oiis, Mineral			•	140	-	100	-	250	-	-	-	-	-	300	270	200	•	300	Х	70	140	A	A	-		-	-	
Oils, Olive	· · · · · · · · · · · · · · · · · · ·	-	-	140		180	-	250		X	· · ·	<u> -</u> -	-		220		•	150	-	140		1	-	-		-	<u> </u> .	
Oils, Pine	·	-	· ·	140	· ·	- 150	- 250	-	70	<u>×</u>	<u>-</u>	·	· ·	300		150	-	70	140	-	70	A		- A	- A	-	· -	
Oils, Silicone Oils, Vegetable		-	-	-	*	73	250		70	<u> </u>	·	250	+		90	200		200	-	70				A	+	+	·	
Oleic Acid (Red Oil)		-	0.9			73	250					212				200		190		70	100			A		A		
Oleum (Fuming Sulfuric Acid)	H ₂ SO ₄	100	•	X			X	X	X	X	·	73	-	200		X	-	73	X	X	X	·		A		A	ŀ	
Orange Extract		+		73		- 150	-	-	_	-	ŀ		-	-	-		-	-	150	-	-		· ·	A	·		<u> ·</u>	
Oxalic Acid Oxygen Gas	O ₂	-	-			150		- 140	<u> </u>	110 150		121 250		400	270	200			200			+-	<u>·</u>	A	A	A	-	1 18
Ozonized Water	0 ₂	-	•	73		X			X	X		250		400		-	-		180			-		A		A	4	1 📕
Palmitic Acid		-	0.84			180			-	_	-	212	2 -			200		190	70	Х	100		<u> </u>	Α		-	-	
Palmitic Acid		10	A.m			180			70	-	-	-	-		_	200		190		X	100		ŀ	A	-	-		
Paraffin Pentane (Amyl Hydride)	- CH ₃ (CH ₂) ₃ CH ₃	70	· ·	120) X -	120	•	X		x	÷	121		400		-	-	250 100		73 70	140	-	+-	A		A	· ·	
Peracetic Acid	CH ₃ COOOH	ŀ	•	X		-	-	70		^		+:	-	400				100			- 1	<u>.</u>	1:	t-	1.	tî	1	
Perchloric Acid	HCLO4	10	18		140	0 100	· · · · · ·	•	-	-	-	121	1 -	400	-	·	2	70	70		x	-	•	A	-		•	
Perchloric Acid	HCLO ₄	40	-	X			140	-	-		1 -	121	4 -	400		X	·	180			X	·	·	B	+ -	+ ·	·	
Perchloroethylene Petrolatum (Petroleum Jelly)	CL2CCCL2	70	16	-		X 120	150	-	×	X 176	-) -		- 300	120	X		200 100		X	X 100	ŀ.	+ .	A		· ·	· · ·	
Petroleum (Sour)		-	-			0 73		×	70) 121	1 -		250	200	-	180		140 X	-		-	- <u>-</u>	<u>+ ·</u>	+	+ · ·	
Petroleum Oils	·		· ·	140	150	73		1	70			121			250	-		180	<u> </u>	100						<u>† .</u>		
Phenols (Carbolic Acia)	C ₆ H ₅ OH	•	1.1	-	12	73	200	X		×		121	-	350	X	x		200	70		X	A	x	Α	1 ·	A	f . '	
Phenyl Acetate Phenylhydrazine	C ₆ H ₅ OOCCH ₃	100	1.0	×			-	×	-	X		-	-	-	-		-	X	•	X	X	-	-	-	-		-	
Phenymydrazine Phosgene Gas	C ₆ H ₅ NHNH ₂ COCL ₂	-	•	1 x	· · · ·	X	100 X	X		X	-	73	-	400 350	-	-	-	180 X	X	X	X	-	+·	-	-	-		
Phosgene Liquid	-	•	1.3	<u> </u>		X	-	x			-	-	<u> </u>	-	-	-		x	-	x	x	E	1.	-	† -	1-	-	
Phosphoric Acid	H ₃ PO ₄	-	1.8	140	190	0 180		140	140		x	250	- (400	100	200			100		-	-	-	A	-	-	-	
Phosphoric Acid	H₃PO₄	10		140	190	0 180	140	140	140	68	X		-		_	200	-		100		x	-		A	+	-	-	
Phosphoric Acid Phosphoric Acid	H₃PO₄	20	-			0 180 0 180) 140) 140					1	_	200	-	200		70 X		-	-	A		-	•	
	H₃PO₄	140		1	1190	U 10U	200	140	<u>4_140</u>		<u> </u>	250	68	1300	100	200	-		RI	ZO			PA NT/		MEN			
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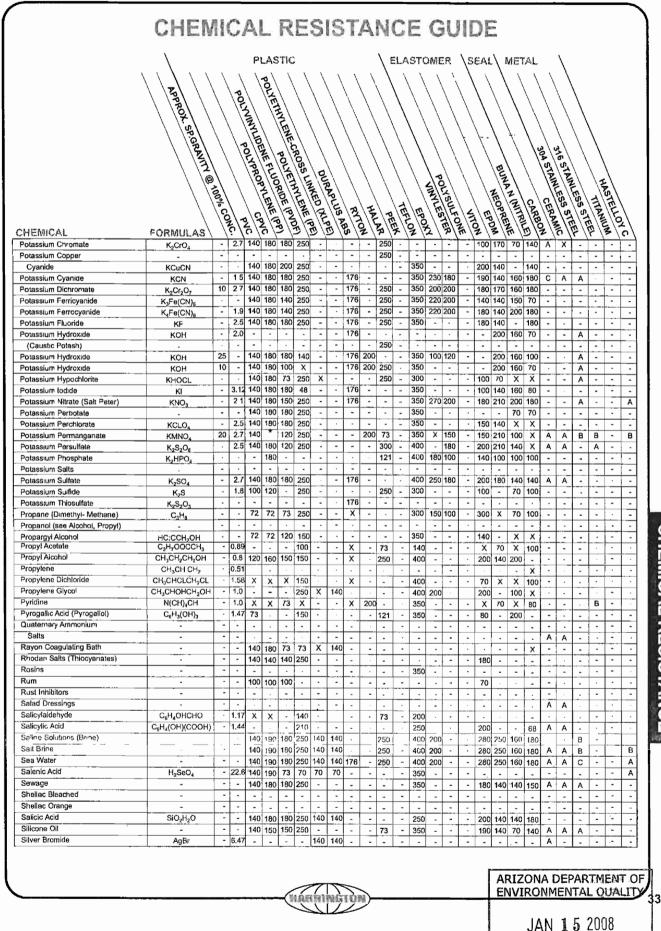
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	2	100%		2R01	- UC!	VEIL	SLIN	DUNED	APLUS AL						POLIN	NYSULFUI			BUNG	AN INITAL		STAILS CT	316 STAIN SIS SIC	WLESS STR	11	ILSTELLO	\
CHEMICAL	FORMULAS			2/2	IF I	(PV F)			US AC	RAIS	- HALE	PEC	TEFE	EPON	PUTTES			EN EN EN	NEOPRE	ITHIN	CARB	2014	5	SIL	TITAM) 2 2 0
Phosphoric Acid	1131 04	~~	-		190	180			70	-	Х	250	68	350	100	200	-	200	70	X	^	-	-	A	-	-] -
Phosphoric Acid	H₃PO₄ H₃PO₄	85	-	140	-	180	200		70	X		250 -	-	350	100	200		200	70	X	X	-	-	A	-	-	-
Phosphoric Acid Phosphoric Acid Crude	H ₃ PO ₄		1.8 1.83	-	-	-	•	-	-	X	X X	-	-	350 250	-	-	-	100 100	70 70	X	X X	-	-	A -	-	:	-
Phosphoric Acid Crude Phosphorus Oxychloride	POCL ₃		1.63	- 73	73	- X	- 200	x	- X	x	Î	-	•	250 250	x	-	-	-	-	X	-	-	-	×	- X	-	E
Phosphorus Red	-	-	-	70	68		250	-	-	-	~	-	-	350	-	X	-	-	-	-	-	-	-	A	-	-	-
Phosphorus Trichloride,dry	PCL ₃		1.57	х	x	X.	250	х	х		200	-		300	-	-	-	150		х	х	-	-	-	-	-	•
Phosphorus Yellow	-	-	•	68	68		250	•	-	-	-	73		350	-	-	-	-		: -		-	-	<u> -</u>		-	•
Photographic Developer	-	-	-	140 140	-		250 250	X X	140 140	-	•	- 121	-	350 400	-	-	-	190 180	-	100 200	- 200	A	A		-	-	-
Photographic Solutions Phthalic Acid		-	-	140	- 190	150	200		140	-		-	68	400	-	-		100	· · ·	200	200		<u> -</u>		÷	t.	
(Terephthalic Acid)	C ₆ H ₄ (COOH) ₂	-	1.59	x	x	x	200	-	-	-	-	-	-	-		-	-	140	100	X	х	-		A	A		E
Phthalic Anhydride	C ₆ H ₄ (CO) ₂ O	-	1.53	X	х	х	-	-	-	х		-	-	350	220	200	-	-	-	-	-	-	-	•		-	
Pickle Brine	-	-			180	-	250	·	-	-	•	-		-		-	-	70	100		100	-	-	-	-	•	
Pickling Solutions	-	ŀ	•		180		250		140	-	-	- 70	_ `	400	-	-	-	-	X	х	X	-	-	-	-	·	
Picric Acid	C ₆ H ₂ (NO ₂) ₃ OH	-	1 77		X	73	70	x	100	-	-	73	•	400	-	100		190 70	140 X		X 70	-	•	A	-	· _	4
Pine Oil Plating Solutions	-	-	1.48	· ·	-	-	-	-	-	X	•	-		400 300		150	· ·	-	× -	X	-	-	-	<u>A</u>	-	·	
Plating Solutions, Antimony		-		140	190	250	240	140	- 140	-	-			300	•	-	-	- 140	-	- 100	- 100	-		A	•	-	
Plating Solutions, Arsenic	-	·	-		190			140		•		-		300	•	-		100			100	-	-	A		-	
Plating Solutions, Brass		-	-	(140	-		121		300	-	-		150			180	-	х	в	-	-	
Plating Solluions, Bronze		-	•				200		140		-	121	-	250		-	-	70	70	100	-	-		A	-		
Plating Solutions, Cadmium	-	·	-	140 140	180 180			140 140		-		121 121	-	250 250	-	-	<u> -</u>	180 250	70	200 100	180 X		•	A	•	·	+
Plating Solutions, Chrome Plating Solutions, Copper	-		-	140		X 180		140 140			-	121	-	250 250	-		<u> </u>	250 180			180	-	-	<u> </u> .	· -		
Plating Solutions, Copper Plating Solutions, Gold	-	-	-	100				140		-		121	-	250	-	-		180			180	-	•	-		•	1.
Plating Solutions, Indium	-	-	-	140		120		140	140	•	-	-	•	350	-	-	-	100	•	130		ŀ	-	·		-	1
Plating Solutions, Iron		•	-	140		140		140		-	-	-	-	400	-	-	-		-	X	180	•	•	ŀ		-	
Plating Solutions, Lead	-	•		140		140		140		-		121 121	-	350	•	•	-	180 180		100			-	<u>-</u> -	<u> -</u> .	-	╀
Plating Solutions, Nickel Plating Solutions, Rhodum		1.	-	140				1 <u>40</u> 140		•		121 121	-	350 350	•	-	-	180	70 -	-	180 180	· ·	•	A .	· ·	-	+
Plating Solutions, Rhodium Plating Solutions, Silver	-		-	140				140 140		- "		121		350	•	•		180		100		-	-	A	+	+:	+
Plating Solutions, Tin		-		140	-			140		-		121		350	-	•	-			100		-	·	<u> </u>	С	-	t
Plating Solutions, Zinc	•	•	-	140	180	180	250	140		·	-	121	-	350	-	-	-	180	70	200		-	-	· .	•	-	
Polyethylene Glycol		ŀ	-		180			· ·	-	•	-	121	-	350		-		200	100			-	-	Ŀ	-	-	
Polyvinyl Acetate		-	1.19	1 -	<u>.</u>		250	•		-	•	-	•	350	150	100		68		200	68	<u>⊦</u> -	-	ŀ	-	-	╀
Emulsion Polyvinyl Alcohol	- (CH ₂ CHOH) ₂	1-	+-	- 140	- 140	-	250	-	-	68 -	-	•	-	- 400	-	- 100	-	- 140			- 100		-	ŀ-		-	╀
Polyvinyi Alcohol Potash (Potassium			1.	-	-	-		-		-	-	-	-		-	-	1.	-	-	- -		-	-	1	-	-	+
(Carbonate)	K ₂ CO ₃	•	-	140	180	180	250	-	-	176	-	•	-	400	100	150	-	200		-	150	-	-	-	-	-	T
Potassium Acetate	KC ₂ H ₃ O ₂	-	1.6	70	180	100	250	-	-	-	-	•	-	400	•	-	•	68	100	-	68	-	-	Ē	-	-	T
Potassium Alum	•	1-	·	140		-	-	-		•		-		-	-	-	·			-		-	-	•	-	-	1
(Aluminum Potassium Sulfate)	· · ·	1-	·	140	180	180	250	140		1/6		250	-	400	270	200		200	180	160	180	· .	·	ŀ	•	•	╞
Polassium Bicarbonate	КНСОа	1.	22	140	200	180	250	-		176	-			-	100	150		200		- 160	- 70	- A	A	A	·	+	+
Potassium Bichromate		†.	<u> </u>	· ·			+	· ·	-		•	212	-		.00	- 00	Ľ	200	1.10			Ê	Ê	1 🗍	1	ť.	
(see Potassium Dichromate)	K ₂ Cr ₂ O ₇	-	2.7	140	180	180	250	-	-	-	-	-	-	300	200	200	1 -	250	170		180	-	-	-	-	-	╀
Potassium Bisulfate	KHSO₄	-	-	140	180	180	250	-	-	176	-	212	-	300	-	-	1-			140		-	-	-	-	-	1
Potassium Bromate	KBrO ₃	-		140				_		176	•	-	•	350	-		-	220	-	140	180	-	-	-	-	-	T
Potassium Bromide	KBr	30	2.7	140	180	180	250	-	-	176		250	-	300	220	200	-	200	150	160	180	-	-	Ŀ	-	-	Í
Potassium Carbonate	-	-	-	-	-	-	-		-	-		-	-	-	-		-	-	-	-	-	-	-	<u> </u> ⊷		-	+
(Potash)	K ₂ CO ₃	-		140	180 180					176 176	_	250 250	-	300 300	100	150		200		160 100		-	-	A -	- A	-	+
Potassium Chlorate Aqueous	KCLO ₃	30																									

ARIZONA DEPARTMENT OF

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Waste Programs Div, Permits Section

32



CHEMICAL RESISTANCE

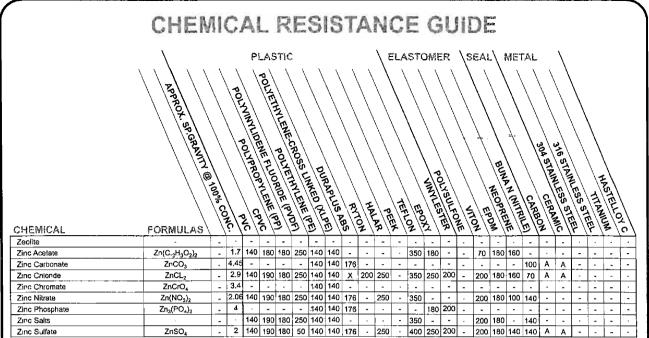
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CHEMICAL	FORMULAS	\square	<u> </u>	5	<u>n/</u>	3/	5	<u>Ď</u> /	Ð/	<u>% /</u>	2\	2/2	*/		2/	100	fn	2	3	m	10	2	13	11	17	Z	\sqrt{c}
Silver Cyanide	-							140	140	-			-	35Ò	•	-	•	140	140	70	^	•	-	· ·	-	•	+
Silver Nitrate	AginU ₃	-								-	-				-		-		_	-	1	A	-	-			+
Silver Sulfate	Ag ₂ SO ₄			_		<u> </u>				-		250			-							1.	-	1-		-	$^+$
Soap Solutions	-	Ŀ					280	х	140	-				_	-	-	·			<u> </u>		· · · · ·	Α	A	-	-	Ť
Soda Ash (Sodium Carbonate) Sodium		- -		140		180			·	176	-			400	100		•			<u> </u>	· · · ·	+	·	A	-	•	+
Sodium Acetate	NaC ₂ H ₃ O ₂	-	1.5	140	<u> </u>	- 180	- 250			176				350	220		-	-		-	-	- A	A	A	1.	-	+
Sodium Alum	-	-	•	140	180	778	250			-	-	_	-	350	-	-	-	210	160	140	180	-		-	-	-	1
Sodium Aluminate Sodium Benzoate		•	•	-	-	-	-	140	-	176		-	•	-	-		-	_		140	-		A	1 -	•	Α	-
Sodium Bicarbonate	NaHCO3	-	2.2														-	· · ·		-	-	_	- A	-	-	- A	+
Sodium Bichromate (see	-	-		-	-	-		-	-	-	•	-		-	-		-	~	-	-		-	-	-	•	•	1
Sodium Dichromate)	Na ₂ Cr ₂ O ₇	-	-	-	•	-	-	-	-	-	-	-	-	-	-	•	•	•	•	-	ŀ	-	-	-	•	-	ļ
Sodium Bisulfite									-		_				-	200	-	<u> </u>	· · · · ·		+			-	-		-
Sodium Borate (Borax)	Na ₂ B ₄ O ₇	-	1.7	-		_		_	_			-		_					·	-	-		A	1:	1.	A	t
Sodium Bromate	NaBrO ₃	-	3.34	-	•	-	·	140	140	176	-	-	-	-	140	-	•	-	-	-		•	•	•	•	-	
Sodium Bromide			3.2		_				•	176	-				<u> </u>		-	· · · ·	-	70	70	-	·	-	-	A	+
Sodium Chlorate		<u> </u>	<u> </u>		<u> </u>			-	· ·						100			_			+	-	-	1-	<u> .</u>		_
Sodium Chloride (Salt)	NaCL	•	2.2	-	-	180			140	<u> </u>			-	<u> </u>	270		-		-	_	-			-	1-	B	Ť
Sodium Chlorite	NaCLO ₂	25	-	140	180	73			•	•			-	400	·	-	-	x	x	•	x	•	-		i.	· ·	
Sodium Chromate			<u> </u>	-						-	_				-		· ·	<u> </u>			-	-	-	ŀ		-	+
Sodium Dichromate	Na ₂ Cr ₂ O ₇		2.5	<u> </u>	<u>+</u>			-			_		-	-	· · · · · · · · · · · · · · · · · · ·	inter-		<u> </u>	<u> </u>	-	-	-	· ·	+:-		1 ^	+
Sodium Ferricyanide	Na ₃ Fe(CN) ₆	-	15	<u> </u>				<u> </u>	•	176	•	•	-				-	140	140	-	70	•	•	A	-	-	
Sodium Ferrocyanide		-	<u> </u>	<u> </u>					ŀ.			-				200	ŀ			-	-	ŀ	-	-	-	•	+
Sodium Hydrosulfide	NaF		2,6	140	180	- 100	250	-	-	1/0			-	- 350		-	-	140	140	1.	1 <u>/0</u>	÷	-	1.	1.	-	+
Sodium Hydrosulfite	Na ₂ S ₂ O ₆	-	-		-		-	-	-	-	•	•		-	-	•	•	-	-	-	-	-	-		· ·		-
Sodium Hydroxide	NaOH		-	· ·		_						250	-	1			<u> </u>				-	-	-	A	-		_
Sodium Hydroxide		-	-		+			-				- 212											·		-		+
Sodium Hydroxide	r kinang A gNO - 4, 22 40 100 100 100 - 5 al 10 al 5 al.																										
Sodium Hydroxide	Satis - <td>Ţ</td>		Ţ																								
Sodium Hydroxide Conc. (Caustic Soda)	C-grante ApCN 1. 588 140 100 600 220 140 140 2 528 50 50 1 160 140 140 140 140 140 140 140 140 140 14	+																									
Sodium Hypochlonte (Bleach)			-										-				-			-			1.		-	+-	+
Sodium Hypochlorite Conc	NaOCL	15	-				100	-	-	x		-		300		•	•	180		70	_	•	-	·	•	-	+
Sodium Hyposulfate		-	•	-	-	-	h						-		-	•	•	-	·	-	-	-		ŀ	•	•	-
Sodium lodide Sodium Metaphosphate		-		140	180	150		-	-	<u> </u>	•		•		ŀ.	.	-		-			-	-	- A	-	-	+
Sodium Metasilicate		1						<u> </u>		-	-	-				-	•		•	-	- t	-	1		•	•	+
Sod-um Nitrate	NaNO ₃	•		140	180	180	250	4	· · _			•	·			-	·			_		÷—	-		•	•	Ţ
Sodium Nitrate	NaNO3		2.2					-	-	176		250	•	· · ·	270	200	-	200	-		X	A	A	A	+	•	+
Sodium Perborate	NaBO ₃	-							-	-	•				-			180	-		200	-	-	A	+	-	-
Sodium Perchlorate	NaCLO ₄		<u> </u>	140	180	180	250	-	-		-			350	-	-	<u> </u>	•	-	-	70	-	-	-	-	-	
Sodium Peroxide				<u> </u>					-	<u> </u>					-			-	<u> </u>	<u> </u>	<u> </u>	_	-			-	4
Sodium Phosphate Acid	- Na2MPU4	-	1.7	140	180	140	280	-	-	-		250	-		-	-	-	200	170	140	140	-	-	A .	-	-	+
(Mono Basic	NaH ₂ PO ₄	-						-		-		250	-	-	-	-	-	200	170	140	140		-	A	-	•	\dagger
Sodium Phosphate Neutral (Tri Basic	Na ₃ PO ₄								-	-	200	_	-			-	-						-	-	-	-	1
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CHEMICAL	FORMULAS	Con		NC CP	EPT	PUP -			SAC	RN 12	HALL	PEEE	TEFLS	EPON	15		VIIC	EPU	NEOPREIN	TRIE	CARBO	RAIN	SIC	SIC	TITANIC		
Sodium Polyphosphate		- 1	-	140	180	180	250	120	- (-	200	-		350	-	-	-	200	150	140	140	A	A	A	Ì-Ì	1-1	
Sodium Silicate (Water Glass)	Na ₂ OSiO ₂	-	-			180	250		•	176	_	250	•		220				200		140	Α	Α	Α	•	-	·
Sodium Sulfate	Na ₂ SO ₄	-	2.7								200		•		270			<u> </u>	140		140	A	A	A	-	·	-
Sodium Sulfide Sodium Sulfite	Na ₂ S Na ₂ SO ₃	50	1.4 2.6			180 180	250 250		140 140		200	250 250	•	350 350		150 200			140 140	_	140 140	A	A	A	- A	•	- B
Sodium Sume	Na ₂ SO ₃ Na ₂ B ₄ O ₇	-	2.6						140			250	· ·	300	-	200				100	70	Å	A	Ā	-	-	-
Sodium Thiocyanate	NaSCN	-	-	140		140			140		-	-	-		200	180	•	180	_	-	100	A	A	-	-	-	-
Sodium Thiosulfate (HypO)	Na ₂ S ₂ O ₃	-	1.7	140		180	250		140	176	-				150		-	200	_	160	200	Ă	A		в	•	•
Sorghum	•	-	-	-	-	-	-	-	-	-	-	-	-	-	•	•	-	-	-	-	-	-	-	-		-	•
Soy Sauce		•		-	•	-	-	-			. :-	-	-	-	-	-	-	-	-	-	-	-	-		•	-	
Soybean Oil	- Na SoCi	-	-	140 140		180 150	250		70	•	-	- 250	•	250	- 250	-		200		70 X	140	A	A	A C	- X	-	•
Stannic Chloride (Tin Chloride) Stannic Salts	Na ₂ SnCL ₆		2.3	140		150 150	280 280		-	-	-	250	-	_	250 250		-	200	100 100		140 140	A -	A -	с с	x	-	-
Stannic Saits Stannous Chloride (Tin Salts)	SnCL ₂		-	-	180		250	<u> </u>		-	-	250			220		-		100		140	-		c	Â		-
Starch (Amylum)	-		1.51		180		250		140		-	121	-	350				_	140			A	A	A	-	· ·	•
Stearic Acid	-			140			250		-	176		121			220	200	-	80	X	70	200	-	-	A	A	-	•
Stoddard Solvent (Dry	-	•	-	-	-	-		-			•	•		-	-	-	-	-		-	-	-	-	-	-	-	·
Cleaning Solvent)		•	-	х	х	70	250	<u> </u>	•	x	200		-	300		-	•	180		х	180	Α	A	A	В	-	•
Strontium Carbonate	SrCO ₃	·	3.62		•	-	-	-		-	-	-	-	-		-		-	-	-	-	-	-	-	· -	-	·
Styrene	C ₆ H ₅ CH:CH ₂	-	0.9	x	X	X	200	-	-	<u>×</u>		-	•	250	100	180		Х	X -	<u>X</u>	<u>×</u>	-	-	A	÷	+	-
Succinic Acid (Butaned- ioic Acid)	-	-	- 1.55	140	. 170	150			-	-	-	. 212	-	200		-	-	- 70	- 70	-	70	-	-	· A		· -	-
Sugar Solutions		-	-		200	_		-	-	-	-	-	-	-	220				140			-	-	<u> </u> ^	-	-	-
Sulfamic Acid	HSO ₃ NH ₂	25	2.1	-	180	X	X	-	•	176	•	•		•	100		·		-		-	ŀ			-	ŀ	•
Sulfate Liquors (Paper Pulp)			•	140	190	150		-	· ·	-	-	73	-	200		-	·	80	70	140	80	-	-	A	-	Ŀ	·
Sulfonated Detergents	· S		-	140	190		200		-	-	-	-	-	300		-	ŀ	100	-	-	•	·		-	-	-	<u>-</u>
Sulfur	S SO ₂	0	÷	-	73	•	248	70	70	68 X	- 200	212	•	3,50	<u> </u>	- 200	-	73	X	80	X	•	-	A _	A	·	A
Sulfur Dioxide Sulfite Liquor (Sulfite		<u> </u>		-	-	-	-	-		- X	- 200	-	-			- 200		-				·	1	1	-	-	-
Paper Process)	-	-		140	180		250	-				73			150	200		140	140	70	70_			A			•
Sulfur Chloride	S ₂ CL ₂	-	1.69	140		X	250		-			73	-	-	x	x	-	180	х	X	x	-	-	С			-
Sulfur Dioxide Dry	SO ₂	-	•		180			70	70	x	-	212	-	300		200	· · ·		70		x	•	-	A	-		-
Sulfur Dioxide Wet	SO2	· .	· ·		150				70	×	-	121	-	300		-	-		140		X	~		A		-	<u></u>
Sulfur Slurries Sulfur Trioxide Dry	- SO3		•		180 X	X			· · ·	-				350		-	-		X		X	-		A	÷	1:	$\left \cdot \right $
Sulfuric Acid	H₂SO₄	10	-	X 140			X 250	140	140	176	200	- 212	-	-	X 100	200			X 140	X 100	X 100	- A	- A	B	- X	×	A
Sulfuric Acid	H₂SO₄ H₂SO₄	30										212			100				140				17	x	Â	x	A
Sulfuric Acid	H ₂ SO ₄	50	-						140			212			100		-	200	140	100	100	-	-	X	x	X	A
Sulfunc Acid	H₂SO₄	60	-	140	180	140	200	X	70	x	200	212	-	350	*	120		200	140	100		•	-	X	X	x	A
Sulfuric Acid	H ₂ SO ₄	70			180				70			212		350		x	-		140		x	-	•	X	x	x	В
Sulfuric Acid	H₂SO₄	80		t ·	180		200	-		X		212		350		X	·		70		X	-	-	X	C	X	В
Sulfuric Acid Sulfuric Acia	H₂SO₄ H₂SO₄	90		73 X	150 150		200 180		70			212	•		X	X			X	X	X	-	·	x C	B	X	8 B
Sulfuric Acid	H ₂ SO ₄	-	+	x	100						200	212			X X	X		200		X	x	1.	<u>.</u>	c	В	X	B
Sulfuric Acid	H ₂ SO ₄	100		x	x	x	X	x	x	x	200	- 12			x	x			x	x	x			c	В	x	В
Sulfurous Acid	H ₂ SO ₃			140		_					-	212		350		-			x	X	X			Ā	В	1.	B
Sulfuryl Chloride	SO2CL2	-	1.67		-	-	-	-		-	-	-	-	-	-	-	-	X	-	-	-		-	-	-	-	В
Syrup (Sucrose in water)	-	-	-	-	-	-	-	-	-	-		•	-	-	-	-			-	-	-	-	-	-	-	-	
Tall Oil Taliow (Animal Eat)	-	-	-		180	180	250		70			250		250	200	200		300	×	70	200	-	-	A	B		-
Tallow (Animal Fat) Tannic Acid	- C ₇₆ H ₅₂ O ₄₆	-	0.86		- 200	190	250		70 140		<u></u>	212		250	- 225	-	-		-	- 100	100	-		1-A	- В		
Tanning Liquors		1	-		190			_	- 140	-	-	212		250		200		100 200		100 70	180		A	A	8	1.	
Tar	-	-	-	X	X	-	250		-	-	-	250		250		-		190			X	-	-	A	-	-	-
Tartaric Acid (DihydroxySuccinic Acid)	-	-	1.8			-			140	176	ð	212			250	-			× I	180	70		- A 1	A	-	<u>-</u> тм	ENT
							14.	7	1		al .																UAL
						V		7	12	2												JÆ	١N	1	5	200	8
																					W				gra Se		Div m

CHEMICAL RESISTANC

	`			-								ι.					λ.		、				、				
	ASPROX. SP. GAMIIT (@ .		POL	A WINNLIDE POLYPROF. CF. B	A POLYEII	TIC THINENER POLY	CR055	DURED (NLT										EAL				304 51	318 51				
HEMICAL	FORMULAS	100% CU		OF CF	DALENE L	DRIDE (PVC)	LITENEN	WINED MUS	INAAPLUS ME	AN 12	HAL	PEL	TEFLE	EPUN	NIN ES	NYSULFUI		-ON EAD	BUND NEOPRES		CARD	CENC	316 STAN ESS ST	INLESS STEEL	TITAN	HASTELL	
Tertiary Butyl Alcohol		-	· \ ·	68	68	68	250	- 1	-	X	-	-	-	250	- \	-	-	70	- (-	x	•	-	A	<u> -</u>	-	Ť
Tetrachlorethane	CHCL2CHCL2	-	-	х	X	Ň	250	-	-	X	-	-		350	-	-	-	70	х	x	x	-	-	A	-	-	
Tetraethyl Lead	Pb(C ₂ H ₅) ₄		1.65		72	-	250	-	-	•.		250	-	350	-	-	-	150	X	x	X	-	-	- 	-	[· _	T
Tetrahydrofuran	-	-	-	x	x	X	<u>x</u>	X	X .		200	x		-	120			X	х	x	x	[-	-	-	X		+
Tetralin (Tetrahydro- Naphthalene)	- C ₁₀ H ₁₂	-		- X	- X	X	-	- X	- X	- X	-	۰. ۱	-	- 300	-	-	•	68	- X	- X	· X	1-	-	-	-	-	+
Thionyl Chloride	SOCL ₂		1.64	x	x	X	×	X	x	x	-	- 121		350	X	- X	-	73	x	X	x	1	-	- X	×	-	+
Thread Cutting Oils		-	-		72	120	•-	-	-	-	-	250	-	400	-	-	-	70	X	-	70	-	-	В	В		†
Titanium Tetrachloride	TICL		-	X	х	x	х	-	-	-	-	-	-	400	-		-	150	х	х	X	-		С	С	A	
Titanous Sulfate	Ti ₂ (SO ₄) ₃		1.47		180	180		-	-	-	-	-	-	350	-		~	-	-	-	-	-	-	1:	-	-	1
Toluene Tomato Juice	CH ₃ C ₆ H ₅	-	0.9	X 140	X 180	X	150 250	X 70	X 140		200 200	121	-	350 400	150	x -	-	70 200	X 200	X 100	- 150	A	A	A C	A B	A	-
Toxaphene-Xylene		-	-	-			250	-		-		-	-	- 400	-	-	-	200	200	- 100	130	- -	-	Ĭ.	-	-	÷
Transformer Oil (Liquid	•	-			-	-			-	-	-	•		•	-	Ŀ_	-	-	-	-	-	-	-	1.	-	-	t
Insulators) Mineral Oil Type	-		-	140		73	200	х	70	176	-	212		400	150	x	-	180	х		180	-		A	-	-	1
Tributyl Phosphate		-		X	x	70	100	-	-	X	-	73	-	400	-	-	-	X	70	X	x	Α_	A		-	A	
Trichloroacetic Acid	CCL3COOH	•	1.6	73	72	120	100	-	-	•	200	121	-	400	-	-	-	180	70	70 -	70			X	X	В	+
Inchloroethane (Methyl Chloroform)	CHCL2CH2CL	-	-	×	×	×	<u>.</u>		1	- X	-	-		350	-	-	-	-	- X	- X	×	ŀ	· .	<u>-</u>	1-	- A	+
Trichloroethylene	CHCL.CCL ₂		1.1	X	x	68	170	x	x	x	-	73	-		120	x		200	X	X	x	-	<u> </u> .	†	-	A	
Trichloropropane	·	-	1.39	-			-			-	-		-	-		-	-	-	-	х	· .	-	·		-	A	
Tricresyl Phosphate (TCP)	(CH ₃ C ₆ H ₄ O) ₃ PO	-	1.16		x	·	-	-	· ·	X	-	212	-		-	-	-	· _		x	x	ŀ	1-	<u> -</u>	<u> -</u>	A	4
Triethanolamine	(HOCH ₂ CH ₂) ₃ N (C ₂ H ₅) ₃ PO ₄	-	1.12		X	X	X		<u> -</u>	73	-	73			150	х	•	X	70	70	70	ŀ	-	c	C	Α_	
Triethyl Phosphate Triethylamine	(C ₂ H ₅) ₃ PO ₄ (C ₂ H ₅) ₃ N		0.73	-	- 72	-	- 70	<u> </u>		<u>x</u>	200	73 121	-	-	- 100	X	-	: 200	- 73	- 70	- 140	-	-	-	-	†	+
Trmethylpropane	(CH ₂ OH) ₃ C ₃ H ₅	-	-	73	-	<u> -</u>	250	+-	-	-	-	-	·	300		-		200	-	-	150	-	-	1-	1-	-	+
Trisodium Phosphate	Na ₃ PO ₄	-	-	140	180	-		-	-	-	-	250	-	350	-	-		180		200	200	-	-	A			
Turbine Oil	-	•	-	72	72	70	-	-	-	-	•	-	-	350	-	:	-	140	X		68	A	Α	A	+·		4
Turpentine	C ₁₀ H ₁₆	:	0.9		X		250		X		200	-	-	300	150		ŀ.	180 180	· ···		100	-		A	<u>A</u>	-	+
<u>Urea</u> Urine	CO(NH ₂) ₂	-	13		1		250	X 140	140 140		-	2 <u>12</u> 121	-	250 350		150	•	180			140 100		-	A	+-		+
Vanilla Extract (Vanillin)		1.	1.	-	-	-	- 12		140					-	1-	-	i -	-		-	-	. .	1.	1-	-	-	╉
Varnish		-	-	-	-	-	250	-		68	-	-	-	250	-	-	-	68	X	X	68	-	-	A	-	ŀ	1
Vaseline	-	•					250	-		176		121	·	400	_		1 · _	70			140		. - .	ŀ	·	+-	\downarrow
Vegetable Oil		÷	-				200		70	-	-	-	-	400		-	<u>├</u>	300		200 200		ŀ	· ·	A	A	+	+
Vinegar (4-8% Acetic Acid) Vinyl Acetate		+-	0.93			140	200	140	140	68 X	200	212 73	- .		200 150			180 X		200 X	X	<u>-</u>	+:-	A	B	+	+
Vinyi Chloride	CH2.CHCL	-	-	-	x	1-		-	-	x	1-	Ľ-	1.	-	-	-	-	<u> </u>	-	-	Î.	†.	1-	1.	1.	<u> </u>	+
Vinyl Ether	CH2.CHOCH:CH2	·	-	' X	X		-		-	X	-	-	-	-	•	-	-	-	-	-			•	-	-	•	
Water Acid Mine		-	-				280		-	-		250	-	400	-	-	· _	180					Α	A	A	-	
Water Deionized	H ₂ 0	•	·					140					<u> </u> .	400		180	-				180			A	1-	-	-
Water Demineralized Water Distilled	<u> </u>		-					140 140					1		250 250		-	180 140			200 180		A	A	-	•	
Water Distilled	H ₂ 0	1	-					140				250			270			140			180			A		. .	+
Water Sari	H ₂ 0	· .		140	180	180	280	140	140		200	250		400	270	200	L	180	250	160	180	Α	1	В			
Water Sewage	H ₂ 0	· ·		140	180	180	280	140			-	250	·		250	200		180	250	1	180		A	A		ŀ	-
Whey		+-	-		-	-	-	-	-	-	200		-	-		+	-	-	-	-	-	A	A	•		-	+
Whiskey White Acid	- NH₄HF₂HF	-	10.9	140	180	180	250	X	140	X	200	250	-	350	-	+		180	200	200	180	A	A	A		-	╉
White Liquor	-	-	1-	140	+	180	1	-		-	-	- 212	1-	350		150	-	180	-	140	140		A	в	8	-	+
Wines	-	-	-	140		140		140			-	212	-	300	-	-		180	170	-	180		Ą	A	A	-	
Xenon	Xe	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<u> -</u>	-	-	<u> -</u>	-	-	-			-	1
Xylene Vesst	C ₆ H ₄ (CH ₃) ₂	-	0.9	×	X	X	250	×	X -	X 68	200		200	350	150	X		180	X	x	X	A	A	-	-	-	4
Yeast		<u>.</u>	<u></u>				-	7	12					<u> </u>		<u></u>	<u> </u>		AI		RC	NN	DEI 4EN	ITA	L C	QUA	41
						-(144			2	ノ					-					J		1				iv

CHEMICAL RESISTANCE



* Caution: Further testing needed, suspect with certain stress levels.

The Teflon included in the tables is PFA or PTFE which are similar in chemical resistance and temperature. For data on FEP Teflon, please call Harrington's technical service department.

NOTE: Recent studies have shown that surfactants and detergents even in trace quantities can adversely affect the performance of certain thermoplastics in applications like sodium hydroxide, e.g. cross-linked polyethylene and CPVC.

CHEMICALS	CONCENTRATION (%)	PVC*	CPVC*	PP*	PVDF*	TEFLON*	VIT:ON*	EPT
Sulfuric Add Chromic Add Sodium Silicon– fluoride	0.7 250 g/l 1	140	176	_	248	248	-	_
Sulfuric Add Hydrofluoric Acid	20 10	140	140	_	248	248	104	104
Sulfuric Acid Hydrofluoric Add	25 15	140	140	-	248	248	_	_
Sulfuric Add Nitric Acid Chlorine Gas	75 5 Little	140	176	104	176	248		_
Sulfuric Acid Sulfurous Acid	75 4	140	176	176	248	248	104	140
Sulfuric Acid Speiter Manganese Sulfate	150 g/l 80 2	140	176	176	248	248	176	176
Sodium Sulfide Sulfuric Acid Formaldehyde	225 g/l 225 g/l 50	104	176	176	212	212	212	140
NOTE: * Temperatur	e at °F.	1 		1	>		ENVIRON	A DEPARTM
			(and days		y		JA	N 15 200

MIXED CHEMICALS

CHEMICAL RESISTANCE

MIXED CHEMICALS

Table 6 (cont'd)

CHEMICALS	CONCENTRATION (%)	PVC*	CPVC*	PP*	PVDF*	TEFLON*	VITON*	EPT*
Hydrochloric Acid	36							
Allyl Chloride	12 PPM	104	104	140	248	248	176	104
Hydrochloric Acid	36	140	176	176	248	248	140	68
Benzene	54 PPM	140			240	240		
Hydrochloric Acid	18	440	170	470	0.40	0.40	4.40	
Chlorobenzene	490 PPM	140	176	176	248	248	140	68
Hydrochloric Acid	36	104		104	212	248	104	
Chiorobenzene	890 PPM	104		104	212	240	104	
Hydrofluoric Acid	220 g/l							
Chromium Sulfate	1 g/l	140	176		248	248		
Sodium Silico-	12 g/i							
fluoride								
Hydrofluoric Acid	350 g/l							
Sodium Silico-	17 g/i	104	104	_	248	248		_
fluoride		104	104		240	240		
Oxalic Acid	1 g/l							
Hydrochloric Acid	35							
Ferrous Chloride	28				248	248	_	176
Hydrochloric Acid	10	440	110		040	040		
Hydrofluoric Acid	15	140	140		248	248		
Hydrochloric Acid	18	140	176		249	249		
Hydrofluoric Acid	20	140	176	_	248	248		
Hydrochloric Acid	20	140	140		68	248	248	
Nitric Acid	50	140	140		00	240	240	
Hydrochloric Acid	36	140	140	140	248	249	176	104
Ortho-chlorophenal	170 PPM	140	140	140	248	248	1/0	104
Hydrochloric Acid	36 g/l	68	68		176	248		
Sulfuric Acid	98 g/l	00	00	_	110	240		
Hydrochloric Acid	20							
Sulfuric Acid	5	140	176	176	248	248	176	176
Hydrochloric Acid	36		470		0.12	0/2		
Sulfuric Acid	98	140	176	176	248	248		
Hydrofluoric Acid Ammonium	250 g/l	140	140		248	248		
Fluoride	8 g/l	140	140		240	240		

NOTE: * Temperature at °F

ARIZONA DEPARTMENT OF ENVIRONMENTAL QUALETY

JAN 1 5 2008

Waste Programs Div. Permits Section

38

MIXED CHEMICALS

CHEMICALS	CONCENTRATION (%)	PVĊ*	CPVC*	PP*	PVDF*	TEFLON*	VITON*	EPT*
Hydrochloric Acid	25							
Ferric Chloride	28	140	212	212	248	248	176	176
Hydrochloric Acid	20				248	248	176	176
Ferrous Chloride	28				240	240	170	170
Nitric Acid	15	140	140	140	248	248		
Hydrofluoric Acid	3	140	140	140	240	240		
Nitric Acid	15	140	104	104	248	248	176	104
Hydrofluoric Acid	5	140	104	104	240	240	170	104
Nitric Acid	15	140	68	104	248	249		
Hydrofluoric Acid	10	140	00	104	240	248		_
Nitric Acid	15	140	68	104	248	248		
Hydrofluoric Acid	15	140	. 00	104	240	240		
Nitric Acid	5		170					
Hydrofluoric Acid	20	140	176		248	248		
Nitric Acid	50 100g							
Sulfuric Acid	50 100g	68	68	68	248	248		
Sulfuric Acid	2							
Chromic Acid	1	140	176	68	248	248	104	68
Sulfuric Acid	10							
Chromic Acid	10	104	104		248	248	104	68
Sulfuric Acid	10	4.0.1						
Chromic Acid	25	104	104		248	248	68	
Sulfuric Acid	4 g/l	440	1.00					
Chromic Acid	400 g/l	140	140	—	248	248	_	
Sulfuric Acid	15							
Chromic Acid	5	140	176		248	248	140	104
Phosphoric Acid	80							
Sulfuric Acid	2							
Chromic Acid	10	140	176		. 248	248	104	
Water	80							

MARRINGTON

NOTE: *Temperature at °F

ARIZONA DEPARTMENT OF ENVIRONMENTAL QUALITY

-39

Waste Programs Div. Permits Section

JAN 15 2008

Section D Revision No. 9 Date: 01/11/2008

EXHIBIT D-3

CHEMICAL COMPATIBILITY CHART FOR CARBON STEEL



CHEMICAL COMPATIBILITY

	Aluminum	Brass	Carbon Steel	Ductile Iron/Cast Iron	316 Stainless Steel	17-4PH	Alloy 20	Monel	Hastelloy C	Buna N (Nitrile)	Delrin	EPDM/EPR	Viton	Hypalon	Neoprene	Nylon	Grafoil	
Acetaldehyde	B	(((A		A	A	Α	D	A	B	.(Ð	D	8		
Acelamine Acelate Solvents	B	B	B	B	B A				A	A	D	ļ	D	E D	B			_
Acetic Acid, aerated	A B	D	- <u>A</u>	D	A			A	A		D		C C	- ^v	D (A	╋
Acetic Acid, Air Free	B	B	D	D	Å	A	A	Ā	Â	tt	D		Ď		Ċ	B	Ā	+-
Acetic Acid, crude	- (°	(((A	A	A	B	A	D	D		D		D	8	A	
Acetic Acid, glacia			- 6	-		A	<u> </u>		A	D		B	(((B	A	
Acetic Acid, pure Acetic Acid, 10%		-2-	D	D	A A	A	A	D B	A	D 0	D B	B	D	A C	D	B	A	⊢
Acetic Acid, 80%	t	t	- Č	t	Ā	A -	Â	B	Å	D	0	Ċ		D	D	B	A	⊢
Acetic Acid Vapors	B	D		_	D	D	B	(A	D						B	A	
Acetic Anhydride	B	0	D	D	B	B	B	B	A	0	((D	B	(A	
Acetone Other Ketones	A	A	A	A	A	A A	A	A	A A	D	A	A D	D	D	D	<u>A</u>	<u>A</u>	+
Acetyl Chloride	Ď	A		D	Ĉ	<u> </u>	<u> </u>	B	Â	D	- D		D	D D	D	+		╀╴
Acetylene	A	8	A	A	A	A	A	A	A	B	A	Ā	Ā	T	T	A		
Acid Fumes	B	D	D	D	B		B	L		C D	D	D	1.	(8			F
Acrylonite Air	A	A	A	A	A		A	A	A	A	A	A	A	DA	D	A A		╀
Alcohol, Amyl	B	B	B	Ĉ	Â		B	Ê	B	tî	Â	Â	B	B	-ĉ	- Â	A	+-
Alcohol, Butyl	B	B	8_	(A		A	A	A	B	A	C	A	В	B	A	A	
Alcohol, Diacetone	A	A	A	A_	A		A	8	A	Ď	A	B	D	((A	A	
Alcohol, Ethyl Alcohols, Fatty	B	B	B	B	B	<u> </u>	A	B	A	AB	A A	<u>A</u>	<u> </u>	B	B	A A	A A	┢
Alcohol, Isopropyl	B	8	8	- B	B		A	B	B	t č	Å	A	A	B	B	A	A -	╀
Alcohol, Methyl	8	8	B	8	A		A	A	Ā	B	A	A	Č	Ā	Ă	A	A	+
Alcohol, Propyl	A	A	B	8	Α.		A	A	A	B	A	A	A	B	B	A	A	
Alumina Aluminum Acelale	A C	A D	<u> </u>		- A	B	B	+-	A B	A D	A	A			A D	A		+
Aluminum Chloride dry	B	B	- (\hat{c}			- B	B	B	A	A	A	B	8-	A	A	╀
Aluminum Chloride solution	Ċ				D	(B	B	Ā	8	D		A	B	B	A	Ä	$^{+}$
Aluminum Fluoride	C C		0	0	(<u> (</u>	B	A	A	(A	A	B	A			
Aluminum Hydroxide Aluminum Nitrate	A	A	D		A C	B	B	B	8 B	A B		A B	A D	8	A B			+
Aluminum Oxalate	8			<u>ٿ</u>	L,		A	Ē	Ā			<u> </u>	<u>ــــــــــــــــــــــــــــــــــــ</u>	- <u>"</u> -				+
Alum (Aluminum Potassium						-												
Sulfate)	D	D	D	0	B		B	(A	B	D		B	B	B		A	
Alum (Aluminum Sulfate) Amines	C B		B	ι č	A	A	B A	(B	A B	A D	Ð	A C	A	8 D	A0	AB	A	╀
Ammonia, Alum	1-	-	.°-	<u>⊢-`-</u>	Â	<u> </u>	Â		1 Å	B	t	⊢`-	1		B	D	A	╉
Ammonia, Anhydrous Liquid	A	D	A	B	A	Å	A	B	A	B	D	B	D	8	(A	A	
Ammonio, Aqueous	B	D	A	AB	A		A	B	B	B	D		A	B	B	B	A	
Ammonia, Gas, hot Ammonia Liquor	A	<u>ب</u>		l. °	A		A	-	B	(A	D	<u> (</u>	A	B	A	+-
Ammonia Solutions		D	B	B	A	- 1	A	8	8	B	D	8	D	D	B	B	A	+
Ammonium Acetate	B	D		B	B		A	B	B	B	D	A	D	D	B			
Ammonium Bicarbonate Ammonium Bromide 5%	B	B		B	B		8 8	8 B		B	A	A	Α.	B	<u>A</u>	B	-	1
Ammonium Carbonate		B	B	B	B		B	8		C	D	A			A	-		+
Ammonium Chloride	D	D	D	D	(C	B	B	8	B	(A	A	A	A	D		1
Ammonium Hydroxide 28%	5	D	Ç	Ç	B	A	A	D	B	B	D	B	A	L	A	8	A	-
Ammonium Hydroxide Concentrated	. (D	D		<u> </u>	<u> </u>	A	A	C B	B	C B	D	A	A	A	A	<u> </u>	Ā	-
Ammonium Nilrale	T B	D	D.	1- <u>D</u>	Ā	Â	B	- <u>D</u>	9	A	D	A	A	A	A			+
Ammonium Oxiale 5%	A				A		A	B			A					<u> </u>		1
Ammonium Persulfate	- C	(A		A	D		D	D	B	B	8	(
Ammonium Phosphate Ammonium Phosphate Di-basic	CB	D	D	D	8 B		B	((B	A	A	A	A	A	A 	A	-	+
Ammonium Phosphate Tri-basic			D		B		B	Ċ	B	A -	A	· ··	A		<u>A</u>	A		1
Ammonium Sulfate	Ċ	((D	B	В	B	B	8	A	B	A	B	B	A	A	A	1-
Ammonium Sulfide	(D	D	D	B		B	B		A	A	A	D	B	B			1
Ammonium Sulfite	((A	A	B	Ð		B	A	B	A	0	A			1
Arnyl Acelate Arnyl Chloride	B	B	(- <u>(</u> B	B A	A	A	B		D	A	B	D	D	D	D B		+-
Aniline	Ċ	D	τ	- č-	B		A	B	8	1 D	D	((C C	D	D	B	A	+
Aniline Dyes	((((A		A	A		(A	(B	T T	(
Apple Juice	B	C	D	D	8		A B	A_		A	A	B	A	8	A			
Aqua Regia (Strong Acid) Aromatic Solvents	A	A		B	A		A	B		D	D	D	D	D A	D D	·	D	+
an example overselas		1 "	• •			1					. ^		1	I ^		1	1	

RNW provides this information from numerous sources without claim or warranty expressed or implied. FNW assumes no responsibility for errors within this information regarding material compatibility. It is recommended that valve materials be tested in the service material for best consideration.

ARIZONA DEPARTMENT OF ENVIRONMENTAL QUALITY

JAN 15 2008



FNW		ĩM		ıst İron	Steel			å						¢	:01	CH APA		CAL LITY
	Aluminum	Brass	Carbon Steel	Ductile Iron/Cast Iron	316 Stainless Steel	17-4PH	Alloy 20	Monel	Hastelloy C	Buna N (Nitrile)	Dekrin	EPDM/EPR	Viton	Hypalon	Neoprene	Nylon	Grafoil	Teflon
Arsenic Acid Asphalt Emulsion		D	D B	D B	B A		B	DA	B A	A D	DA	B D	A	B	A (A	A	<u>A</u>
Asphalt Liquid	Ċ	A	B	B	A		A	A	A	(A	D	A	D	C			A
Barium Carbonate Barium Chloride	(D	B	B	B	<u>B</u>	B	B	B	A	B A	A	A	A	AB	A			A
Barium Cyanide	D	(È	t	B		B	Ð		B	Á	B	B.	B	8.			A
Barium Hydrate Barium Hydroxide	D	D		В	<u> </u>	A	<u>A</u>	B		- A	A A	B	A	B	A			<u>A</u>
Barium Nitrate	B	L,	<u> </u>	Ů	Å		A				A		<u>^</u>	-	B	<u>†</u>		Å
Barium Sulfale Barium Sulfide	D	(0	- <u>(</u>	(D	A		A B	B		A	A	B	A	B	AB	B		A
Beer	A	B	1 D	D	A	A	Ā	A		B	Ă	8	A	Ċ	B	A		A
Beel Sugar Liquors Benzaldehyde	A	A	8 A	B	A		A	A B	В	A D	A	B	A	C D	A D	A _		A
Benzene (Benzol)	A B	B	B	B	A B	B	A	A	B	D D	A C	D	B	D	D	A	A	A
Benzoic Acid	B	B	D	D	B	A	B	B	A	(A	D	B	D	(D		A _
Berryllium Sulfate Bleaching Powder wet	8	B		- [®]	B		B	B	A	B D	A D	BB	B	<u>B</u> B	B A	D		A
Blood (Meat Juices)	B	B		D	A	A	Ā	B		B	A	B	B	8	B			A
Borax (Sodium Borate) Bordeaux Mixture	(D		(A		A	A	A	B	A	A	<u>A</u>	8	Ð			A
Barax Liquars	C	A	C	<u>í</u>	8		A	A	B	<u> </u>	A	A	A	D	(-		A
Boric Acid Brake Fluid	8	C B	D	D B	B	A	B	B	A	B D	A B	B	A D	B	8 (D	A	A
Brines, saturated	(8	D	(B		B	B	A	A	A	A	A	B	B	<u> </u>		A
Bromine, dry Bunker Oils (Fuel)	C A	B	D 8	D B	DA		B	A	A	D B	D	0	B	D	D 8	D	B	A
Butadiene	B	C	B	B	A		A	(8	C C	A	C	B	D	(D
Butane Butter	A	A	B	В	A	<u> </u>	A	B	A	B	A A	D	<u>A</u>	A	B	A		A
Buttermilk	A	0	D	D	A		A	D		A	A	B	A	D	A			A
Butyl Acelate Butylene	8 A	B		<u>B</u>	B		A	B A	B	D D	B	D	D D	D	D	A		A
Butyric Acid	B	(D	D	B		B	B	A	(A	(C	T		(D		A
Calcium Bisulfite Calcium Carbonate) ((0 D	D	8		B	D B	B	A	D	D B	A	B	A	A	 	A
Calcium Chlorate	8	D		(B		B	B		B	D	B	B	B	B		B	A
Calcium Chloride Calcium Hydroxide	C	8 C	$\frac{1}{c}$	$\frac{c}{c}$	B	B	B	B	A	A	A	B A	A	B 8	A B	D A		A
Calcium Nitrate	B			L .	B		B	^		8	(ß		8	B	<u> </u>	1	A
Calcium Phasphate Calcium Silicate	D	()	B		B			B	B	B	B	B	B			A
Calcium Sulfate	B	ì	(t	B	B	B	B	B	A	A	B	Ă	8	A			A
Caliche Liquor Camphor	- (B	- c	A B		A	C		8	A 	8	8	B	B			A
Cane Sugar Liquors	Ă	B		B	A		A	B		8	A	B	B	C	B			A
Carbonated Beverages Carbonated Water	B	B	D	B	B	B	B	C B		B	A	B A	B	0	B		A A	A
Carbon Bisulfide	A	(B	B	B		B	B		Ð	A	D	A	D	D			A
Carbon Dioxide, Dry Carbonic Acid	A	A	A	B	AB	A	A	A B		C B	A	B	B	<u>B</u>	B		A	A
Carbon Monoxide	A	A		B	A	A	Â	A	A	B	A	B	B	l C	D	A	<u>^</u>	Â
Carbon Tetrachloride, dry Carbon Tetrachloride, wet	B	(D	B	C	A	A	A B	A B	AB	D D	AB	D	B	D	D	A	A	A
Casein	C	- Č		Č	B		B	(B	A	B	8	B	8	A	~	A
Caster Oil Caustic Polash	A	A	B	B	A		A	AB	A	AB	A	B	A	B	8 B	A		A
Caustic Soda	D		B	8	A		A	A		T	D	B	B	B				A
Cellulose Acetate China Wood Oil (Tung)	B	8	-	B	B		A	B	B	D	(A	B	D	D	D	A		A
Chlorinated Solvents	D	(1 C	\overline{c}	A		A	B		Ð	A	D	(D	D			A
Chlorinated Water Chlorine Gas, dry	CB	(В	В	C B	D (A	D	D	B (D	D_	A B	B	A	D	B	A A
Chlorobenzene, dry	B	B	B	B	A		A	В	B	D	B	D	A	D	D	A	А	A
Chloroform, dry Chlorophyll, dry	D	B	B	C B	A	В	A	AB	B	D	Α_	D B	B	DB	D B	B		A
Chlorosultonic Acid, dry	B	E C	B	B	B		B	B	A	D	D	D B	B D	D_	B D	D		A
Chrome Alum	((B	(A	-	AB	B		B	B D	B	B	- B	B	D		A
Chromic Acid < 50% Chromic Acid > 50%		D		D	- - - 		B	D	B	D	Đ	((1-2-	B				A
Chromium Sulfate	8		-	D	B		(B		В	(B	B	B	B	1		A
Cider Citric Acid	B	t	D	D	A B	C	B	A B	A	B	A	В		D A	- 7	B	A	A
Citrus Juices	Ċ	B	D	D	B		A	A		A	A	1	A	D	A	-		A
Coca-Cola Syrup Coconut Oil	B	В	C	-	A B		A	8	1	B	A		B	D	B			A
atings: A-Excellent B-Good C-Poor IW provides this information from num mpatibility. It is recommended that ve	D-Do mercus alve ma	not use sources v terials be	Blank-t without c tested in	No inform aim or v the serv	nation varranty vice mate	expresse rial for b	d or imp est consi	ied. FN deration	W assum	ies no re	sponsibi	lity for er	rors with E	rizo NVIR	NA I Onm	DEPAI	RTME	NT OF
																15		1
													L	Pe	ermi	rograj Is Sec	ns D tion	iv.

	Alaminum	Brass	Carbon Steel	Ductile Iron/Cast Iron	316 Stainless Steel	17-4PH	Alloy 20	Monel	Hastelloy C	Buna N (Nitrile)	Delrin	EPDM/EPR	Viton	Hypalon	Neoprene	Nylon	Grafoil
Coffee Coffee Extracts, hol	A	A B		D	A		A	B		A	A				A	D	
Coke Oven Gas	A	Ċ	B	B	A		A	8		(D	D	8	(D	Č.	
Caaking Oil Copper Acetate	B	B	B	B	A	<u> </u>	A	A	B	A	A		A	C D	B		<u> </u>
Coppper Carbonate	D	-	Ť		A		A				A		÷				
Copper Cyanide Copper Nitrate	D	D	D	D	A B	<u> </u>	A B	C		A	A	B	B	B	A A		
Copper Sulfate	D	1 D	D	D	B	B	B	Ċ	A	A	A	A	Â	A	A	A	A
Corn Oil Cottonseed Oil	B	B		C C	B		8	B		A	A	Ç	Å	((
Condiseed on	- P		+ <u>`</u>	<u>+ `</u> −	B		B	- °		A	A		B	C	B		
Cresole Oil	B	8	B	B	B	B	Å	B	8	C	D	D	A	D	D		
Cresylic Acid Crude Oil, sour	B	(C B	D	B	-	B	8		D	D	D	B	D (D		
Crude Oil, sweel	A	B	B	B	A		A	A		Â	A		Â		B	ļ	-
Cupric Nitrale Cutting Dils, Water/Emulsions	D	A	8	8	A		A	D		A	D		Å		B		
Cyanide Plating Solution	D	D		D	B		8	D		B	D	B	B	B	B		
Cyclohexane Cyclohexanane	- <u>A</u>	A	A	A	A		Å	B	B		A	D	A	D	D	A	1
Detergents, synthetic	B	B		8	B		A	6		B	A	B	A	B	B	A	
Dextrin Dichloroethane	- B	B		B	B		B	B		B	A	B	B	1	B		\square
Dichloroethyl Ether	B	B		B	B	-	B			D		6	1-0	D	D		
Diesel Oil Fuels Diethylamine	A 8	A	A	AB	A		A	AB		AB	A	D	A D	D C	Ç		<u> </u>
Diethyl Benzene	 ^		- A		B		B			D	A	D	<u> </u>	<u> </u>	0	B	
Diethylene Sycol	B	B	ļ	A	A		A		_	A	A	A	B	B	A		
Diethyl Sulfate Dimethyl Formamide	B	B	-	B	B		B	B		C B	A		B	D	- <u>5</u> -	1	├──
Dimethyl Phthalate									1	B	(D	B	B		<u> </u>
Dioxane Dipentane (Pinene)	B	B		B	B		B	B		DB	C A		D	D	D		A
Disodium Phosphate	B				B		B	C		B	A		8	B	B		
Dowtherm Drilling Mud	A	AB	B	8	Å		A	A		D	A	D A	A	D B	D	(<u>A</u>
Dry Cleaning Fluids	A	1-0	B	B	A		A	B		Ê	Â	*	8		ŤĎ		+
Drying Oil Enamel	(C A	(B	B		B	B		A B	À	0			B		<u> </u>
Epsom Salts (MgSo4)	A	B	C	(B	<u> </u>	B	B		A	A	- "	A	D	A	B	<u> </u>
Ethane Ethers	A	B	((B	ļ.,-	B	B	-	A	A	D	A		B	ļ	
Ethyl Acetate	A	B	A B	B	A B	A B	A B	B	B	D	(0	D	D	A	+
Ethyl Acrylate	(B	0	C	A		A	B	A	D	В	(D	D	D	. A	
Ethyl Benzene Ethyl Bromide	B	A	+	B	B		A	6	A) 8	A	D	B	D	D B	8	–
Ethyl Chloride, dry	B	B	B	B	A	A	Ă	B	B	1	A	T	B	D	(A	
Ethyl Chloride, wel Ethylene Chloride	D	((D	D	B		B	B	B	C	A	B	B	D	A	A	-
Ethylene Dichloride					B		A	B		D	(D	D	D	D	A	A
Elhylene Gylcol Ethylene Oxide	A (B	8	B	B	A	A B	B	A	A D	A	D	A	B	<u>3</u> D	A Ď	-
Ethyl Ether	B	B		(A	1	A	A	Ĵ	D	A	Ð	D	D	D		1
Ethyl Silicate Ethyl Sulfate	A	B		B	B		B	8		B	A	B	B A	B	CB		
Fatty Acids	B	1	D	D	Å		A	B	A	B	A	Ď	Ă	D	8	A	Ă
Ferric Hydroxide Ferric Nitrate	D	D	D	D	A (B	A Á	A D	B	B	A	A	A	B	A		+
Ferric Sulfate	D	D	D	D	B	B	A	D		Ă	A	A	Å	Å	A	(
Ferrous Ammonium Citrate Ferrous Chloride	B	0	D	D	B		B	D	-		A	—		P			-
Ferrous Sulfate	7	8 B	D	D	B		B	B	D 8	A	A	A A	A	B	A	(A
Ferrous Sulfate, Saturated	((((A		Å	B	8	(A	B	B	B	(
Fertilizer Solutions Fish Oils	B (<u>(</u> B	B	B	B A	+	B	B		B	A	D	A	D	B		+
Flue Gases	(B	1	B	A		A	B		((D	(B	(1
Fluoboric Acid Fluorosilicic Acid	B	1	D	D	B		AB	A	8	A	D (6	- C	B (B		1
Formaldehyde, cold	A	Å	A	B	A	A	A	Á	B	B	A			+c	(A	1
Formaldehyde, hot	8	8	D	D	(B	B	B	B	A		-	B	B		
Formic Acid, cold Formic Acid, hot	D	B	D		B 8	8 D	A B	B	A B	D	D		B	(B	A D	A
Freon Gas, dry	B	B	B	8	A	Ă	A	A	B	T	A	C	1	B	(A	A
Freen 11, MF, 112, BF Freen 12, 13, 32, 114, 115 tings: A-Excellent B-Good C-Po W provides this information from n apatibility. It is recommended that	B	B		(A		A	6	B		A	C	D	B	(A	A

JAN 15 2008 Waste Programs Div. Permits Section

NW	ľ	М		ast Iron	Steel			. :		(*				Ċ	ON			CAL LITY
	Aluminum	Brass	Carbon Steel	Ductile Iron/Cast Iron	316 Stainless Steel	17-4PH	Alloy 20	Monel	Hastelloy C	Buna N (Nitrile)	Delrin	EPDM/EPR	Viton	Hypalon	Neoprene	Nylon	Grafoil	Teflon
Freon 21, 31 Freon 22	B	B		C B	A		A	B	B	D	A	D D	D D		DB	A	A]
Freen 113, TF	B	B		Č	A		A	B	B	B	A	((T	A	Ā	
Freon, wet Fruit Juices	DB	D B	D	D	C A	B	B	B	<u> </u>	8 A	A	B A	D A	B	B	D	A	A
Fuel Oil	A	B	B	B	A		A	B		Ä	Ă	D	A		τ			A
Fumaric Acid Furtural	A			8	A	B	A	8	B	B	A	,			B			A
Gallic Acid 5%	Å	A	A D	D	B		B	8	B	8	A A		D	D (C B	A		A
Gas, Manufactured	B	B	B	B	B		B	A		Á	A		A	_	A	A		A
Gas, Natural Gas, Odorizers	B	H A	B	B	A B		B A	AB		A B	A	D	. <u>A</u>	8	A B	A		A
Gasoline, Avialion	A	A	A	B	A		Å	A	A	(A		A		D	A	A	A
Gasoline, Leaded Gasoline, Molor	A	A	A	AB	A	A	A	B A	A		A	D	A	B	D	A	A	A
Gasoline, Refined	A	B	B	B	A		A	B	A	0	A	D	A	D	(A	A	A
Gasoline, Sour Gasoline, Unleaded	A	B	B	B 8	A		A	C A	A	(A	D	A	CB	D	B	A	A
Gelatin	A	A	D	D	A		A	B	A	A	A	A	A	B	A	A	A	A
Glucose Glue	A	A	B	B	A		A	A	A	A	A	A	A	B	A	A		A
Giverine (Glycerol)	A	B	A C	B	B A	A	A A	B A	A	A C	A	B	AB	B	A	A	A	A
Glycol Amine Gycol	C A	DB	—	B	B	A			D	A	T	D	D	CB			Ā	
Graphite	B	B	<u> </u>	(8		A	B		B	A	AB	B	<u> </u>	B			A
Grease	B	(A	A	A		A	B		A	A	D	A	D	8			A
itelium Gas Heptane	B	B A	B	B	A A		A	B	A	B	A	8 D	B	B	B	+		A
Hexane	A	B	B	8	A		A	B	A	A	A	D	A	B	(A		A
Hexanol, Tertiary Hydrolic Gil, Petroleum Base	A	A B	A	A B	A		A	A	A	A	A	D	B		C B	A		A
Hydrazine	(Ď		Ū	B		B	D		1	D	B	Ũ	- T	Ċ			Â
Hydrocyanic Acid Hydroffuoslicic Acid	A	D A	D	0	A		A	C B	<u> </u>	<u>B</u>	D	B	A	B	B	-	A	<u>A</u>
Hydrogen Gas, cold	A	B	B	B	A	<u> </u>	A	Å		B	Â	B	Â	8	B	A	<u>^</u>	A
Hydrogen Gas, hot drogen Peroxide, Concentrated	- (A	D	8 D	D	B		A B	D	A D	B	A D	B		B	B	D		A
Hydragen Peroxide, Dilute	A	Ċ		0	B		B	D	D	A		B	A	- °	8	D	+	A
Hydrogen Sulfide, Dry	A	C	B	B	A	8	B	B	B	(C	A	A	B	A	D	A	A
Hydrogen Sulfide, Wet Hypo (Sadium Thiosulfate)	B	D	C	D C	8 8		B	C B	D	C A	C	B	A A	B	B A	D	A	A Á
Illuminating Gas	A	A	A	A	A	· · · · ·	A	A		(A	D	A	D	(A
Ink-Newsprint	$\frac{1}{c}$	1	D B	D C	A		- <u>A</u> . A	B		A	A	B	A	B	8	A		A
lso-Bulane					B		B			B	A	D			D			Ā
Iso-Octane Isopropyl Acetale	A	A	A	B	A B		A	A		A D	A A	D	<u> </u>	B	C		A	A
Isopropyl Ether	B	A	A	B	A		A	B	A	Č	A	D	D	D	- ĭ-	A	A	A
J P-4 Fuel J P-5 Fuel	A	A	A	B	A		A	A	A	A B	A		A			A		A
J P-6 Fue	A	A	A	A	A		Â	A	A	A	A	<u> </u>	A		t	A		A
Kerosene Ketchup	A	A D	B D	B	A		A	A	A	A	A	D	A	D	C	A	Ā	A
Ketones	D	A	A	A	A		A	B		A D	A	D	A D	B	A			A
Laguer (and Solvent)	A	A	(C	Ă		A	A	<u> </u>	Ď	A	D	D	D	D	1.	1.	A
actic Acid Concentrated cold Lactic Acid Concentrated hot	$\frac{1}{c}$	D	0	D	A 8	D	A	D	AB	B	D	B	A B	B	A C	A	A	A
Lactic Acid Dilute cold	A	D	D	D	Ā	B	A	(A	B	D	B	A	B	A		Â	Ê
Lactic Acid Dilute hot Lactose	B	D B	D	D	AB	D	AB	D B	B	CB	D	8	D B	B	0 (A	A
Lard	A	B		A	A		A	- B		B	Â	- Ĉ	⊢ •		t			A
Lard Oil	B	B	C	(8		A	B		A	A	B	A	D	B		ļ	A
Lead Acelate Lead Sulfate	D		D	D	B		B	B		A B	A	8	B	B	B	-	ł	A
Lecithin	D	0		(B	1	В	B		D	A	D	B	D	D	1	<u> </u>	A
Linoleic Acid Linseed Oil	A	B	B A	B	A	-	A	B		B	A	D	B A	D B	. B (A
Lithium Chloride	D	B		B	9		A	B		B	A	B	B	B	B	<u> </u>	1	A
LPG	A	A	B	B	B	-	B	B		A	A	D	A	D	B			A
ubricating Oil Petroleum Base Ludox	A D	B	<u> </u>	A B	A		A B	B		A B	AB	Ð	A B	C B	B	-		A
Magnesium Bisulfate	8	B	B	B	A		A	8		B	A	B	B	B	B			A
Magnesium Bisulfide Magnesium Corbonate	(8	D B		D B	B		B	B		B	A	B	B	B 8	<u>B</u>			A
Magnesium Caloride	Ð	B	(-	D	B	C	8	B	A	A	A	A	A	A	A			A
Magnesium Hydroxide	D	B	8	B	A	A	A	B	B	A	A	A	A	A	A	D	<u> </u>	A
: A-Excellent B-Good C-Poor ovides this information from nun ility. It is recommended that va	D-Don	ot use E	Mank-N	o i nfo rm	ation													
			thout alo	im or w	arrachie	VDCOLLOG	or imp	ind EN	N assum		monsihi	ity me	THE WILL	this is	motio	THEFT		1

JAN 15 2008

CHEMICAL COMPATIBILITY	E		iteel	Ductile Iron/Cast Iron	316 Stainless Steel				ر د ر	(Nitrile)		PR					
	Aluminum	Brass	Carbon Steel	Ductile Ir	316 Stai	17-4PH	Alloy 20	Monel	Hastelloy C	Buna N (Nitrile)	Delrin	EPDM/EPR	Viton	Hypalon	Neoprene	Nylon	Grafoil
Magnesium Kydroxide Hot Magnesium Nitrate	D	D	B	B	A	A	A	AB	В	B	A		A B	B	B	D	
Magnesium Sulfale Maleic Acid	B	B	B	B C	AB	A	A B	B	A	AB	A	A	A	A	A	A	-
Maleic Anhydride	B	B		B	B		B	B	B	D	C	D	B	D	D		
Malic Acid Mah Beverage	B	B	D	D	B		B	B	<u> </u>	A	A A	B	-A A		A		-
Manganese Carbonate	8				B	<u> </u>	A			B	Å						
Maganese Sulfate Mayonnaise	B	- B	D	D	A		A	1 8-		B	A	B	A	В	B A		A
Meat Juices	B	D		-	A		A			8	A			B	B		
Melamine Resins Methanal		B	-	D B	C A	<u> </u>	C A	B		B	A	D	B	D	B		\vdash
Mercuric Chloride Mercuric Cyanide	D	D	D	D	ß		<u>8</u> A	0	B	A	A	A	A	8	B	(I
Mercurous Nitrate	D	D	-		A		A	D			A		8	B			
Mercury Melhane	D	D	A	AB	A		A	B	B	A	A	A	A	B	A		-
Methyl Acetate	A	A	B	B	A		A	B	Å	D	B	В	D	D	D	A	
Methyl Acetone Methylamine	A	A	A	AB	A		A	A	8	D	B	. А В	D	D	D	A	
Methy Bromide 100%	((-	D	B		A	B		B	A	D	8	D	D		1
Methyl Cellosolve Methyl Cellulose	A	A	8	B	A		A A	В	B	0	A	B	Ð	D	D	B	+
Methyl Chloride	D	B	B	B	A	ļ	A	B		D	A	D	B	D	D	A	1
Methyl Ethyl Ketone Methylene Chloride	Ā	A	B	A 8	Å	-	A	A B	B	D	A	B	D C	D	D	A	A
Methyl Formate	Ċ	A	C	(B		A	B	В	D	A	B	Ð	B	B	-	A
Methyl Isobutyle Kelone Milk & Milk Products	- A	B	D	D	A		A	В		A	A	A	A	B	A	A	A
Mineral Oils Mineral Spirits	A	B	B	B	A		AB	AB		A	A	D	A	C	1		
Mixed Acids (cold)		D	((8		B	Č		D	D	D	B	D	9	(
Molasses, crude Molasses, Edible	B	A	A	A	A		A	A		A	A	-	A	B	A	A	
Molybdic Acid	A			<u> </u>	A		A				A		<u>^</u>				
Monochloro Benzene Dry Morpholine		В		B	B		B	B		D	C A	8	D	D	D		A
Mustard	B	A	8	B	A	-	A	Å		A	A		A		A	<u> </u>	1-
Naptha Napthalene	A	B	8	B	B	+	B	<u>B</u>	A B	B	A	D	A			A	+
Natural Gas, Sour	B	B	B	B	A		A	D	A	A	A	D	A	D 8	AB	A	-
Nickel Ammonium Sulfate Nickel Chloride	D	D	D	D	A B		A	C B	A	A	(D	B	D A	B	A	A C	Ā
Nickel Nitrate	(D	D	D	B		A	B	B	A	(A 8	A	B	A		
Nickel Sulfate Nicotinic Acid	D A	A	D B	ť	A	-	A	A		A D	$\frac{1}{c}$	D	B	D	D	A	A
Nitric Acid 10% Nitric Acid 30%	D	D D	D	D	A	A D	A	D		(D	8	A	D	B	D	A 8
Nitric Acid 80%	B	D	D	D	(D	B	D		Ð	D	8	8	D	D	D	B
Nitric Acid 100% Nitric Acid Anhydrous	B	D	D	D C	A	D	A	D		D	D	0 0	B	C D	0	D	B
Nitorbenzene	- (D	B	8	A		A	B	B	D	B	((D	D	Å	
Nitrogen Nitrous Acid 10%	A	A	A	A	AB		A	A		A	A B	B	A	B	A	-	+
Nitrous Gases	В	D	B	(A		A	D			B						+
Nitrous Oxide Dils & Fals		B	B	(B		A	D	B	B	<u>A</u>	D	A		- <u>B</u>	A	+
Oils, Animal	A	A	A	A	A		A	B	A	A	A	В	B	C B	8	A	
Oils , Petroleum Refined Oils, Petroleum Sour	A	B	A B	A C	A		A	A	A	A	A	D	A	B	B	A	1-
Cils, Water Mixture	A	Ā	B	8	A		A		A	A	A		A		B	Ā	1
Olaic Acid Oleic Acid	B	В	- C	- C	B		B A	B	B	B	0	D	C A	D		A	A
Oleum	B	(B	Ð	8		B)	B	D	D	D	(8	D	Ð	-
Oleum Spirits Olive Oil	D B	D (B	Ð	D		B A	D		A	D A	D	Á	B	B	D A	
Oxalic Acid	(B	D	D	8	D	B	B		((B	A	B	B	D D	A
Oxygen Ozone, Dry	<u>A</u> B	- A B	- B C	B	A	^A	A	A	A	B	D	B	A 8	A B	D	<u>p</u>	· · · ·
Ozone, Wet	B	8	- (7	A		A	A	Â	D	τ	B	B	B	D	D	\square
Paints & Solvents Palmitic Acid	A	B	A C	A C	B		B	A B		D B	A	D	A	D	B	D	+
Palm Oil	A	B	Ċ	(8		A	A	-	8	A	Ď	A	D	B	A	1
Paper Pulp Paraffin	D A	B A	В	B	A 	-	A	A	A	B	A	B D	B · A	B	B	A	
								· · I			-	L					
Ratings: A-Excellent B-Good C-Po FNW provides this information from r compatibility. It is recommended that	or D-Do	not use sources	without c	aim or v	warranty	expresse	d or imp	lied. FN	IW assum	ses no re	esponsib	III AR	ZOW	AnDE	RA RATIO	Ment	
compatibility. It is recommended that	valve ma	rerials be	tested in	the ser	vice male	anial tor b	cons	deration				EN	/IROI	NMEN	TAL	QUAL	.ITY

FNW		м		Cast Iron	s Steel					lle)				C	ON			CAL LITY
	Alominum	Brass	Carbon Steel	Ductile Iron/Cast Iron	316 Stainless Steel	17-4PH	Allay 20	Monel	Hastelloy C	Buna N (Nitrile)	Delrin	EPDM/EPR	Viton	Hypalon	Neoprene	Nylon	Grafoil	Teflon
Paraformaldehyde Parldehyde	8	B	B	8	B B		B	B	-	B 8	A	D		[B	_	A	A
Pentane	A	A	B	B	A		A	B		A	Å	5	A		B		A	A
Perchlorethylene, dry	B	(B	B	A		A	B	B	D	B	D	A	D	D	A		A
Petrolatum (Yaselien Petroleum Jelly) Phenol	B A	B		 	A	8	A	A	A -	A	A C	D	A B	D	B	<u> </u>		A
Phosphate Ester 10%	<u> </u>		A	Ā	A	, n	Â	A	A	+ ö	A A	A	B	- U-	D	D	<u> </u>	A
Phosphoric Acid 10%	D	D	0	D	D	B	B	D		B	D	B	A	B	A	D	A	Ā
Phosphoric Acid 50% Cold Phosphoric Acid 50% Hot	D	D	D	D	B Ď	B	B		_	B	D	<u>B</u>	A	B	6	0	A	A
Phosphoric Acid 85% Cold	D	D	B	B	Ā	Č	B	Ă	· · · ·	- " -	- <mark>D</mark> -	D	A B	8	B	D	A	A
Phosphoric Acid 85% Hot	D	D	((8	D	B			C	D			8	Ċ	D	A	A
Phospharic Anhydride Phospharaus Trichloride	A D		B	6	A		A	-		D	B	8	BB		D	0	A	A
Phthalic Acid	16-	B	ť	t	B		B	A	B	- .	B	0	A		- -	A A	A	A
Phthalic Anhydride	8	B	C	C	B		B	A	A	Č	A		A		t	Â		Â
Picric Acid Pineopple Juice		1÷	D (D	B	(B	DA	B	()	D	B	B	8	A	B	I	A
Pine Oil	+ ^	+ È	B	B	A		A	B		A	A	D	A	D	A D			A
Pitch (Bitumen)					A		A			(A	Ď	r - f	j	Ť			Â
Polysulfide Liquor Polyvinyl Acetate	D	D. B		B	B B		A 8	B		B	0	B	8	8	8			A
Polyvinyl Chloride		B		B	B		8				A	B		8			<u> </u>	A
Potassium Bicarbonate	A				A		A	B		8	A		- · ·	-				
Potassium Bichromate Potassium Bisulfate	A	 	<u> </u>	ļ	A		A	A B		B 8	B		B		B			A
Potassium Bistrite	Ċ	ι c	D	D	8		8			A	A	B	A	- C	B A			A
Potassium Bromide	Ċ	Ċ	D	D	A	(8	B		A	Ä	B	Â	8	Â		<u> </u>	Â
Potassium Carbonate	D	B	B	B	8	A	B	B		A	A	B	A	B	A			A
Polassium Chlorate Potassium Chloride		B	B	8	8 8	B	B		B	A	A	B	A	B	A	A	ļ	A
Potassium Chromate	B	B	È	Ē	B	-	B	B	 -	8	Â	B	8	8	Å	- <u>^</u>	<u> </u>	- <u>A</u>
Potassium Cyanide	D	D	8	B	8		B	B	B	A	A	A	A	B	A			A
Potassium Dichromate Potassium Ferricyanide	A	D		C	B	B	A B	B		A	A	B	A	8	A			A
Potassium Ferrocyanide	B	8	t	t	B	––	B	Ā		A	Â	D	A A		À			A
Potassium Hydroxide Dilute Cold	D	D	A	A	8	B	B	A		A	D		D	B	B	B		A*
Potassium Hydroxide to 70%, Cold Potassium Hydroxide Dilute Hot	D	D	B	8 8	B		B	A		B	D	B	D	В	B	B		A* A*
Potassium Hydroxide to 70%, Hot	Ď	0	A	B		D	B	Â		1	1 p	A		A	8			A*
Potassium lodide	D	0	((8	B	B	(A	A	В	A		Å			A
Polassium Nilrate Polassium Oxalale	A	B	B	8	B	<u> </u>	H A	B	B	A	A	B	A	B	A			A
Potassium Permanganate	B	B	B	B	B	B	B	B	- B-	A	Â	B	Ă	- B	A			A
Potassium Phosphate	D	((B		B	B	8	A	A	A	A	B	A	A		Ā
Potassium Phosphale Di-basic Potassium Tri-basic	B	B	A	A	A B		A	B	B	A B	A	B	A		A	A		A
Potassium Sulfate	A	B	B	Ĉ	A	A	Å	B		A	A	A	A	B	A	A		A A
Potassium Sulfide	8	B	B	B	A		A	(A	A	A	B	B	B	B	A		Ä
Patassium Sulfite Producer Gas	8 8	<u>B</u>	B	B	AB	<u> </u>	A	C A	8	B	A	A D	B	B	B	A		A
Propane Gas	A	A	B	B	B	A	A	- Ê	A	A	A	D	A A	B	B	A		A
Propyl Bromide	B	8		B	B		A	B		B	A	B	B	Ď	B			Ā
Propylene Glycol Pyldine	A B	B	B	<u>B</u> 8	B	_	B A	B		A D	C D	B	A	B	A			A
Pyrolaalic Acid	B	8		B	B	B	A	B	-	A A	A		D		D A			A
Quench Oil	Ā	8	8	B	A		A			A	Â		Â	B	l î	<u> </u>		A
Quinine, Sulfate, dry		-	,		A	B	A	B		ļ.,	A				<u> </u>			A
Resins & Rosins Resorcinal	A	A	+	- <u>`</u>	A	B 8	A	B		<u>ــــــــــــــــــــــــــــــــــــ</u>	A		A		<u> </u>	A		A
Road Tar	A	A	A	A	A		A	A		B	A	D	A	D	(Â
Roof Pitch	A	A	A	A	A	<u> </u>	A	A		B	A		A		(A
Rosin Emulsion R P-1 Fuel	A	B A	A	C A	A		A	A		D B	A		B A			- · ··-		A
Rubber Latex Emulsions	Å	A	B	B	Â		A	1		<u> </u>	A	<u> </u>	A					A
Rubber Solvenis	A	A	A	A	Á		A	A		D	(D	-	(<u> </u>		A
Salad Oil Salicylic Acid	B	B	C D		B	-	A B	B		A -	A	8	A	8	A			A
Sali (NaCl)	B			((A B	-	A	A	+		A	8	A	B	A			A
Salt Brine	B	B	<u> </u>	Ď	B		B	- B		Ā	A	B	<u>B</u>	D	D	7		A
Saverkraut Brine		,	_		B		B			[C		I		L., .			A
Sea Water Sewage		$\frac{1}{c}$	D	D	B	A	B	A B		A	AB	A B	A B	C B	A	C		A
Shellar	A	Ă	À	8	À	- ⁴	A	A	1	A	A	°	- °		A			A A
Silicone Fluids	B	B	L	B	8		B			B	A		B	B	B			A
Silver Bromide	- D -	1	1	1	A	(A	B	1	1	D –	1	1	1	1	1		A

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Ratings: A-Excellent B-Good C-Poor D-Do not use Blank-No information FNW provides this information from numerous sources without claim or warranty expressed or implied. FNW assumes no responsibility. It is recommended that valve materials be tested in the service material for best consideration.

ARIZONA DEPARTMENT OF

JAN 15 2008

OMPATIBILITY	Aluminum	Brass	Carbon Steel	Ductile Iron/Cast Iron	316 Stainless Steel	1 <i>7-</i> 4PH	Alloy 20	Monel	Hastelloy C	Buna N (Nitrile)	Delrin	EPDM/EPR	Viton	Hypalon	Neoprene	Nylon	Grafoil	Teflon
Silver Cyanide	0	D		D	A	-		A	B		B	D		8	8		Ľ	A
Silver Nitrale Silver Plating Sol.	D B	D	D	D	A A		A	D		(A D	A	A	8	6			A A
Soap Solutions (Slearates) Sadium Acetate	C B	AB	A	B	A B		A	A	8	A	A	AB	A	1 B D	8 B	A		A
Sodium Aluminate	D	B	č	Ċ	A	-	B	B	B	A	A	B	÷A	B	Å	Å		A
Sodium Benzoute Sodium Bicarbonate	B			6	8		B	B		A	B B	A	A	8	A			A
Sodium Bichromate	A				B		6			0	A			B				A
Sodium Bisulfate 70% Sodium Bisulfite TO%	D	B B	D	D	A		A B	B	B	A	D	8 B	A	B	A	A		A
Sodium Borate Sodium Bromide 10%	B	B	Ç	(D	B		8 B	B		A	A	B	A	8	A			A
Sodium Cargonate (Soda Ash)	D	8	C B	B	A	+	A	B	B	A	A	8 8	A	B	A	A		A
Sodium Chlorate Sodium Chloride	C B	B	- C	((B		B	C A	B B	A	A	B	A	B	A	A	B	A
Sadium Chromate	D	Ċ	B	B	A		B	B		Â	A	6 3	A		A	A		A
Sadium Citrate Sadium Cyanide	D		8-	B	B	B	B			A	A	8	A	B	A			A
Sodium Ferricyanide	Ā		_		A		Å	B			A				<u> </u>			Á
Sodiulm Fluoride Sodium Hydroxied 20% Cold		A C	D	D A	B A	B	A	B A		A	A D	8	AB	B	A		A	A*
Sadium Hydroxide 20% Hal	D	A	B	B	A	(Å	A		B	D	B	(B	B	(A	A*
Sodium Hydroxide 50% Cold Sodium Hydroxide 50% Hot	D	A	A	B	A	- B	A A	A		A B	D	B	C	B	A B	-(A	A*
Sadium Hydroxide 70% Cold	D	A	A	A	A	B	8	A		B	D	8	Ç	B	C	7	A	A*
Sadium Hydroxide 70% Hot Sadium Hypochlorite (Bleach)	D	B	B	B D	A		- "	B D	A	D	D	В	C A	B	D	C B	A	A*
Sadium Hyposulfite	B				B	1	B	B			A.						-	A
Sodium Lactate Sodium Metaphosphate	A	(⁻	B	(A B	B	A B	D	A	A	A B	B		B	A		A	<u>A</u>
Sadium Metasilicate Cold Sadium Metasilcate Hot	B	B	C	C D	A A		A	A	A	B	A	_	8	8	A	A		A
Sodium Nitrate	A	B	B	B	A	B	A	B	B	C	A	8-	A	B	B	A		A
Sodium Nitrite Sodium Perborate	AB	B		- 8	B		<u>B</u>	B	B		B	A	B	+c	D B	A		A
Sodium Peroxide	Ċ	D	C	T	B	B	B	8	B	Ċ	A	A	A	8	B			A
Sodium Phosphate Sodium Phosphate Di-basic	D				B 8	B	8 8	B	B	B	B	A	A	B	A	A		A
Sodium Phosphate Tri-basic	D	Ċ	Ċ	Ċ	B		8	B	B	B	Ă	A	Å		B	Ā		A
Sadium Polyphosphate Sodium Salicylate		-			B		B	B	8	₿ [.]	A	A			B			A
Sadium Silicate Sadium Silicate, hot	B	B	B	8	B		B	<u>8</u>		A	A	8	A	B	A	D	-	A
Sodium Sulfate	B	B	B	B	A	B	A	A		A	B A	A	A	Å	A	D		A
Sadium Sulfide Sadium Sulfite		0	8	B	A	A	B	B	B	A	A	8 R	A	B	A	A		A
Sodium Tetraborate		<u> </u>		A	A		A	D	0	A	A	B	0	0	A	0		A . A
Sodium Thiosulfate Soybean Oil	B	C B	B		B	A	B	B		A	A B	A B	A	B	A	A		A A
Starch	B	B	- t	(T	B		A	A		A	A	Č	Â	B	Ā			A
Steam (212°F) Stearic Acid	A	A C	A (A {	AB	· A	A B	B	A	D A	D A	B	A	B	D	A	A	<u>A</u>
Styrene	A	A	A	B	A		A	B	A	D	A	D	B	D	Ď	A		A
Sugar Liquids Sugar, Syrup & Jam	A B	B	B	B	A	A	A	<u>A</u>		A	A	B	A	D	A B			A
Sulfale, Black Liquor Sulfale, Green Liquor	<u> </u>	C	(C	B	A	B	B	_	Ç	(B	ç	D	I			A
Sulfale, White Liquor		((- C	- C	B	B	B D	B C	<u> </u>		A D		- - -	D	B		-	A
Sultur Sultur Chlorides	A D	DB	(D	C D	B D		A	B		D	A	B	B	<u> </u>	((A
Sulfur Dioxide, dry	- -	B	B	B	A	A	B	B	A	D	A	C A	A	D	D	A	A	A
Sultur Dioxide, wet Sultur Hexafluoride	C A	D			A	(B	A	B	D	D	B		B	DB		A	A
Sulfur, Molten	A	D	(B	B	+	A	D	B	D	D	B	B	B.	р С			A A
Sulfur Trioxide Sulfur Trioxide, dry		B	B	B	B	B	B B		B	D	D		B	D	D		D	A
Sulfuric Acid 0 to 77%	A ((D	D	Ċ		B	B		D B	A D	B	A	D B	D	A D	D	A
Sulfuric Acid 100% Sulfurous Acid	D	(C	B	AB	B	AB	D	B	D	D	(B	B	D	D	0	A
tall Oil	Ċ	B	B	B	B		B	B	A	B	A	Ď	A	D	B	D	<u>A</u>	A
Tannic Acid (Tannin) Tanning Liquors	C	8	((<u>B</u>	B	B	B	B	B	A	B	A	B	B	A		A
Tar & Tar Oils	A	A	A	A	A	A	A	A		ť	A	D	A	D	D			A
Tartaric Acid Tetraethyl Lead	B	B	D	D	A B	A	AB	B	B	(A	B	A	8	B	_	+-	A
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CHEMICAL COMPATIBILITY

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	Varnish Vegetable Oils Vinegar Vinyl Acetate Water, Distilled Water, Fresh		A C B A A	A B B A A	C B D C	C B D D C	Å Å Å Å	A A	A A B A A	A B B A A	A A A A A	C A D C C	A B D A A	D D A B B	B A D A	D B C B A	B D B B B	A C	A	A A A A A
1	Tolual (Taluene) Tomato Juice Transformer Oil Iribulyl Phosphote Trichloroacetic Acid Triethonolamine		Å Å Å D B	A C B A B B	A C A B	A C B A C D	A A A B D B	Å	A A A B B B	Å Å Å B B	A A A	D A D D C C	(4 4 D 4	D B D B	B _ A D B D	D D D B	±D A B D D D 8	A A	A	A A A A A

Ratings: A B C D Blank FNW provides this information from numerous sources without claim ar warranty expressed or implied. FNW assumes no responsibility for errors within this information regarding material compatibility. It is recommended that valve materials be tested in the service material for best consideration.

DOC: FNWCHEMCOMP05 Ver, 7/05

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JAN 15 2008

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	- Alominum	Brass	Carbon Steel	Ductile Iron/Cast Iron	316 Stainless Steel	17-4PH	Alloy 20	Monel	Hastelloy C	Buna N (Nitrile)	Delrin	EPDM/EPR	Viton	Hypalon	Neoprene	Nylon	Grafoil	Tefion
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sodium Phosphate	D	<u> </u>			- B		8		A	A	A	8	B	B	A			A
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ARIZONA DEPARTMENT OF ENVIRONMENTAL QUALITY JAN 15 2008 Waste Programs Div. Permits Section

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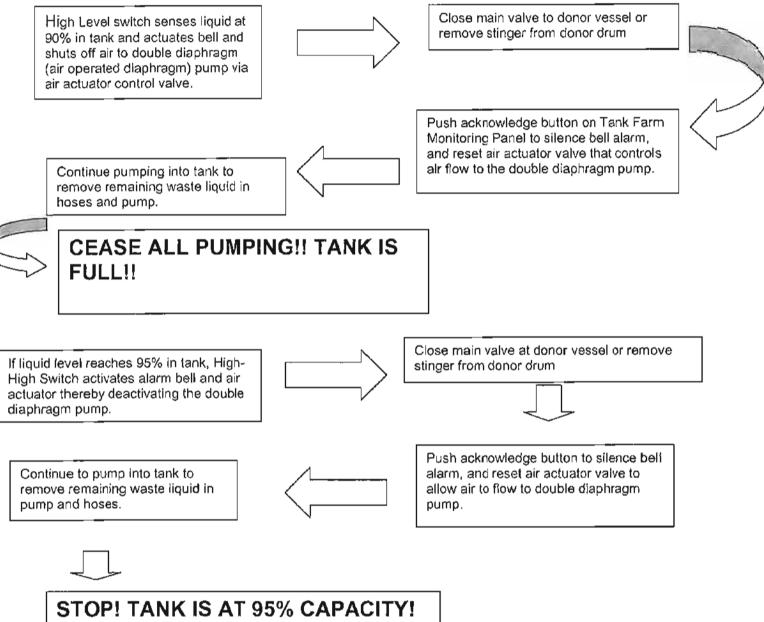
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Section D Revision No. 13 Date: 03/25/10

EXHIBIT D-4

Tank Farm Control Flow Diagram

Tank Farm Control Flow Diagram



DO NOT PUMP ANY MORE LIQUIDS INTO THE TANK!!

Section D Revision No. 13 Date: 03/25/10

APPENDIX D-1

CONTAINER STORAGE SECONDARY CONTAINMENT CALCULATIONS

Clean Harbors Arizona LLC - Phoenix Secondary Containment Capacity - Calculations Container Storage Area - CSA I

7/19/2009

(1) Reference Documents:

- 1 Survey drawings GUIDA Surveying Inc., stamped 7-13-09
- 2 Calculations for containment capacity increase excel spreadsheet dated June 27, 2008
- 3 Report of findings sprinkler hydraulics Grainger consulting Inc. dated June 9, 2008
- 4 Container storage secondary containment calculations AKE Inc. dated Jan. 10, 2008

(2) Containment Calculations Summary

Per AKE Inc report, CSA I, had adequate containment capacity to provide secondary containment as required by 40 CFR 264.175(b)(3) for the storage of containers as shown in the report. The calculated net available capacity was identified as Vuse of 493.9 cubic feet.

Grainger report on sprinkler hydraulics showed that the CSA I did not have adequate containment capacity to hold the sprinkler water for the required period of time. Grainger report identified the minimum required capacity to be 1417.11 cubic feet.

Based on the capacity requirement per Grainger report, minimum increase in containment curbs and ramps was calculated. Facility has made improvements to the containment curbs and ramps in order to increase the secondary containment capacity of the CSA I area. The area has been re-surveyed to account for those improvements. The floor configuration has remained same, only the perimeter curbing and ramps have been altered.

Based on the recent survey, the lowest elevation (70.13 TO⁻) occurs at the crest line in the personnel aisle leading to the man door at north west corner. Using this elevation as the maximum liquid level and series of calculations, gross containment capacity has been determined. The average liquid depth was used to estimate the volume that would be displaced by the immersed pallets and containers.

The gross containment capacity of CSA I is = The displacement volume of pallets and containers is = Therefore, the net secondary containment capacity =

1869.53 cu.ft 441.63 cu.ft 1427.89 cu.ft

The net secondary containment volume, 1427.89, is larger than the minimum containment volume needed, 1417.11, per Grainger report.

Therefore, CSA I has adequate containment capacity.

Page 1 of 6



(3) Detail Calculations

Figure -1 provides CSA I configuration and overall dimensions obtained from AKE Inc report.

For the ease of volume calculations,

the total containment area is divided into four separate areas - one large area, two small areas formed due to ramps and access ramp area. See Figure -2, for point elevations and area sub division.

Area 1 - bound by pts 13,15,16 & c - is 11 ft X 3.5 ft. Area 2 - bound by pts a,9, c & 5 - is 70.83 ft X 36.88 ft. Area 3 - bound by pts 1,3,4 & a - is 28.8 ft X 4.5 ft Ramp Area - bound by pts 11,13,15 & d - is 11.88 ft X 3.5 ft.

The elevations for these points is obtained from GUIDA survey and are tabulated below. From GUIDA survey, the lowest curb point elevation, 70.13, is on the crest line within the personnel passage towards the NW doorway. This would be the maximum liquid level. For the points a, b & c no elevations are available and have been selected as being same as the nearest surveyed point.

Maximum liquid depth is calculated using the maximum possible liquid level elevation of 70.13

Page 2 of 6

Point	Floor Elevation	Maximum I	iquid depth	Top elevation
	in ft.	in ft.	in inches	in ft.
1	69.44	0.69	8.28	
2	69.54	0.59	7.08	
3	69.51	0.62	7.44	
a = 1	69.44	0.69	8.28	
b=2	69.54	0.59	7.08	
4	69.48	0.65	7.8	
5	69.41	0.72	8.64	
6	69.43	0.7	8.4	
7	69.45	0.68	8.16	
8	69.43	0.7	8.4	
9	69.43	0.7	8.4	
11	69.47	0.66	7.92	
12	69.5	0.63	7.56	
13	69.49	0.64	7.68	
c=16	69.4	0.73	8,76	
15	69.47	0.66	7.92	70.16
16	69.4	0.73	8.76	
d				70.2

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TABLE - 1

Maximum liquid depth is based maximum liquid level of 70.13 ft.

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Page 3 of 6

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AREA 1 - containment volume

Figure -3, shows the shape and configuration of the volume at max mum liquid level.

The average liquid depth of the area = 0.69 ft. The gross containment volume = 11' X 3.5' X 0.69' = 26.57 cu.ft.

AREA 2 - containment volume

Figure -4, shows the shape and configuration of the volume at maximum liquid level. The average depth along the west edge, crest line and east edge have been calculated to be

West edge	=	0.7 ft
Crest line	=	0.63 ft
East Edge	=	0.72 ft

The gross containment volume, based on the average cross section

= 70.83 x 18.44 (0.7 + 0.63)/2 + 70.83 x 18.44 (0.63 + 0.72)/2 = 1750.18 cu.ft.

AREA 3 - containment volume

Figure - 5, shows the shape and configuration of the volume at maximum liquid level. The average depth along the west edge, crest line and east edge have been calculated to be

West edge	=	0.69 ft
Crest line	æ	0.59 ft
East Edge	=	0.63 ft

The gross containment volume, based on the average cross section

- $= 4.5 \times 18.44 (0.69 + 0.59)/2 + 4.5 \times 10.36 (0.59 + 0.63)/2$
- 81.55 cu.ft.

Page 4 of 6

and the second
RAMP AREA - containment volume

Figure - 6, shows the shape and configuration of the volume at maximum liquid level.

The average liquid depth of the area = 0.63/2 ft. The gross containment volume = $11.88' \times 3.0' \times 0.63'/2$ = 11.23 cu.ft.

Therefore, total gross containment volume of the entire CSA l is = 26.57 + 1750.18 + 81.55 + 11.23 cu.ft. = 1869.53 cu.ft.

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Displacement Volume
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Since liquid depth s greater than 6.5" within the entire area, all pallets will be submerged.

From reference document #2 & #4,

of drums per layer = 332 # of pallets per layer = 83 displacement volume of each pallet = 3.708 cu.ft. pallet height = 6.5 inches

Therefore the displacement volume due to pallets = 83 x 3.708 = 307.76 cu.ft.

Most drums are located in area 2. The average liquid depth in the area = 0.67 ft.

therefore, average immersion height of the each drum = 8.04 - 6.5 = 1.54 inch

drum diameter provided in reference documents is 22 inches, however, for the worst case displacement calculations,

assume all drums to be 24" diameter.

Therefore, foot print area of each drum = $3.142 \times 2' \times 2'/4 = 3.142 \text{ sq. ft.}$

Page 5 of 6

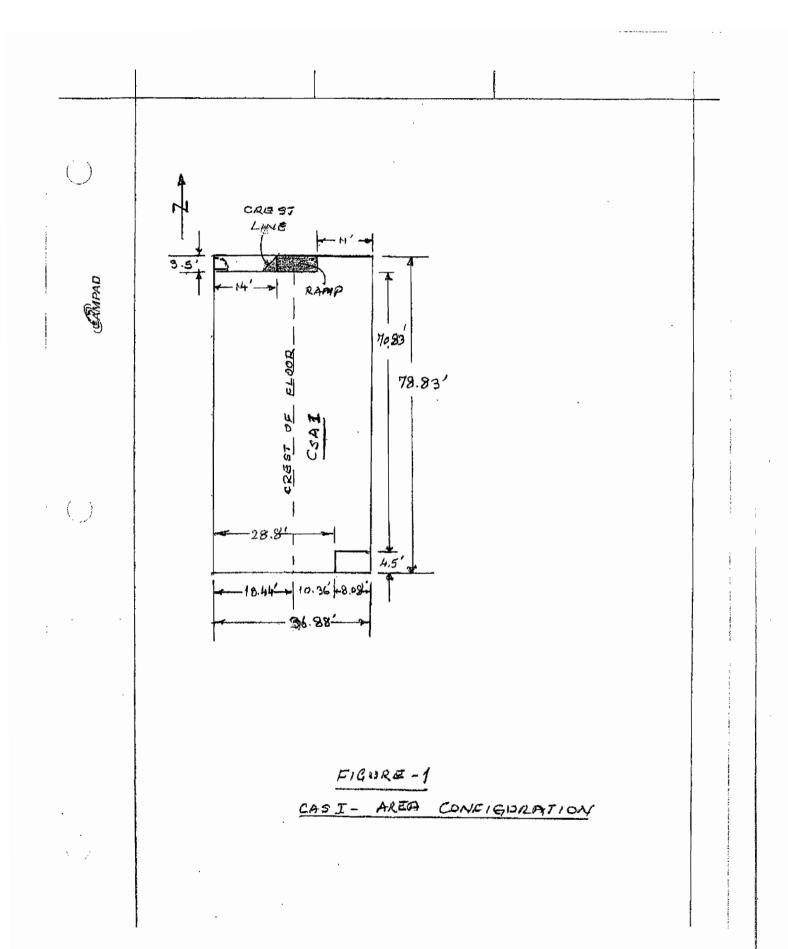
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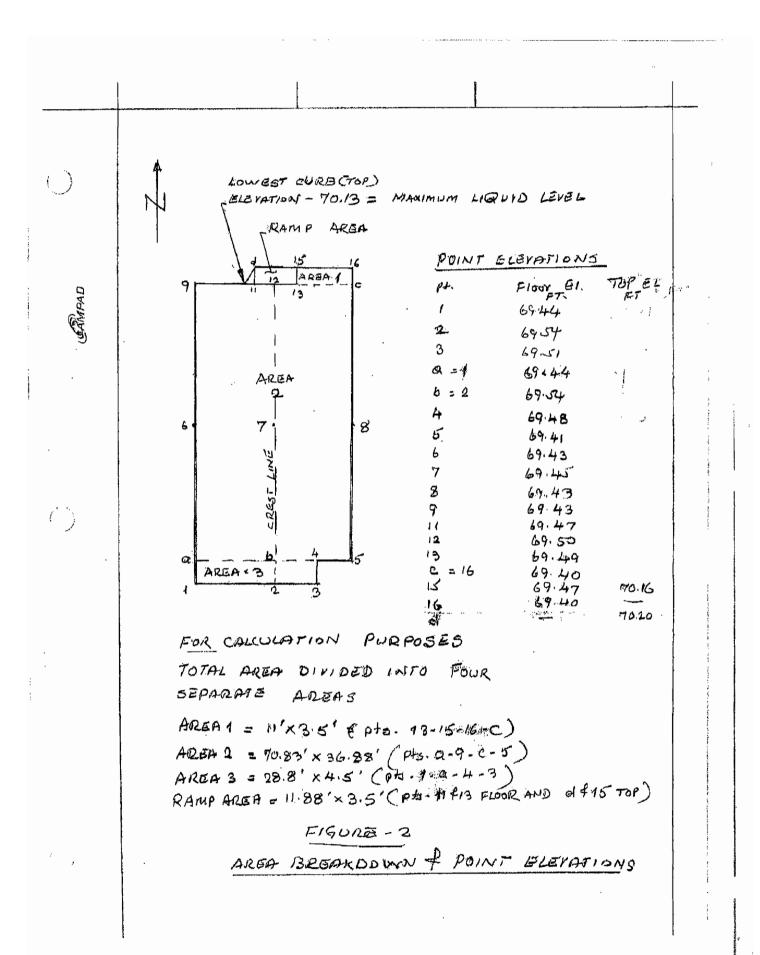
8.04 inch

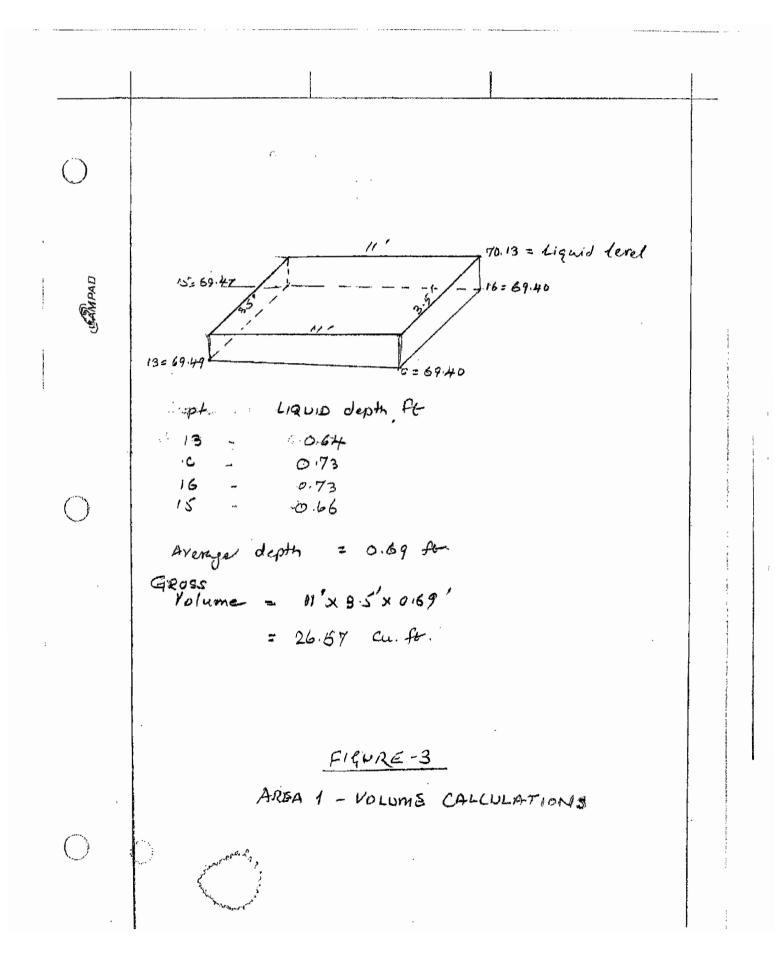
The displacement volume of immersed portion of the drums =			3.142 x 1.54/12 x 332		
			= 133.8	37 cu.ft.	
Total displacement volume	=	307.76 + 133.87	=	441.63 cu. ft.	
Therefore, net available containment volume = 1869.53 - 441.63			=	1427.89 cu.ft.	
The required minimum containment volume based on Grainger report is			port is =	1417.11 cu.fl.	
Hence, area CSA I has adequa	ite containi	ment capacity.			

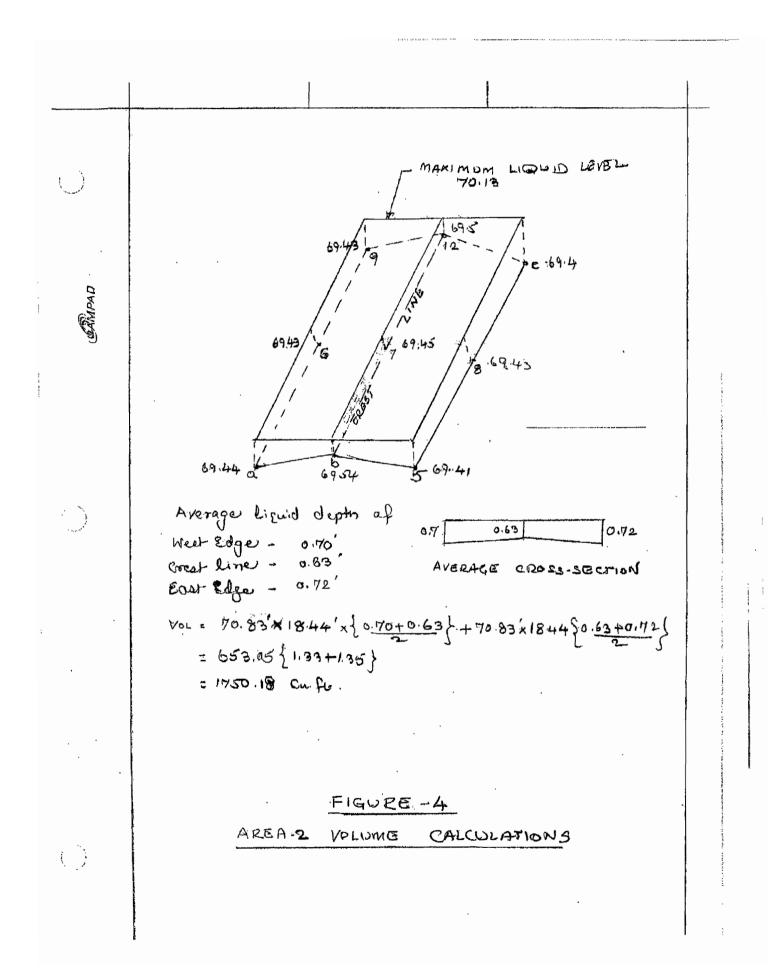
Page 6 of 6

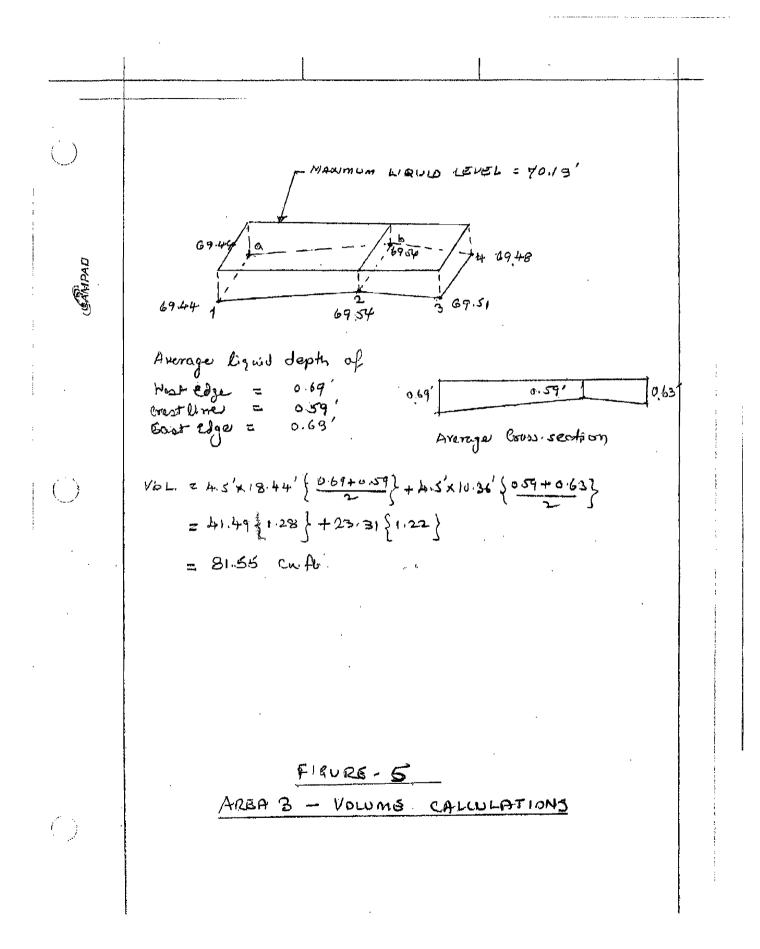
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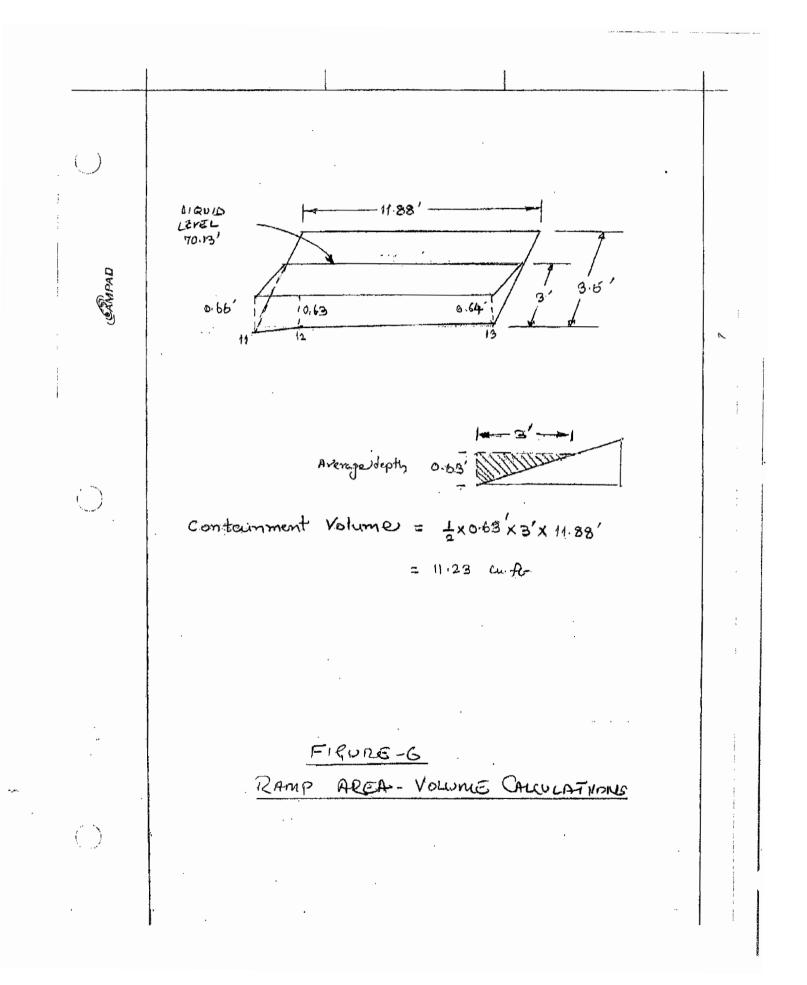












CSA I Containment Calculation Summary

Containment Storage Area I (CSA I) is a covered storage area within the Clean Harbors Arizona, LLC facility at 1340 West Lincoln Street, Phoenix, Az. CSA I is required to have sufficient secondary containment capacity to contain the volume of the largest container or 10% of the volume of all containers, whichever is larger as required by 40 CFR 264.175(b)(3). In this case, 10% of the volume of all containers stored in this area is the greater volume.

The volume of liquid contained is dependent on the elevations and configurations of the floor, surrounding walls, curbs, and ramps. Pallets and containers submerged in liquid displace volume and reduce the available containment volume.

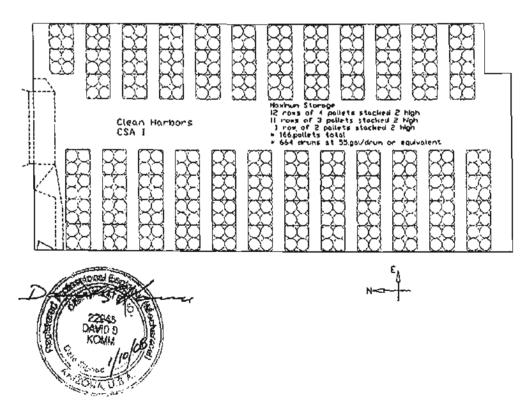
Elevations from a survey of the existing containment area were used to create a 3 dimensional model of the containment area floor using a Computer Aided Drafting (CAD) program and calculate the resultant liquid volume if a spill were to occur. The average liquid depth was used to estimate the volume that would be displaced by immersed patters and containers. The volume available for containment was then calculated as the liquid volume minus the volume displaced by pallets and containers.

Vcalc = 575.7 cu.ft. = total containment volume of CSA 1 <u>Vdisc = -81.8 cu.ft.</u> = volume displaced by pallets in the liquid Vuse = 493.9 cu.ft. = usable containment volume

Vreq = 488.2 cu.fl. = required containment volume for CSA I = 10% of maximum stored liquid volume

The usable containment volume, Yuse, is greater than the required containment volume, Vreq. therefore CSA I has adequate secondary containment volume.

This storage area is configured to store a maximum of 664 drums at 55.gal/drum or the equivalent liquid. The drums all sit on pallets. The low point of the containment structure is the 69.66 TC (top of curb) by the door in the northwest corner.



Required Containment:

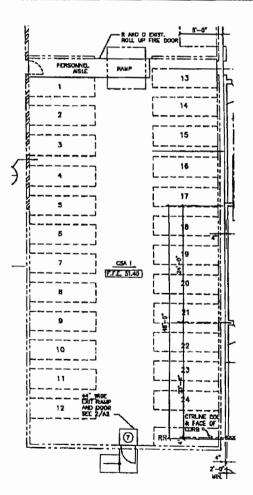
CSA1 is delineated for 12 rows of pallets on each side as shown in the next drawing "Clean Harbors Floor Plan at CSA II and Loading Dock", Dwg.No. 581-ADA-104R. Rows 1 through 12 each have the capacity to hold 4 pallets, double stacked, from the wall toward the center of the room. Row 13 has the capacity to hold 2 pallets, double stacked, from the wall toward the center of the room. Rows 14 through 24 each have the capacity to hold 3 pallets, double stacked, from the wall toward the center of the room. Each pallet is estimated to support containers holding the equivalent of four 55 gallon containers. The maximum volume of liquid contained in CSA I is then:

V = (12 rows * 4 pallets + 1 row * 2 pallets + 11 rows * 3 pallets) * 2 pallets high * 220 gal/pallet * (1 cu.ft./ 7.48 gal)

= 4882 cu.ft (Based on 664 drums of 55 gallons equivalent containers)

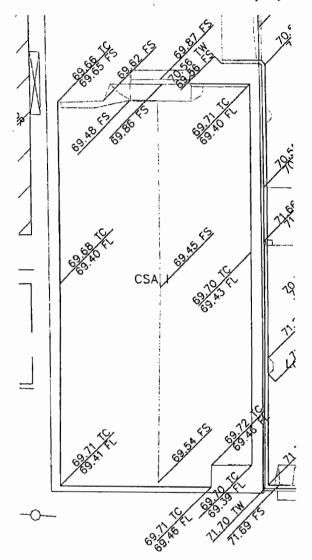
The requirement is found in 40 CFR 264.175 paragraph (b)(3) which states: "The containment system must have sufficient capacity to contain 10% of the volume of containers or the volume of the largest container, whichever is greatest." The required containment volume is then:

Vreq = 10% * 4882 cu.ft. Vreq = 488.2 cu.ft. = required containment volume for CSA I



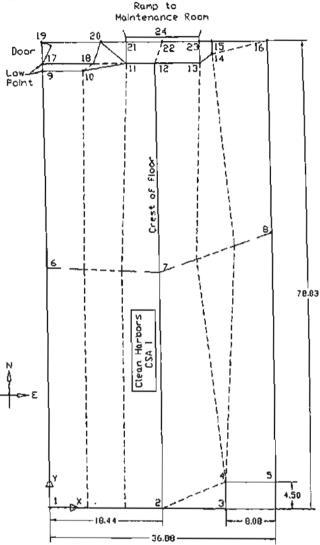
CSA I Elevations

Elevations obtained from Guida Surveying, Inc. are shown below. Elevations are given in height above sea level minus 1000 ft so that 69.40 is actually 1069.40 ft above sea level. These points were used along with a few interpolated points to create a 3-D model of the floor. The floor model was then extruded vertically and cut off at a level corresponding to the top of the liquid level. The volume of the resulting solid was calculated and used as the maximum containment capacity of CSA I.



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The plot below shows some dimensions of CSA I. Numbers denote points at which elevations were determined by Guida Surveying, Inc. or estimated based on the Guida Surveying points. A table that gives X and Y coordinates and elevations is included.



Dimensions to the inside of the curbs were obtained during AKE's site visit and used along with north end ramp dimensions from the Guida Surveying drawing. A tabulation of X, Y, floor elevation (FS), and top of curb elevation (TC) for the different points is on the next page.

These points were used to create a 3-D CAD model representation of the floor. The floor was assumed to have a linear slope from the creat lengthwise through the area down to the east and west sides. The dashed lines in the picture above show the way the floor was broken up into areas to create the 3-D model. This floor model was extended vertically to create a solid and then trimmed at 69.66 feet elevation to create a volume that represents the containment volume of CSA I. 69.66 feet is the lowest curb elevation tecrnate by Guida Surveying therefore this will be the maximum height of fluid that could be contained in CSA 1.

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Clean Harbors - CSA I

Points as placed on a floor plan of CSA I The south east corner of the building is X = Y = 0.0The floor is surrounded by a curb that is roughly 3" high.

Survey elevations FS and TC are elevations above sea level minus 1000.ft. so that 69.41 is really 1069.41ft above sea level.

FS = Finished Surface = floor elevation

TC = Top of Curb, n/a means this point was not near a wall or curb

The top of the liquid level will = lowest TC

		Points in feet			69.66 ft	= top of liquid level
point	<u>X~ft</u> .	<u>Y~ft</u>	FS	TC	depth~ir	
1	0.00	0.00	69.41	69.71	3.00	
2	18.44	0.00	69.54	69.7 1	1.44	
2 3	28.79	0.00	69.46	69.71	2.40	
4	28.79	4.50	69.46	69.72	2.40	
5	36.88	4.50	69.39	69.7	3.24	
6	0.00	40.35	69.40	69.68	3.12	
7	18.44	39.60	69.45	100	2.52	
8	36.88	46.27	69.43	69.7	2.76	
9	0.00	74.17	69.48	69.66	2.16	estimated point
10	6.60	74.17	69.48	n/a	2.16	estimated point
11	13.80	75.33	69.48	n/a	2.16	
12	[8.44	75.33	69.50	n/a	1.92	estimated point
13	25.78	75.33	69.50	n/a	1.92	estimated point
14	27.86	76.81	69.50	n/a	1.92	estimated point
15	27.86	78.83	69.50	n/a	1.92	estimated point
16	36.88	78.83	69.40	69.71	3.12	
17	0.00	75.33	69.65	69.66	0.12	
18	8.35	75.33	69.62	n/a	0.48	
19	0.00	78.83	69.66	n/a	0.00	estimated point
20	9.60	78.83	69.65	n/a	0.12	estimated point
21	13.80	78.83	69.86	69.86	0.00	estimated point
22	19.79	78.83	69.86	69.86	0.00	
23	25.78	78.83	69.86	69.86	0.00	
24	19.79	79.58	69.87	69.87	0.00	

The low point from the Guida Surveying data is at the door at the north end of the west wall where the top of curb has an elevation of 69.66 feet. This is at points 9 and 17. The containment volume calculated from the 3-D CAD model is given below.

Vcalc = 575.7 cu.ft = the calculated containment volume of CSA I

Average Liquid Depth:

The average liquid depth is calculated to determine how much of the pallets are immersed in the liquid. This depth will be used to calculate the volume displaced by the pallets.

Davg = containment volume / room area = Vcalc / $((78.83 - 4.50)^{4}(36.88)) = 575.7 / 2741$ = 0.210 ft = 2.52 inches

Displaced Volume

Volume available for containing spills will be reduced by the volume displaced by the pallets and bottoms of containers that are in the liquid. The volume displaced will depend on the depth of the liquid surrounding the pallets and containers. The maximum depth in CSA I is 3.24", so only the pallets will be immersed in liquid in the event of a spill.

The typical pallet was 4 ft x 4 ft and had three $1.5^{\circ}x 5.5^{\circ}$ boards on the bottom, three $3.5^{\circ}x 3.5^{\circ}$ beams at 90 degrees in the middle, and a top of closely spaced $1.5^{\circ}x 5.5^{\circ}$ boards. An estimate of the volume displaced can be calculated by assuming that all of the pallets sit in the average liquid depth of 2.52 inches. This would immerse the three boards on the bottom and 1.02° of the three $3.5^{\circ}x 3.5^{\circ}$ beams in the middle of the pallets. The volume displaced by a pallet in 3° of liquid would be:

Vpailet = (3*(1.5" * 5.5" * 48") + 3*(3.5" * 1.02" * 48")) / 1728 cu.in./cv.ft. = 0.985 cu.ft./ pallet

The total volume displaced by pallets would be:

```
Vdisp = (12 rows * 4 pallets + 1 row * 2 pallets + 11 rows * 3 pallets) * Vpallet.
= 83 pallets * 0.985 cu.ft/pallet
```

Vdisp = 81.8 cu,ft = volume displaced by portion of pallets immersed in liquid

The total usable containment volume in CSA I is then:

Vuse = Veale - Vdisp = 575.7 cu.ft. - 81.8 cu.ft.

<u>Yuse = 493.9 cu.ft. = usable containment volume in CSA I</u>

The usable containment volume (481 cu.ft.) exceeds the required containment volume (494 cu.ft) therefore CSA I has more than the required secondary containment volume.

Clean Harbors Arizona, LLC – Phoenix Secondary Containment Capacity Calculations CSA II

7/20/09

Reference Documents

- 1. Survey drawings GUIDA Surveying Inc. stamped 7-13-09
- Calculations for containment capacity increase excel spreadsheet dated June 27, 2008
- 3. Report of findings sprinkler hydraulics Grainger consulting inc. dated June 9, 2008
- 4. Container storage secondary containment calculations AKE Inc. dated Jan 10, 2008.

Containment Calculation Summary

Facility CSA II area has three separate sections where drums are stored. Each area independently has adequate containment capacity to meet RCRA requirements for secondary containment. However, west ramp needed to be raised in order to provide additional containment capacity to meet fire code requirements. Facility has made the improvements and specific area has been re-surveyed.

Based on new survey and AKE Inc reported elevations, the point # 44, located at the northern edge of the southern most ramp (man door ramp) on east side, becomes the lowest elevation point for the containment wall. The elevation at that point is 70.45 ft. Modified ramp on west side has new elevation in the range of 70.53 to 70.59 ft. Therefore, for containment capacity calculations, maximum liquid level will be considered to be 70.45 ft.

Within the CSA II area, facility stores incompatible waste containers on containment pallets. These incompatible waste pallets will be located in the section B, and, if and when needed, first pallet (two high), closest to the section B, of each row of section A & C. This has been depicted on the container layout plan, figure -7.

In calculating the net containment capacity, volume displaced by these pallets has been taken into account. For net containment capacity calculations, it is assumed that entire section B and the first pallet in each row of section A & C are occupied with containment pallets.

The Gross containment Capacity of the CSA II area = 3,378.05 cu. ft. The total displacement volume due to pallets and containers = 999.51 cu. ft. The net containment capacity = 2378.54 cu. ft.

Required containment capacity from Grainger report = 2,283.42 cu.ft.

Net containment capacity of CSA II exceeds the required minimum capacity. Therefore, CSA II has adequate secondary containment capacity.



Detailed Calculations

For the ease of containment capacity calculations, CSA II is divided into six areas. Using the coordinate data from the AKE Inc. report dimensions for each area is closely approximated to a rectangular shape as shown on Figures 1, 2 & 3, and, as outlined below.

- Area 1 : Section A 49.84' x 29.6' bound by pts. 4, 6, 39, 38, 37 & 16
- Area 2 : Section B 49.84' x 31.55' bound by pts 16, 37, 42, 48, 49, 51, 53, 56 & 24
- Area 3 : Section C 49.84' x 38.85' bound by pts. 24,56, 58, 60, 61, 36 & 31
- Area 4 : North sloped area in staging/transfer aisle 15.58' x 26.14' bound by pts. 26, 27, 30 & 29
- Area 5 : South sloped area in staging/transfer aisle 15.58' x 24.33' bound by pts. 1, 3, 15 & 13.
- Area 6 : Middle portion of the area in staging/transfer aisle 15.58' x 49.53' bound by pts. 13, 15, 27, 26, 70, 69, 68 & 17

The areas occupied by ramps are deducted from the respective sections and the containment volume contribution of ramp area is ignored.

Table -1, CSA II – Area survey elevations, provides data from the AKE Inc report and the new elevations for the modified portion from the re-survey. The tabulation of liquid depth at each point is also provided.

Table -2, Gross containment volume for section A, B & C, provides current containment capacity due to increase in ramp height, by using AKE report calculated volumes and adding the incremental volume due to increase in liquid level.

(1) Gross containment volume

(A) Area 1 : Section A

Figure –1 shows the shape and configuration of the volume at maximum liquid level. The average depths of south and north edge are 1.1 ft and 0.34 ft, respectively.

The gross containment volume from Table -2 is = 1,042.23 cu. ft.

(B) Area 2 : Section B

Figure -2 shows the shape and configuration of the volume at maximum liquid level. The average depths per AKE and after improvement are = 1.38 inch & 5.76 inch.

The gross containment volume from Table -2 is = 685.20 cu. ft.



(C) Area 3 : Section C

Figure -3 shows the shape and configuration of the volume at maximum liquid level. The average depths of south and north edge are 0.30 ft and 1.06 ft. respectively.

The gross containment volume from Table -2 is = 1,330.59 cu. ft.

(D) Area 4 : North sloped Staging Aisle

Figure -4 shows the configuration and containment volume calculations. Most of the ramp area will be out of water. Only bottom 5 ft will some water.

The gross containment volume = 11.68 cu. ft.

(E) Area 5 : South sloped Staging Aisle

Figure – 5 shows the configuration and containment volume calculations. About half of the ramp area will be out of water.

The gross containment volume = 61.40 cu. ft.

(F) Area 6 : Center portion of Staging/transfer Aisle

Figure -6 shows the configuration and containment volume calculations. Average liquid depth will be = 0.32 ft.

The gross containment volume = 246.94 cu. ft.

Total gross containment volume of the entire CSA II = 3,378.05 cu. ft.

(2) Displacement volume due to containers and pallet

(A) Area -1: Section A

The Figure -8 shows the liquid depth profile. The container layout is shown on Figure -7, and the Table-3 shows detailed displacement volume calculations.

Five wooden pallets per row will be completely submerged. One wooden pallet and one containment pallet per row will be partially submerged. 160 containers will also be partially submerged.

The displacement volume = 392.56 cu. ft.



(B) Area -2: Section B

From Table-2, the average liquid depth for the entire section B is 5.76 inches. Per Figure-7, there are 39 pallets in this section and it is assumed that all should be considered as containment pallets.

Therefore, as calculated in Table -3, the displacement volume = 224.56 cu. ft.

(C) Area -3: Section C

The Figure – 8 shows the liquid depth profile. The container layout is shown on Figure –7, and the Table-3 shows detailed displacement volume calculations.

Six wooden pallets per row will be completely submerged. One wooden pallet and one containment pallet per row will be partially submerged. 192 containers will also be partially submerged.

The displacement volume = 398.22 cu. ft.

(D) Area -4: North Sloped Area in Staging Aisle

There is only 5 feet of area where there would be some accumulated liquid. Refer to figure -4. Therefore, based on the Figure -7, it appears that 1.5 pallets per row will be partially under water. The average liquid depth in this area is 1.8 inches. Therefore, from Table -3,

The displacement volume = 3.09 cu. ft.

(E) Area -5: South Sloped Area in Staging Aisle

This area has two different slopes, slope 1 – steep slope and slope 2 –a very gradual slope. It appears that there would be 1 pallet located in liquid on slope 1, and 3 pallets on slope 2. The average liquid depth for each slope is provided on figure -5. Therefore, from Table -3,

The displacement volume = 7.14 cu. ft.

(F) Area -6: Middle Area in Staging Aisle

This area has a access ramp and will have 1.5 pallets x 2 rows on the north end and 2 pallets in one row on the south end. The average liquid depth in the area is 0.32 ft. Refer to figure-6. Therefore, per Table-3,

The displacement volume = 10.99 cu. ft.

The total displacement volume for the entire CSA area = 999.51 cu. ft.



TABLE - 1 CSA II - Area - Survey Elevations Clean Harbors Arizona, LLC – Phoenix

Liquid depth is based on the maximum liquid elevation of 70.45 ft.

Point	Elevation	evation Elevation De		Depth		
	Floor, ft	Top, ft	ft	inches		
	~~ ~ ~ ~	74.00				
1 2	71.11	71.66				
2 3	71.11					
	71.11	71.73				
4	69.33	71.73	1.12	13.44		
5 6	69.35	71.74	1.10	13.20		
7	69.37 69.38	71.76 70.55	1.08 1.07	12.96		
8	69.43			12.84		
о 9		70 55	1.02	12.24		
9 10	70.17 70.20	70.55	0.28 0.25	3.36 3.00		
11 12	70.16		0.29	3.48		
12	69.77 70.11	70.55	0.68	8,16		
	70.11		0.34	4.08		
14 15			0.33	3.96		
16	70.14		0.31 0.33	3.72		
17	70.12 70.17	 70.55	0.33	3.96		
18	70.17		0.28	3.36 3.36		
19	70.14		0.28	3.30		
20	70.14 70.59				re-survey	
20	70.10		 0.35	4.20	re-survey	
22	70.10		0.33	3.96		
22	69.90		0.55	6.60		
23	70,13		0.32	3.84		
24	70.13		0.32	3.84		
26	70.13 70.14	70,94	0.32	3.72		
27	70.16	10,94	0.31	3.48		
28	70.08		0.23	4.44		
29	72.00	72.08	0.37	4.44		
30	72.03	72.08				
31	69.36	72.08	1.09	13.08		
32	69.48	12.00	0.97	11.64		
33	69.61		0.84	10.08		
34	69.43		1.02	12.24		
35	69,60	70.95	0,85	10.20		
36	69,42	70.99	1.03	12.36		
37	70.10		0.35	4.20		
38	69.95		0.50	6.00		
39	70.15	70.50	0.30	3.60		
40	70.15	70.50		3.00		
40 41	70.08		0.37	4.44		
41	10.00		0.37	4.44		



Page 1 of 2

TABLE - 1 CSA II - Area - Survey Elevations Clean Harbors Arizona, LLC – Phoenix

Liquid depth is based on the maximum liquid elevation of 70.45 ft.

Point	Elevation	Elevation	Depth		
	Floor, ft	Top, ft	ft	inches	
42	70.06		0.39	4.68	
43	70.09		0.36	4,32	
44	70.45	70.51	0.00	0.00	Spill point level
45	70.49	70.49			
46	70.52	70.52			
47	70.48	70.48			
48	69.96		0.49	5.88	
49	69.89	70.51	0.56	6.72	
50	69.82	70.53	0.63	7.56	
51	69.79	70.55	0.66	7.92	
52	69.84		0.61	7.32	
53	69.97		0.48	5.76	
54	70.18		0.27	3,24	
55	70.86	70.86			
56	70.18		0.27	3.24	
57	70.91	70.91			
58	70.04		0.41	4.92	
59	70.87	70.87			
60	70.00		0.45	5.40	
61	69.99	70.91	0.46	5.52	
62	70.53	70.56			same as 63
63	70.53	70.56			re-survey
64	7 0 .59	***			same as 20
65	70,53	70.53			re-survey
66	7 0.53	70.53			same as 65
67	70.35	70.53	0.10	1.20	interpolation
68	70.10	70.53	0.35	4.20	
69	70.08	70.53	0.37	4.44	
70	70.06	70.53	0.39	4.68	
71	70.15		0.30	3.60	

All data points and elevations are taken from the AKE Inc report, only the points in

BOLD *Italic* were re-surveyed after improvements and show new elevation per revised survey. Point # 44 - shows the lowest curb elevation, hence, that elevation would be the maximum liquid level that can be had in the containment area.

Points for which liquid depth is not shown/calculated will not be submerged.



Table - 2 Gross Containment volume - Sections A, B & C Clean Harbors Arizona, LLC - Phoenix

			◀	From AKE inc. Report	>			
Area	Overall Dimensions in ft. (note 1)	Net Surface Area, sq. ft. (note 1)	Gross Volume cu.ft.	Liquid elevation used for containment volume calculations, ft. (note 2)	Liquid depth, Havg, inch (note 2)		Gross volume to the maximum liquid level of 70.45 ft, in cu. ft. (note 3 & 4)	Liquid depth, New Havg, Inch
	а	b	c	d	е	f = 70.45 -d	g =c + (b x f/12)	h = e + f
Area 1 - section A	49.84 x 29.6	1445.84	514.5	70.085	4.56	4.38	1042.23	8.94
Area 2 - Section B	49.84 x 31.55	1490.42	141.2	70.085	1.38	4.38	685.20	5.76
Area 3 - Section C	49.84 x 38.85	1883.72	727.8	70.13	5.1	3.84	1330,59	8.94
Area 4 - North sloped area in staging aisle	15.58 x 26.14						11.68	1.8
Area 5 - South sloped area in staging aisle	15.58 x 24.33						61.4	3.11
Area 6 - middle portion o the transfer aisle	15.58 x 49.53						246.94	3.84

Total Gross Containment Capacity of CSA II area

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3378.05

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Notes:

Net surface area is calculated by deducting the area for the ramps. Refer to Figure -1, 2 & 3 for area configuration/layout and surface area calculations for Areas 1, 2 & 3.
 All dimensions are derived from the AKE Inc. report, using coordinate data and closely approximating each area to a rectangular shape.
 Gross volume, liquid evaltion and the average depth. Havg, are taken form AKE Inc report.
 Using the liquid level from AKE Inc and the new liquid level of 70.45, the additional depth of liquid is derived as a difference. With added depth additional configuration and volume calculated to arrive at the new gross containment capacity and new Havg, the average liquid depth.
 The configuration and volume calculations for transfer/staging aisle areas, areas 4, 5 & 6 (north sloped, south sloped and middle portion) is provided in figures 4, 5 & 6.



Table -3 Displacement volumes Clean Harbors Arizona, LLC - Phoenix

(1)	Wooden Pallets		
	Displacement volume Height of the wooden pallet	3.708 cu. ft. 0.54 ft	Per AKE report Per AKE report - 6.5"/12"
(2)	Containment Pallet		
	Overali dimensions Containment voiume displacement voiume	53" x 53" x 12" 66 gals 12.00 cu. ft.	New Pig model PAK606-WOD 8.82 cu. ft, See Figure - 9 for configuration (53x53x4+48x48x4+6x3.142x7 x 7/4+3x3.142x6x6/4)/1728
(3)	Containers		x 1/4/000.142X0X014/11/20
	Diameter Cross sectional area	24 inch 3.142 Sq. ft.	2' x2' x 3.142/4
(4)	Area -1: Section A		
	Refere to Figures - 7 & 8		
	# of wooden pallets totally submerged # of wooden pallets partially submerged # of containment pallets partially submerged average depth for partially submerged pallets # Of containers partially submerged average depth for partially submerged containers	40 8 0.44 ft 160 0.28 ft	8 rows x 5 pallets/row 8 rows x 1 pallets/row 8 rows x 1 pallets/row 8 rows x 5 pallets/row x 4 drums/pallet
	Displacement volume	355.48 cu. ft.	40 x 3.708 + 8 x 3.708 x 0.44/0.54
(5)	Area -2: Section B		+ 160 x 3.142 x 0.28 + 8 x 12.00 x 0.44
	Average liquid depth for the section # of containment pallets for the section The displacement volume	5.76 inch 39 224.59 cu.ft.	Per Table -2 Per Figure -7 39 x 12 x 5.76/12
(6)	Area -3: Section C		
	Refer to Figures 7 & 8		
	# of wooden pallets totally submerged # of wooden pallets partially submerged # of containment patiets partially submerged average depth for partially submerged pallets # Of containers partially submerged average depth for partially submerged containers	48 8 0.42 ft 192. 0.26 ft	8 rows x 6 pallets/row 8 rows x 1 pallets/row 8 rows x 1 pallets/row 8 rows x 6 pallets/row x 4 drums/pallet
	Displacement volume	398.22 cu. ft.	48 x 3.708 + 8 x 3.708 x 0.42/0.54 + 192 x 3.142 x 0.26 + 8 x 12.00 x 0.42
(7)	Area -4: North Sloped Area in Staging Alsie		+ 192 X 3.142 X 3.20 + 3 X 12.00 X 0.42
	Refer to AKE report Figure 2 and Figures 4 & 7 of 1	this report	
	# of wooden pallets - partially submerged Average liquid depth	3 1.8 inch	See Figure -4 See Figure -4
	Displacement volume	3.09 cu. ft.	1.5 x 3 708/0 54 x 1 8/12

Page 1 of 2



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Table -3					
Displacement volumes					
Clean Harbors Arizona, LLC - Phoenix					

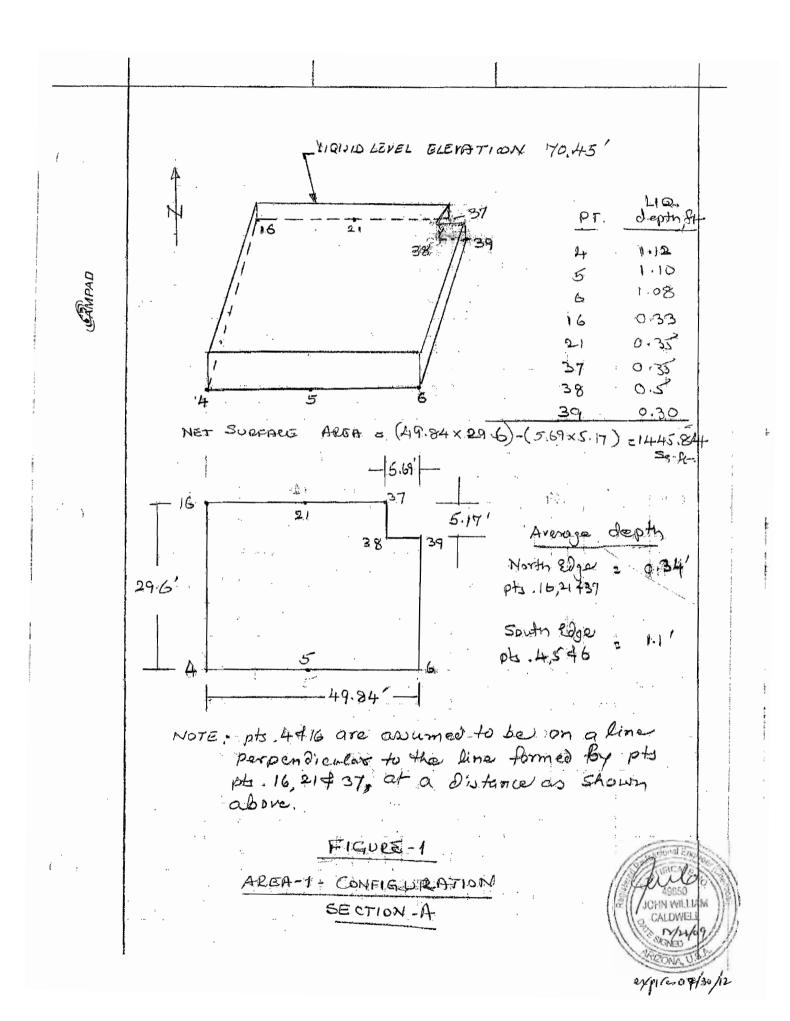
(8)	Area -5: South Sloped Area in Staging Aisle		
	Refer to AKE report Figure 2 and Figures 5 & 7 of this report	t	
	# of pallets partially submerged in slope-1 # of pallets partially submerged in slope-2 Avg. liquid depth in slope 1 area avg. liquid depth in slope 2 area	1 3 0.14 ft 0.3 ft	See Figure -5 See Figure -5 See Figure -5 See Figure -5
	Displacement volume	7.14 cu. ft.	3.708 (1x0.14+3x0.3)/0.54
(9)	Area -6: Middle Area in Staging Alsle		
	Refer to AKE report Figure 2 and Figures 6 & 7 of this report	t	
	# of pallets partially submerged north end # of pallets partially submerged south end Total # of pallets partially submerged in the area Average Ilquid depth	3 2 5 0.32 ft	See Figure -6
	Displacement volume	10.99 cu.ft.	5x3.708x0.32/0.54
	Total displacement volume	999.51 cu.ft	Total of Area-1 through Area -6

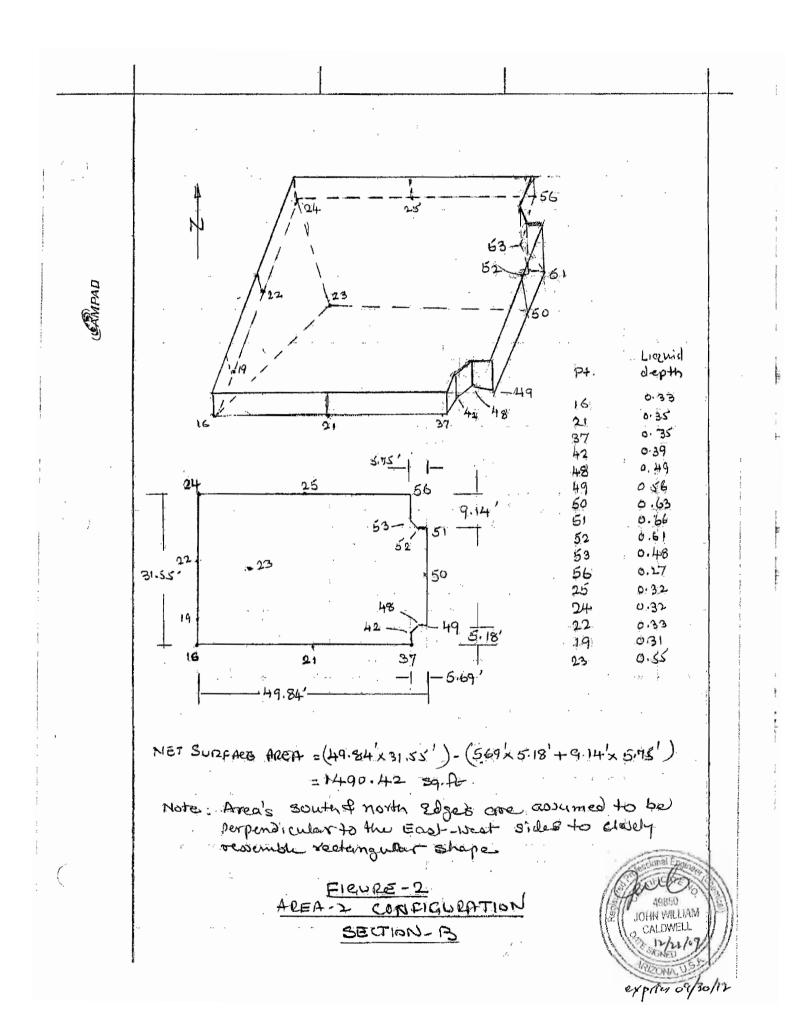
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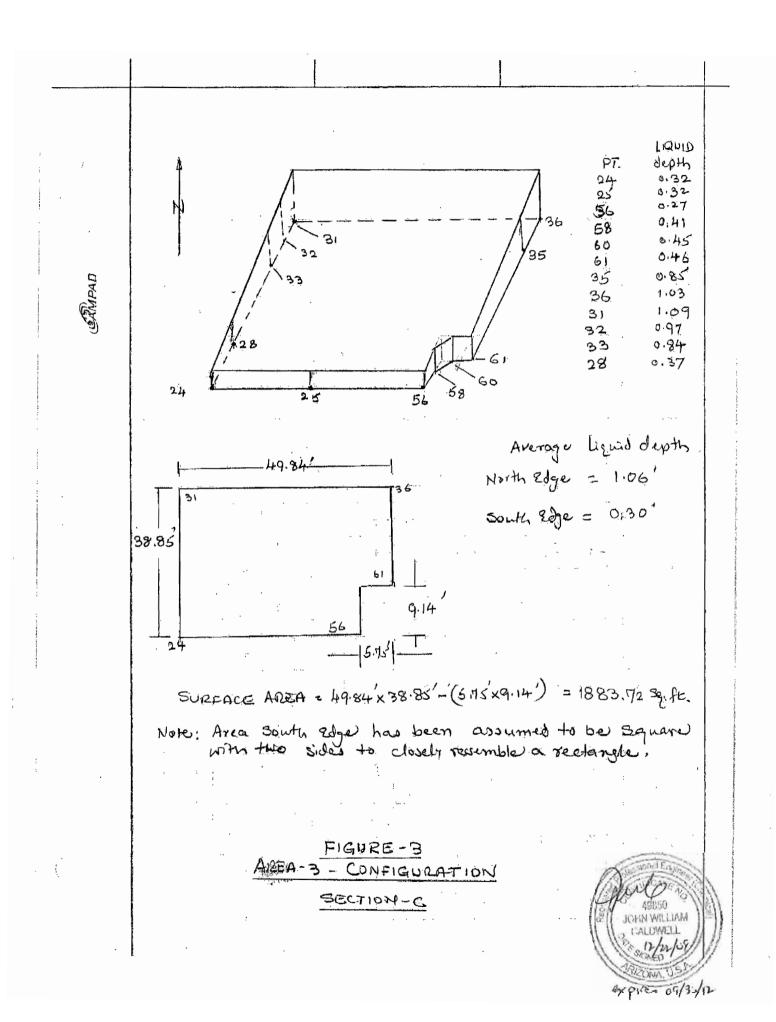


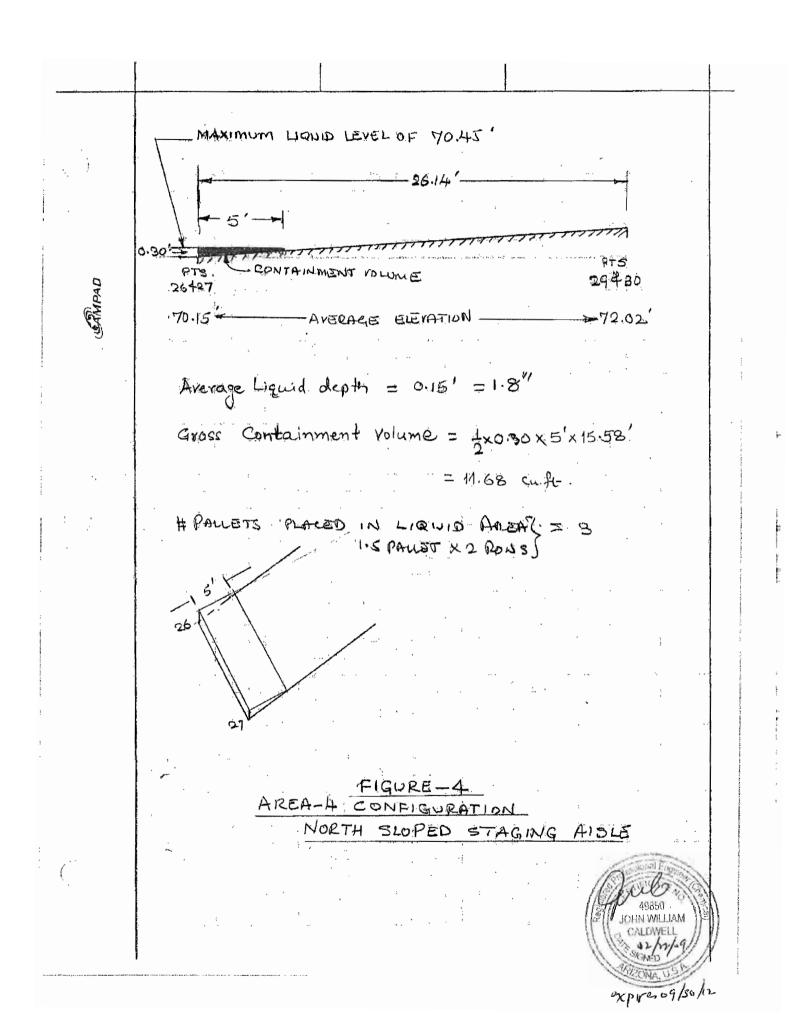
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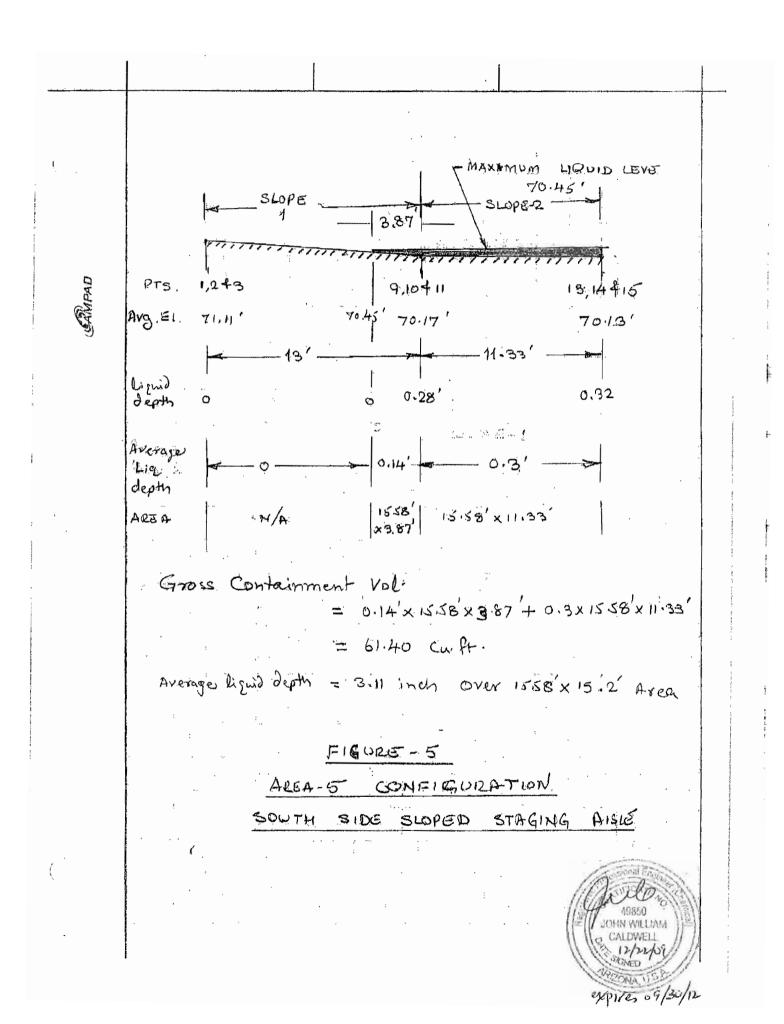
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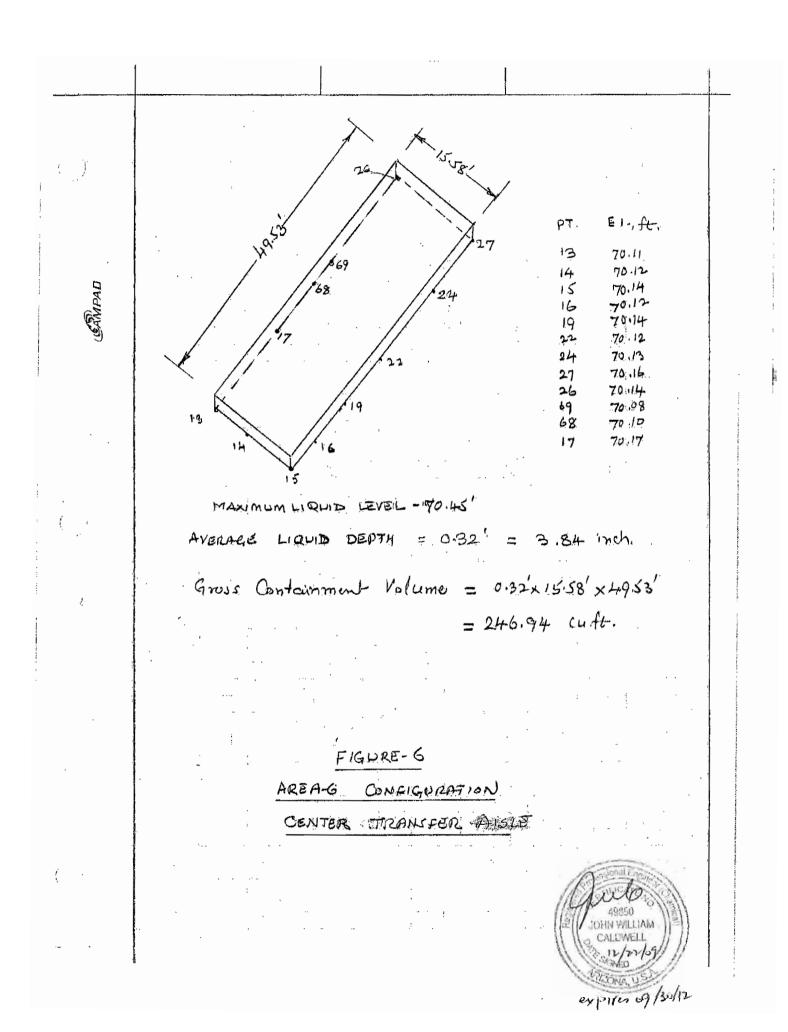


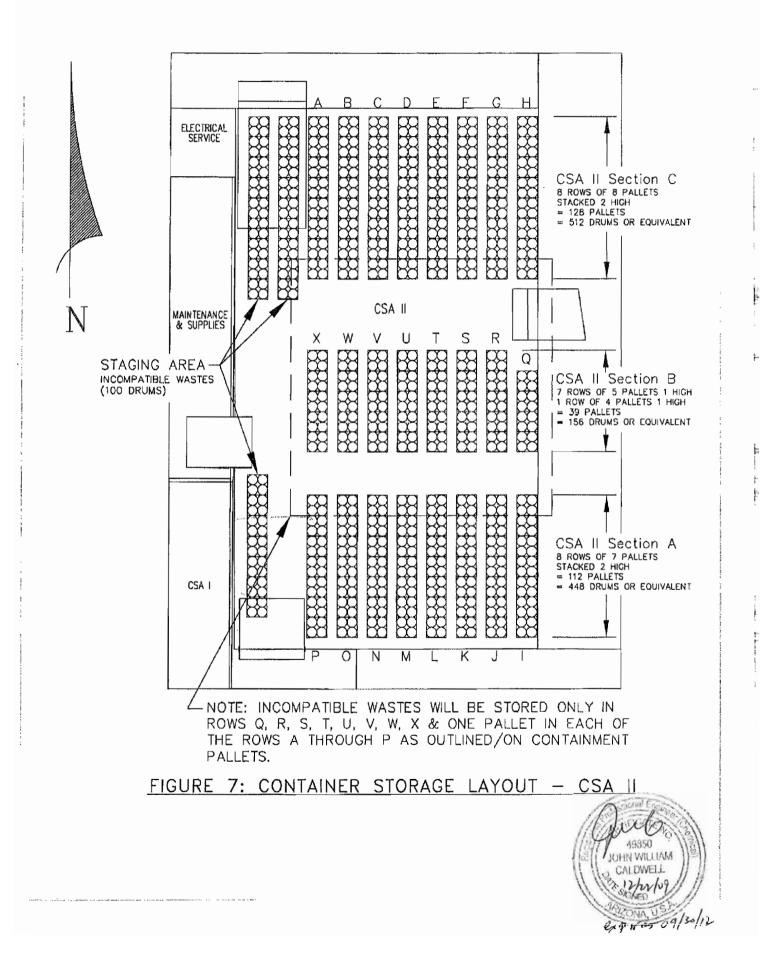


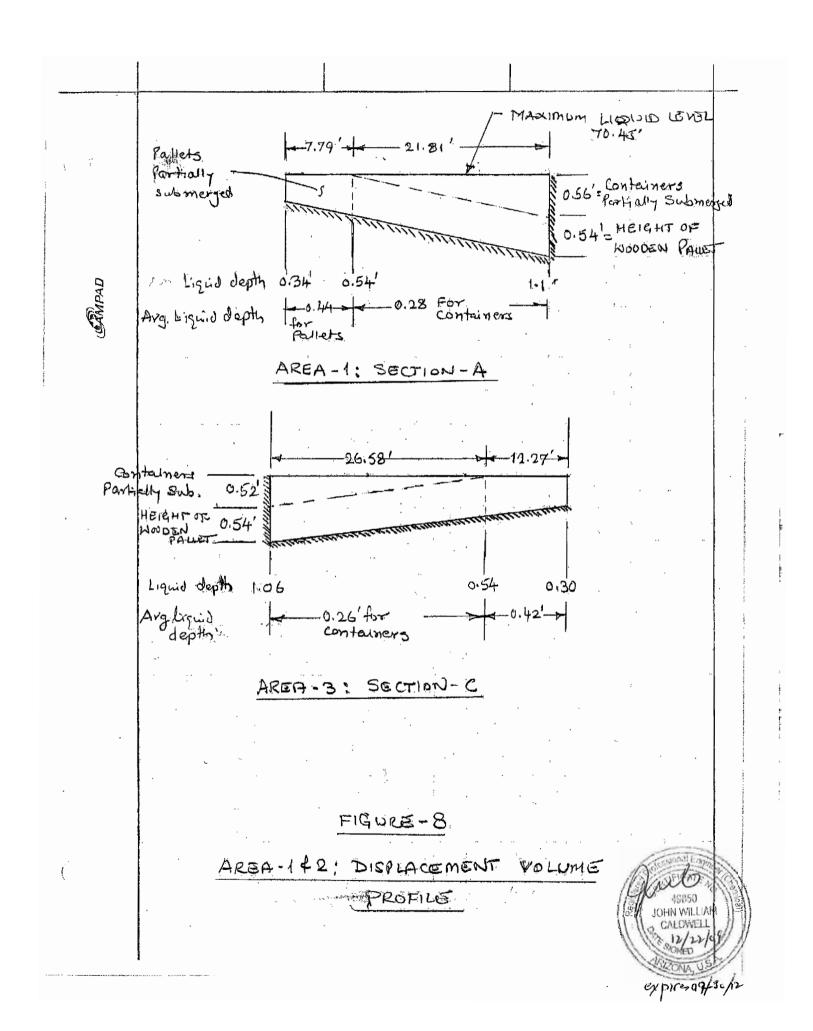


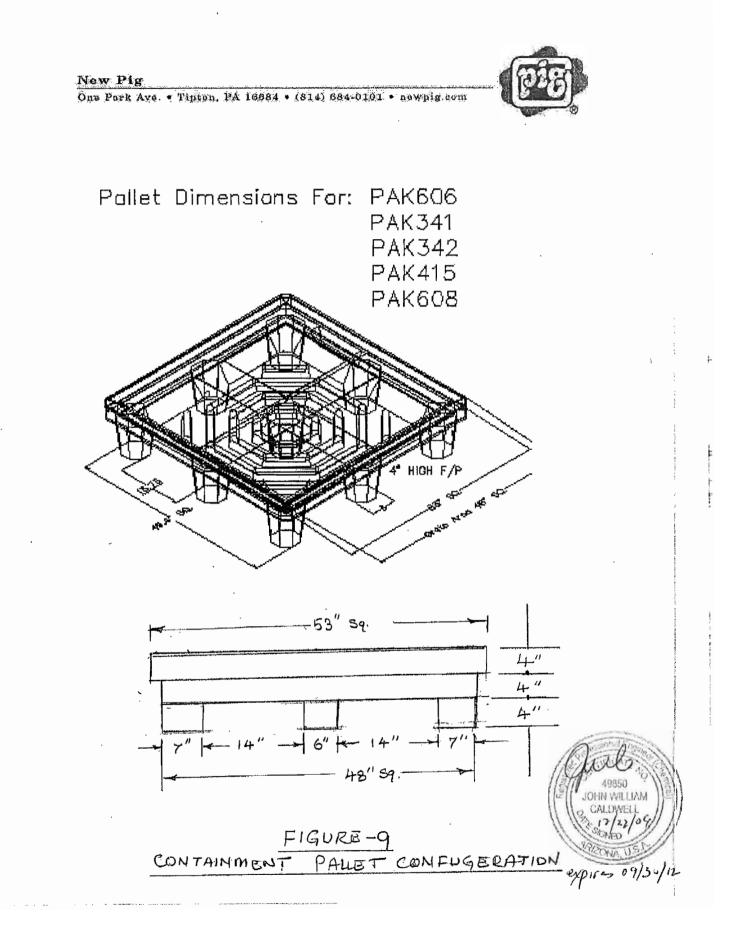












CSA II Containment Calculation Summary

Containment Storage Area II (CSA II) is a covered storage area within the Clean Harbors Arizona, LLC facility at 1340 West Lincoln Street, Phoenix, Az. CSA II is required to have sufficient secondary containment capacity to contain the volume of the largest container or 10% of the volume of all containers, whichever is larger as required by 40 CFR 264.175(b)(3). In this case, 10% of the volume of all containers stored in this area is the greater volume. CSA II secondary containment was calculated for the whole area (including all drums) and section by section (separating the drums by sections).

The volume of liquid contained is dependent on the elevations and configurations of the floor, surrounding walls, curbs, and ramps. Pallets and containers submerged in liquid displace volume and reduce the available containment volume.

Elevations from a survey of the existing containment area were used to create a 3 dimensional model of the containment area floor using a Computer Aided Drafting (CAD) program and calculate the resultant liquid volume if a spill were to occur. The average liquid depth was used to estimate the volume that would be displaced by immersed pallets and containers. The volume available (Vuse) for containment was then calculated as the liquid volume (Vcalc) minus the volume displaced (Vdisp) by pallets and containers.

The calculation below represents CSA II area as a whole and includes all drums seen in Figure 2 on page 2. This calculation shows that if there was a spill event equal to 10% of all drums stored within CSA II, there is more than enough usable containment volume to satisfy 40 CFR 264.175(b)(3).

Vcalc = 1911.8 cu.ft. = total containment volume of CSA II Vdisp = -699.6 cu.ft. = volume displaced by pallets and containers submerged in liquid Vuse = 1212.2 cu.ft. = usable containment volume

Vreq = 894 cu.ft. = required containment volume for CSA II = 10% of maximum stored liquid (Based on 1216 drums of 55 gallon equivalent containers)

The usable containment volume, Vuse, is greater than the required containment volume, Vreq, therefore CSA II has adequate containment volume.

CSA II Individual Sections Summary

The floor of CSA II is graded to create 3 sections that will each contain liquid separate from the other sections. The individual sections allow for separation of liquids that may potentially be incompatible with each other. Containment calculations were made for each of these sections (A, B, and C) and are summarized below. All values are in cubic feet and the numbers for CSA II total are included.

The data below represents the results of calculations completed on pages 10-12.

<u>CSA II</u>	A	B	<u>C</u>		Ÿ
1912.	514.	141.	728.	Vcalc = total containment volumes	2
700.	84.	25.	118.	Valc = total containment volumes Vdisp = volume displaced by pallets and containers Vuse = (Vcalc-Vdisp) = usable containment volume	ÿ
1212.	430.	116.	610.	Vuse = (Vcalc-Vdisp) = usable containment volume at	1
<u>894,</u>	<u>329.</u>	1 15.	<u>377.</u>	Vreq = required containment volume	
318.	101,	1.	233.	Excess capability = (Vuse-Vreg)	þ
					ŝ

In summary, evaluating each section we calculated that Figure 1 represents the maximum drums that can be placed in CSA II. This is do to a geometry constraint or a secondary containment constraint. Per Figure 1 drum storage arrangement for each section; if there was a spill event in any section, the section would be able to contain its secondary containment. In the event that there is a leak (10% of 100 drums) in the staging area, there would be enough reserve capacity to secondarily contain the fugitive liquid. The excess capability is described numerically above.

AKE, Inc. 07-112E January 9, 2007

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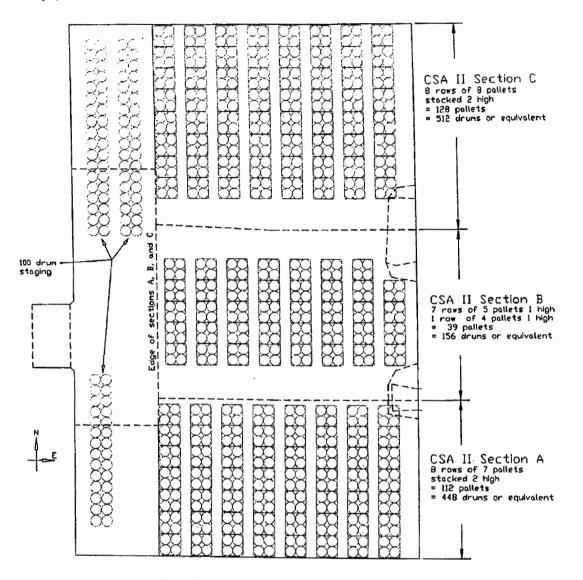


Figure 1: Schematic of stored drums in CSA II

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AKE, Inc. 07-112E January 9, 2007

Required Containment Volume:

Figure 1 above describes the maximum loading of CSA II. CSA II is marked for 8 rows of 7 pallets stacked 2 high on the south side (section A), (7 rows of 5 pallets + 1 row of 4 pallets) stacked 1 high in the middle (section B), 8 rows of 8 pallets on the north side stacked 2 high (section C), and 100 staged drums within the staging area. Each pallet can hold 4 drums with 55 gallon capacity or the equivalent. The calculated maximum liquid stored in CSA II is:

Ndrums = [(8 rows * 7 pallets) * 2 high + (8 rows * 8 pallets) * 2 high + (7 rows * 5 pallets + 1 row * 4 pallets) * 1 high] * 4 drums + 100 drums = 448 drums + 512 drums + 156 drums + 100 drums = 1,216 drums

V = Ndrums * 55 gal/drum * 1 cu.ft./ 7.48 gal = 8,941 cu.ft.

The requirement is found in 40 CFR 264.175 paragraph (b)(3) which states: "The containment system must have sufficient capacity to contain 10% of the volume of containers or the volume of the largest container, whichever is greatest." The required containment volume is then:

Vreq = 10% * 8941 cu.ft.

Vreg = 894.1 cu.ft. = required containment volume for CSA II

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CSA II Elevations

Elevations were obtained from Guida Surveying, Inc. and from a check using a Pro-Level Manometer (water level) in the south loading ramp area. The building interior width and length were measured by AKE, Inc. and a CAD picture of CSA II was created showing locations where elevations were measured. Figure 2 through 5 and the point table defines the floor elevation. The low point surrounding (perimeter) CSA II is 70.20 feet (point 20) and is found at the ramp on the west side leading into the maintenance and supply room. This is the maximum elevation of liquid that can be contained in CSA II before if flows into the maintenance room.

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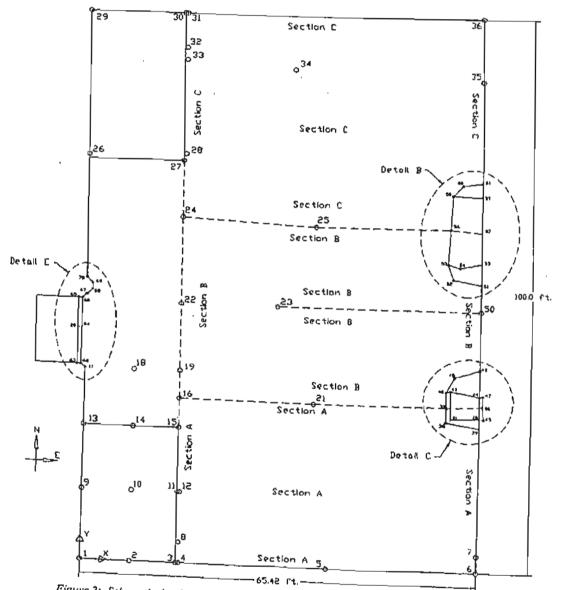


Figure 2: Schematic the shows CSA II, known elevation points, and ramp details

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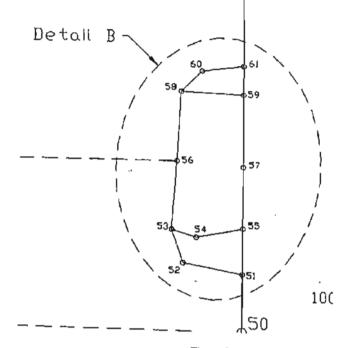


Figure 3-5 are closer view of ramp details seen in Figure 2 in CSA II.

Figure 3: North East ramp detail

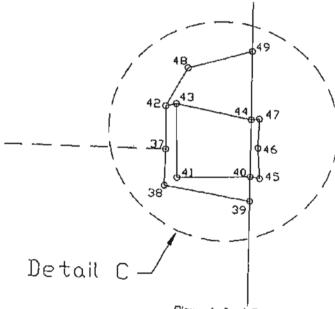


Figure 4: South East ramp detail

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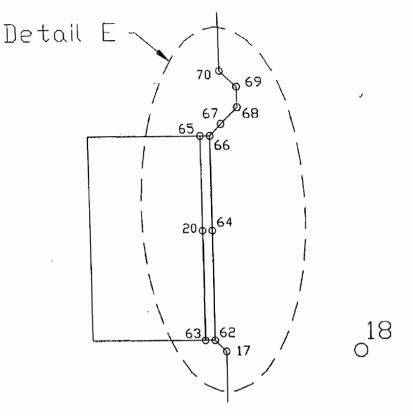


Figure 5: West ramp detail

The Table 1, below, shows the final set of points. The southeast corner of the building is X = Y = 0.0 and the building is 65.42 ft. x 100 ft. Point locations were measured from an AutoCAD drawing supplied by Guida Surveying, Inc.

FS = Finished Surface, floor TW = Top of Wall, TW = ---- if the value is irrelevant

Points as placed on a floor plan of CSA II --- Points in feet --- Depth based on 70.20 ft top of liquid

Table 1: Final Data Points seen in Figure 2

point	<u>X~ft</u>	<u>Y~ft</u>	<u>FS</u>	<u>TW</u>	<u>depth~inches</u>	
1	0.00	0.00	71.11	71.66	0.00	
2	8.00	0.00	71.11		0.00	
3	15.58	0.00	71.11	71.73	0.00	
4	16.00	0.00	69.33	71.73	10.44	
5	40.56	0.00	69.35	71.74	10.20	oint
6	65.42	0.00	69.37	71.76	9.96 estimated p	
7	65.42	2.95	69.38	70.55	9.84	
8	16.00	3.83	69.43		9.24	
9	0.00	13.00	70.17	70.55	0.36	
10 11	8.00 15.58	13.00 13.00	70.20 70.16		0.00 0.48	

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AKE, Inc. 07-112E January 9, 2007

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12	16.00	13.00	69.77		5.16	
13	0.00	24.33	70.11	70.55	1.08	
14	8.00	24.33	70.12		0.96	
15	15.58	24.33	70.14		0.72	
16	15.58	29.60	70.12		0.96	
17	0.00	34.60	70.17	70.55	0.36	
18						
	8.00	34.60	70.17		0.36	
19	15.58	34.60	70.14		0.72	
20	-1.25	41.84	70.20	70.20	0.00	
21	37.85	29.43	70.10		1,20	
22	15.58	46.84	70.12	*	0.96	
23	31.67	46.88	69.90		3.60	
24	15.58	62.58	70.13		0.84	
25	37.77	61.57	70.13		0.84	
26	0.00	73.86	70.14	70.94	0.72	
27	15.58	73.08	70.14		0.48	
28						
	16.00	74.42	70.08		1.44	
29	0.00	100.00	72.00	72.08	0.00	estimated point
30	15.58	100.00	72.03	72.08	0.00	
31	16.00	100.00	69.36	72.08	10.08	
32	16.00	93.85	69.48		8.64	
33	16.00	91.66	69.61		7.08	
34	34.04	90.33	69.43		9.24	
35	65.42	88.69	69.60	70.95	7.20	
36	65.42	100.00				
37				70,99	9.36	1
	59.77	29.42	70.10		1.20	detail C
38	59.73	26.87	69.95		3.00	detail C
39	65.42	25.95	70.15	70.50	0.60	detail C
40	65.42	27.66	70.47	70.47	0.00	detail C
41	60.55	27.44	70.08		1.44	detail C
42	59.74	32.34	70.06		1.68	detail C
43	60.43	32.50	70.09		1.32	detail C
44	65.42	31.59	70.45	70.51	0.00	
45	66.07	27.55				detail C
			70.49	70.49	0.00	detail C
46	65.91	29.70	70.52	70.52	0.00	detail C
47	65.97	31.66	70.48	70.48	0.00	detail C
48	61.14	35.00	69.96		2.88	detail C
49	65.42	36.30	69.89	70.51	3.72	detail C
50	65.42	46.73	69.82	70.53	4.56	linear interpolations between 49 and 51
51	65.42	51.75	69.79	70.55	4.92	detail B
52	60.60	52.64	69.84		4.32	detail B
53	59.67	55.43	69.97		2.76	detail B
54	61.64	54.81	70.18		0.24	
55	65.42	55.59	70.86	70.86		detail B
5.6	60,04	61.62			0.00	detail B
57			70.18		0.24	detail B
	65.42	61.15	70.91	70.91	0.00	detail B
58	60.36	67.69	70.04		1.92	detail B
59	65.42	67.46	70.87	70.87	0.00	detail B
60	62.02	69.56	70.00		2,40	detail B
61	65.42	70.03	6 9.9 9	70.91	2.52	detail B
62	-0.67	35.27	70.16	70.56	0.48	detail E
63	-1.25	35.27	70.24	70.56		
64	-0.67				0.00	detail E
65		41.84	70.18		0.24	detail E
	-1.25	47.33	70.21	70.53	0.00	detail E
66	-0.67	47.33	70.16	70.53	0.48	detail E
67	0	48	70.13	70.53	0.84	linear interpolation

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AND. 100. U/-117.D January 9, 2007

68	1.00	48.92	70.10	70.53	1.20	detail E
69	1.00	50.12	70.08	70.53	1.44	detail E
70	0	51.06	70.06	70.53	1.68	detail E
71	0	41.84	70.15		0.60	linear interpolation

The low point surrounding CSA II is 70.20 feet (point 20) and is found in the middle of the ramp on the west side leading into the maintenance and supply room. If the liquid level exceeds this elevation it will flow over the ramp and into the maintenance and supply room.

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The containment volume of CSA II was calculated by using the 71 points in the table above in a 3-D CAD model to define the floor. This surface model of the floor was extruded vertically and then trimmed at 70.20 feet elevation to define the liquid level that would form from a liquid spill. The volume of the liquid was then calculated by the computer and found to be:

Vcalc = 1911.8 cu.ft. = the calculated containment volume of CSA II

Displaced Volume

Volume available for containing spills will be reduced by the volume displaced by the pallets and bottoms of containers that are in the liquid. The volume displaced will depend on the depth of the liquid surrounding the pallets and containers. The depth in CSA II varies from 1" to 10" depending on the location.

The typical pallet was 4 ft x 4 ft and had three 1.5"x 5.5" boards on the bottom, three 3.5"x 3.5" beams at 90 degrees in the middle, and a top of closely spaced 1.5"x 5.5" boards. A conservative (high) estimate of the volume displaced can be calculated by assuming that all of the pallets are totally immersed in liquid. The volume displaced by a pallet is:

Vpallet = (3*(1.5" * 5.5" * 48") + 3*(3.5" * 3.5" * 48") + (1.5"* 48"* 48"))/ 1728 cu.in./cu.ft. = 3.708 cu.ft./ pallet

The total volume displaced by all of the pallets that rest on the floor would be:

Vdisp1 = (8 rows * 7 pallets + 7 rows * 5 pallets + 1 row * 4 pallets + 8 rows * 8 pallets) * Vpallet = 159 pallets * 3.708 cu.ft./ pallet = 589.6 cu.ft.

Each pallet is 6.5" high. This will keep the containers out of the liquid except along the north and south walls of CSA II and the 100 staged drums. The 8 pallets along the south wall and 8 pallets along the north wall sit in roughly 10" of liquid, so 3.5" of the containers on these pallets will be immersed in liquid. The second 8 pallets out from each wall will sit in roughly 8" of liquid so 1.5" of the containers on these pallets will be immersed. Assuming 4 drums/ pallet each with a diameter of 24" gives a displacement of:

Vdisp2 = (16 pallets * 3.5"+ 16 pallets * 1.5") * 4 drums/pallet* $(\pi/4)$ *(24")² / (1728 cu.in./cu.ft.) = 58.6 cu.ft. + 25.1 cu.ft. $= 83.7 \, \text{cu.ft.}$

ARE, Inc. 07-112E January 9, 2007

The volume displaced by the 100 staged drums will depend on where they are in CSA II (they are shown partly on the ramps in the picture on page 2 but they could sit anywhere in CSA II). A quick survey of points that are not occupied by drums on pallets indicates that these 100 drums will sit in 0.36 to 1.20 inch of liquid. Their displacement will be calculated by assuming that they sit in 1.0 inch of liquid.

Vdisp3 = 100 drums * (1.0 in. deep) * $(\pi/4)$ *(24")^2 / (1728 cu.in./cu.ft.) = 26.2 cu.ft.

Total displaced volume is then:

Vdisp = Vdisp1 + Vdisp2 + Vdisp3 = 589.6 + 83.7 + 26.2

Vdisp = 699.5 cu.ft = volume displaced by pallets + containers immersed in liquid in CSA II

MAL, MIL. UI-HILE January 9, 2007

Section by Section Secondary Containment Calculations

Section A

Section A is on the south side of CSA II, seen in Figure 1. It is defined by a polygon with corners at points 4, 6, 16, 37, 41, and 39. Liquid contained in Section A will flow into Section B when the level reaches 70.085 ft. The low point is at the bottom of the ramp on the east side of the building.

Required Containment Volume:

This section is marked off to have 8 rows of 7 pallets stacked 2 high. Each pallet can hold 4 drums with 55 gallon capacity or the equivalent, therefore the maximum liquid stored in Section A is:

Ndrums = (8 rows * 7 pallets) * 2 high * 4 drums = 448 drums

V = Ndrums * 55 gal/drum * 1 cu.ft./ 7.48 gal = 3,294 cu.ft.

The requirement is to contain 10% of this volume. Vreq = 10% * 3,294 cu.ft.

Vreq = 329 cu.ft.

<u>Total Containment Volume</u> The total containment volume of section A was calculated by modifying the 3-D CAD model created to calculate the whole containment volume. Maximum*liquid level was set to 70.085 feet.

Total containment volume was calculated by the computer to be: V calc = 514.5 cu.ft

Displaced Volume:

It will be assumed that all pallets sit in Havg inches of liquid. The typical pallet was 4 ft x 4 ft and had three 1.5"x 5.5" boards on the bottom, three 3.5"x 3.5" beams at 90 degrees in the middle, and a top of closely spaced 1.5"x 5.5" boards. An estimate of the volume displaced will be calculated by assuming that all of the pallets sit in Havg inches of liquid. The volume displaced by a pallet is:

Vpallet = (3*(1.5"*5.5"*48") + 3*(3.5"*(4.56"-1.5")*48")) / 1728 cu.in./cu.ft.= 1.580 cu.ft./ pallet immersed in 4.56" of liquid

The total volume displaced by the immersed portion of the pallets that rest on the floor in Section A would be:

Vdisp1 = 8 rows * 7 pallets * Vpallet = 56 pallets * 1.580 cu.ft./ pallet Vdispl = 84.4 cu.ft,

Summary:

Vcalc = 514.5 cu.ftVdisp = -84.4 cu.ft. Vuse = 430.1 cu.ft.

Vreq = 329 cu.ft.

Section A of CSA II has a usable containment volume, Vuse, greater than the required volume, Vreq, therefore secondary containment is adequate.

ANE, Inc. 07-112E January 9, 2007

Section B

Section B is in the middle of CSA II. It is defined by a polygon with corners at points 16, 24, 56, 54, 55, 44, 41, and 37. Liquid contained in Section B will flow into Section A when the level reaches 70.085 ft. The low point is at the bottom of the ramp on the east side of the building and south side of section B.

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Required Containment Volume:

This section will have 7 rows of 5 pallets stacked 1 high and 1 row of 4 pallets stacked 1 high. Each pallet can hold 4 drums with 55 gallon capacity or the equivalent, therefore the maximum liquid stored in Section B is:

Ndrums = (7 rows * 5 pallets + 1 row * 4 pallets) * 1 high * 4 drums = 156 drums

V = Ndrums * 55 gal/drum * 1 cu.ft./ 7.48 gal = 1,147.0 cu.ft.

The requirement is to contain 10% of this volume.

Vreq = 10% * 1,147 cu.ft.Vreq = 114.7 cu.ft.

Total Containment Volume

The total containment volume of section B was calculated by modifying the 3-D CAD model created to calculate the whole containment volume. Max liquid level was set to 70.085 feet.

Total containment volume was calculated by the computer to be: <u>Vcalc = 141.2 cu.ft</u>

Displaced Volume:

An estimate of the volume displaced will be calculated by assuming that all of the pallets sit in Havg inches of liquid. The typical pallet was 4 ft x 4 ft and had three $1.5^{\circ}x 5.5^{\circ}$ boards on the bottom, three $3.5^{\circ}x 3.5^{\circ}$ beams at 90 degrees in the middle, and a top of closely spaced $1.5^{\circ}x 5.5^{\circ}$ boards. The volume displaced by the immersed portion of a pallet is:

Vpallet = (3*(1.38" * 5.5" * 48")) / 1728 cu.in./cu.ft. = 0.6325 cu.ft./ pallet immersed in 1.38" of liquid

The total volume displaced by the immersed portion of the pallets that rest on the floor in Section B would be:

Vdispl = (7 rows * 5 pallets + 1 row * 4 pallets) * Vpallet = 39 pallets * 0.6325 cu.ft./ pallet Vdispl = 24.7 cu.ft.

Summary:

Vcalc = 141.2 cu.ft Vdisp = -24.7 cu.ft. Vuse = 116.5 cu.ft.

Vreq = 114.7 cu.ft. <u>Section B of CSA II has a usable containment volume, Vuse,</u> greater than the required volume, Vreq, therefore secondary containment is adequate. → Note: drums must be on pallets. ← AKE, Inc. U/-112E January 9, 2007

Section C

Section C is on the north side of CSA II. It is defined by a polygon with corners at points 24, 31, 36, and 57. Liquid contained in Section C will flow into Section B when the level reaches 70.13 ft. The low point is at points 25 on the south side of Section C.

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Required Containment Volume:

This section is marked off to have 8 rows of 8 pallets stacked 2 high. Each pallet can hold 4 drums with 55 gallon capacity or the equivalent, therefore the maximum liquid stored in Section C is:

Ndrums = (8 rows * 8 pallets) * 2 high * 4 drums = 512 drums

V = Ndrums * 55 gal/drum * 1 cu.ft./ 7.48 gal = 3,765 cu.ft.

The requirement is to contain 10% of this volume.

Vreq = 10% * 3,765 cu.ft.Vreq = 377 cu.ft,

Total Containment Volume

The total containment volume of section C was calculated by modifying the 3-D CAD model created to calculate the whole containment volume. Maximum liquid level was set to 70.13 feet.

Total containment volume was calculated by the computer to be: Vcalc = 727.8 cu.ft

Displaced Volume:

An estimate of the volume displaced will be calculated by assuming that all of the pallets sit in Havg inches of liquid. The typical pallet was 4 ft x 4 ft and had three 1.5"x 5.5" boards on the bottom, three 3.5"x 3.5" beams at 90 degrees in the middle, and a top of closely spaced 1.5"x 5.5" boards. The volume displaced by the immersed portion of a pallet is:

Vpallet = (3*(1.5" * 5.5" * 48") + 3*(3.5" * 3.5 * 48) + (5.10-1.5-3.5) * 48 * 48) / 1728 cu.in./cu.ft.= 1.842 cu.ft./ pallet immersed in 5.10" of liquid

The total volume displaced by the immersed portion of the pallets that rest on the floor in Section C would be:

Vdisp1 = 8 rows * 8 pallets * Vpallet = 64 pallets * 1.842 cu.ft./ pallet Vdispl = 117.9 cu.ft.

Summary:

Vcalc = 727.8 cu.ft <u>Vdisp = -117.9 cu.ft</u>. Vuse = 609.9 cu.ft.

Vreq = 377 cu.ft.Section C of CSA II has a usable containment volume, Vuse, greater than the required volume, Vreq, therefore secondary containment is adequate.

January 9, 2007

Definition of Sections A, B, and C

The original floor plan for CSA II is shown on the next page oriented so that north is at the top of the page. This is from Clean Harbors drawing 581-CDA-106 sheet 4. The elevations are different than the Guida Surveying values, but this is unimportant since the variation in elevation is what determines the containment capability. Figure 7 shows the way the floor was intended to be sloped to create the 3 containment sections.

In the center of the Figure 7, are dashed lines marked "EL. 52.50" that define the outer edge of containment Section B. The north and south edges of Section B are aligned with the centers of the ramps on the east side of the building. The west edge of Section B lines up with the edge of the ramps in the northwest and southwest corners of CSA II. Dashed lines and arrows define the sloped surfaces. The low point of Section B is at the east wall. Section A is south of Section B with its floor sloping toward the south wall. Section C is north of Section B with its floor sloping toward the north wall.

Figure 6, below, shows elevations from Guida Surveying, Inc. AKE, Inc. was told that these were the measured high and low points that define CSA II and Sections A, B, and C and the boundaries between the sections. The floor was assumed to have a linear slope between the points where elevations were measured. Additional points were obtained on the southwest ramp using a Pro-Level Manometer (water level).

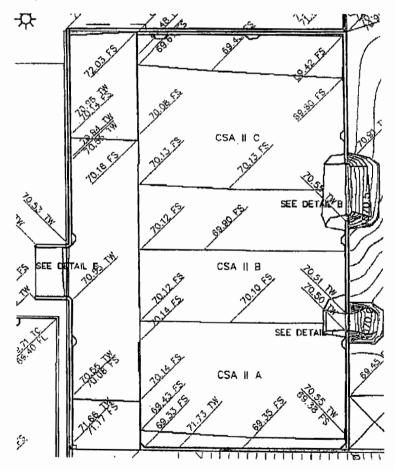


Figure 6: Guida detail survey results

January 9, 2007

Definition of Sections A. B. and C.

The original floor plan for CSA II is shown on the next page oriented so that north is at the top of the page. This is from Clean Harbors drawing 581-CDA-106 sheet 4. The elevations are different than the Guida Surveying values, but this is unimportant since the variation in elevation is what determines the containment capability. Figure 7 shows the way the floor was intended to be sloped to create the 3 containment sections.

In the center of the Figure 7, are dashed lines marked "EL. 52.50" that define the outer edge of containment Section B. The north and south edges of Section B are aligned with the centers of the ramps on the east side of the building. The west edge of Section B lines up with the edge of the ramps in the northwest and southwest corners of CSA II. Dashed lines and arrows define the sloped surfaces. The low point of Section B is at the east wall. Section A is south of Section B with its floor sloping toward the south wall. Section C is north of Section B with its floor sloping toward the north wall.

Figure 6, below, shows elevations from Guida Surveying, Inc. AKE, Inc. was told that these were the measured high and low points that define CSA II and Sections A, B, and C and the boundaries between the sections. The floor was assumed to have a linear slope between the points where elevations were measured. Additional points were obtained on the southwest ramp using a Pro-Level Manometer (water level).

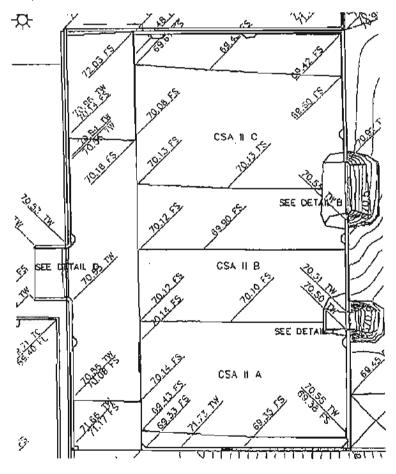


Figure 6: Guida detail survey results

Workstation Containment Calculations

The Clean Harbors Environmental Services site at 1340 West Lincoln Street, Phoenix, Az. has a structure with four workstations for handling waste. Each work station is open on the west side (no wall) and has walls on the other 3 sides. The floor is sloped down into each workstation so that any spills in a workstation will be contained in that workstation. Each workstation is required to contain a spill equal to 10% of the maximum liquid stored in this area.

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A spill would create a liquid level in the workstation. The volume of liquid that can be contained depends on the elevations of the floor and the surrounding walls, curbs, and ramps. Pallets and containers that sit in this liquid displace volume and reduce the available containment volume.

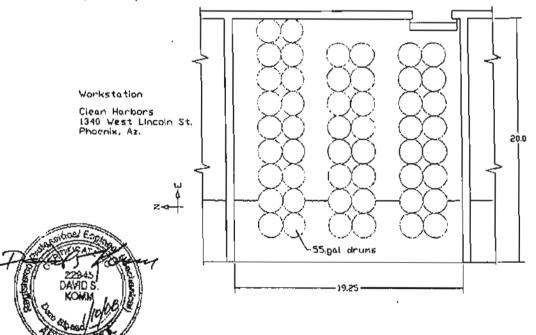
Workstation elevations and room dimensions are found on Clean Harbors drawing 581-ADA-105R sheet A3. These were checked with a Pro-Level Manometer (water level) and tape measure and the values obtained were used to calculate the total containment volume of each workstation. The volume that would be displaced by immersed pallets and containers was then calculated and subtracted from the total volume to get the usable containment volume.

Vcale = 251 cu.ft. = total containment volume of CSA 1 <u>Vdisp = -123 cu.ft.</u> = volume displaced by 50 drums in the liquid Vuse = -123 cu.ft. = usable containment volume

Vreg = 36.8 cu.ft. = required containment volume for each workstation = 10% of 50 drums

The usable containment volume. Vuse, is greater than the required containment volume. Vreq, therefore the workstations have adequate secondary containment volume.

Each workstation could hold a maximum of 50 drums at 55 gal/drum or the equivalent as shown below. The drums may sit on the floor, or the pallets that are used to move them into and out of the workstation. The low points of the containment structure are the lip on the open west side of each workstation and the top of the step in the door on the east side.



Required Containment:

The required containment was based on two rows of 16 drums and one row of 18 drums as shown. Each drum holds 55 gallons. The maximum liquid stored in each workstation is then:

V = (2 rows * 16 drums + 1 row * 18 drums) * 55 gal/drum * (1 cu.ft./ 7.48 gal) = 367.6 cu.ft (the equivalent of 50 drums containing 55 gallons each)

The requirement is found in 40 CFR 264.175 paragraph (b)(3) which states: "The containment system must have sufficient capacity to contain 10% of the volume of containers or the volume of the largest container, whichever is greatest." The required containment volume is then:

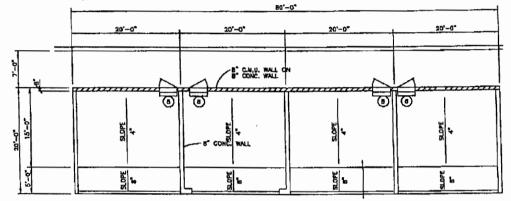
Vreq = 10% * 367.6 cu.ft.

Vreg = 36.8 cu.ft. = required containment volume for CSA I

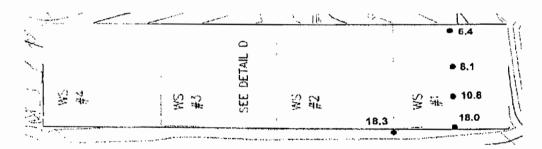
Work Station Elevations

Elevations and dimensions from Clean Harbors Dwg.No. 581-ADA-105R sheet A3 are shown below. There are four workstations each with 3 solid and one open wall. The floor slopes down from the open side into the workstations so that any spills are contained in the workstation. In all workstations the step on the small door on the east side is higher than the peak on the open west side, so liquid will flow out the west side of the workstation.

The drawing shows the floor dropping 8 inches in the first 5 feet and 4 inches in the next 15 feet. A check using a water level on the south workstation floor showed the floor to have slightly less slope. Room dimensions of the workstations are close to what is shown below. A check with a tape measure showed the rooms to average 20'0" from the peak on the west side to the wall on the east side (larger than the 19'4" from the drawing), and 19'3" from south wall to north wall in the workstation (vs. 19'4" from the drawing).



In the picture above and the one below, north is to the left and east is up. The open side of the work stations is at the bottom of the picture (west side). The picture below shows elevations in inches as taken using a Pro-Level Manometer (water level) during the AKE, Inc. site visit 12-6-07. This slope check showed 7.2" drop in the first 5 feet and 4.4" drop from there to the back of the workstation for a total of 11.6" drop.



Elevations from Guida Survey, Inc. showed that the workstation floors dropped about 12 inches from the peak at the west side to the east corner of each room, matching what was found with the water level. The total containment volume is calculated using the slope obtained using the water level.

Vcalc = volume of first 5 ft + volume of next 15 ft - volume displaced by stairs = (5 ft*(18.0"-10.8")*(1/2) + 15 ft*(18.0"-(10.8"+6.4")/2))*(1 ft/12.")*(19.25 ft) - 4'*1'*1'= 251.0 cu.ft.

Vcalc = 251.0 cu.ft = the calculated containment volume of each workstation

Displaced Volume

Volume available for containing spills will be reduced by the volume displaced by the pallets and bottoms of containers that are in the liquid. The greatest volume will be displaced if the drums are sitting on the floor without pallets. A conservative (high) estimate of the volume displaced can be calculated by assuming that all 50 drums sit in liquid at the average depth of the back 15 feet of the room.

depth = (18.0" - (10.8" + 6.4")/2))* (1 ft/12") = 0.783 ft. = 9.4 inch

Vdisp = 50 drums * $(\pi/4)$ *(2 ft)^2 * 0.783 ft

Vdisp = 123.0 cu.ft = volume displaced by portion of drums immersed in llquid

The total usable containment volume in CSA I is then:

Vuse = Vcalc - Vdisp = 251.0 cu.ft. - 123.0 cu.ft.

Vuse = 128 cu.ft. = usable containment volume in each workstation

SECONDARY CONTAINMENT CALCULATIONS WORK STATIONS

All four work stations have the same dimensions and storage capacities.

Work stations are covered, eliminating the need for rainfall containment.

Drawings 581-CDA-105 and 581-CDA-107 show details of construction and placement of containers for storage arrangements.

Total storage capacity (per station) = 50 55 gallon equivalents = 2,750 gallons = 2750 gal / 7.48 gal/ft³ = 367.6 ft³

Total required containment = 10% of total storage capacity = 36.8 ft³

Dimensions of work stations has two slopes with 12" total containment at the deepest point of each work station. An air duct penetrates the wall at the deepest area. The lowest duct in each of the four work stations is 10.5". The deepest point used for calculation purposes is 10". The first slope is approximately 8" over 5 'and changes to 4" over the remaining 15'. If the containers were to sit in liquid, the average depth for all containers would be 7" deep.

Total containment volume of work station =

((6"/12") x 5' x ½) x 20'	≃ 25.0 ft³
((4"/12") x 15' x ½) x 20'	$= 50.00 \text{ ft}^3$
(6''/12'') x 15' x 20'	$= 150.00 \text{ ft}^3$
Total containment volume	= 225.0 ft ³

Drum displacement in secondary containment Average depth = 7" 50 drums (π r² h) 50 (π (1')² (7"/12")) = 91.58 ft³

Available secondary containment volume 225 ft³ – 91.58 ft³ = 133.42 ft³

Required containment = 36.8 ft^3

Therefore sufficient containment is provided.



Tank Farm Containment Calculations

The Clean Harbors Environmental Services site at 1340 West Lincoln Street, Phoenix, Az. has a tank farm constructed on a post tension concrete slab with an integrated wall that provides containment of spills and rainwater. The tanks vary in size from 2,570 gallons to 10,250 gallons and are anchored to one foot tall grooved concrete pedestals with the exception of the rain water collection tank which rests directly on the concrete surface. The top of the liquid resulting from a spill and rain was set to 1 ft. above the lowest point of the tank farm such that the liquid level crested the top of the lowest concrete pedestal, this is an elevation of 70.32 ft. Using this as the top of the liquid prevents the tanks from potentially contacting any incompatible liquids.

Vuse = 3,968 cu.ft. = usable containment volume in tank farm

Vreq = 3,253 cu.ft = containment volume required for tank farm This is 100% of the largest tank volume + 4" rainfall.

The usable containment volume, Vuse, is greater than the required containment volume, Vreq, therefore the tank farm has sufficient containment volume.

If the liquid is allowed to fill the containment area the liquid level would rise to 72.42 ft and the total containment capacity is 10,305 cu.ft. The bottom of all tanks would be in the liquid.

Required Containment Volume:

40 CFR 264.193(c)(1) states that "External liner systems must be: (i) Designed or operated to contain 100 percent of the capacity of the largest tank within its boundary". A plot of tank locations is on the next page along with a table giving locations, base diameters, and tank capacities. The total tank capacity is 113,000 gallons and the capacity of the largest single tank is 10,250 gallons. The containment system is required to contain the volume of the largest container, 10,250 gallons, plus the precipitation of a 24 hour / 25 year rain event.

Vreq1 = 10,250 gallons * (| cu.ft./ 7.48 gallons) = 1,370 cu.ft. = liquid spill

Since the tank farm is not covered it must also contain the worst 24 hr rainfall expected in 25 yrs. At this location this is 4.0" of rainfall. This falls on an area of 72.67 ft x 77.75 ft giving a volume of:

Vreq2 = 4.0" * (1 ft/12") * 72.67 ft * 77.75 ft = 1,883 cu.ft = 24 hr rainfall

Total required containment volume is then:

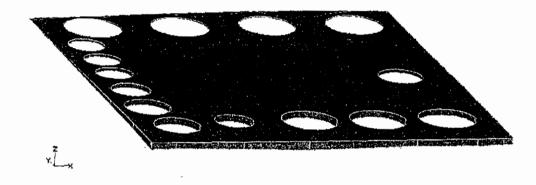
Vreq = Vreq1 + Vreq2 = 1,370 cu.ft. + 1,883 cu.ft. <u>Vreq = 3,253 cu.ft = containment volume required for tank farm</u> This is 100% of the largest tank volume + 4" rainfall.



Usable Containment Volume:

A 3-D CAD model was made using measured elevations in the tank farm. This was extruded vertically and cut off at the top of the liquid, 71.04 ft. elevation. The model had cylinders removed that matched the locations and diameters of the tanks so that the remaining solid represented the usable containment volume of the tank farm. A picture of the solid representing the volume contained with a liquid level of 71.04 ft is shown below.

The northern most 8 tanks (301, 302, 303, 501, 101, 102, 103, and 104) contain hazardous waste liquids that could be potentially incompatible with each other. It is desired to keep any spills in the tank farm below the top of the pedestals under these 8 tanks. The pedestals are 1 ft high. The floor of the tank farm slopes downward to the south so the lowest pedestal of the 8 RCRA tanks is found under Tank 104. The top of the liquid resulting from a spill and rainfall is set to 1 ft above the lowest point around Tank 104 so that the liquid level just reaches the top of the concrete pedestal. The top of the liquid is then 71.04 ft.



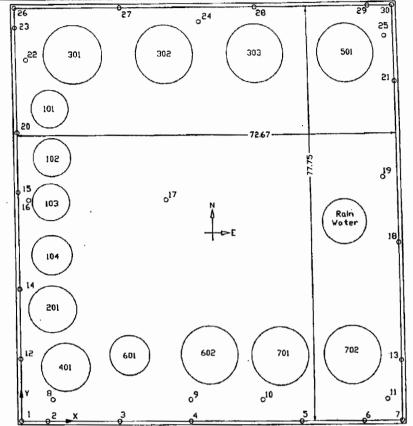
The volume of this solid is: <u>Vuse = 3,968 cu.ft. = usable containment volume in tank farm</u>

The maximum containment volume is found by letting all tanks be immersed in liquid up to the low point on the containment wall. The low point on the wall is 72.42 ft. The tanks are assumed to have the same diameter as the concrete pedestals that they sit on. The same 3-D modeling approach using 72.42 ft. for the top of the liquid gave:

Vmax = 10,305 cu.ft. = total liquid that can be contained in the tank farm

January 10, 2008





X and Y are dimensions from the inside SW corner of the tank farm to the tank center, scaled from Guida Surveying $1^{"}=20^{"}$ drawing. Dia. is the diameter of the concrete pad that the tanks sit on.

			X, Y, a	nd Dia. are in feet
<u>tank</u>	X	Y	Dia.	gallons
501	63.34	68.92	11	10,150
303	45.74	69.02	11	10,150
302	28.22	68.92	11	10,150
301	10.90	68.94	11	10,250
101	6.29	58,86	7	2,570
102	6.54	49.95	7	2,570
103	6.18	41.62	7	2,570
104	6.18	31.51	7.583	4,530
201	6.13	21.12	9	7,540
401	8.43	10.03	9	7,540
601	20.49	12.25	7.583	4,530
602	35.80	12.31	11	10,150
701	49.50	12.11	11	10,150
702	63.38	12,25	11	10,150
rain ta	nk 62.36	37.65	8.583	<u>10,000</u> .
				113,000 gallons = Total tank capacity

Elevations for containment calculations

The table below shows the elevations of the concrete floor and containment walls of the tank farm. These were obtained from 3 points taken by Guida Surveying, Inc (Top of Wall at NW, NE, and SE corners) and additional points taken by Lindsey Lawlis of Peterson Geotechnical Group with a Pro-Level Manometer (water level). The tanks are all mounted on concrete pedestals that raise the tanks 12" above the surface of the containment floor to prevent the tanks from contacting spilled liquids. The top of the liquid for containment calculations was set at 12" above the lowest finished surface near Tank 104 in order to keep the 8 tanks on the north side of the tank farm from contacting liquid.

FS = finished surface = bottom of containment surface

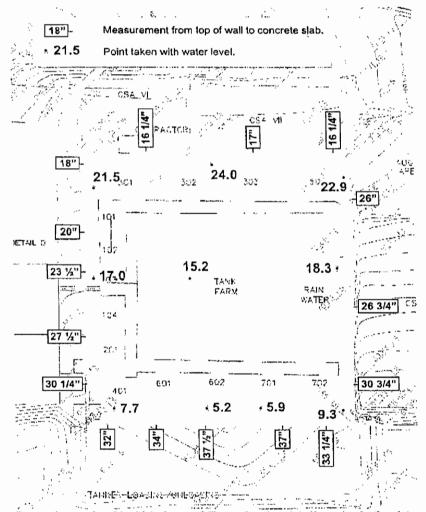
TW = top of wall, n/a means not applicable since no wall exist at this point

	imbers ar	e direct d		S	72.42 = m
point	X	Y	<u>FS</u>	TW	Depth~in
1	0	0	69.68	72.44	16.3
2	5	0	69.77	72.44	15.2
3	18.5	0	69.61	72.44	17.2
4	32	0	69.32	72,44	20.6
5	53.5	0	69.82	72.44	14.6 [°]
6	65.5	0	69.67	72.44	16.4
7	72.67	0	69.86	72.44	14.2
8	6	4	69.52	n/a	18.2
9	32	4	69.32	n/a	20.6
10	46	4	69.37	n/a	20.0
11	70	4	69.66	n/a	16.6
12	0	11.5	69.93	72.45	13.3
13	72.67	11	69.88	72.44	13.9
14	0	25	70.17	72.46	10.4
15	0	43.5	70.51	72.47	6.4
16	2	42	70.3	n/a	8.9
17	28	42	70.15	n/a	10.7
18	72.67	33.5	70.2	72.43	10.1
19	70	46	70.41	n/a	7.6
20	0	54.5	70.8	72.47	2.9
21	72.67	63.55	70.75	72.42	3.5
22	2	68	70.67	n/a	0.4
23	0	74	70.98	72.48	0.7
24	35	75	70.88	n/a	1.9
25	71	72	70.79	n/a	3.0
26	0	77.75	71.17	72.49	0.0
27	20	77.75	71.12	72.47	0.0
28	46	77.75	71.03	72.45	0.1
29	68	77.75	71.07	72.42	0.0
30	72.67	77.75	71.09	72.42	0.0

depth = liquid level depth in inches based on --> 71.04 ft elevation at top of Tank 104 pedestal Bold numbers are direct data points 72.42 = min TW

The diagram and numbers below were provided by Lindsey Lawlis of Peterson Geotechnical Group. North is to the top of this picture. Guida Surveying, Inc. provided top of wall elevations at three of the four corners of the wall around the tank farm. These values were: "no measurement at SW corner", "72.44 at SE corner", "72.49 at NW corner", and "72.42 at NE corner".

A Pro-Level Monometer (water level) was used to define elevations of the concrete floor inside the tank farm. Pro-Level (water level) points are shown below relative to an arbitrary zero. In order to use this information with the points taken by Guida Surveying it was necessary to determine what 'Guida' elevation matched 0.0" on the Pro-Level Manometer (water level). Unfortunately a Pro-Level Manometer (water level) point was not taken at one of the three TW points Guida checked consequently zero had to be deduced from another location. The south wall was assumed to be level at 72.44 ft and this value was used with the 37.5" from top of wall to finished surface and 5.2" at the finished surface to determine that 0.0" on the Pro-Level Manometer (water level) was 68.88 ft elevation.



Data point number 21 which shows a 26" top of wall to slab dimension in the picture below was changed to 20" to smooth the floor surface (east wall near NE corner).



A. V. SCHWAN & ASSOCIATES, INC. CONSULTING STRUCTURAL ENGINEERS 6000 E. Thomas Road, Suite 1 Scottsdale, Arizona 85251-7572 Phone 602-265-4331 Fax 480-663-1788

STEPHEN A. SCHWAN, P.E., PRESIDENT Mo Khatid, P.E. Nathan L. Klohd, P.E.

January 11, 2007

Lon Stewart, P.E. Clean Harbors Environmental Services, Inc. 1340 W. Lincoln Street Phoenix, AZ 85007

Subject: Clean Harbor Environmental Services AVS Job No. 5639

Gentlemen:

Please find enclosed with this letter:

ED1

- a) Secondary Containment Calculations; work station
- b) Tank Specifications for Tanks #101, 102, 103, 104, 301, 302, 303 and 501.
- c) Record Set of Drawings updated to reflect current conditions: Sheet #s

1	
•	

rr I	
581-ADA-102	581-CDA-104
571-ADA-104R	581-CDA-108
581-ADA-105R	581-CDA-109
581-ADA-108	581-CDA-101
581-ADA-116	581-CDA-103
581-YDA-101	581-CDA-105
581-YDA-102	581-CDA-106
581-YDA-103	581-CDA-107
581-CDA-101	581-CDA-108
581-CDA-102	581-CDA-109
581-CDA-103	581-CDA-110

Secondary Containment Calculations

I have reviewed the attached calculations provided to me for the Secondary Containment and find them to be accurate.

Tank Specifications

Attached are the Specifications for Tanks #101, 102, 103, 104, 301, 302, 303 and 501. These tanks are located within the tank farm as shown on the Facilities Plan Sheet FP1. Lon Stewart, Clean Harbors Environmental AVS Job No. 5639 January 11, 2007 Page 2 of 2

Record Sct of Drawings

The previously listed set of drawings/documents have been updated to reflect the current conditions and any owner changes that have been made since the last Record Set of Drawings.

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

Respectfully submitted,

Stephen A. Schwan, P.E. President

SAS/dfc enclosures



Supervealed yiolog

SECONDARY CONTAINMENT CALCULATIONS WORK STATIONS

All four work stations have the same dimensions and storage capacities.

Work stations are covered, eliminating the need for rainfall containment.

Drawings 581-CDA-105 and 581-CDA-107 show details of construction and placement of containers for storage arrangements.

Total storage capacity (per station) = 50 55-gallon equivalents = 2,750 gallons = 2750 gal. \div 7.48 gal/ft³ = 367.6 ft³

Total required containment = 10% total storage capacity = 36.8 ft³

Dimensions of work stations = $20' \log x 20'$ wide.

The floor of the work stations has a two slopes with 12 inches of total containment at the deepest point of each work station. The first slope is approximately 8" in 5 feet and then 4" of slope for the remaining 15 feet. If containers were to sit in liquid, the average depth for all containers would be 9 inches deep.

Total containment volume of work station =

 $\begin{array}{rcl} ((8^{\prime\prime}/12) & x & 5' & x & 1/2) & x & 20' & = & 33.33 & \text{ft}^3 \\ ((4^{\prime\prime}/12) & x & 15' & x & 1/2) & x & 20' & = & 50.00 \\ (8^{\prime\prime}/12) & x & 15' & x & 20' & = & & \frac{200.00}{283.33} & \text{ft}^3 \end{array}$ Total Containment volume = $& & 283.33 & \text{ft}^3 \end{array}$

Drum Displacement in Secondary Containment Average depth = 9-inches 50 drums (π r²h) 50 (π (1)² (9/12)) = 117.8 ft³

Available Secondary Containment volume $283.3 - 117.8 = 165.5 \text{ ft}^3$

Required Containment = 36.8 ft^3

Therefore sufficient containment is provided.





AVE an 1/10/08

SECONDAY CONTAINMENT CALCULATIONS TANK FARM PAGE 1 OF 2

The Tank Farm is an open air concrete structure with 14 tanks (8 RCRA regulated and 6 non-RCRA regulated) for waste and one tank for the storage of rainwater. Drawings 581-ADA-108 and 581-CDA-104 show tank layout and construction details.

The secondary containment capacity must contain the precipitation from a 25 year, 24 hour event plus the capacity of the largest tank.

25 year, 24 hour storm even	.t ==	3.12 inches (City of Phoenix Storm Drain Design Manual,p.16)
Largest Tank Volume	Ĩ	$10,400 \text{ gallons} = 1390.4 \text{ ft}^3$

Volume of Secondary Containment:

 $\frac{1}{2}$ (53.34 - 51.60)(72.67)(77.67) = 4910.5 ft³ (54.68 - 53.34)(72.67)(77.67) = 7563.3 12473.8 ft³

Volume of Tankage below Top of Secondary Containment Wall.

The tank farm wall ranges in height from 3.08 feet at the south end to 1.34 feet at the North end, for an average height of 2.2 feet. The displacement for tank volumes will assume that all tanks will have an average height of 2.2 feet for fluid displacement to remove the volume for available secondary containment. Tank dimensions can be found on drawing 581-ADA-108. In addition, an 8 ½ foot diameter rainwater tank resides in the tank farm secondary containment area.

(# of Tanks) $\pi/4$ (D)² (Depth of Submergence) = Displacement ft³

(3) $\pi/4$ (6)²(2.2) = 186.6 ft³ (2) $\pi/4$ (6.5)²(2.2) = 146.0 (2) $\pi/4$ (8)²(2.2) = 221.2 (1) $\pi/4$ (8.5)²(2.2) = 124.8 (7) $\pi/4$ (10)²(2.2) = 1209.5 1888.1 ft³

SECONDARY CONTAINMENT CALCULATIONS TANK FARM PAGE 2 OF 2

Rainwater Displacement Allowance for a 25 year, 24 hour event will be $(77.67)(72.67)(3.12"/12"/ft) = 1467.5 ft^3$

Net Volume of Secondary Containment for capturing spilled waste is

Secondary Contai	nment Volume	=	12473.8 ft ³
minus Tar	k Displacement	=	1888.1
minus rair	water displacement	nt =	1467.5
			0440 0 Cl
Net availa	ble containment		9118.2 ft ³

Required Containment Volume is 1390.4 ft³

Therefore sufficient containment volume is provided.





SECONDARY CONTAINMENT CALCULATIONS LOADING DOCK

Drawings for the loading dock can be viewed on Drawing 581-CDA-105. The loading docks are designed with four bays for trucks to back down into for delivery or shipment of waste from the facility. A 6" high curb separates the north two bays from the south two bays.

 $= 3553.2 \text{ ft}^3 \times 7.48 \text{ gal/ ft}^3 = 26578 \text{gallons}$

SECONDARY CONTAINMENT CALCULATIONS TANKER TRUCK LOADING/UNLOADING AREA

Drawings for the tanker loading/unloading area can be viewed on Drawing 581-CDA-104

Area of loading/unload area is 74' x 19' for 1406 ft² with a 10 foot wide berm surrounding the flatter platform where the trucks load and unload.

A typical tanker truck load is approximately 5,000 gallons or 668.4 ft³

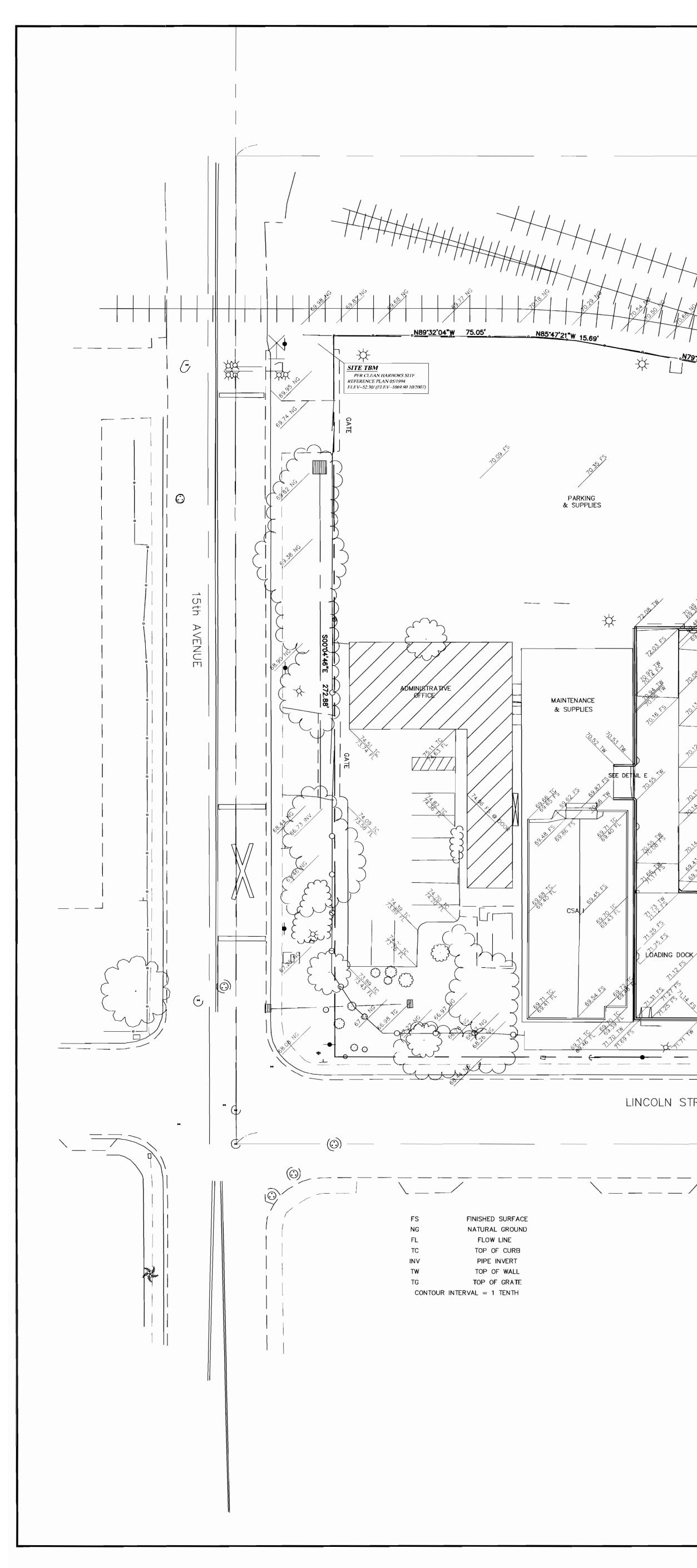
Containment volume of sloped bottom: $(52.10 - 51.60)(19)(74)(\frac{1}{2}) = 175.75 \text{ ft}^3$

Containment volume behind rolled curb:

The berm is 4" high and 5 feet wide from high to low point and surrounds three sides of the loading area.

Total Containment of tanker loading/unloading area = 175.75 + 578.7754.45 ft³





S89°59'43''W 652.53 .N79.34'47"W 96.17' SEE DETAIL CSA VI c WS #4 ΌO CSA II C WS #3 SEE DETAIL D WS CSA II B TANK FARM RAIN WATER CSA IV SEE DETAIL WS #1 201 TANKER LOADING/UNLOADING LOADING DOCK 469.88 LINCOLN STREET

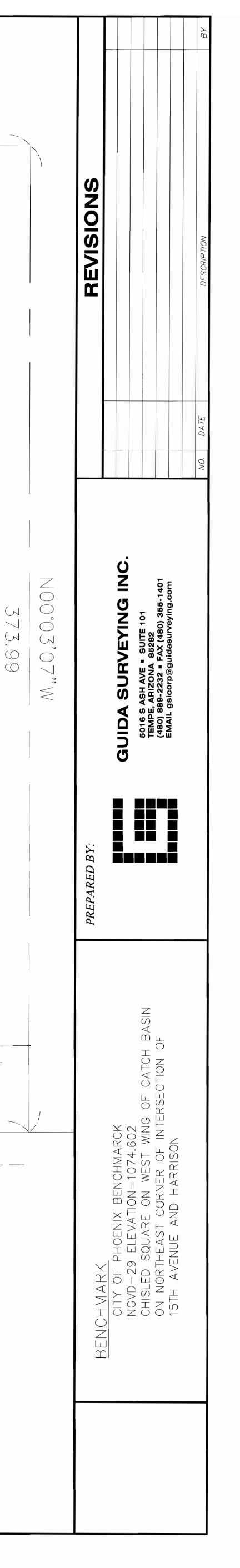
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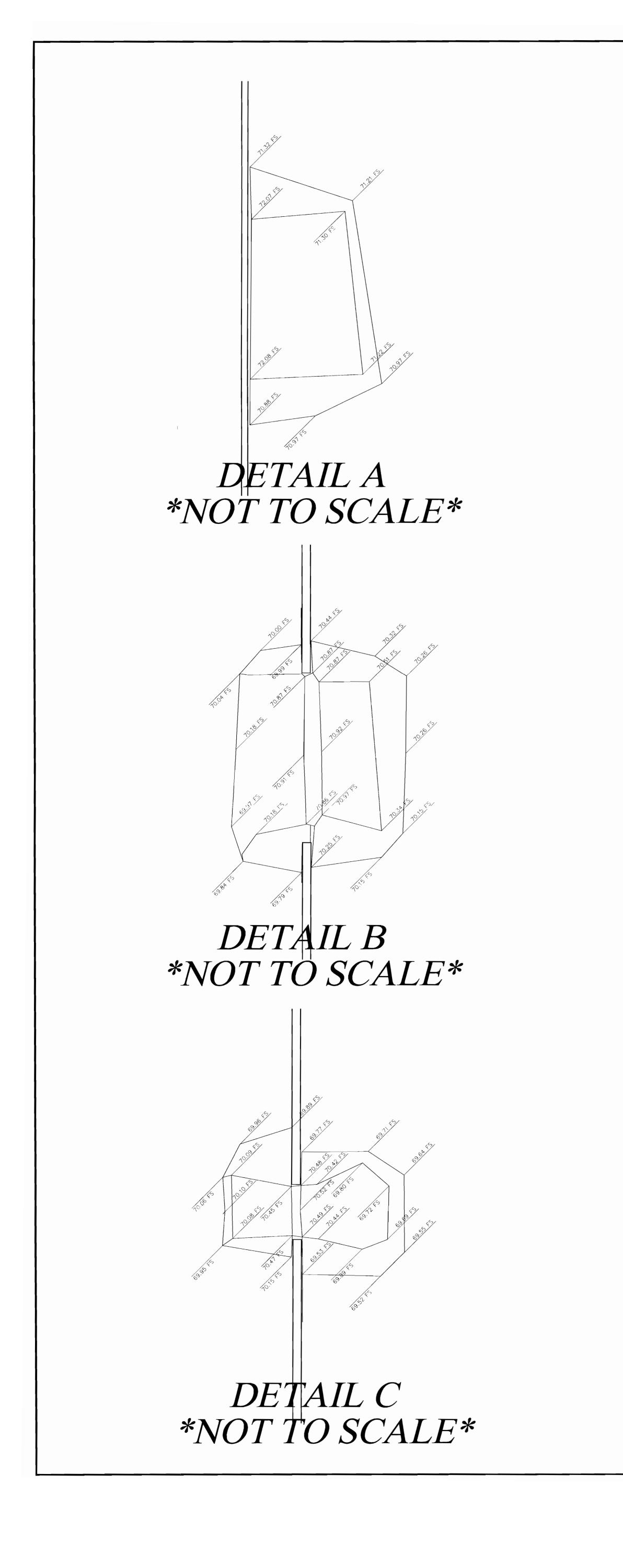
S89°59'55"E 652.86

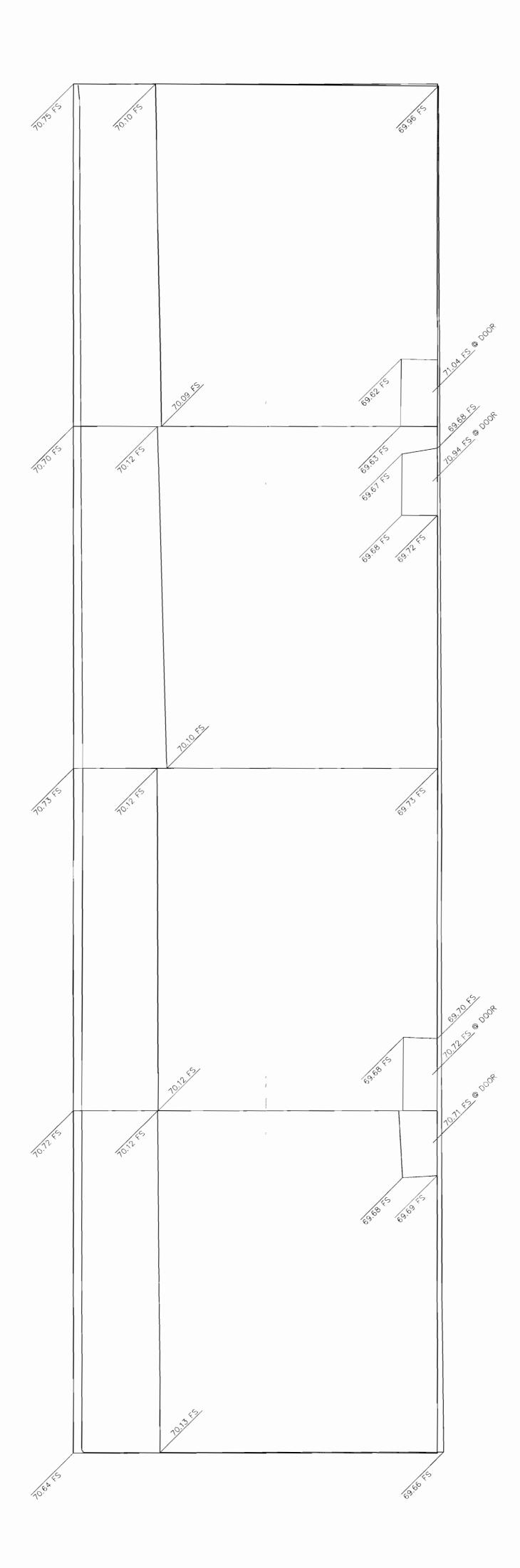
<u>SURVEY STATEMENT:</u> THIS IS A TOPOGRAPHIC MAP BASED ON AN AERIAL PROVIDED BY VERTICAL MAPPING AND VERIFIED BY A FIELD SURVEY PERFORMED OCTOBER 2007 UNDER MY SUPERVISION <u>W R RALLS III</u> ... C C RLS 41741 <u>PREPARED FOR:</u> clean harbors arizona, llc 1340 w lincoln street phoenix, arizona 85007 SCALE IN FEET 1"= 20' AIR C N89"59'55"E 83.79 ROLLOFF BIN AREA OFFICEX LABORATORY -1069.0

LINCOLN STREET

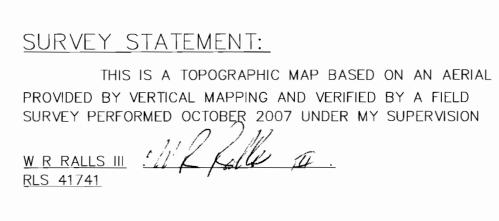
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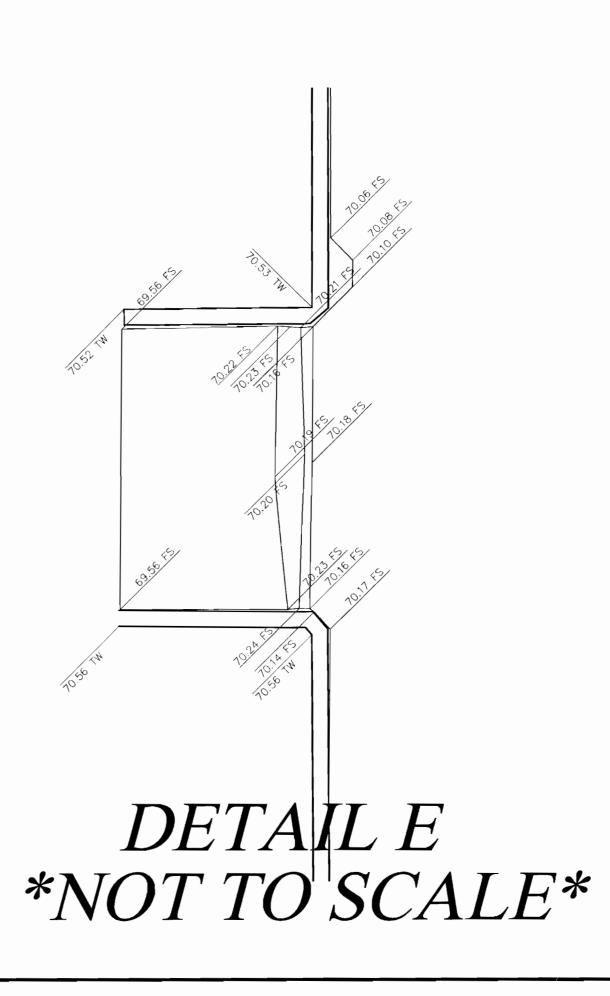




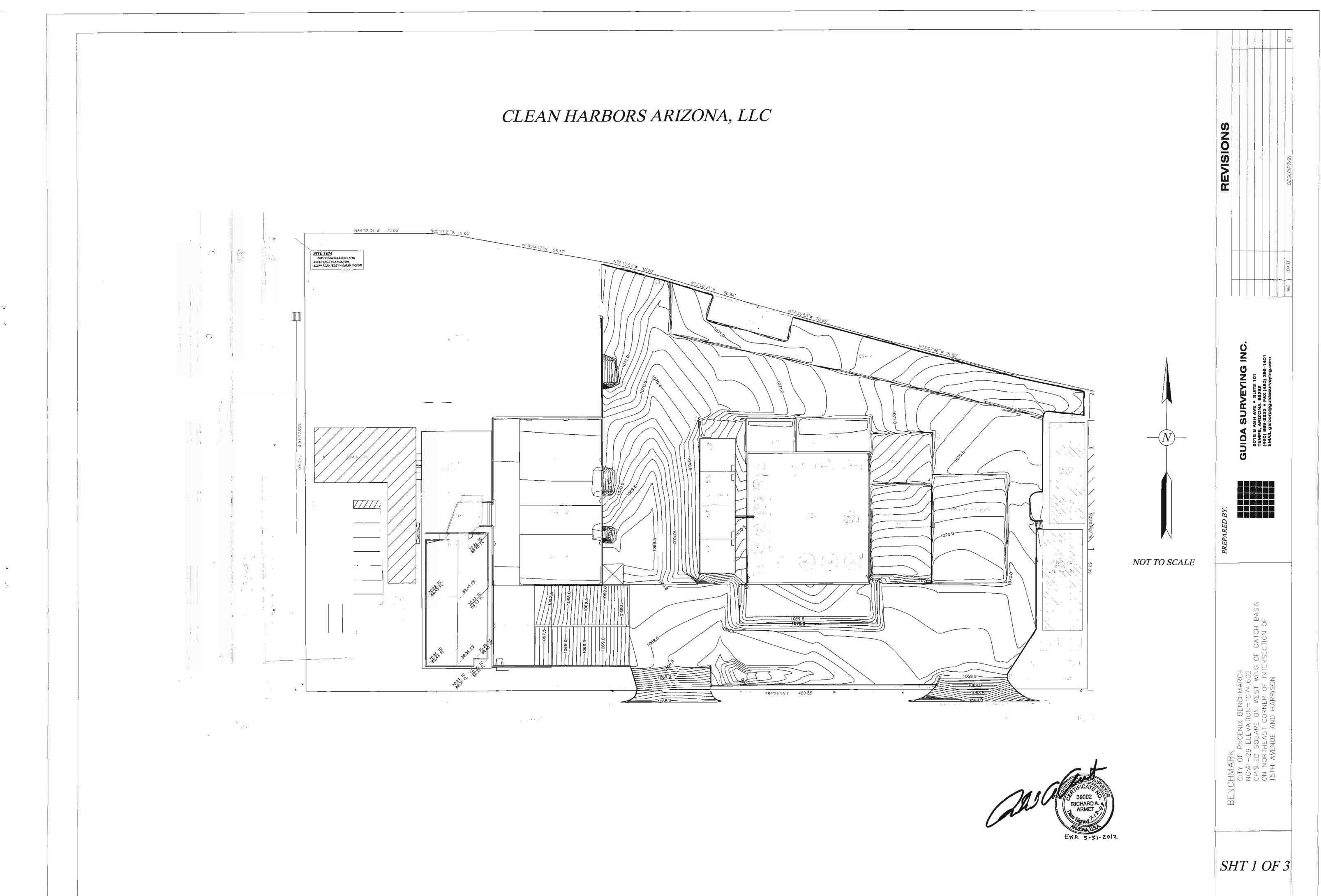
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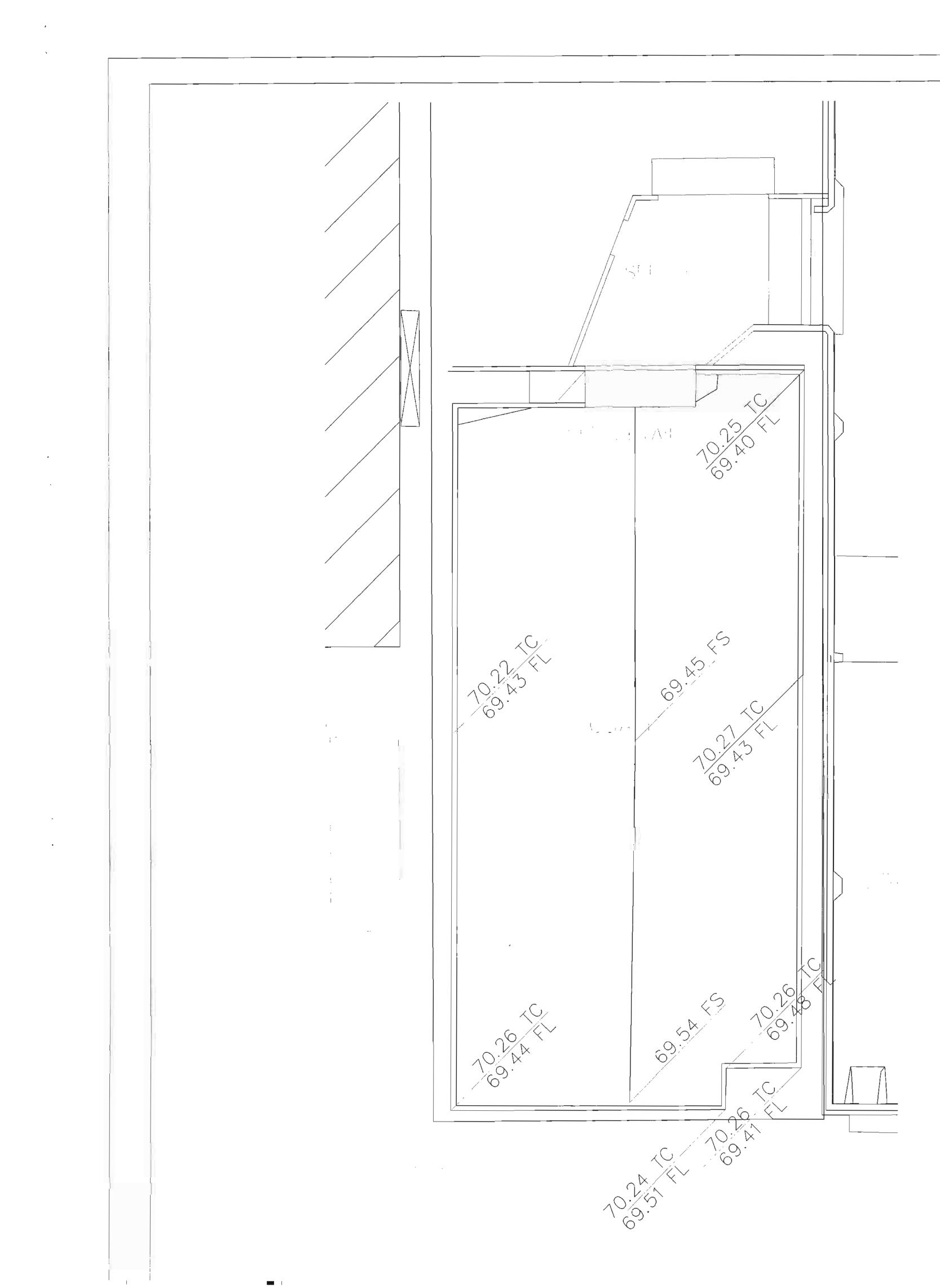
SCALE IN FEET 1"= 20'

PREPARED FOR: CLEAN HARBORS ARIZONA, LLC 1340 W LINCOLN STREET PHOENIX, ARIZONA 85007



REVISIONS		NO. DATE DESCRIPTION BY
PREPARED BY:	GUIDA SURVEYING INC. GUIDA SURVEYING INC. Filter 5016 S ASH AVE • SUITE 101 TEMPE, ARIZONA 85282 Filter Filter	
RENCHMARK	7	



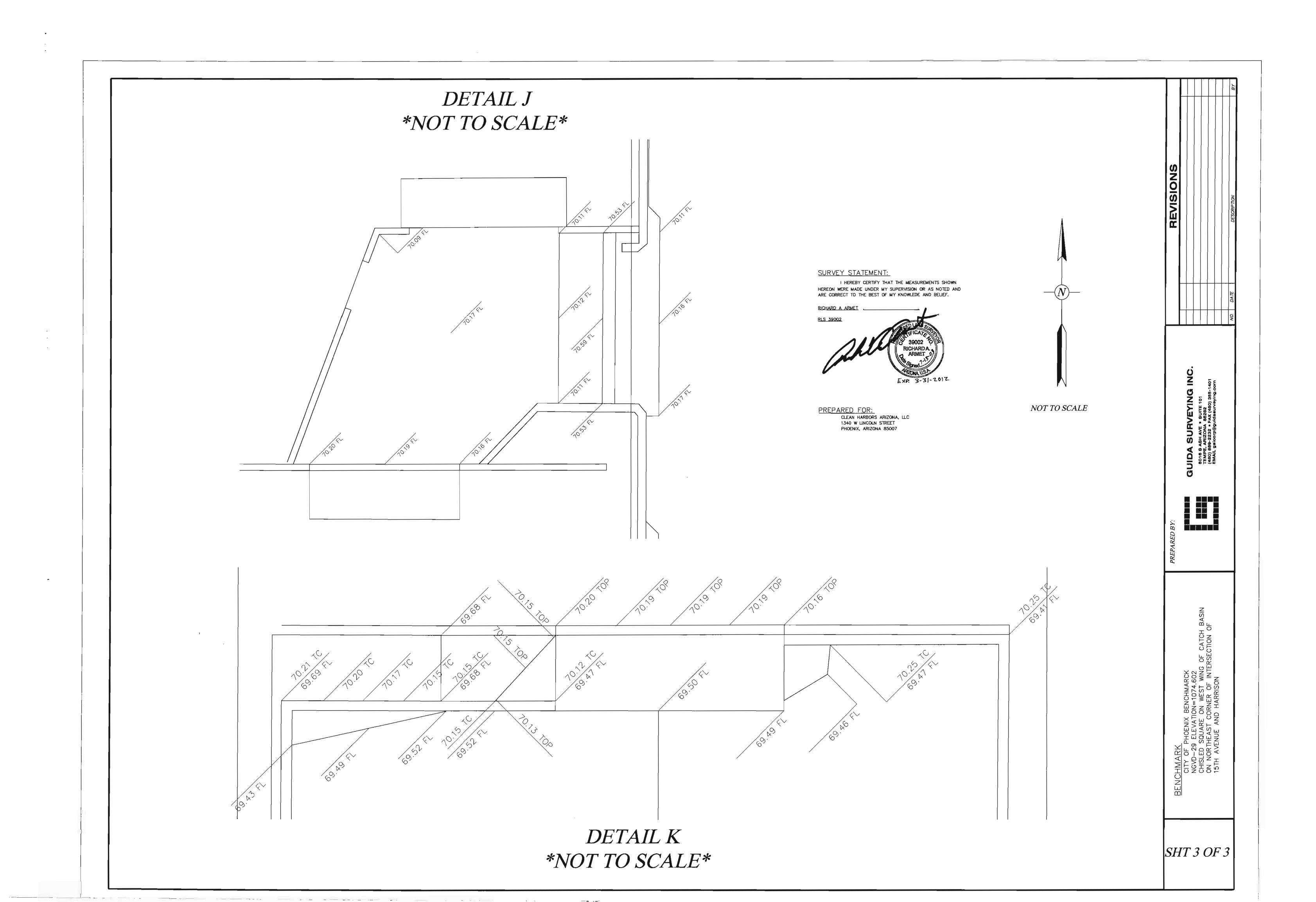


HEREON WERE MADE UNDER MY SUPERVISION OR AS N ARE CORRECT TO THE BEST OF MY KNOWLEDE AND BE RICHARD A ARMET <u>RLS 39002</u>

<u>SURVEY STATEMENT:</u>

PREPARED FOR: CLEAN HARBORS AR-ZONA, LLC 1340 W LINCOLN STREET PHOENIX, ARIZONA 85007

ED FOR:	
D FOR: NOT TO SCALE	PREPARED BY: PREPARED BY:
	BENCHMARK GUTY OF PHOENIX BENCHMARCK GUTY OF PHOENIX BENCHMARCK NGVD-29 ELEVATION=1074.602 CHI3 LD SQUARE ON WEST WING OF CATCH BASIN CONORTHEAST CORNER OF INTERSECTION OF 15TH AVENUE AND HARRISON



Section D Revision No. 13 Date: 02/09/2010

APPENDIX D-2

TANK ASSESSMENT

Certification Statement

I attest that I am a qualified Arizona Registered Professional Engineer. I have developed this written assessment and attest in writing that Tanks 101, 102, 104 and 301 have sufficient structural integrity, compatibility with the wastes to be stored and corrosion protection to ensure that they will not collapse, rupture or fail and are acceptable for the storing and treating of hazardous waste.

This assessment is based on TEAM tank inspections dated 7/15/09 which show that the foundation, structural support, seams, connections, and pressure controls (if applicable) are adequately designed and that the tank system has sufficient structural strength, compatibility with the waste(s) to be stored or treated, and corrosion protection to ensure that it will not collapse, rupture, or fail.

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

ohn William Caldy



Certification Statement

I attest that I am a qualified AZ registered Engineer. I have developed this written assessment and attest in writing that tanks 103 and 303 have sufficient structural integrity, compatibility with the wastes to be stored and corrosion protection to ensure that they will not collapse, rupture or fail and are acceptable for the storing and treating of hazardous waste.

This assessment is based on TEAM tank inspections dated 10/14/09 which show that the foundation, structural support, seams, connections, and pressure controls (if applicable) are adequately designed and that the tank system has sufficient structural strength, compatibility with the waste(s) to be stored or treated, and corrosion protection to ensure that it will not collapse, rupture, or fail.

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

William Caldwell

<u>/0/23/0</u>9 Date







CLEAN HARBORS PHOENIX, AZ

STORAGE TANK 101

EXTERNAL / INTERNAL INSPECTION COMPLETED 07-15-09

Team Work Order #12890168

TEAM "Industrial Services, Inc.

Clean Harbors; Phoenix, AZ Tank 101

TABLE OF CONTENTS

1

DESCRIPTION

PAGE(s)

GENERAL TANK INFORMATIONA-1 SPECIFIC INFORMATION ABOUT THE TANKS CONSTRUCTION
METHODOLOGYB-1 & B-2 DETAILS ABOUT THE INSPECTIONS PERFOMED
SUMMARY & RECOMMENDATIONS C-1 THRU C-3 LIST OF ANOMALIES FOUND DURING THE INSPECTION & RECOMMENDED ACTIONS
TANK DRAWINGSD-1 INCLUDES NOZZLE DATA AS WELL AS THICKNESS READINGS OF THE SHELLS, ROOF AND NOZZLES
PHOTOGRAPHS E-1 THRU E-3 PHOTOS SHOWING VARIOUS TANK ELEMENTS
DATA EVALUATION & ANALYSISF-1 & F-2 CALCULATED; CORROSION RATES, REMAINING LIFE & REQUIRED THICKNESS
INSPECTION TECHNIQUE SHEETS G-1 & G-2 FORMS SHOWING TYPES OF NDE EQUIPMENT USED, PARAMETERS, ETC.



Clean Harbors; Phoenix, AZ Tank 101

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Client: Cl	ean Harbors			F
Location:	V 1000	coln St.		Material:
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Туре	Last insp.	Insp.	Due	Ellipt
External			7-15-11	Dish De
Internal	01-08-08	07-15-09 0	17-15-11	Joint Type
				🛛 🛛 Wek
Service:	Flammable Lie	quid Waste Ta	ank	Weld Ty
Tank Identi	ification: <u>Tank</u>]	1
Capacity:	2,500 Gals.	Height:	12' 2"	
Dlameter o	or Length/Width	6'0"		Material:
Orientation	i: 🔯 Vertical	- Horiz	ontal	Course
Shape:	🛛 Circular	Rect	angular	Ht. or Leng
				Nom. Thk
Mig. By:	Unk.			Joint Type
	ss: Unk.			X Wel
		-		Weld T
Date of Ma	anufacture: 1	992 (essumed)		
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	v. Work. Temp.			Dish D
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				Atmos
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Material:	🛛 Concrete	🗌 Gravel	🗌 Soil	Pres. F
	Other:			🖾 Roof A
1				🛛 Interna
	TANK SI			🗋 Autoga
Туре:	Cradle	🗋 Skirt	🗋 Legs	🖂 High L
	Other;			
Material:	Steel	Concrete		Callroo
			a barrilla Man	· · · ·

TANK / VESSEL DATA

ROOF OR UPPER HEAD CONSTRUCTION												
Material: Carbon Steel Cor. Allow. N/A												
Roof or Head Type: Thickness: 3/16" Image: Plat Image: Flat Flanged Torispherical (F&D) Image: Conicel Image: Toriconical Hemispherical Image: Elliptical Other; Self Supporting												
Dish Depth: <u>N/A</u> Fig. Length <u>N/A</u> Kn. Radius <u>N/A</u>												
Joint Type: Welded Riveled Bolted Lapped Statted Weld Type: From both sides Joint Eff. N/A												
SHELL CONSTRUCTION												
Course 1 st 2 ^{ss} 3 st 4 st 5 st 6 st 7 st 8 st Ht. o Length 50" 48												
Nom. Thk. 1/4" 1/4" 1/4"												
Joint Type:												
BOTTOM OR LOWER HEAD CONSTRUCTION												
Material: Carbon Steel Cor. Allow. N/A												
Bottom or Head Type: Thickness: 1/4" Image: State of the state of th												
Dish Depth: <u>N/A</u> Fig. Length <u>N/A</u> Kn. Radius <u>N/A</u>												
Joint Type:												
Weld Type: From both sides Joint Elf. N/A												
ADDITIONAL INFORMATION												
External Coating: Painted Black & White												
Internal Lining: <u>None</u> Atmospheric Vent: None												
Normal Vent: 8" Jayco, M/N; JT-20												
Emergency Vent: 8" OPW, M/N; 292-F8												
Pres, Relief Vent: None												
Roof Access: Catwalk												
Internal Access: Shell mounted manway												
Autogauge Device: None												
⊠ High Level Indicator □ Internal Colls ⊠ Grounded □ Overflow Vent □ External Jackot ⊠ Anchored □ Cathodic Protection □ Agitator / Mixer												

TEAM.^{*} Industrial Services, Inc.

Clean Harbors; Phoenix, AZ Tank 101

METHODOLOGY

Team Industrial Services was contracted to perform an Internal / external inspection on Storage Tank 101 located at Clean Harbors; Phoenix, AZ facility. This inspection is intended to meet the mechanical integrity requirements of the various state and federal agencies. This section describes the methods and procedures used to perform the inspection.

The inspection report is a compilation of data obtained through visual inspections, conversations with plant personal and client supplied information. This includes quantitative and qualitative data necessary to document the tank's condition. The inspector prepares the field data in accordance with generally accepted standards, codes and good engineering practice. Recommendations, such as repairs, service modifications, maintenance operations, and additional NDE, are based on the evaluation of the tank's condition. The contents contained within the tank are also taken into consideration when making decisions such as frequency and type of future inspections.

The latest editions of the below referenced codes and/or standards were used in determining the tanks acceptability.

- API 653; Tank Inspection, Repair, Alteration and Reconstruction.
- API 650; Welded Tanks for Oll Storage
- API 2000; Venting Atmospheric & Low-Pressure Storage Tanks
- UL-142; Steel Aboveground Tanks for Flammable & Combustible Liquids

Other Codes and/or Standards related to work practices

- ASME Sec. V; Nondestructive Testing.
- ASTM E 543-96; Standard Practice for Agencies Performing Nondestructive Testing.
- OSHA; 29 CRF 1910 "Occupational Safety and Health Standards"
- API 2015; Safe Entry & Cleaning of Petroleum Storage Tanks

The report is divided into six main activities:

- 1. Tank/Vessel Data
- 2. Visual Inspection
- 3. Drawings
- 4. Photographs
- 5. Data Evaluation & Analysis
- 6. Non-Destructive Examination

Tank/Vessel Data

The Tank/Vessel Data form was filled out after the inspection had been completed. It defines the original tank design parameters, the current design parameters, the tank history, the foundation configuration and the current tank configuration. Original client documents, verbal client information and field observations were used to complete this form.



Visual Inspection

The visual inspection was performed using guidelines set forth in current editions of API, ASME and/or ASTM. All accessible areas of the tank and its appurtenances were inspected. Observations made during this inspection are listed in the Summary and Recommendations portion of this report. The following are some of the essential elements of the Visual Inspection:

- Detection of leaks.
- Detection of cracks or potential crack initiators.
- · Detection of physical damage, such as gouges and scratches.
- Detection of blisters, disbond or separations of fiberglass piles.
- Detection of external corrosion, erosion or get coat failure.
- Detection of appurtenance's which may violate applicable codes, standards or good engineering practice.
- Detection of foundation and/or support deficiencies.
- Verification of venting used for normal breathing and/or emergency pressure release.

Drawings

The drawings show the tanks overall dimensions, general location of nozzles, as well as any other pertinent information.

Pholographs

Photographs were taken to show the current condition of the tank and its appurlenances.

Data Evaluation & Analysis

Methods described in the current edition of API 653 were used to calculate items such as;

- Minimum required shell plate thickness
- Corrosion rates
- Inspection Intervals
- Remaining Life

Definitive Inspection

The Definitive Inspection is quantitative inspection of the tank components and consisted of the following: Roof - UT Thickness Survey

Ultrasonic thickness readings were taken from the center of the roof to the outer perimeter at locations shown on the tank drawings

Shell - UT Thickness Survey

Ultrasonic thickness readings were taken from top to bottom at locations shown on the tank drawings.

Bottom (or Floor) - UT Thickness Survey

Ultrasonic thickness readings were taken on the tank bottom at locations shown on the tank drawings.

Corrosion Scans

A minimum of two 10 x 10" Ultrasonic corrosion scans were done on the tank bottom. One at the tanks center and another at the outer perimeter.

If applicable, additional corrosion scans were done on the exterior of the tank shell where the internal visual inspection found corrosion.

The results of the UT thickness surveys are shown on the tank drawings. The results of the corrosion scans are discussed in the summary portion of this report. Nozzle thickness measurements shown on the tank drawing were taken from the last inspection. Information such as the referenced codes, standards or procedures, type of equipment used, etc. can be found on the technique sheet (s).

Drawings or Layouts

The drawings show the tanks overall dimensions, general location of nozzles, nozzle identification numbers, as well as any other pertinent information. Ultrasonic thickness data was also recorded on the drawings,

TEAM^{*} Industrial Services, Inc.

Clean Harbors; Phoenix, AZ Tank 101

SUMMARY & RECOMMENDATIONS

Recommendations Italicized

DISCUSION AND HISTORICAL INFORMATION

This tank is used for the storage of flammable and non-flammable waste liquids. This tank has a cone roof, a flat bottom, butt welded shell seams and is constructed of carbon steel. The tank has no name plate and the only records are of the inspection performed by myself on 01-08-08. The date and standard of construction is not known, the tank was probably built to either API or UL standards. For the purpose of estimating a corrosion rate, I'm using 1992 for a date of construction, since that's when the plant was built. All of the tanks at this facility were probably used elsewhere before being moved here in 1992. This tank has not been used since the last inspection. All recommended corrective actions mentioned in the previous inspection report have been fulfilled by the client and verified by myself during this inspection.

INSPECTION FINDINGS

Exterior

Roof, Shell & Appurtenances

 Overall, the tanks coating is oxidized but in fair condition. Some light rust was found at random areas on the roof, shell, nozzles & anchors. The client has purchased paint and has plans on spot coating rusted areas.
 Spot post runted areas prior to the part asheduled inspection.

Spot coat rusted areas prior to the next scheduled inspection.

- 2) The NFPA warning label was replaced and is in good condition. No action necessary.
- 3) The area inside the pressure/vacuum vent has been cleaned and both pressure and vacuum relieving devices appear to be functioning properly. Plant personal should perform periodic inspections.

FOUNDATION &/OR SUPORT SYSTEM

 A few tight radial cracks were found on the elevated pad. None are in need of repair at this time.

Perform periodic visual inspections of the foundation and dike area and repair when needed.

 Except for some rust, the anchors and anchor bolts appear to be in good shape. No action necessary.

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INTERIOR

Roof, Shell, Bottom & Appurtenances

Prior to this inspection, the tank was cleaned so that a proper visual inspection could be performed on the roof, shell and tank bottom.

6) The internal visual inspection found the following:

The <u>roof</u> has a general overall pattern of corrosion; external thickness measurements indicate a minimum remaining thickness of .175" (estimated loss of .075", estimated corrosion rate .0031/year).
 Acceptable, according to API 653, para 4.2.1.2 the roof only has to have an average.

<u>Acceptable</u>, according to API 653, para 4.2.1.2 the roof only has to have an average thickness of .090" in any 100 in.² area and contain no holes.

The upper portion of the <u>shell</u> has a general overall pattern of corrosion. The worst of which was found on the west side, 21" from the top. External thickness measurements at this location indicate a minimum remaining thickness of .183" (estimated loss of .067", estimated corrosion rate .0028/year). At this rate the shell should reach the minimum allowable thickness of .100" in 29 years. API 653, para. 4.3.2.1 provides a formula to determine the inspection interval based on shell corrosion rates. The formula is as follows; RCA/4N, where RCA is the remaining corrosion allowance and N Is the corrosion rate. The lesser of 5 years or the results of the formula is to be used for the inspection interval. In this case 5 years is the lesser of the two. See "Data Evaluation & Analysis" portion of this report for more information.

<u>Acceptable</u>, according to formulas provided in API 653, para 4.3.2.1 re-inspection is not due for another 5 years. As an extra margin of safety, I'm recommending the next internal/external inspection be performed in another 2 years or by 07-15-11. The reason for the extra margin of safety is due to factors such as; inconsistency of products stored inside the tank, varying corrosion rates and lack of historical information.

Overall the tank <u>bottom</u> is in fairly good condition. The corrosion scans found no signs of bottom side corrosion. The tank bottom has a nominal thickness of .250". A few areas were found to contain isolated corrosion pits, most are less than .040" deep. One .090" deep pit was found on the east side of the tank, about 24" in from the shell (remaining thickness at pit is .160", estimated corrosion rate .0038/year). At this rate the bottom will reach the minimum allowable thickness of .100" in 16 years. API 653 allows for a maximum inspection interval of 20 years if the corrosion rate is known or 10 years if unknown. API also sets a minimum remaining tank bottom thickness at the next scheduled inspection; for this tank that thickness is .100". Reference API 653 paragraphs 4.4.5.1, 6.4.2.1, 6.4.2.2 & Table 6-1. See "Data Evaluation & Analysis" portion of this report for more information.

<u>Acceptable</u>, according to API 653, re-inspection is not due for 10 years. As an extra margin of safety, I'm recommending the next internal/external inspection be performed in another 2 years or by 07-15-11. The reason for the extra margin of safety is due to factors such as; inconsistency of products stored inside the tank, varying corrosion rates and lack of historical information.

Although not required at this time, the client should plan to have any corrosion pits in excess of .050° deep weld overlayed (puddle welded) during the next inspection. This action will keep the client form having to install patches sometime in the future. If considered, the client shall ensure the welding contractor has the proper documentation.

TEAM ^a Industrial Services, Inc.

GENERAL NOTES

- 7) The client should insure that all mechanical and electrical equipment associated with this tank is checked periodically for proper function. In addition, visual Inspections should be performed by trained plant personal on a regular basis. These checks should also be done on before the tank is returned to service.
- 8) The client should retain a copy of this report in their tank files for the life of the tank.
- 9) Thickness measurements taken during this inspection are essentially the same as taken during the last inspection. Any differences in measured thicknesses are attributed to the varying locations where the measurements taken and not due to an actual loss or gain in thickness.

CONCLUSION

The tank and its appurtenances were inspected and evaluated to the best of my abilities. I found no evidence or issues during my inspection and evaluation that would keep the client from returning the tank to service.

INSPECTED BY:

Any motimundations made by the API bank indepetition of the used only as a pundeling for making repairs, as required by the default. Nether Team industrial Services nor iher inspectars accept reports by the API bank indepetity, even after these recommendations are followed. At of the data complete which ihis tank repair should be reviewed by an engineer expendence in the design, construction and repair of above ground storage tanks. Culculations, maximum dations and evaluations contained within the teach do not take into constituention that affects of additional taxes even within the teacher occurs on the take into constituention that affects of additional taxes even within the teacher occurs on the taxe into contained accessed by an engineer expendenced in the design, construction and repair of above ground storage tanks. Culculations, maximum dations and evaluations contained within the teacher of the tax into constituention that affects of additional taxes even wind, setteme cultive or intendend compensate. Consistent are and counted to additional taxes storage tanks. Charles to take taxes and the tax into contained custed by products particularly stored inside the tank. Charles the moderate taxes to the taxes and the tax and are some contained custed by counted, particularly stored inside the tank. Charles to take taxes to enter the taxes and the tax contained taxes to contained the additional taxes and unside the taxes to additional paysical or moderatical charles to the tax and are taxed to additional taxes to enter a storage to the taxes and the tax and the taxes and taxes and taxes and taxes and taxes taxes and
John Morton

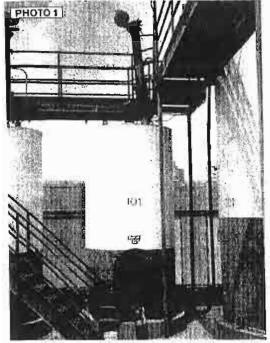
API 612 Cort 804-13 API 610 Cont. 8325-10 API 510 Cont. 832767 API 726 Cont. 831787 API 726 Cont. 834010

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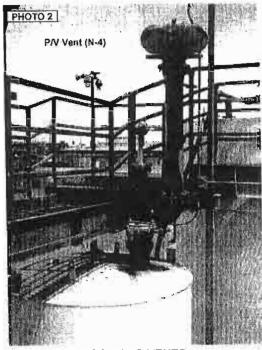
DATE: 07-15-09

WSEWIC

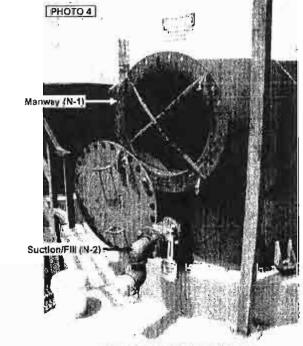


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TANK AS VIEWED FROM THE EAST

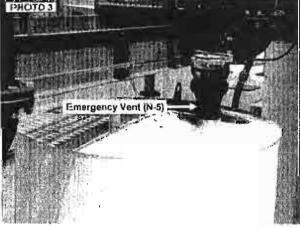


ROOF AND VENTS AS VIEWED FROM THE SOUTHEAST



LOWER EAST SIDE OF TANK





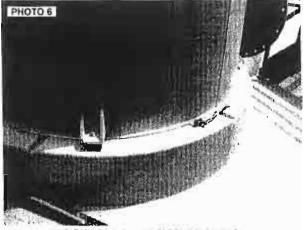
ROOF AS VIEWED FROM THE SOUTHEAST



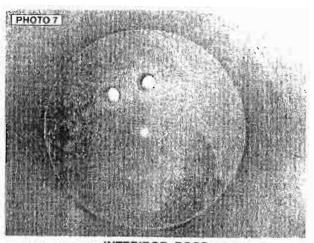
TEAM ^{*} Industrial Services, Inc.



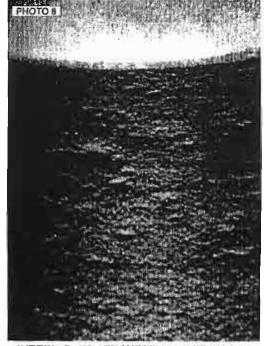
LOWER WEST SIDE OF TANK



LOWER SOUTH SIDE OF TANK; VIEW SHOWING TYPICAL ANCHOR & GROUND WIRE



INTERIROR, ROOF



INTERIOR, UPPER WEST SIDE OF SHELL; VIEW SHOWING CORROSION



INTERIOR, LOWER EAST SIDE OF TANK;



INTERIOR, TANK BOTTOM; VIEW SHOWING CORROSION



Clean Harbors; Phoenix, AZ Tank 101

DATA EVALUATION & ANALYSIS CORROSION RATE & REMAINING LIFE CALCULATIONS

Da	ate	Time In Service					
Bullt	Current	Days	ys Weeks Months				
7/15/1985	7/15/2009	8786 00	1248.00	288.00	24.00		

Date Built obtained from Records or Nameplate

Date Built Estamated

Tank Bottom Corrosion

Area	Onto	Dote	Years of	Beginning	Oepth	Remaining	Corrosion	Roq'ed	Corrosion	Years to	Railromoni
Affected	Built	Inspected	Service	Thickness	Corrosion	Wall	Rate	Thickness	Allowance	Retirement	Oate
ากเจากลม	07/15/85	07/15/09	24.00	0.250	0.090	0.160	0.0038	0 100	0.060	16.000	7/15/2025
External	07/15/85	07/15/09	24.00	0.250	0.000	0.250	0 0000	0 100	0.150	N/A	N/A
Combined	07/15/85	07/15/09	24.00	0.250	0.090	0.160	0.0038	0.100	0.060	16.000	7/15/2025

Notes: 1) Calculated using formulas provided in the 2008 edition of API 653, para. 4 4.5 1

Un-repaired Bottom

Repaired Boltom

MTR = (Minimum of RT_{bc} or RT_b)-Or(SIP,+Up,)

MTR	0.153	Minimum remaining thickness at the end of interval Or
O,	2	In service interval; Max 10 yrs if unknown, 20 yrs if known
RTbe	0,250	Minumum thickness from external corrosion after repairs
Rlip	0.160	Minumum thickness from internal corrosion after repairs
StP,	0.0038	Maximum rate of un-repaired internal corrosion
UĻ,	0.0000	Maximum rate of external corrosion

Tank Shell Corrosion

Area	Data	Date	Years of	Beginning	Depih	Remaining	Corrowon	Req'ed	Corrosian	Years to	Relicement
Allociad	Bolh	inspected	Service	Thickness	Corrosion	Well	Rate	Thickness	Allowance	, Retirement	Date
Internal	07/15/85	07/15/09	24.00	0.250	0.067	0.183	0.0028	0.100	0.083	29.731	4/8/2039
External	07/15/85	07/15/09	24.00	0.250	0 0 0 0	0.250	0.0000	0.100	0.150	N/A	N/A
benidmo0	07/15/85	07/15/09	24.00	0.250	0.067	0.183	0.0028	0.100	0.083	29731	4/8/2039

Notes: 1) The required thickness shall be the lesser of the current calculated thickness or .100"

Average Shell Thickness Determination of Corroded Areas

$L = 3.7 \sqrt{Dt_2}$	Ð	t ₂	t ₂ Elev.	L	L/5
2 3.1 40.2	6.00	0.183	21.00	3.88	0.78

L = Length in inches where hoop stress is assumed to average out around local discontinuities

D = Tank Diameter in feet

12 = Least Thickness In Inches of Corroded Area

I2 Elev. = Elevation or Distance from the lop of the tank to the area of least thickness

I, = Average Thickness of five equily spaced thicness measurements

Notes: 1) Calculated using formulas provided in the 2008 edition of API 853, para. 4.3.2.1

2) 12 & 11 values shall be used in shell's required thickness calculations on page F-2

UT Inspection	Interval :	= Lesser of RCA/2N or 15 years
RCA/2N =	14.87	

External Inspection Interval = Lesser of RCA/4N or 5 years RCA/4N = _____7.43

Conclusion:

Tank Boltom Corrosion Evaluation: Tank can be returned to service and used for two years before another internal inspection is required. Tank Shell Corrosion Evaluation: Tank can be returned to service and used for two years before another external inspection is required.

Thickness Location	Distance form Top	Messured Thickness
1	19.45	0.198
2	20.22	0.192
3	21.00	0.183
4	21.78	0.194
5	22.55	0.198
Avera	age t _i 🔶	0.193

Clean Harbors; Phoenix, AZ Tank 101



DATA EVALUATION & ANALYSIS REQUIRED THICKNESS DETERMINATION

OFM

Shell Design Method To Be Used Enter "VDP" for variable design point method or "OFM" for one foot method.

Tank Diameter 6' Specific Gravity 1.0

Table 1: Original Tank Data

Course	Height	Height	T orig.	Materi	Min.	Min.	Allow.	Stress	Joint
Course Number	(in.)	(ft.)	(in.)	al Spec.	Yield*	Tensile*	Product	Water	Efficiency
1	50.00	04.167	3/16"	C.S.	30,000	55,000	23,600	26,000	0.70
2	48.00	04.000	3/16"	C.S.	30,000	55,000	23,600	26,000	0.70
3	48.00	04.000	3/16"	C.S.	30,000	55,000	26,000	27,000	0.70
Total	146.00	12.17							

If shell material is known; Minimum yield, Minimum Tensile & Allowable Stress figures were obtained from API 653, lable 4.1.
 If shell material is unknown; Minimum yield, Minimum Tensile & Allowable Stress figures derived by using the formulas in API 653.
 Welded tanks - para. 4.3.3 Riveted tanks - para, 4.3.4.

Table 2: Calculated Tank Data

Course	T ₁	T ₂	T _{min}		Calculated	Shell Chee	ck Product	Shell che	ck Water
Number	(Inch)	(Inch)	Product	Water	H. (ft.)	T, Check	T, Check	T. Chock	T ₂ Check
1	0.242	0.240	.011	.010	11.17	Yes	Yes	Yes	Yes
2	0.226	0.220	.007	.006	7.00	Yes	Yes	Yes	Yes
3	0.201	0.185	.003	.002	3.00	Yes	Yes	Yes	Yes

Calculate:

New Fill Height For Product:	No	New Fill Height For Water:	No
Colculate only if shell courses are not adequate due to: minimum	or avarage thi	chness' (71 or 12) being lass then likeliness required (7 mg/d). See next page if one	wer is yea.

Notes:

Regultements for continued operations per API 653, Section 4.3.3 or 4.3.4:

- 1. T_{min} (or required thickness) = 2.6*H-1*D*G / S*E (use the greater of T_{min} in Table 2 or .100" thick)
- 2. No pitting shall be greater than one half the T_{min} or exceed 2" in 8" in a vertical direction.
- 3. The value of T_1 shall be greater than or equal to T_{min} .
- 4. The value of T₂ shall be greater than or equal to 60% of T_{min}.
- 5. The external inspection Interval shall not exceed five years, as per API 653, para. 4.3.3.2a.
- 6. Any corrosion allowance for service until the time of the next inspection shall be added to the T_{min} in items 3 & 4.

CONCLUSION

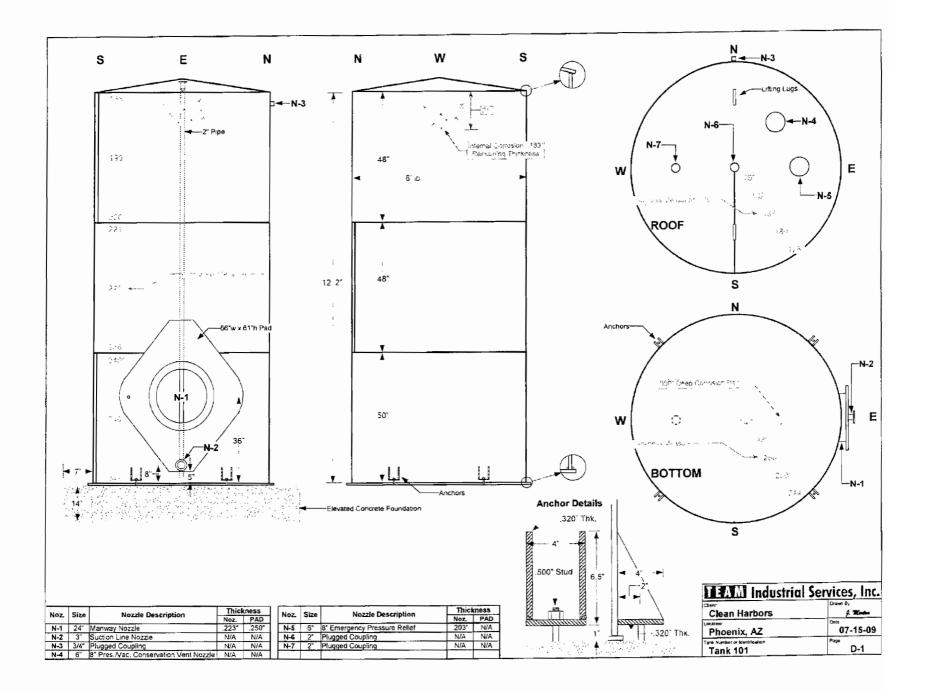
The evaluation shows that the tank can be safely filled to the top of the tank shell or 12' 2"

ULTRASONIC EXAMINATION - TECHNIQUE SHEET

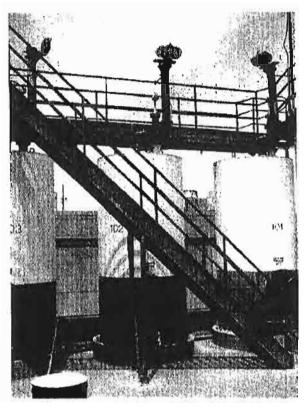
Client Name: Clean Harbors	Jobsi	e: Phoenix, A	Z			
Job Description: UT thickness Measurements		11-2-2				
Project Number:		ob or Operation	No.:			
Drawing / Part No.: Tank 101		erial or Item N				
					ME Dog	1/11/
API 653 / ASME Sec. V Art. 5 UT.A Specification:	SME.3 Rev Procedure	7	API 650	, 653 &/or AS		. VIII
SCOPE	OF WORK	PERFORMED	_			
Thickness measurements were taken on po	rtions of the	; Roof, Shell &	<u>a Tank E</u>	Bottom		
		ORMATION			Thistory	
Material: 🔯 C.S. 🗋 S.S. 🗋 Al. 🗍 Babbilt 🛄 C Component Type: 🔯 Plate 📃 Bar 🔯 Pipe 🗍 T		Dir Ing _ 🔲 Extrusio	nensions			iss: N/A
EXA	MINATION 1					
Contact Pulse Echo		Longitudinal		Water F		in.
Immersion Thru-Transmission		Shear		Delay L	ine:	in.
EQUIPMENT				TION INFORMATE		_
Scope Manufacturer: Panametrics		Back Wall Tech	nique	Ref. Signal A		0+%
Model: Epoch LT S/N: 070149004		Calibration Standard Type: Step Wedge Calibration Standard Material: Carbon Steel				
Transducer Manufacturer: Panametrics Model: D-790 S/N: 803018		Calibration Standard Material: Carbon Steel				
Freq.: 5MHz Size: .375" Angle: 0		Reflector Size(s): N/A				
Transducer Manufacturer. N/A		Reflector Depth(s): .100" to .500"				
Model: N/A S/N: N/A		AC Settings:	N/A			
Freq.: N/A Size: N/A Angle: N		eference Level.		Attenuation C	Correction	: N/A
Couplant: Cellulose Gell Batch No. A	V/A S	canning Gain:	N/A			
EX	AMINATION	RESULTS				
Remarks			Ske	tch / Drawing		
Thickness measurements are shown on the	tank					2002
drawings and discussed in the summary po						
the report.						
└──── ∖ ────						
111	-					
Inspector: John N	lorton	ASNT UT Leve	el: <i>11</i>		Date:	07-15-09
					~~	

ULTRASONIC EXAMINATION - TECHNIQUE SHEET

Client Name: Clean Harbors	obsite: Phoenix, AZ			
Job Description: UT Corrosion Scans				
Project Number:	Job or Operation No.:			
Drawing / Part No.: Tank 101	Serial or Item No.: N/A			
API 653 / ASME Sec. V Art. 5 UT-ASME	-1 Rev.1 API 650, 653 &/or ASME Sec. VIII			
Specification. Proce				
SCOPE OF	WORK PERFORMED			
	random areas of the tank bottom, shell and roof.			
	ENT INFORMATION			
Material: C.S. SS. Al. Babbitt Other:	Dimensions: N/A Thickness: N/A			
Component Type: X Plate Bar I Pipe I Tube	Forging Extrusion Billet Other:			
EXAMINA	ATION TECHNIQUE			
Contact Pulse Echo	Longitudinal Water Path: In.			
Immersion Inru-Transmission	Shear Delay Line: In.			
EQUIPMENT	CALIBRATION INFORMATION			
Scope Manufacturer: Panametrics	Back Wall Technique Ref, Signal Amp .: N/A			
Model: Epoch LT S/N: 070149004	Calibration Standard Type: Step Wedge			
Transducer Manufacturer: Krautkramer Model: Gamma S/N: 009YWH	Calibration Standard Material: Cerbon Steel Reflector: FBH SDH Nolch			
Freq.: 5 MHz Size: .5" x .5" Angle: 0°	Reflector Size(s): N/A			
Transducer Manufacturer: N/A	Reflector Depth(s): .100" to .500"			
Model: N/A S/N: N/A	DAC Settings: N/A			
Freq.: N/A Size: N/A Angle: N/A	Reference Level: N/A Attenuation Correction: N/A			
Couplant: Celfulose Gell Batch No.: N/A	Scanning Gain: N/A			
EXAMIN	ATION RESULTS			
Remarks	Sketch / Drawing			
Corrosion data is shown on the tank drawings a				
discussed in the summary portion of the report.				
	· · · · · · · · · · · · · · · · · · ·			
Inspector: John Mortor	ASNT UT Level II Date: 07-15-09			







CLEAN HARBORS PHOENIX, AZ

STORAGE TANK 102

EXTERNAL / INTERNAL INSPECTION COMPLETED 07-15-09

Team Work Order #12890168

TEAM I Industrial Services, Inc.

Clean Harbors; Phoenix, AZ Tank 102

TABLE OF CONTENTS

DESCRIPTION

PAGE(s)

GENERAL TANK INFORMATION	A -1
METHODOLOGY DETAILS ABOUT THE INSPECTIONS PERFOMED	B-1 & B-2
SUMMARY & RECOMMENDATIONS	С-1 таки С -З
TANK DRAWINGS INCLUDES NOZZLE DATA AS WELL AS THICKNESS READINGS OF THE SHELLS, ROOF AND NOZZLES	D-1
PHOTOGRAPHS PHOTOS SHOWING VARIOUS TANK ELEMENTS	-E-1 & E-2
DATA EVALUATION & ANALYSIS CALCULATED; CORROSION RATES, REMAINING LIFE & REQUIRED THICKNESS	-F-1 & F-2
INSPECTION TECHNIQUE SHEETS FORMS SHOWING TYPES OF NDE EQUIPMENT USED, PARAMETERS, ETC.	G-1 & G-2

Clean Harbors; Phoenix, AZ Tank 102

Client: Clean Hart	oors	
	est Lincoln St.	Ma
Phoenix	AZ 85007	Ro
Inspection Type Last Insp	p. Current Noxt Insp. Insp. Duo	
External 01-08-0	8 _07-15-09 _07-15-11	1
Internal 01-08-00	8 07-15-09 07-15-11	Jol
Service: Flammal	ble Liquid Waste Tank	
Tank Identification:	Tank 102	
Capacity: 2,500 G	als. Height: 12' 2"	—
Diameter or Length	Width: 6'0"	Ma
Orientation: 🕅 V	ertical Di Horizontal	Co
Shape: 🛛 🖾 C	frcular 🔲 Rectangular	Ht
		No
Mfg. By: Unk.		
Mfg. Address: Un	k.	Jo
Date of Manufacture	e: 1992 (assumed)	
Mfg. Serial Number		ſ
Standard of Constru		Ma
National Board Nun		1
	Design Unk. Product <1.0	Bo
	. Ft.: <62.4 pounds	
	Pres. 2,5 psl (assumed)	
Max. Allow. Work. 7 Max. Allow. Work. 7		
1		30
Operating Pressure		100
Operating Tempera		
Design Seismic Zor		L
Design Wind Load:		
Operating Level:	Fall	
Gallons / Ft.: 205		
	DUNDATION	
Type: 🛛 Slab	🔲 Ring Wall	\otimes
Material: 🖾 Conc.	rete 🗋 Gravel 🔲 Soil	Îñ
Other:		
	NK SUPPORT	10
Type: 🗋 Cradi	e 🗋 Skirt 🗋 Legs	
Other;		
Material: 🗍 Steel	Concrete	

TANK / VESSEL DATA

ROOF OR UPPER HEAD CONSTRUCTION								
Material: Carbon Steel	Cor. Allow. N/A							
Roof or Head Type: Thickness: 3/16" Image: Flat Construction Flat Flanged Image: State Structure Torispherical (F&D) Image: State Structure Image: State Structure Image: State Structure State Structure								
Dish Depth: N/A Flg. Length N/A	Kn. Radius <u>N/A</u>							
Joint Type: Ø Weldad	Lepped 🛛 Bulled Joint Eff. N/A							
SHELL CONSTRUCTIO	N							
Material: Carbon Steel	Cor. Allow. N/A							
Course 1 st 2 nd 3 rd 4 th 5 th	6 th 7 th 8 th							
Ht. « Length 50" 48" 48"								
Nom. Thk. 1/4" 1/4" 1/4"								
Joint Type: Welded I Riveled Bolted I Weld Type: From both sides	Lapped 🛛 Butled Joinl Eff. <u>N/A</u>							
BOTTOM OR LOWER HEAD CONSTRUCTION Material: Carbon Steel Cor. Allow. N/A Bottom or Head Type: Thickness: 1/4" Ø Flat Flat Flanged Torispherical (F&D) Ø Conical Toriconical Hemispherical Ø Elliptical Other;								
Dish Depth: N/A Fig. Length N/A Kn. Radius N/A Joint Type:								
ADDITIONAL INFORMAT	ION							
ADDITIONAL INFORMATION X External Coating: Painted Black & White Internal Lining: None Atmospheric Vent: None Atmospheric Vent: None X Normal Vent: 8" Jayco, M/N; JT-20 Emergency Vent: 8" OPW, M/N; 202-F8 Pres. Relief Vent: None X Roof Access: Catwalk X Internal Access: Shell mounted manway Autogauge Device: None X High Level Indicator Internal Coils X Grounded Overflow Vent External Jacket Anchored Cathodic Protection Agitator / Mixer Internal Access								

Clean Harbors: Phoenix, AZ Tank 102

TEAM." Industrial Services, Inc.

METHODOLOGY

Team Industrial Services was contracted to perform an Internal / external inspection on Storage Tank 102 located at Clean Harbors; Phoenix, AZ facility. This inspection is intended to meet the mechanical Integrity requirements of the various state and federal agencies. This section describes the methods and procedures used to perform the inspection.

The inspection report is a compilation of data obtained through visual inspections, conversations with plant personal and client supplied information. This includes quantitative and qualitative data necessary to document the tank's condition. The inspector prepares the field data in accordance with generally accepted standards, codes and good engineering practice. Recommendations, such as repairs, service modifications, maintenance operations, and additional NDE, are based on the evaluation of the tank's condition. The contents contained within the tank are also taken into consideration when making decisions such as frequency and type of future inspections.

The latest editions of the below referenced codes and/or standards were used in determining the tanks acceptability.

- API 653; Tank Inspection, Repair, Alteration and Reconstruction.
- API 650; Welded Tanks for Oil Storage
- API 2000; Venting Atmospheric & Low-Pressure Storage Tanks
- UL-142; Steel Aboveground Tanks for Flammable & Combustible Liquids

Other Codes and/or Standards related to work practices

- ASME Sec. V; Nondestructive Testing.
- ASTM E 543-96; Standard Practice for Agencies Performing Nondestructive Testing.
- OSHA; 29 CRF 1910 "Occupational Safety and Health Standards"
- API 2015; Safe Entry & Cleaning of Petroleum Storage Tanks

The report is divided into six main activities:

- 1. Tank/Vessel Data
- 2. Visual Inspection
- 3. Drawings
- Photographs
- 5. Data Evaluation & Analysis
- 6. Non-Destructive Examination

<u>Tank/Vessel Data</u>

The Tank/Vessel Data form was filled out after the Inspection had been completed. It defines the original tank design parameters, the current design parameters, the tank history, the foundation configuration and the current tank configuration. Original client documents, verbal client information and field observations were used to complete this form.

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Visual Inspection

The visual inspection was performed using guidelines set forth in current editions of API, ASME and/or ASTM. All accessible areas of the tank and its appurtenances were inspected. Observations made during this inspection are listed in the Summary and Recommendations portion of this report. The following are some of the essential elements of the Visual Inspection:

- Detection of leaks.
- Detection of cracks or potential crack initiators.
- Detection of physical damage, such as gouges and scratches.
- Detection of bilsters, disbond or separations of fiberglass piles.
- Detection of external corrosion, erosion or get coat failure.
- Detection of appurtenance's which may violate applicable codes, standards or good engineering practice.
- Detection of foundation and/or support deficiencies.
- Verification of venting used for normal breathing and/or emergency pressure release.

Drawings

The drawings show the tanks overall dimensions, general location of nozzles, as well as any other pertinent information.

Photographs

Photographs were taken to show the current condition of the tank and its appurtenances.

Data Evaluation & Analysis

Methods described in the current edition of API 653 were used to calculate items such as;

- Minimum required shell plate thickness
- Corrosion rates
- Inspection Intervals
- Remaining Life

Definitive Inspection

The **Definitive Inspection** is quantitative inspection of the tank components and consisted of the following: Roof - UT Thickness Survey

Ultrasonic thickness readings were taken from the center of the roof to the outer perimeter at locations shown on the tank drawings.

Shell - UT Thickness Survey

Ultrasonic thickness readings were taken from top to bottom at locations shown on the tank drawings.

Battom (or Floor) - UT Thickness Survey

Ultrasonic thickness readings were taken on the tank bottom at locations shown on the tank drawings.

Corrosion Scans

A minimum of two 10 x 10" Ultrasonic corrosion scans were done on the tank bottom. One at the tanks canter and another at the outer perimeter.

If applicable, additional corrosion scans were done on the exterior of the tank shell where the Internal visual inspection found corrosion.

The results of the UT thickness surveys are shown on the tank drawings. The results of the corrosion scans are discussed in the summary portion of this report. Nozzle thickness measurements shown on the tank drawing were taken from the last inspection. Information such as the referenced codes, standards or procedures, type of equipment used, etc, can be found on the technique sheet (s).

Drawings or Layouts

The drawings show the tanks overall dimensions, general location of nozzles, nozzle identification numbers, as well as any other pertinent information. Ultrasonic thickness data was also recorded on the drawings.

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Clean Harbors; Phoenix, AZ Tank 102

SUMMARY & RECOMMENDATIONS

Recommendations Italicized

DISCUSION AND HISTORICAL INFORMATION

This tank is used for the storage of flammable and non-flammable waste liquids. This tank has a cone roof, a flat bottom, butt welded shell seams and is constructed of carbon steel. The tank has no name plate and the only records are of the inspection performed by myself on 01-08-08. The date and standard of construction is not known, the tank was probably built to either API or UL standards. For the purpose of estimating a corrosion rate, I'm using 1992 for a date of construction, since that's when the plant was built. All of the tanks at this facility were probably used elsewhere before being moved here in 1992. This tank has not been used since the last inspection. All recommended corrective actions mentioned in the previous inspection report have been fulfilled by the client and verified by myself during this inspection.

INSPECTION FINDINGS

Exterior

Roof, Shell & Appurtenances

 Overall, the tanks coating is oxidized but in fair condition. Some light rust was found at random areas on the roof, shell, nozzles & anchors. The client has purchased paint and has plans on spot coating rusted areas.

Spot coat rusted areas prior to the next scheduled inspection.

- 2) The NFPA warning label was replaced and is in good condition. No action necessary.
- 3) The area inside the pressure/vacuum vent has been cleaned and both pressure and vacuum relieving devices appear to be functioning properly. Plant personal should perform periodic inspections.
- 4) The break pin for the emergency pressure vent was found to be damaged during the last inspection; the pin has been replaced. No action necessary.

FOUNDATION &/OR SUPORT SYSTEM

 A few tight radial cracks were found on the elevated pad. None are in need of repair at this time.

Perform periodic visual inspections of the foundation and dike area and repair when needed.

6) Except for some rust, the anchors and anchor bolts appear to be in good shape. No action necessary.

INTERIOR

Roof, Shell, Bottom & Appurtenances

Prior to this inspection, the tank was cleaned so that a proper visual inspection could be performed on the roof, shell and tank bottom.

- 7) The internal visual inspection found the following:
 - The roof has a general overall pattern of corrosion; external thickness measurements indicate a minimum remaining thickness of .223" (estimated loss of .027", estimated corrosion rate .0001/year).

<u>Acceptable</u>, according to API 653, para 4.2.1.2 the roof only has to have an average thickness of .090" in any 100 in.² area and contain no holes.

• The upper portion of the <u>shell</u> has a general overall pattern of corrosion. The worst of which was found on the west side, 4" from the top. External thickness measurements at this location indicate a minimum remaining thickness of .195" (estimated loss of .055", estimated corrosion rate .0002/year). At this rate the shell should reach the minimum allowable thickness of .100" in 41 years. API 653, para. 4.3.2.1 provides a formula to determine the inspection interval based on shell corrosion rates. The formula is as follows; RCA/4N, where RCA is the remaining corrosion allowance and N is the corrosion rate. The lesser of 5 years or the results of the formula is to be used for the inspection interval. In this case 5 years is the lesser of the two. See "Data Evaluation & Analysis" portion of this report for more information.

<u>Acceptable</u>, according to formulas provided in API 653, para 4.3.2.1 re-inspection is not due for another 5 years. As an extra margin of safety, I'm recommending the next internal/external inspection be performed in another 2 years or by 07-15-11. The reason for the extra margin of safety is due to factors such as; inconsistency of products stored inside the tank, varying corrosion rates and lack of historical information.

Overall the tank <u>bottom</u> is in fairly good condition. The corrosion scans found no signs of bottom side corrosion. The tank bottom has a nominal thickness of .250". Numerous areas were found to contain corrosion pits up to .020" deep (remaining thickness at pits is .230", estimated corrosion rate .0008/year). At this rate the bottom won't reach the minimum allowable thickness of .100" for over 50 years. API 653 allows for a maximum Inspection interval of 20 years if the corrosion rate is known or 10 years if unknown. API also sets a minimum remaining tank bottom thickness at the next scheduled inspection; for this tank that thickness is .100". Reference API 653 paragraphs 4.4.5.1, 6.4.2.1, 6.4.2.2 & Table 6-1. See "Data Evolution & Application of this report in corrosion."

1. See "Data Evaluation & Analysis" portion of this report for more information. <u>Acceptable</u>, according to API 653, re-inspection is not due for 10 years. As an extra margin of safety, I'm recommending the next internal/external inspection be performed in another 2 years or by 07-15-11. The reason for the extra margin of safety is due to factors such as; inconsistency of products stored inside the tank, varying corrosion rates and lack of historical information.

Although not required at this time, the client should plan to have any corresion pits in excess of .050" deep weld overlayed (puddle welded) during the next inspection. This action will keep the client form having to install patches sometime in the future. If considered, the client shall ensure the welding contractor has the proper documentation.

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GENERAL NOTES

- 8) The client should insure that all mechanical and electrical equipment associated with this tank is checked periodically for proper function. In addition, visual inspections should be performed by trained plant personal on a regular basis. These checks should also be done on before the tank is returned to service.
- 9) The client should retain a copy of this report in their tank files for the life of the tank.
- 10) Thickness measurements taken during this inspection are essentially the same as taken during the last inspection. Any differences in measured thicknesses are attributed to the varying locations where the measurements taken and not due to an actual loss or gain in thickness.

CONCLUSION

The tank and its appurtenances were inspected and evaluated to the best of my abilities. I found no evidence or issues during my inspection and evaluation that would keep the client from returning the tank to service.

INSPECTED BY:

Any recommendations made by the API trank inspector are to be used only as a publicitive for maxing repairs, as required by the chemic. Newher Team Industrial Sorvices nor their inspectors access responsibility for the teok's integrity, even after these recommendations are istowed. Att of the date compiled within this tank import should be reviewed by an engineer experienced in this design, construction and repair of above yreane storage tanks. Checulations, renommendations, are experienced in this design, construction and repair of above yreane storage tanks. Checulations, renommendations, and evaluations contained within this react inspection and repair of above yreane storage tanks. Checulations, renommendations and evaluations contained within this report do not take into consideration the efforts of additional loads imposed by wind, selicinic achility an attracted comparents. Consistent is not remaining the calculations, are badded as received by an engineering table of methane. There into a conditions caused by preducts previously storeo in site winds, physical in activities and the tank. Checulation remaining the calculations conditions caused by modulate previously storeo in site that. Checulation in methanical changes to the line how hold the incommunation is may be cause for re-eventualities contained in API 600 & 660 and good engineering judgment was used to determine the inspection frequency and next inspection useds. These dulos and/or frequencies may differ from tigencies other than API, in which case the more stingent should be followed.

John Morton

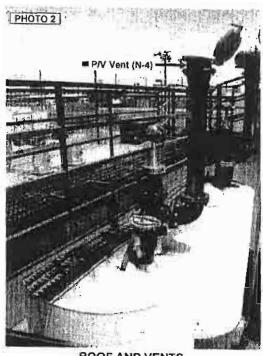
AP:053 Crit M1645 AP:550 Cort M2649 AP:520 Cort M2049 AP:520 Cort #30(Ar AP:120 Cort #34018 AV/S/CV) Crit Belioto301 ASNT:144(1) M1 P2 A UT

DATE: 07-15-09

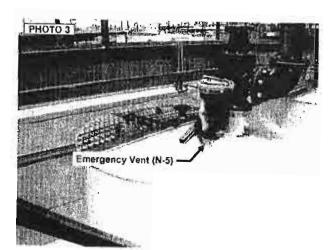




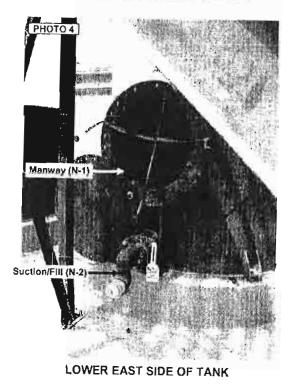
TANK AS VIEWED FROM THE EAST



ROOF AND VENTS AS VIEWED FROM THE SOUTHEAST



ROOF AS VIEWED FROM THE SOUTHEAST



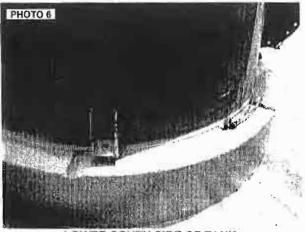


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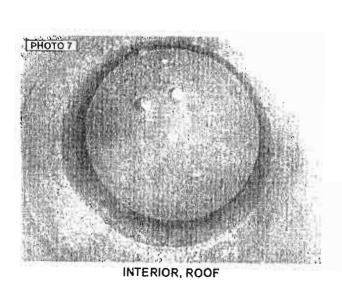


LOWER WEST SIDE OF TANK



LOWER SOUTH SIDE OF TANK; VIEW SHOWING TYPICAL ANCHOR & GROUND WIRE

PHOTO 8



INTERIOR, LOWER EAST SIDE OF TANK



Clean Harbors, Phoenix, AZ Tank 102

DATA EVALUATION & ANALYSIS CORROSION RATE & REMAINING LIFE CALCULATIONS

Dt	ste	Time In Service					
Built	Current	Days	Weeks	Months	Years		
7/15/1985	7/15/2009	8766 00	1248.00	288.00	24,00		

Date Bullt obtained from Records or Nameplate

🖸 Date Bullt Estamated

Tank Bottom Corrosion

Ares	Date	Date	Yens of	Beginning	Oepih	Remaining	Correston	Ren'ed	Corrosion	Years to	Ratirament
Affected	Built	Inspocted	Service	Thickness	Corrosion	Wall	Rate	Thickness	Allowance	Retiremont	Date
Internal	07/15/85	07/15/09	24.00	0 250	0.020	0.230	0.0008	0.100	0.130	156.000	7/16/2165
External	07/15/85	07/15/09	24.00	0.250	0.000	0 250	0.0000	0,100	0.150	N/A	N/A
Combined	07/15/85	07/15/09	24 00	0.250	0.020	0 230	0.0008	0.100	0.130	156.000	7/16/2185

Notes: 1) Calculated using formulas provided in the 2008 edition of API 653, para. 4.4.5.1

✓ Un-repaired Bottom

Repaired Boltom

MTR ≈ (Minia	num of RT _{be}	or RT _{ip})-Or(SIP,+Up,)
MTR	0.228	Minimum remaining thickness at the end of interval Or
О,	2	In service interval; Max 10 yrs if unknown, 20 yrs if known
RT	0.250	Minumum thickness from external corrosion after repairs
Rlip	0.230	Minumum thickness from internal corrosion after repairs
StP,	0.0008	Maximum rate of un-repaired internal corrosion
Ut,	0.0000	Maximum rate of external corrosion

Tank Shell Corrosion

Aroa	Date	Dale	Years of	Beginning	 Եսբնի	Remaining	Corrosion	Req'ed	Corrosion	Years to	Retirement
Affected	Bullt	Inspecied	Sarvice	Thickness	Corrosion	Wall	Rate	Thickness	Allowance	Retirement	Date
Internal	07/15/85	07/15/09	24.00	0.250	0.055	0.195	0.0023	0.100	0.095	41,455	12/28/2050
External	07/15/85	07/15/09	24.00	0.250	0.000	0.250	0.0000	0.100	0.150	N/A	N/A
Combined	07/15/85	07/15/09	24.00	0.250	0.055	0.195	0.0023	0.100	0.095	41.455	12/28/2050

Notes: 1) The required thickness shall be the lesser of the current calculated thickness or .100"

Average Shell Thickness Determination of Corroded Areas

$L = 3.7 \sqrt{Dt_2}$	D	tz	t, Elev.	L	L/5
	6.00	0.195	4.00	4.00	0 80

 L = Length in inches where hoop stress is assumed to average out around local discontinuities

D = Tank Dismeter in feel

t₂ = Least Thickness in inches of Corroded Area

12 Elev. = Elevation or Distance from the top of the tank to the area of least thickness

t1 = Average Thickness of five equily spaced thicness measurements

Notes: 1) Calculated using formulas provided in the 2008 edition of API 653, para 4.3.2.1

2) $t_2\,\&\,t_1$ values shall be used in shell's required thickness calculations on page F-2

UT Inspection	Interval = Lesser of RCA/2N or 15 years	
RCA/2N =	20 7 3	

External Inspection Interval = Lesser of RCA/4N or 5 years RCA/4N = ____10.36___

Thickness

Location

1

2

3

4

5

Distance form Top

2 40

3.20

4.00

4.80

Average t₁ -

Mensured

Thickness

0.197

0.199

0 195

0.230

0.240

0.212

Conclusion:

Tank Bottom Corrosion Evaluation: Tank can be returned to service and used for two years before another internal inspection is required. Tank Sheft Corrosion Evaluation: Tank can be returned to service and used for two years before another external inspection is required.

Clean Harbors; Phoenix, AZ Tank 102



DATA FVALUATION & ANALYSIS **REQUIRED THICKNESS DETERMINATION**

OFM

Shell Design Method To Be Used Enter "VDP" for variable design point method or "OFM" for one foot method.

Tank Diamater 6' Specific Gravity 1.0

Table 1: Original Tank Data

Course	Height	Height	T orig.	Materi	Min.	Min.	Allow, Stress		Joint
Course Number	(in.)	(ft.)	(in.)	al Spec.	Yield*	Tensile*	Product	Water	Efficiency
1	50.00	04.167	3/16"	C.S.	30,000	55,000	23,600	26,000	0.70
2	48.00	04.000	3/16*	C.S.	30,000	55,000	23,600	26,000	0.70
3	48.00	04.000	3/16"	C.S.	30,000	55,000	26,000	27,000	0.70
Total	146.00	12.17							

* If shell material is known; Minimum yield, Minimum Tensile & Atlowable Stress figures were obtained from API 653, table 4.1. If shell material is unknown; Minimum yield, Minimum Tensile & Allowable Stress figures derived by using the formulas in API 653. Rivoled tanks - para. 4,3,4, Welded tanks - para. 4.3.3

Table 2: Calculated Tank Data

Course	T ₁	T ₂	T _{mln}		Calculated	Shall Check Product		Shell chack Water	
Number	(Inch)	(inch)	Product	Water	H. (ft.)	T, Check	T, Check	T, Check	T, Check
1	0.245	0.243	.011	.010	11.17	Yes	Yes	Yes	Yes
2	0.245	0.244	.007	.006	7.00	Yes	Yes	Yes	Yes
3	0.212	0.195	.003	.002	3.00	Yes	Yes	Yes	Yes

Calculate:

New	Fill Height For Product:	
-----	--------------------------	--

New Fill Height For Water:

No

No Ciliculate only if shell courses menot adequate due to, minimum or evence internets' (11 or 12) being loss than blickness required (1 ma/d). See next page if answar is year.

Notes:

Requirements for continued operations per API 653, Section 4.3.3 or 4.3.4:

- 1. T_{min} (or required thickness) = 2.6*H-1*D*G / S*E (use the greater of T_{min} in Table 2 or .100" thick)
- 2. No pitting shall be greater than one half the Tmin or exceed 2" in 8" in a vertical direction.

- 3. The value of T_1 shall be greater than or equal to 60% of T_{min} . 4. The value of T_2 shall be greater than or equal to 60% of T_{min} . 5. The external Inspection interval shall not exceed five years, as per API 653, para. 4.3.3.2a.
- 6. Any corrosion allowance for service until the time of the next inspection shall be added to the T_{min's} in items 3 & 4.

CONCLUSION

The evaluation shows that the tank can be safely filled to the top of the tank shell or 12' 2"

.

ULTRASONIC EXAMINATION - TECHNIQUE SHEET

Specification Proc	Job or Operation No.: Serial or Item No.: N/A IE.3 Rev.1 API 650, 653 &/or ASME Sec. VIII codure: Acceptionce: F WORK PERFORMED ons of the; Roof, Shell & Tank Bottom
Drawing / Part No.: Yank 102 API 653 / ASME Sec. V Art. 5 UT.ASMI Specification Proc SCOPE OF	Serial or Item No.: N/A IE.3 Rev.1 API 650, 653 &/or ASME Sec. VIII codure: FWORK PERFORMED
Drawing / Part No.: Tank 102 API 653 / ASME Sec. V Art. 5 UT.ASMI Specification Proc SCOPE OF	Serial or Item No.: N/A IE.3 Rev.1 API 650, 653 &/or ASME Sec. VIII codure: FWORK PERFORMED
API 653 / ASME Sec. V Art. 5 UT.ASMI Specification Proc	API 650, 653 &/or ASME Sec. VIII Acceptance: F WORK PERFORMED
Specification Proc	F WORK PERFORMED
_	
Material; X C.S. S.S. Al. Babbitt Other	r: Dimensions: N/A Thickness: N/A
Component Type: X Plate C Bar X Pipe Tube	L Forging Extrusion Billet Other:
EXAMIN	NATION TECHNIQUE
Contact Pulse Echo	X Longitudinal Water Path: In.
Immersion Thru-Transmission	Shear Delay Line: In.
EQUIPMENT	CALIBRATION INFORMATION
Scope Manufacturer: Panametrics	Back Wall Technique Ref. Signal Amp.: 100+%
Model: Epoch LT S/N: 070149004	Calibration Standard Type: Step Wedge
Transducer Manufacturer: Panametrics Model: D-790 S/N: 803018	Calibration Standard Material: Carbon Steel Reflector: FBH SDH Notch
Freq.: 5MHz Size: .375" Angle: 0°	Reflector Size(s): N/A
Transducer Manufacturer: N/A	Reflector Depth(s) .100" to .500"
Model: N/A S/N: N/A	DAC Settings: N/A
Freq.: N/A Size: N/A Angle: N/A	Reference Level: N/A Attenuation Correction: N/A
Couplant: Cellulose Gell Batch No. N/A	Scanning Gain: N/A
EXAMI	INATION RESULTS
Remarks	Sketch / Drawing
Thickness measurements are shown on the tar	nk
drawings and discussed in the summary portio	on of
the report.	
	· · · · ·
logoastari CHLT internet	
Inspector: John Morto	onASNT UT Level: //Date:07-15-09

ULTRASONIC EXAMINATION - TECHNIQUE SHEET

Client Name: Clean Harbors	Jobsite: Phoenix, AZ					
Job Description: UT Corrosion Scans						
Project Number:	Job or Operation No.:					
Drawing / Part No.: Tank 102	Serial or Item No.: N/A					
	T-ASME-1 Rev.1 API 650, 653 &/or ASME Sec. V	111				
Specification;	Procedure:Acceptance:					
	DPE OF WORK PERFORMED					
	med on random areas of the tank bottom, shell and roof.					
Olitasonic (corrosion) scaris were perior	med on fandom areas of the tank boltom, shen and root.					
c	OMPONENT INFORMATION					
Material: 🖾 C.S. 🗍 S.S. 🗍 Al. 🗂 Babbitt	Other: Dimensions; N/A Thickness:	N/A				
Component Type: 🛛 Plate 🗌 Bar 📋 Pipe [Tube Forging Extrusion Billet Other:					
Contact 🛛 Pulse Echo	Anima Technicol	in.				
Immersion Thru-Transmission		In,				
EQUIPMENT						
Scope Manufacturer: Panametrics	Back Wall Technique Ref. Signal Amp.: N/A					
Model: Epoch LT S/N: 0701490	04 Calibration Standard Type: Step Wedge					
Transducer Manufacturer: Krautkramer	Calibration Standard Material: Carbon Steel					
Model: Gamma S/N: 009YW						
Freq.: 5 MHz Size: .5" x .5" Angle	a: 0° Reflector Size(s): N/A					
Transducer Manufacturer: N/A Model: N/A S/N: N/A	Reflector Depth(s): .100" to .500" DAC Settings: N/A					
	N/A Reference Level: N/A Attenuation Correction:	N/A				
Couplant: Cellulose Gell Batch No						
		_				
	EXAMINATION RESULTS					
Remarks	Sketch / Drawing					
Corrosion data is shown on the tank dra						
discussed in the summary portion of th	a report					
Allowed and a second						
	n Morton ASNT UT Level: // Date: 0	7.15.04				
Inspector: Joh	n MortonASNT UT Level: // Date:0	7-15-09				

