Supporting Documents for Radiological Sciences Institute

TA-48, MRSC: Modern Radiological Science Complex (TA-48) Data Request.

Attachment 1, MRSC: Appendix D Buildings Slated to be Vacated.

Attachment 2, MRSC: Proposed Radiological Science Complex (Powerpoint Presentation, printed slides).

Attachment 4, MRSC: Environmental Mitigation Requirements for Preferred Alternatives.

Attachment 12, MRSC: Memorandum: Radiation Protection Services – HSR-12/05-41.

Attachment 13, MRSC: D&D Cost Estimates for Radiological Science Complex.

Attachment 15, MRSC: Existing Facility Background Information – MRSC Project Facilities to be Vacated are Included.

Attachment 16, MRSC: TA-48 Master Plan 2011 (Map).

Attachment 17, MRSC: LA-UR-00-2338, 1999 Radioactive Materials Usage Survey for Point Sources (S. Terp, author).

Attachment 18, MRSC: 3.4 Location of Release Point, MRSC Existing Facilities Data.

Attachment 21, MRSC: C and MST Division Waste Volume Forecast.

Attachment 29, MRSC: Radiological Consolidation Project Conceptual Estimate (+ or – 30%).

Attachment 32, MRSC: Compliance Summary.

Attachment 33, MRSC: Chemical Compound Information Sheets.

Attachment 35, MRSC: Distances from the Centroid Located at Modern Radiological Science Complex/TA-48 (map).

Attachment 36, MRSC: Chemical/CAS Number Data Sheet.

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Data Requirement	*Attachment #*	*Data and/or Notes*
1. DESCRIPTION OF NEW FACILITY	PR-ID number: 04P-0042	THIS PROJECT IS IN THE PRECONCEPTUAL STAGE – ONLY ROUGH DATA AND CONCEPT HAVE BEEN DEVELOPED. INFORMATION IS NOT FINAL AND SUBJECT TO CHANGE. For the purposes of predicting impacts to the environment based on this project proposal, this project is assumed to maintain operations within the limits and requirements stated for similar operations and associated buildings in the 1999 SWEIS and SWEIS Yearbooks that follow. For N Division operations, a general concept should be considered: 1) existing (authorized) operations to move into new construction include most of TA-18 (less 5 critical experiment machines housed in some of the buildings on the "buildings to be vacated" list) and TA35 bldgs 2 & 27, and 2) N division uses primarily sealed sources & does no processing or alterations of the radioactive material.
1.1 Attach copy of any environmental checklist or Project Report IDs for the MRSC	LA-CP-05-0064 =Attach. 1, EBP=Attach. 2	No assigned numbers – Preliminary Business Plan (LA-CP-05-0064), EB Presentation (EBP), Proposal for "Los Alamos Integrated Radiological Facility"
1.2 Description of new construction (e.g., floors, walls, support beams, roof, etc)	LA-CP-05-0064 Att. 1	Reference "Preliminary Business Plan, Appendix A Building Cost Estimates" pg 20-49
1.3 Plot plan, building floor plan and equipment arrangement	EBP Att. 2, Site Plan Att. 16	Reference "Proposed Radiological Science Complex" presentation for EB, May 2005
1.4 Building area required (sq ft)	LA-CP-05-0064 Att. 1	630,000 gross square feet replacement and consolidation of deteriorating existing buildings. Reference TA-48 Site Plan from SMMO

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1.5 Areas of the buildings dedicated to waste processing and storage	Reference 1999 SWEIS & SWEIS Yearbooks, Ref. 20 and 23	Not yet determined, although it will not exceed the area of space dedicated to waste processing and storage of existing facilities to be D,D&Dd.
1.6 Current land use(s)	CSP- Ref. 3	Nuclear Materials R&D, CSP2000 – LA-UR 99-6704
1.7 Land use designation after project construction	CSP-Ref. 3	No Change
1.8 TA-48 surveys results for the presence of any threatened, endangered, or other special status species	TA-48 EID Att. 4	"There are no threatened or endangered species in the TA-48 area". Reference TA-48 EID, Appendix A.5, pg 62
1.9 Will consultation with the state and USFWS be required on new construction within TA-48? Consultation would result in a list of species that should be considered when addressing impacts. If consultation is not conducted, please provide a list of such species and their status within TA-48.	HMP- Ref. 5 LA-UR-00-4747	Yes. LANL's T&E Species Habitat Management Plan identifies the requirement of consultation for any project that exceeds 5 acres. See attached CD
1.10 Data on wetland occurrence within TA-48 (location map, size, type, origin, effects of Cerro Grande Fire).	Att. 6 Map, Att. 4	Deleted
1.11 What impact did the Cerro Grande Fire have on biological resources within TA-48?	TA-48 EID-Att.4	"Biological resources concerns are not very extensive".Reference TA-48 EID, Appendix A.5, pg. 62
1.12 The 2000 Environmental Surveillance Report (LA 13979-ENV, page 25) mentions a TA-48 wetland improvement permit. Is there information on this improvement?	LA 13979 addendum Att. 32	ENV-WQH – Bob Beers 7-7969 called 5/16/05 voice mail. Dates in the table is wrong – September 9, 1999 issue date, and expiration date is September 9 2001. See attached correction.
1.13 Information on any cultural resources identified on TA-48 since the publication of the TA-18 EIS (i.e., 2002)	TA-48 EID-Att.4	Reference TA-48 EID, Appendix A.5, pg.63
1.14 Can any general information be divulged relative to the nature of the two TA-48 cultural resource sites?	TA-48 EID-Att.4	"Of the buildings marked for demolition, building RC-1 is an historical building. There is also a pre-historic archeological site just south of the road across from building RC-1." Reference TA-48 EID, Appendix A.5, pg.63
1.15 Information on any Traditional Cultural Properties identified withinTA-48	TA-48 EID-Att.4	Reference TA-48 EID, Appendix A.5, pg.63
1.16 Information on any contaminated soils or water in the project area, and how they would be managed.	TA-48 EID-Att.4	Reference TA-48 EID, Appendix A.5, pg.59. "Problematic soil conditions are known to exist at the TA-48 site. A large potential release site encircles all of RC-1 and RC-45."

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1.17 Schedule (include design, construction, and operations)	LA-CP-05-0064 - Att. 1	Reference Preliminary Business Plan – "The business plan used a 30-year analysis period and assumed an initial 5-year planning period, with construction starting at year 6 and the last building being completed in year 20." This project is not incorporated on the TYCSP Line Item Project list at this time, so does not have a proposed start date.
2. CONSTRUCTION OF NEW FACILITY		
2.1 Sources of noise other than those normally associated with construction activities (for example, blasting). List, including number of events and duration	TA-48 EID Att. 4	Noise is associated with new construction at TA-48 and D,D&D of 61 structures along Pajarito Corridor. Noise created by consolidation at TA-48 is addressed in the TA-48 EID, Appendix A.5, pg 63: "Construction activities would generate increased, but temporary, noise. Operations would create less noise than construction, but would create higher background levels than current conditions. Traffic noise would increase with the higher worker population."
2.2 Total land disturbance area during construction (acres)	Map # 05-0057-1 Att. 6	Total disturbance is roughly 34.3 hectares (84.8 acres)
• Is land disturbance on previously disturbed land? (Include percentage on undisturbed land)	Map # 05-0057-1 Att. 6	78.5% occurs on undisturbed land (21.5% on previously disturbed land)
• Land area occupied when completed (acres)	Map # 05-0057-1 Att. 6	Land area occupied will not exceed the total land disturbance area: 34.3 hectares.
• Will dredge and fill permits be required?	N/A	*ENV-WQH Robin Reynolds document the site and forward to Army Corp of Engineers for determination one month prior to soil disturbing activities.*
2.3 Type of soil disturbance during construction (grading, digging, excavation for basements, etc.), and estimated excavated soil volume and disposal information	LA-CP-05-0064- Att. 1	Grading, digging for utilities and basements. Reference estimates in the Business Plan.

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2.4 Provide reference for erosion and stormwater protection during construction (stormwater pollution prevention plan for construction activities) (Required for all activities disturbing > 1 acre of land, cumulative)	Ref. 7 LANL ENG Standards – see website and LIR for more info.	*Contacted ENV-WQH Robin Reynolds, Terrell Lemke* EPA stormwater pollution prevention plan. Pre, interim, and post storm water runoff must meet requirements of the permit. LANL ENG standard manual, Civil Engineering Standards and LANL Construction Specifications. The Standards Homepage: http://engstandards.lanl.gov/ The Standards are mandatory documents that apply to all personnel performing engineering and construction services for LANL, both programmatic and facility -- including maintenance and modification of existing equipment and facilities and new facilities and equipment. [LIR 220-03-01]
2.5 Reference for Spill Control and Prevention during construction	Ref. 8: 40CFR112, Ref. 9: NMAC20.6.2 .1203	Contacted ENV-WQH Mark Haagenstad. SWPP Plan Spill Prevention Counterprevention Plans 40CFR112 (for above ground storage tanks or drums > 1320 total gal.) NM WQ Control Commission Regulations NMAC20.6.2.1203 for surface water pollution prevention plan.
2.6 Does the proposed site include any PRS or SWMUs?	Map # 05-0057-1 Att. 6	Yes. There are thirteen potential release sites at TA-48. Seven require characterization to define the contamination and its extent, and seriousness. Reference TA-48 EID, Appendix A.5 pg. 62 and map on pg 56.
Emissions during construction		
2.7 Annual nonradioactive air emissions (kg/yr). List by criteria pollutant and toxic chemicals	N/A	Contacted ENV-MAQ , Jackie Hurtle 5-4380 – this is not measured or estimated by LANL. If equipment is used, estimates can be generated through list of equipment, size, and fuel type, but this information has not been generated for the project in this preconceptual stage.

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2.8 Annual radioactive air emissions (Ci/yr). List by radionuclide and Type Note: The EPA Federal Guidance Report (FGR) 13 includes Type, the rate of absorption from the lungs to blood, for particulates using the classification scheme of fast, medium, or slow.	1999 SWEIS Ref. 20 and YB 23	Contact ENV-MAQ Sue Terp 5-8889 Through PRS data on reference map that is based on existing facilities and preconceptual estimates, might get some idea, but still too sketchy in the preconceptual phase of the project. At this point, use numbers for existing facilities that are available through the 1999 SWEIS.
Waste generated during construction – indicate disposal pathway	Reference SWEIS YB – Ref. 23	This is a contracted service – waste is not disposed of at LANL but at off-site waste repositories. The Los Alamos County Landfill serves as a holding area for transport to other waste disposal sites. Should a suspect disposal site be disclosed during subsurface construction work, LANL's Environmental Restoration (ER) Project staff would review the site and would identify procedures for working within that site area.
2.9 Low-level radioactive waste (designate solids and liquids) (m^3)	Reference SWEIS YB – Ref. 23 Ref. #11: DOE/EIS-0350	LANL NWIS-SWO, Gilbert Montoya, PoC, manages this type of waste prior to sending it off-site for final disposition at a future-determined facility. Waste from adjacent building demolition should be covered under the category of demolition, which is a contracted function. For reference purposes, can use comparison information from the DOE/EIS-0350 November 2003 for the CMRR project.
2.10 Mixed low-level radioactive waste (designate solids and liquids) (m^3)	Reference SWEIS YB – Ref. 23 Ref. #11: DOE/EIS-0350	LANL NWIS-SWO, Gilbert Montoya, PoC, manages this type of waste prior to sending it off-site for final disposition at a future-determined facility. Waste during construction should be minimal to non-existent for the new construction site because it is Greenfield. Waste from adjacent building demolition should be covered under the category of demolition, which is a contracted function. For reference purposes, can use comparison information from the DOE/EIS-0350 November 2003 for the CMRR project.

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2.11 Hazardous (designate solids and liquids) (m^3)	Reference SWEIS YB – Ref. 23 Ref. #11: DOE/EIS-0350	LANL NWIS-SWO, Gilbert Montoya, PoC, manages this type of waste prior to sending it off-site for final disposition at a future-determined facility. Waste during construction should be minimal to non-existent for the new construction site because it is Greenfield. Waste from adjacent building demolition should be covered under the category of demolition, which is a contracted function. For reference purposes, can use comparison information from the DOE/EIS-0350 November 2003 for the CMRR project.
2.12 Nonhazardous solids (m^3) • Concrete • Steel • Other • % expected to be recycled	Ref. #11: DOE/EIS-0350	For reference purposes, can use comparison information from the DOE/EIS-0350 November 2003 for the CMRR project.
2.13 Nonhazardous liquids (Sanitary and other) (m^3)	Ref. #11: DOE/EIS-0350	For reference purposes, can use comparison information from the DOE/EIS-0350 November 2003 for the CMRR project.
2.14 Other waste	Ref. #11: DOE/EIS-0350	For reference purposes, can use comparison information from the DOE/EIS-0350 November 2003 for the CMRR project.
Material/Resource Requirements During Construction		
2.15 Water usage, include volume (gal), source and capacity	Ref. #11: DOE/EIS-0350	Average water use for the construction of modern office and laboratory buildings is expected. No metering is available to determine actual or historical water use for this activity at LANL. Use standard guidelines for construction. For reference purposes, can use comparison information from the DOE/EIS-0350 November 2003 for the CMRR project.
2.16 Electricity (average use per day (KWhr), peak use (KW), total use (MWhr), include source and system capacities	Ref. #11: DOE/EIS-0350	Average electricity use for the construction of modern office and laboratory buildings is expected. No metering is available to determine actual or historical use for this activity at LANL. Use standard guidelines for construction.

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• Is local substation or transformer complex required to support facility construction? If yes, does it need to be constructed?	Att. 1	Not yet determined in the pre-conceptual stage. Reference estimates in Preliminary Business Plan
2.17 Gasoline (gal)	Ref. #11: DOE/EIS-0350	Not yet determined in the preconceptual stage but should follow standard practices for construction. Vehicles and heavy machinery use is expected to be used on site and could use gasoline. For reference purposes, can use comparison information from the DOE/EIS-0350 November 2003 for the CMRR project.
2.18 Diesel fuel (gal)	Ref. #11: DOE/EIS-0350	Not yet determined in the preconceptual stage but should follow standard practices for construction. Vehicles and heavy machinery use is expected to be used on site and could use diesel. For reference purposes, can use comparison information from the DOE/EIS-0350 November 2003 for the CMRR project.
2.19 Concrete (yd^3)	LA-CP-05-0064- Att. 1	Refer to Preliminary Business Plan estimates, pages 20-49.
• Is concrete batch plant to be constructed onsite to assist in facility construction?	N/A	Not yet determined in the preconceptual stage.
2.20 Steel (metric tons)	Att. 1	Refer to Preliminary Business Plan estimates, pages 20-49.
2.21 Crushed stone (cubic yds)	Att. 1	Refer to Preliminary Business Plan estimates, pages 20-49.
2.22 Asphalt (cubic yds)	Att. 1	Refer to Preliminary Business Plan estimates, pages 20-49.
2.23 **Labor (FTEs)** – peak construction workers, total, and time frame	N/A	This project is in a preconceptual stage and does not yet have this level of detail available.
Doses to involved workers during construction	Att. 12	Contacted HSR-12 Christine Bullock, 5-8133 per Brian Colby 5/18 – contacted her 5/20/05 with request. Will provide comparison data by 5/31 for existing facilities that were measured.
2.24 Average dose	Att. 12	Christine Bullock to provide data by 5/31
2.25 Maximum exposure (administrative limit)	Att. 12	Christine Bullock to provide data by 5/31
2.26 Number of badged radiation workers	Att. 12	Christine Bullock to provide data by 5/31

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3. BASELINE INFORMATION FOR FACILITIES THAT WILL BE DECONTAMINATED, DECOMMISSIONED AND DEMOLISHED	D&D Estimate SOW Att. 13, 5 Yr. D&D Plan, Att. 14	Reference criteria for developing D&D estimates and 5 Yr. Plan for institutional information that can be applied to this specific project based on comparisons.
3.1 Best available information indicates individual facilities/buildings that will be replaced by the MRSC are located in 6 TAs (TA-3, TA-35, TA-46, TA-18, TA-48, and TA-59). Please verify that this information is correct.	N/A	This is correct. Verified by list in Preliminary Business Plan, pgs 54-56.
3.2 List facilities for D,D&D (building name & number, associated program/project, and TA)	LA-CP-05-0064 Att. 1	Reference Preliminary Business Plan, pgs 54-56.
3.3 List number of employees by facility and TA that will be relocated to new facility	Att. 15 MOADS list	ID population from existing building list.
Radiological operations for existing facilities		
3.4 Airborne source terms (LANL to validate air emission data used for TA-48 and the hot cells at CMR in the SWEIS. Other source information to be provided by the operating group.)	Att. 17	ENV-MAQ – Met w/ Sue Terp on 5/20 – gave her existing building list for review 5/18. Reference attachments from LA-UR-00-2338, LA-UR-02-2524, LA-UR-03-2793.
• Annual curie release by radionuclide	Att. 17	ENV-MAQ – Met w/ Sue Terp on 5/20 – gave her existing building list for review 5/18. Reference attachments from LA-UR-00-2338, LA-UR-02-2524, LA-UR-03-2793.
• Location of release point (latitude, longitude)	Attachment from ENV-MAQ – Att. 18	ENV-MAQ – Provided Keith Jacobson with building list – info received 5/23 – attached.
3.5 Doses to involved workers (by facility)	Att. 12	Christine Bullock 5-8133, HSR-12, left voicemail 5/20/05 - provided comparison data from existing facilities 5/31.
• Average dose	Att. 12	Christine Bullock 5-8133, HSR-12, left voicemail 5/20/05 - provided comparison data from existing facilities 5/31.
• Maximum exposure (administrative limit)	Att. 12	Christine Bullock 5-8133, HSR-12, left voicemail 5/20/05 - provided comparison data from existing facilities 5/31.
• Number of badged radiation workers	Att. 12	Christine Bullock 5-8133, HSR-12, left voicemail 5/20/05 - provided comparison data from existing facilities 5/31.

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Air quality (current facility emission data from meteorology and air quality group)	Ref. 31 website	Contacted ENV-MAQ – Jackie Hurtle LANL captures facility emission data for a limited set of specific facilities to meet requirements. Data is not available for each facility on the existing facility list. A report is available on line for public dissemination of emissions data: http://www.airquality.lanl.gov/AirRep orts.html#NMED emissions inventory. Reference pg. 30 for selected facilities only.
3.6 Emissions data for nonradioactive air pollutants (criteria pollutants and toxics)	Ref. 31 website	Contact ENV-MAQ – Jackie Hurtle see note above
3.7 Emission rates (peak short-term and annual average)	Ref. 31 website	Contact ENV-MAQ -Jackie Hurtle- see note above
3.8 Emission release parameters	Ref. 31	Contact ENV-MAQ – Jackie Hurtle – parameters based on data collected by LANL on specific buildings. Need to make comparisons to like buildings, or existing buildings that will be replaced by this project that have data available.
• For air releases – stack designation, stack height, stack diameter, stack exhaust velocity or flow rate, or area source in square meters Note: Stack parameters at TA-48 and the hot cells at CMR are known. Other source parameters need to be provided.	Att. 18	Contacted ENV-MAQ – Keith Jacobson received building list on 5/18 and will follow-up on 5/20. See attachment – reference 3.4 attachment on release points.
• For fugitive releases – release location and dimensions (including height) of vents or louvers from which release occurs	N/A	Contacted ENV-MAQ. This information is not available or collected.
• Emissions from emergency generators, boilers, etc also need to be specified	Att. 17	Contacted ENV-MAQ 5/18 – Jackie Hurtle will provide chemical code list to reference with emissions inventory report (see website above).
Material/Resource Use for operation of existing facilities		
3.9 Annual water usage (list source and use by facility) (gal/yr)	Ref. 20	Reference 1999 SWEIS for existing facilities. No data available for use by facility due to no metering.
3.10 Identify any large water usage (e.g. cooling towers)	Ref. 1999 SWEIS 20, YB 23	Large water use expected for cooling tower at 48-1, and 3-66. This water use would remain the same for operations at the new facility.

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3.11 Electricity (list by facility if available) (average use per day (KWhr), peak use (KW), total use (MWhr))	1999 SWEIS Ref. 20, DOE/EIS-0350 Ref. 11	Metering of electricity by facility is not available. Assume electricity use will not exceed the amount identified in the 1999 SWEIS for the existing buildings that will be replaced. May also refer to attached exerpt from the DOE/EIS-0350, November 2003 for the CMRR project.
3.12 Gasoline (gal/yr)	DOE/EIS-0350 Ref. 11	May refer to attached exerpt from the DOE/EIS-0350, November 2003 for the CMRR project for comparison information.
3.13 Diesel fuel (gal/yr)	DOE/EIS-0350 Ref. 11	May refer to attached exerpt from the DOE/EIS-0350, November 2003 for the CMRR project for comparison information.
3.14 Other materials and consumables to support operation. (List and provide quantities/yr)	DOE/EIS-0350 Ref. 11	May refer to the DOE/EIS-0350, November 2003 for the CMRR project for comparison information.
3.15 **Labor (FTEs)** – Provide information by facility on number of employees	MOADS list: Att. 15	Obtain from STRS- Mary Jo Keys
Waste generated during operations by facility/building. If not available, please indicate which program/projects listed in the Waste Volume Forecast (LA-UR-03-4009), June 2003) will be affected by the D&D activities, including which TA and building currently houses the program/project.	LA-CP-05-0064- Att. 1	The "existing buildings to be vacated" list is the best source of information regarding the identification of TA's and buildings that house the programs/projects relevant to the MRSC proposed project.
3.16 Transuranic radioactive waste (solids and liquids in m^3 and kg per year)	Waste Volume Forecast (LA-UR-03-4009), LA-CP-05-0064-Att. 1	Less than 1 cubic meter expected for C Division, 0 for MST Division per Bryan Carlson, C-DO. Check with LA-UR-03-4009.
3.17 Low-level radioactive waste (solids and liquids in m^3 and kg per year)	Waste Volume Forecast (LA-UR-03-4009), LA-CP-05-0064-Att. 1	120 cubic meters/yr total for C and MST Divisions per Bryan Carlson, C-DO. Per Jim Sprinkle, N Division produces some waste from facilities at TA-35 and TA-18 – check LA-UR-03-4009 for more details.

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3.18 Mixed low-level radioactive waste (solids and liquids in m^3 and kg per year)	Waste Volume Forecast (LA-UR-03-4009), LA-CP-05-0064-Att. 1, DOE/EIS-0350 Ref. 11	LANL NWIS-SWO, Gilbert Montoya, PoC, manages this type of waste prior to sending it off-site for final disposition at a future-determined facility. Waste during construction should be minimal to non-existent for the new construction site because it is Greenfield. Waste from adjacent building demolition should be covered under the category of demolition, which is a contracted function. For reference purposes, can use comparison information from the DOE/EIS-0350 November 2003 for the CMRR project.
3.19 Hazardous per year (solids and liquids in m^3 and kg per year)	Waste Volume Forecast (LA-UR-03-4009), LA-CP-05-0064-Att. 1, DOE/EIS-0350 Ref. 11	LANL NWIS-SWO, Gilbert Montoya, PoC, manages this type of waste prior to sending it off-site for final disposition at a future-determined facility. Waste during construction should be minimal to non-existent for the new construction site because it is Greenfield. Waste from adjacent building demolition should be covered under the category of demolition, which is a contracted function. For reference purposes, can use comparison information from the DOE/EIS-0350 November 2003 for the CMRR project.
3.20 Nonhazardous solids (metric tons/yr); include % expected to be recycled.	Waste Volume Forecast (LA-UR-03-4009), LA-CP-05-0064-Att. 1, DOE/EIS-0350 Ref. 11	For reference purposes, can use comparison information from the DOE/EIS-0350 November 2003 for the CMRR project.
3.21 Nonhazardous liquids per year (Sanitary and other in m^3/yr)	Waste Volume Forecast (LA-UR-03-4009), LA-CP-05-0064-Att. 1, DOE/EIS-0350 Ref. 11, 1999 SWEIS Ref. 20	For reference purposes, can use comparison information from the DOE/EIS-0350 November 2003 for the CMRR project. Another source would be the 1999 SWEIS.

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3.22 For the facilities being replaced by the MRSC, list by TA which of the following categories of liquid wastes will be eliminated (include volumes): • Sanitary (gal/yr) • NPDES outfalls (list name/number, location) • Radioactive liquids (volume and characteristics) • Other	LA-CP-05-0064- Att. 1	Assume that wastes for facilities to be vacated will be reduced (reference "buildings to be vacated" list), while increased at TA-48 to accommodate the reductions at the sites where buildings will be vacated.
3.23 All sanitary liquid waste is assumed to go to the SWSC, if there are exceptions, please provide information on source, volume and treatment.	N/A	*Assumption correct.*
4. DECONTAMINATION, DECOMMISSIONING AND DEMOLITION OF EXISTING FACILITIES	Att. 15	Excel Spreadsheet from MOADS
4.1 List facilities for D,D&D (building name & number, associated program/project, and TA) D,D&D of TA-18 facilities/buildings that will be replaced by the MRSC are not part of the MRSC project.	LA-CP-05-0064 – Att. 1	Reference Preliminary Business Plan, list of permanent buildings to be vacated, pgs 54-56. Others can be salvaged or re-assigned.
• Area for each facility (ft^2)	Att. 15	Excel Spreadsheet from MOADS
• Type construction	Att. 15	Excel Spreadsheet from MOADS
4.2 Description of sequence and schedule	LA-CP-05-0064- Att. 1	Refer to Preliminary Business Plan for possible schedule. No schedule yet identified during the project proposal process or TYCSP.
Emissions during D,D&D	N/A	Not yet determined in this preconceptual stage. This information is based on a case-by-case analysis later in the process.
4.3 Annual nonradioactive air emissions (kg/yr). List by criteria pollutant and toxic chemicals.	N/A	ENV-MAQ does not estimate this unless a list of specific equipment being used is available. Because this is a preconceptual proposal, this level of detail does not exist.
4.4 Annual radioactive air emissions (Ci/yr). List by radionuclide, Type and source. Note: FGR 13 includes Type, the rate of absorption from the lungs to blood, for particulates using the classification scheme of fast, medium, or slow.	N/A	ENV-MAQ – must have an inventory of contamination in the buildings being disturbed. This information is not available until after a LANL contract is let and the contractor develops the information, which is well into the construction phase of the project. This level of detail has not been developed in this preconceptual proposal stage.
4.5 Annual nonradioactive effluents via water pathway (kg/yr). List chemical constituents and identify disposal pathway.	N/A	This level of detail has not been developed in this preconceptual proposal stage.
4.6 Annual radioactive effluents via water pathway (Ci/yr). List by radionuclide.	N/A	This level of detail has not been developed in this preconceptual proposal stage.

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Material/Resource Use for D,D&D of existing facilities	D&D SOW Att. 13, 5YP Att. 14	An estimate for D&D with general rules of thumb is provided. Also refer to the D&D 5 year plan.
4.7 Water usage (gal/yr)	DOE/EIS-0350 Ref. 11	This information is not available until after a LANL contract is let and the contractor develops the information on a project-specific basis, which is well into the construction phase of the project. This level of detail has not been developed in this preconceptual proposal stage. For reference purposes, can use comparison information from the DOE/EIS-0350 November 2003 for the CMRR project.
4.8 Electricity (average use per day (KWhr), peak use (KW), total use (MWhr))	DOE/EIS-0350 Ref. 11	This information is not available until after a LANL contract is let and the contractor develops the information, which is well into the construction phase of the project. This level of detail has not been developed in this preconceptual proposal stage. For reference purposes, can use comparison information from the DOE/EIS-0350 November 2003 for the CMRR project.
4.9 Gasoline (gal/yr)	DOE/EIS-0350 Ref. 11	This information is not available until after a LANL contract is let and the contractor develops the information, which is well into the construction phase of the project. This level of detail has not been developed in this preconceptual proposal stage. For reference purposes, can use comparison information from the DOE/EIS-0350 November 2003 for the CMRR project.
4.10 Diesel fuel (gal/yr)	DOE/EIS-0350 Ref. 11	This information is not available until after a LANL contract is let and the contractor develops the information, which is well into the construction phase of the project. This level of detail has not been developed in this preconceptual proposal stage.

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4.11 Other materials and consumables to support D,D&D. (List and provide quantities/yr)	DOE/EIS-0350 Ref. 11	This information is not available until after a LANL contract is let and the contractor develops the information, which is well into the construction phase of the project. This level of detail has not been developed in this preconceptual proposal stage.
4.12 **Labor (FTEs)** – Provide information on peak and total number of employees for D,D&D of existing facilities	Att. 13, Att. 14	This information is not available until after a LANL contract is let and the contractor develops the information, which is well into the construction phase of the project. This level of detail has not been developed in this preconceptual proposal stage.
Waste generated during D,D&D	DOE/EA-1407 Ref: 22. SWEIS YB Ref 23	Contracted services expected – buildings not yet characterized. Reference comparison projects like the CMRR project, and the Proposed TA-18 Engineering Complex Refurbishment and Consolidation, DOE/EA-1407to derive institutional standard numbers to develop assumptions
4.13 Transuranic radioactive waste (solids and liquids in m^3 and kg per year)	DOE/EIS-0350 Ref. 11, SWEIS YB Ref. 23	Unknown at this preliminary, preconceptual stage. See note above to develop assumptions. Also refer to general information for existing facilities waste generation in section 2.9 - 2.14 to generate assumptions based on existing information.
4.14 Low-level radioactive waste (solids and liquids in m^3 and kg per year)	DOE/EIS-0350 Ref. 11, SWEIS YB Ref. 23	Unknown at this preliminary, preconceptual stage. See note above to develop assumptions. Also refer to general information for existing facilities waste generation in section 2.9 - 2.14 to generate assumptions based on existing information.
4.15 Mixed low-level radioactive waste (solids and liquids in m^3 and kg per year)	DOE/EIS-0350 Ref. 11, SWEIS YB Ref. 23	Unknown at this preliminary, preconceptual stage. See note above to develop assumptions. Also refer to general information for existing facilities waste generation in section 2.9 - 2.14 to generate assumptions based on existing information.

4.16 Hazardous waste (solids and liquids in m^3 and kg per year)	DOE/EIS-0350 Ref. 11, SWEIS YB Ref. 23	Unknown at this preliminary, preconceptual stage. See note above to develop assumptions. Also refer to general information for existing facilities waste generation in section 2.9 - 2.14 to generate assumptions based on existing information.
4.17 Nonhazardous solids (metric tons/yr) • Concrete (m^3) • Steel (metric tons) • Other (m^3) • % expected to be recycled	DOE/EIS-0350 Ref. 11, SWEIS YB Ref. 23	Unknown at this preliminary, preconceptual stage. See note above to develop assumptions. Also refer to general information for existing facilities waste generation in section 2.9 - 2.14 to generate assumptions based on existing information.
4.18 Nonhazardous liquids per year (Sanitary and other in m^3/yr); identify disposal pathway (SWSC, NPDES, other)	DOE/EIS-0350 Ref. 11, SWEIS YB Ref. 23	Unknown at this preliminary, preconceptual stage. See note above to develop assumptions. Also refer to general information for existing facilities waste generation in section 2.9 - 2.14 to generate assumptions based on existing information.
4.19 **Doses to involved workers**	Att. 12	Unknown at this preliminary, preconceptual stage. However, can make assumptions based on existing facility data- reference sections 2.24-2.26, 3.5.
• Average dose	Att. 12	Unknown at this preliminary, preconceptual stage. However, can make assumptions based on existing facility data- reference sections 2.24-2.26, 3.5.
• Maximum exposure (administrative limit)	Att. 12	Unknown at this preliminary, preconceptual stage. However, can make assumptions based on existing facility data- reference sections 2.24-2.26, 3.5.
• Number of badged radiation workers	Att. 12	Unknown at this preliminary, preconceptual stage. However, can make assumptions based on existing facility data- reference sections 2.24-2.26, 3.5.
5. NEW FACILITY OPERATIONS		
Radiological operations for new facility	Att. 17, Att. 19	New facility operations are assumed to not exceed existing facilities operations and limits. Refer to sections 3.4 - 3.8
5.1 Airborne source terms	Att. 17, Att. 19	New facility operations are assumed to not exceed existing facilities operations and limits. Refer to sections 3.4 – 3.8

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• Annual curie release by radionuclide, Type and source of radionuclide Note: FGR 13 includes Type, the rate of absorption from the lungs to blood, for particulates using the classification scheme of fast, medium, or slow.	Att. 17, Att. 19	New facility operations are assumed to not exceed existing facilities operations and limits. Refer to sections 3.4 – 3.8
• Location of release point (latitude, longitude)	Att. 17, Att. 19	New facility operations are assumed to not exceed existing facilities operations and limits. Refer to sections 3.4 – 3.8
5.2 Radiological releases to liquid pathways (assumed to go to RLWTF in TA-50), include volume and annual curie release by radionuclide	N/A	Assumption is correct. Volumes not to exceed that of existing facilities
• Will waste meet current Waste Acceptance Criteria for RLWTF?	N/A	Assumption is yes. It will be designed that way.
5.3 Doses to involved workers (by facility)	Att. 12	Christine Bullock 5-8133, HSR-12, left voicemail 5/20/05 Unknown at this preliminary, preconceptual stage. However, can make assumptions based on existing facility data- reference sections 2.24-2.26, 3.5, 4.19.
• Average dose	Att. 12	Christine Bullock 5-8133, HSR-12, left voicemail 5/20/05
• Maximum exposure (administrative limit)	Att. 12	Christine Bullock 5-8133, HSR-12, left voicemail 5/20/05
• Number of badged radiation workers	Att. 12	Christine Bullock 5-8133, HSR-12, left voicemail 5/20/05
Air Quality during Operations – projections from processing group	Ref. 31 Website, Att. 17, Att. 18	ENV-MAQ does not capture data for all affected existing facilities and there is no design to estimate or project air quality data. Assume that AQ is equal to existing operations. Reference http://airquality.lanl.gov/Emissions/index.shtml for the information available for comparison purposes. Also reference information in sections 3.4 and 3.8 of this request.
5.4 Emissions data for nonradioactive air pollutants (criteria pollutants and toxics)	Ref. 31, Att. 17, Att. 18	ENV-MAQ does not capture data for all affected existing facilities and there is no design to estimate or project air quality data.
5.5 Emission rates (peak short-term and annual average)	Ref. 31, Att. 17, Att. 18	ENV-MAQ does not capture data for all affected existing facilities and there is no design to estimate or project air quality data.
5.6 Emission release parameters	Ref. 31, Att. 17, Att. 18	ENV-MAQ does not capture data for all affected existing facilities and there is no design to estimate or project air quality data. Ref. Sections 3.4, 3.8 of this request.

• For air releases – stack designation, stack height, stack diameter, stack exhaust velocity or flow rate, or area source in square meters	Ref. 31, Att. 17, Att. 18	ENV-MAQ does not capture data for all affected existing facilities and there is no design to estimate or project air quality data. Ref. Sections 3.4, 3.8 of this request.
• For fugitive releases - release location and dimensions (including height) of vents or louvers from which release would occur	Ref. 31, Att. 17, Att. 18	ENV-MAQ does not capture data for all affected existing facilities and there is no design to estimate or project air quality data. Ref. Sections 3.4, 3.8 of this request.
• Emissions from emergency generators, boilers, etc also need to be specified	Ref. 31, Att. 17, Att. 18	ENV-MAQ does not capture data for all affected existing facilities and there is no design to estimate or project air quality data. Ref. Sections 3.4, 3.8 of this request.
Water quality during Operations		
5.7 Identify any storage tanks added to site (number, volume (gal), and type of storage planned). Include features to prevent spills from tanks.	Ref. 20, 23.	This will be developed in later design stages of the project. Will not exceed existing number or volume.
5.8 Sanitary liquid waste volume (gal/yr) • Assumed new building will be tied into existing sanitary sewer system with treatment provided by SWSC. If not, provide information.	N/A	Assumption correct.
5.9 Surface water discharge • number and location of NPDES discharges and gallons/yr • too *preconceptual to determine at this time* • Source of water for discharge (e.g. blowdown water). *Too preconceptual to determine at this time.* • Will quality of water discharged be within current NPDES permit levels? *Will need to determine based on later assessment of needs and waste stream characterization.* • Will existing NPDES outfalls be used or a new NPDES outfall required? *Robin Reynolds: determine what needs of buildings are when designed, and waste streams id'd. Propose new NPDES permits. Might include use of existing outfalls which will be determined later in the design process.*	N/A	Input provided by ENV-WQH under questions in red italicized font.
5.10 Provide information on any other wastewater discharges	Ref. 23	Could verify with SWEIS YB data for existing buildings. Most likely will need to determine this at a later stage in the planning and design process that will include an assessment of needs and waste stream characterization.
5.11 Chemicals released in waste water effluents (List chemicals and quantity/yr)	N/A	None known for C & MST. All chemicals disposed of through RLW lines to TA-50 per Bryan Carlson, C-DO.

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5.12 Identify plans for managing stormwater pollution prevention and erosion.	N/A	Robin Reynolds: WQH involvement and assessment during the siting notification process – not yet to this stage in design. Retention basin to collect stormwater from the site is required underneath construction general permit. (NPDES General Construction Permit).
Material/Resource Requirements during Operations		
5.13 Annual water use (gal/yr). • It is assumed water will be provided through the existing water distribution system. Is there any other source of water (e.g. recycled water)? • Of this usage, estimate % that is 1) consumed, 2) recycled for reuse, 3) lost to evaporation or other emission, and 4) discharged as waste	Ref. 24	Assumption correct. Water will be provided through the existing water distribution system. No recycled water will be used. Water use is not measured by facility or program. Refer to institutional Pollution Prevention Roadmap document. Base on existing facilities to be vacated,which are tied to Divisions (organizations) vs. programs/projects. Reference information on http://p2.lanl.gov/Databases/waste_data.shtml to query per division and waste type.
5.14 Large water usage (e.g. cooling towers), identify use and volume	Ref. 20	Similar to usage for 48-1 and 3-66 cooling towers identified in the 1999 SWEIS.
5.15 Electricity (average use per day (KWhr), peak use (KW), total use (MWhr))	Ref. 11	Electricity use will not exceed the amount currently used and described for the facilities that will be replaced to perform the same activities.
• Is local substation or transformer complex required to support facility operational? If yes, does it exist?	Att. 1 and 29 - PM-DS Estimate and SOWs	Reference PM-DS estimate – transformer complex is not identified, but it might be too early to determine.
5.16 Gasoline (gal/yr.)	Ref. 11	May refer to attached exerpt from the DOE/EIS-0350, November 2003 for the CMRR project for comparison information.
5.17 Diesel fuel (gal/yr.)	Ref. 11	May refer to attached exerpt from the DOE/EIS-0350, November 2003 for the CMRR project for comparison information.
5.18 Other materials and consumables to support operation. (List and provide quantities/yr)	Ref. 11	May refer to attached exerpt from the DOE/EIS-0350, November 2003 for the CMRR project for comparison information.

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5.19 **Labor (FTEs)** – Include breakdown by staff coming from existing facilities and new employees. List by year.	Att. 15	MOADS Mary Jo Keys
Waste generated – If projected waste generation is only available by program/project in the Waste Volume Forecast (LA-UR-03-4009, June 2003), indicate which programs/projects would be incorporated into the MRSC.	Ref. 24	Base on existing facilities to be vacated which are tied to Divisions (organizations) vs. programs/projects. Reference information on http://p2.lanl.gov/Databases/waste_data.shtml to query per division and waste type.
5.20 Total volume of waste to be generated by operation of new facility (see below for break down by waste type)	LA-UR-03-4009, June 2003, Ref. 25	Base on existing facilities and requirements forecasted by LA-UR-03-4009, June 2003 for waste volume forecast.
5.21 Transuranic radioactive waste (m^3 and kg per year)	LA-UR-03-4009, June 2003, Ref. 25	Base on existing facilities and requirements forecasted by LA-UR-03-4009, June 2003 for waste volume forecast.
5.22 Low-level radioactive waste (m^3 and kg per year)	LA-UR-03-4009, June 2003, Ref. 25	Base on existing facilities and requirements forecasted by LA-UR-03-4009, June 2003 for waste volume forecast.
5.23 Mixed low-level radioactive waste (m^3 and kg per year)	LA-UR-03-4009, June 2003, Ref. 25	Base on existing facilities and requirements forecasted by LA-UR-03-4009, June 2003 for waste volume forecast.
5.24 Hazardous (m^3 and kg per year)	LA-UR-03-4009, June 2003, Ref. 25	Base on existing facilities and requirements forecasted by LA-UR-03-4009, June 2003 for waste volume forecast.
5.25 Nonhazardous solids (metric tons/yr), include % expected to be recycled	LA-UR-03-4009, June 2003, Ref. 25	Base on existing facilities and requirements forecasted by LA-UR-03-4009, June 2003 for waste volume forecast.
5.26 Nonhazardous liquids per year (Sanitary and other in m^3/yr)	LA-UR-03-4009, June 2003, Ref. 25, Ref. SWEIS YB 23	Base on existing facilities and requirements forecasted by LA-UR-03-4009, June 2003 for waste volume forecast and SWEIS Yearbook.
5.27 Liquid wastes; identify volume, characteristics, and planned disposal path or treatment facility • Sanitary (gal/yr) (assumed to go to SWSC) • NPDES outfalls (list name/number, location) • Radioactive liquids (volume and characteristics) • Other	Att. 21: Radioactive Waste volume forecast and existing RLW by building/TA for C/MST.	Sanitary will go to SWSC. NPDES outfalls (ref. ENV-WQH) Reference attachment from Bryan Carlson for radioactive liquids and waste volume forecasts

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5.28 A description is needed of how and where each waste type generated by the facility operations would be treated and stored. The treatment and storage capacities of the identified waste management facilities should be provided.	Ref. 23: SWEIS Yearbook	Reference the latest SWEIS Yearbook for general information.
5.29 **Seismic studies** – provide any seismic hazard analyses specific to TA-48	Ref. 27: LA13589-MS(1999) Ref. 28: Woodward Clyde-Seismic Hazards Eval. Of the LANL - CD	Reference LA-13589-MS (1999)"Structural Geology of the Northwestern Portion of Los Alamos National Laboratory, Rio Grande Rift, New Mexico: Implications for Seismic Surface Rupture Potential from TA-3 to TA-55. Doug Volkman, FM-UI, claims there is potentially a fault identified in the TA-48 area and could be tied into the Rendija Canyon fault. Per Jamie Gardner, EES-9, he identifies 3 main issues that should be considered: 1) presence or absence of faulting, 2) performance of a structure during an earthquake, 3) probabilistic ground motion. Stephanie Luscher, PoC ENG-DECS, made report on CD (massive, 3 volumes of several inches thick binders) Woodward-Clyde Report, 2-24-1995, copies available in the LANL Library – "Seismic Hazards Evaluation of the Los Alamos National Laboratory".
5.30 **Noise** – Identify any sources of noise other than those normally associated with an office building	Att. 1, Att. 4, 1999 SWEIS Ref. 20, SWEIS YB Ref. 23	This information would be available for existing facilities to be vacated (ref. List) that have data identified in the 1999 SWEIS or recent SWEIS Yearbook.
6. ACCIDENT ANALYSIS		
6.1 List the maximum total activity of each specific radioisotope that is expected to be in the entire facility.	1999 SWEIS Ref. 20, SWEIS YB Ref. 23	Request for information exceeds phase of project development. Assumption based on existing facility authorization basis documents (DOE should have, but might not be authorized for LANL to disclose for public information) Bryan Carlson input. Base assumptions on existing facility information in the 1999 SWEIS and SWEIS Yearbooks.

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6.2 List the chemical form (s) of each radioisotope in the facility (i.e., metal bars, metal powder, oxide, solution, pellets, etc.)	Att. 36 (Sigma Chemicals), Att. 33 (AB for Chemical Values), Att. 34 (website) 1999 SWEIS Ref. 20, SWEIS YB Ref. 23	*Request for information exceeds phase of project development. Assumption based on existing facility activities combined. Information provided by Rich Norman, 5/19/05:* The following link is the official PS-4 Hazard Categorization site for Chemicals. The attached Table values (taken from the website) for 100 meters are for most of the chemicals that will be in the facility. The calculation/paper number can be obtained from PS-4: http://ps.lanl.gov/ps4/chem_cat.shtml The next attached chemical list are those chemicals that have higher thresholds as evaluated for the Sigma Complex.
6.3 List the maximum allowable activity of each radioisotope in any one storage container, hot cell, room, experiment, vault, tank, pallet, drum, etc.	Att. 32 (Sigma Chemicals), Att. 33 (AB for Chemical Values), Att. 34 (website) 1999 SWEIS Ref. 20, SWEIS YB Ref. 23	Request for information exceeds phase of project development. Assumption based on existing facility activities combined.
6.4 Describe location and quantity of flammable material within areas of the facility including natural gas, propane, waste, flammable papers, clothing, lubricating oil, chemicals.	Att. 32 (Sigma Chemicals), Att. 33 (AB for Chemical Values), Att. 34 (website) Attachment 16, 1999 SWEIS Ref. 20, SWEIS YB Ref. 23	Request for information exceeds phase of project development. Requires MRSC team attention. General location information at TA-48 is available on the site map. Quantities of material should be based on information in the 1999 SWEIS and/or SWEIS Yearbooks
6.5 Describe location and quantity of explosive materials in each facility.	N/A	Assumed to be none.

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6.6 Provide height of exhaust stack used by HVAC system.	Base on existing facilities, Att. 18	Request for information exceeds phase of project development. Assumed to comply with NNSA/LANL design standards. Requires verification from MRSC team.
6.7 Describe number and type of filters used for all facility areas which contain radiological materials (e.g., two 4-inch thick HEPA filters in series)	1999 SWEIS Ref. 20, SWEIS YB Ref. 23	Request for information exceeds phase of project development. Assumed to comply with NNSA/LANL design standards. Requires verification from MRSC team. However, assumptions on numbers can be based on carrying out functions not to exceed operations identified in the 1999 SWEIS or most recent SWEIS Yearbook.
6.8 Provide facility structure design basis in terms of PC seismic events (Is it designed to maintain its structural integrity for a PC-2 or PC-3 seismic event)	Ref. 28, Ref. 7	Request for information exceeds phase of project development. Assumed to comply with NNSA/LANL design standards. Might be able to identify standards from Seismic Hazards Evaluation of LANL (2/24/95)
.9 Describe all design mitigating features for precluding or ameliorating radiological releases to the environment (e.g., maintain negative pressure, airtight confinement, secondary containment, etc.)	Ref. 7	Request for information exceeds phase of project development. Assumed to comply with NNSA/LANL design standards/ LANL Engineering Standards Manual. See previous sections for web address.
6.10 What is the expected maximum level of surface contamination and with which radioisotopes for any gloveboxes used in handling these radioisotopes	Ref. 7	Request for information exceeds phase of project development. Assumed to comply with NNSA/LANL design standards/ LANL Engineering Standards Manual. See previous sections for web address.

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6.11 List the chemicals and their maximum quantity are which expected to be stored at the facility, where in the facility and how the chemicals are to be stored (e.g., tank, pressurized gas, outside, inside, underground, etc.)	Ref. 30, website	The following link is the official PS-4 Hazard Categorization site for Chemicals. The attached Table values (taken from the website) for 100 meters are for most of the chemicals that will be in the facility. The calculation/paper number can be obtained from PS-4: http://ps.lanl.gov/ps4/chem_cat.shtml The next attached chemical list are those chemicals that have higher thresholds as evaluated for the Sigma Complex. For detailed chemical information, "chemlog" website offers information by TA, Building, Room, Group, Division, etc.: *http://www.cm.lanl.gov/ex3/*
6.12 Provide the latitude and longitude of the center point of the facility.	N/A	Coordinates for the center point: 35° 52' 0.6780" Latitude , 106° 18' 40.6440" Longitude
6.13 Provide the nearest distance to a public boundary for all 16 compass directions from the center point of the facility.	Att. 35 : Map 05-0057-02	Map developed with distances for 16 compass directions. Closest distance to a public boundary is 3087 feet.
6.14 Provide the relative distance between storage locations for each individual chemical.	Ref. 7, Ref. 31	This will be developed in later design phases of the project. A schedule for these design phases have not yet been determined. In addition to following LANL Engineering Standards, will comply with applicable Life Safety Code Standards and OSHA.
6.15 Provide the facility outside dimensions above ground level of length, width, and height.	Attachment 16: pre-conceptual Site Map	Preconceptual Site Plan provided for reference. This will be developed in more detail in later design phases of the project. A schedule for these design phases have not yet been determined.

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6.16 List the total number of workers at the facility and, if they are to be relocated from other areas, what TA's they will be moved from to staff this new facility.	Att LA-CP-05-0064 1, MOADS information for buildings to be vacated: Att. 15.	Reference Business Plan and STRS/ MOADS population information for buildings that will be vacated. Mary Jo Keys to obtain population information.

Appendix D Buildings Slated to be Vacated

Facility	Type	Building Lifetime (years)	% of space to rad. complex	sqft (ext gross)	sqft (ext gross) to rad complex	Year Built	Occupiable sqft	Occupiable sqft to rad complex
46-24	permanent	31	50%	24,160	12080	1958	17,035	8517.5
46-31	permanent	31	25%	25,534	6383.5	1958	20,034	5008.5
46-158	permanent	31	15%	5,854	878.1	1981	4,307	646.05
46-200	permanent	31	50%	3,509	1754.5	1986	2,382	1191
46-250	permanent	31	100%	4,244	4244	1992	2,875	2875
48-1	permanent	31	100%	105,836	105836	1957	50,703	50703
48-8	permanent	31	100%	4,061	4061	1966	3,738	3738
48-17	permanent	31	100%	1,570	1570	1979	1,319	1319
48-26	permanent	36	100%	293	293	1980	254	254
48-27	transportable	16	100%	288	288	1981	253	253
48-29	transportable	16	100%	3,360	3360	1982	2,627	2627
48-33	transportable	16	100%	288	288	1985	253	253
48-34	transportable	16	100%	3,382	3382	1984	2,678	2678
48-46	transportable	16	100%	1,695	1695	1985	1,448	1448
48-47	transportable	16	100%	1,695	1695	1985	1,237	1237
48-149	trailer	16	100%	727	727	1985	509	509
48-154	trailer	16	100%	1,454	1454	1988	998	998
48-208	transportable	16	100%	2,514	2514	1988	2,268	2268
48-214	transportable	16	100%	1,431	1431	2003	944	944
59-1	permanent	31	25%	53,901	13475.25	1967	31,499	7874.75
Sub-total					167409.35		147,361	95,342
3-29	permanent	31	7%	566,849	42,380	1953	204,383	14,920
3-35	permanent	31	100%	15,713	15713	1954	6,532	6532
3-169	permanent	40	100%	6,252	6252	1964	6,066	6066

Attachment 1 MRSC

Facility	Type	Building Lifetime (years)	% of space to rad. complex	sqft (ext gross)	sqft (ext gross) to rad complex	Year Built	Occupiable sqft	Occupiable sqft to rad complex
3-66	permanent	31	100%	191,489	191489	1959	118,735	118735
3-451	permanent	31	100%	1,666	1666	1982	1,303	1303
3-1524	trailer	16	100%	711	711	1979	642	642
3-1525	trailer	16	100%	711	711	1979	642	642
Sub-total					216542		133,920	133,920
35-2	permanent	31	100%	83,734	83734	1951	50,741	50741
35-27	permanent	36	100%	42,069	42069	1957	21,636	21636
35-115	permanent	40	100%	137	137	1976	129	129
35-239	trailer	16	100%	588	588	1979	546	546
35-253	transportable	16	100%	1,440	1440	1979	1,068	1068
35-261	trailer	16	100%	720	720	1985	672	672
35-262	trailer	16	100%	720	720	1985	672	672
35-263	trailer	16	100%	720	720	1985	672	672
35-347	permanent	40	100%	314	314	1978	296	296
35-382	trailer	16	100%	732	732	1990	679	679
18-1	permanent	40	100%	1,051	1051	1944	807	807
18-28	permanent	40	100%	4,782	4782	1948	4,695	4695
18-30	permanent	36	100%	23,137	23137	1953	16,272	16272
18-129	permanent	31	100%	6,570	6570	1962	5,846	5846
18-141	permanent	31	100%	963	963	1966	0	0
18-147	permanent	36	100%	1,298	1298	1968	939	939
18-227	permanent	31	100%	2,838	2838	1990	2,319	2319
18-256	other	40	100%	920	920	1989	890	890
18-257	other	16	100%	1,440	1440	1990	1,178	1178
18-258	other	16	100%	1,440	1440	1989	1,273	1273
18-288	trailer	$16	100%	840	$840	1985	743	743

Facility	Type	Building Lifetime (years)	% of space to rad. complex	sqft (ext gross)	sqft (ext gross) to rad complex	Year Built	Occupiable sqft	Occupiable sqft to rad complex
18-297	permanent	40	100%	874	874	1997	840	840
18-300	trailer	16	100%	1,662	1662	2001	1,297	1297
18-301	trailer	16	100%	1,110	1110	2001	631	631
Sub-total					180099		114,841	114841
3-102	permanent	31	100%	29,365	29365	1957	22,735	22735
Total					**634,795**			**381,759**

ASSEMBLY NUMBER	DESCRIPTION	QTY	UNIT
1.0	**Sitework/Utilities**		
12.1-402	BACK FILL	1778	CUYD
110-1820	EXCAVATION	555	LINFT
	EXCAVATION (BASEMENT)	130	CUYD
1.1-210-3000	C.I.P. WALL (RETAINING)	220	LF
12.3-110-1330	TRENCHING-WATER LINE	30	LF
12.3-210-1440	PIPE BEDDING-WATER LINE		
12.3-9222700	FIRE HYDRANT	1	EA
15107-3050	6" PIPE	30	LF
02220-1750	SAW CUT AND PAVEMENT REMOVAL	150	SQYD
12..3-110-1330	TRENCHING-GAS LINE	200	LF
12.3-210-1440	PIPE BEDDING-GAS LINE	200	LF
15108-7790	2" PE PIPE	200	
12.7-120-2120	ASPHALT PATCHING	150	
12.3-110-1330	TRENCHING-SANITARY SEWER	40	LF
12.3-210-1440	PIPE BEDDING-SANITARY SEWER	40	LF
15107-3050	6" PIPE	40	
13.3-110-1330	TRENCHING-ELECTRICAL	100	LF
12.3-210-1440	PIPE BEDDING-ELECTRICAL	100	LF
02500-7680	ELECTRICAL CONDUIT	100	LF
02500-7830	ELECTRICAL DUCT BANK	14.8	CU/YD
13 3-110-1330	TRENCHING TELECOMM	75	LF
1 10-1440	PIPE BEDDING TELECOMM	75	LF
02500-7680	TELECOMM CONDUIT	75	LF
12.3-110-4500	TRENCHING-RAD. LIQUID WASTE	50	LF
12.2-210-1440	PIPE BEDDING-RAD. LIQUID WASTE	50	LF
15100-4370	6" DOUBLE CONTAINMENT PIPE	50	LF
2.0	**Substructure**		
2.1-2004560	SLAB ON GRADE	3500	SQFT
2.1-2004560	SLAB ON GRADE (BASEMENT)	3500	SQFT
03310-6800	STAIRS - CONCRETE CAST ON GROUND	654	SQFT
2.1-200-4480	EXHAUST FAN PAD	128	SQFT
2.1-200-4480	CONDENSER PAD	80	SQFT
2.1-200-4480	TRANSFORMER PAD	80	
12.7-610-2500	CONCRETE CURBS	600	LF
2.1-200-4480	CONCRETE SIDEWALK	1800	SQFT
12.5-110-1800	ROAD WAY PAVMENT	400	LF
12.3-510-5850	CULVERT	60	LF
3.0	**Superstructure**		
4.0	**Exterior Closure**		
4.1-213-6390	SPLIT FACED BLOCK	3450	SQFT
048 -0300	BLOCK HIGH STRENGTH (BASEMENT)	3450	SQFT
4.6 -3450	EXTERIOR DOORS	4	EA
4.6-100-3450	INTERIOR DOORS	10	EA
4.6-100-3450	INTERIOR DOORS (BASEMENT)	6	EA
4.7-110-5750	WINDOWS	6	EA
5.0	**Roofing**		

ASSEMBLY NUMBER	DESCRIPTION	QTY	UNIT
05210-07020	ROOF JOISTS	800	LF
03410-0010	ROOF SLAB	3000	SQFT
5 20-2000	SINGLE PLY MEMBRANE	3000	SQFT
5.7-101-1840	ROOF INSULATION	3000	SQFT
05310-0700	ROOF DECK	3000	SQFT
5.8-500-	DOWN-SPOUT	96	LF
6.0	**Interior Construction**		
6.10510-6250	DRYWALL PARTIONS-METAL STUDS	4000	SQFT
6.10510-6250	DRYWALL PART.-METAL STUDS (BSMT)	650	SQFT
6.6-100-1720	CERAMIC TILE	1200	SQFT
6.1-870-1040	TOILET PARTITIONS	3	EA
6.1-870-1140	ENTRANCE SCREENS	2	EA
6.5-100-0080	PAINT AND COVERING	4000	SQFT
6.6-100-0260	FLOORING COMPOSITION	3000	SQFT
6.7-100-6000	CEILING ACCOUSTICAL	3000	SQFT
7.0	**Conveying**		
8.0	**Mechanical System**		
15107-1180	PIPING HW	100	LF
	PIPING CW	150	LF
	PIPING DI SYSTEM	1	EA
02530-2000	PIPING WASTE AND VENT	150	LF
	MISC VALVES, FITTINGS	1	EA
1 -6080	WATER HEATERS	1	EA
15418-6210	LAVATORY	2	EA
15418-6650	SERVICE SINK	1	EA
	EMERGENCY SHOWERS	5	EA
	EYEWASH	4	EA
15411-3100	URINAL	1	EA
15418-3380	WATER CLOSET	2	EA
15830-7120	BATHROOM EXHAUST FAN	1	EA
	MISC DUCTWORK,CURB	1	EA
8.2-110-1540	FIRE PROTECTION	3000	SQFT
	HVAC UNIT	1	EA
	DDC CONTROLS	1	EA
	CONDENSING UNIT	1	EA
8.4-220-2640	HVAC DUCTWORK	3000	SQFT
15810-1060	EXHAUST STAINLESS STEEL DUCTWORK	10000	LB
	EXHAUST RESIN COATED FAN	2	EA
	EXHAUST STACK 16" DIA. X 30'	2	EA
9.0	**Electrical**		
16270-0500	SERVICE TRANSFORMER	1	EA
16440-0590	480V PANELBOARD	1	EA
16 2100	SECONDARY TRANSFORMER	1	EA
D5010-0440	FEEDER	75	LF
16510-0600	FLUORESCENT LIGHTING	40	EA
16140-2470	RECEPTACLES	40	EA
16140-2482	RECEPTACLES (GFCI)	12	EA

ASSEMBLY NUMBER	DESCRIPTION	QTY	UNIT
16140-2800	SWITCHES	12	EA
	MICS BREAKERS, CONDUIT, WIRING	1	EA
0-1000	LIGHTNING PROTECTION AIR TERMINAL	6	EA
13100-2500	LIGHTNING PROTECTION CABLE	150	LF
13100-2000	LIGHTNING PROTECTION GROUNDING	250	LF
10.0	**General Conditions**		
11.0	**Special Construction**		
	TELECOMM SYSTEM	1	EA
171-610-1800	OFFICE EQUIPMENT (est LANL cost per person)	5	EA
	ARGUS SECURITYBADGE/PALM READER	4	EA
	MISC CONDUIT, WIRING	1	EA
12.0	**Site Work**		
2230-0200	REMOVE TREES	5	EA
	REMOVE FENCE	150	LF
	REMOVE SECURITY LIGHTING (3POLES)	3	EA
02820-0920	INSTALL SECURITY FENCE AROUND BLDG	500	LF
16520-5200	INSTALL SECURITY LIGHTS (4POLES)	4	EA
	KSL WORK		
	UTILITY TIE INS		
	WATER LINE TAP	1	EA
	GAS LINE TAP	1	EA
	SANITARY SEWER LINE TAP	1	EA
	ELECTRICAL TAP	1	EA
	ELECTRICAL ACCEPTANCE TESTING	1	EA
	TELECOMM TAP	1	EA
	6" DOUBLE CONTAINMENT PIPE TAP	1	EA
	FIRE ALARM TIE IN	1	EA
	TEMPORARY POWER FOR CONSTRUCTION TRAILER	1	EA
	PROJECT MANAGEMENT AND INSPECTION	1	EA
	DESIGN PHASE		
	TOTAL A/E TITLE I DESIGN		
	TOTAL A/E TITLE II DESIGN		
	TOTAL A/E 1 & 11 DESIGN		
	TOTAL LANL TITLE I DESIGN MANAGEMENT		
	TOTAL LANL TITLE II DESIGN MANAGEMENT		
	TOTAL A/E 1 & 11 DESIGN MANAGEMENT		
	GOVERNMENT FURNISHED EQUIPMENT (GFE)		
	2-8 FT PERCHLORIC HOOD		
	16-4FT HOODS		
	SUB-TOTAL		
	COST OF CONSTRUCTION (NO TITLE III SERVICES)		
	CONSTRUCTION TITLE III SERVICES		
	TOTAL A/E TITLE III SERVICES		
	TOTAL LANL TITLE III CONSTRUCTION MANAGEMENT		
	TOTAL LANL TITLE III PROJECT MANAGEMENT		
	TOTAL CONSTRUCTION/TITLE III SERVICES		
	PROJECT MANAGEMENT		
	PROJECT TEAM LEADER		
	PROJECT ENGINEER		
	PROJECT CONTROLS		
	TECHNICAL COORDINATION		
	ENGINEERING SERVICES		
	FWO ENGINEERS		
	MISC. SME'S (CCN, S, etc.)		

ASSEMBLY NUMBER	DESCRIPTION	QTY	UNIT
	COMMISSIONING AUTHORITY		
	ESH SUPPORT		
	ESH-ID, SHC, ML, PC		
	RFP DEVELOPMENT SERVICES		
	PROJECT SCOPING		
	RFP DEVELOPMENT		
	SOLICITATION SUPPORT		
	GEOTECH/TOPO SURVEYS		
	GEOTECH/SUBSURFACE INVEST.		
	TOPOGRAPHICAL SURVEY		
	READINESS ASSESSMENT		
	CONTINGENCY @ 10%		
	George Martinez		
	Project Leader, FWO-DECS		
	Ph: 665-5247		
	Cell: 699-1180		
	Pager: 664-4132		

ASSEMBLY NUMBER	DESCRIPTION	QTY	UNIT
1.0	**Sitework/Utilities**		
12.1-402	BACK FILL	1778	CUYD
1 110-1820	EXCAVATION	555	LINFT
12.3-110-1330	TRENCHING-WATER LINE	100	LF
12.3-210-1440	PIPE BEDDING-WATER LINE	100	LF
12.3-9222700	FIRE HYDRANT	1	EA
15107-3050	6" PIPE	100	LF
02220-1750	SAW CUT AND PAVEMENT REMOVAL	150	SQYD
12..3-110-1330	TRENCHING-GAS LINE	100	LF
12.3-210-1440	PIPE BEDDING-GAS LINE	100	LF
15108-7790	2" PE PIPE	100	
12.7-120-2120	ASPHALT PATCHING	150	
12.3-110-1330	TRENCHING-SANITARY SEWER	100	LF
12.3-210-1440	PIPE BEDDING-SANITARY SEWER	100	LF
15107-3050	6" PIPE	100	
13.3-110-1330	TRENCHING-ELECTRICAL	100	LF
12.3-210-1440	PIPE BEDDING-ELECTRICAL	100	LF
02500-7680	ELECTRICAL CONDUIT	100	LF
02500-7830	ELECTRICAL DUCT BANK	14.8	CU/YD
13.3-110-1330	TRENCHING TELECOMM	100	LF
12.3-210-1440	PIPE BEDDING TELECOMM	100	LF
02500-7680	TELECOMM CONDUIT	100	LF
2	**Substructure**		
2.1-2004560	SLAB ON GRADE	20000	SQFT
2.1-200-4480	EXHAUST FAN PAD	128	SQFT
2.1-200-4480	CONDENSER PAD	80	SQFT
2.1-200-4480	TRANSFORMER PAD	80	
12.7-610-2500	CONCRETE CURBS	600	LF
2.1-200-4480	CONCRETE SIDEWALK	10800	SQFT
12.5-110-1800	ROAD WAY PAVMENT	400	LF
12.3-510-5850	CULVERT	60	LF
3.0	**Superstructure**		
4.0	**Exterior Closure**		
4.1-213-6390	SPLIT FACED BLOCK	31050	SQFT
4.6-100-3450	EXTERIOR DOORS	4	EA
4.6-100-3450	INTERIOR DOORS	112	EA
4.7-110-5750	WINDOWS	56	EA
5.0	**Roofing**		
05210-07020	ROOF JOISTS	4800	LF
03410-0010	ROOF SLAB	20000	SQFT
5.1-220-2000	SINGLE PLY MEMBRANE	20000	SQFT
5.7-101-1840	ROOF INSULATION	20000	SQFT
05 0700	ROOF DECK	20000	SQFT
5.8-500-	DOWN-SPOUT	576	LF
6.0	**Interior Construction**		
6.10510-6250	DRYWALL PARTIONS-METAL STUDS	24000	SQFT
6.6-100-1720	CERAMIC TILE	1200	SQFT

ASSEMBLY NUMBER	DESCRIPTION	QTY	UNIT
6.1-870-1040	TOILET PARTITIONS	9	EA
6.1-870-1140	ENTRANCE SCREENS	6	EA
[illegible]00-0080	PAINT AND COVERING	24000	SQFT
6.[illegible]00-0260	FLOORING COMPOSITION	20000	SQFT
6.7-100-6000	CEILING ACCOUSTICAL	20000	SQFT
7.0	**Conveying**		
8.0	**Mechanical System**		
15107-1180	PIPING HW	600	LF
	PIPING CW	900	LF
02530-2000	PIPING WASTE AND VENT	450	LF
	MISC VALVES, FITTINGS	1	EA
15480-6080	WATER HEATERS	1	EA
15418-6210	LAVATORY	6	EA
15418-6650	SERVICE SINK	2	EA
	EMERGENCY SHOWERS	15	EA
	EYEWASH	12	EA
15411-3100	URINAL	3	EA
15418-3380	WATER CLOSET	6	EA
15830-7120	BATHROOM EXHAUST FAN	2	EA
	MISC DUCTWORK,CURB	1	EA
8.2-110-1540	FIRE PROTECTION	20000	SQFT
	HVAC UNIT	1	EA
	DDC CONTROLS	1	EA
	CONDENSING UNIT	1	EA
8.4-220-2640	HVAC DUCTWORK	20000	SQFT
9.0	**Electrical**		
16270-0500	SERVICE TRANSFORMER	1	EA
16440-0590	480V PANELBOARD	2	EA
16270-2100	SECONDARY TRANSFORMER	6	EA
D5010-0440	FEEDER	75	LF
16510-0600	FLUORESCENT LIGHTING	240	EA
16140-2470	RECEPTACLES	240	EA
16140-2482	RECEPTACLES (GFCI)	24	
16140-2800	SWITCHES	24	
	MICS BREAKERS, CONDUIT, WIRING	1	EA
13100-1000	LIGHTNING PROTECTION AIR TERMINAL	36	EA
13100-2500	LIGHTNING PROTECTION CABLE	900	LF
13100-2000	LIGHTNING PROTECTION GROUNDING	1500	LF
10.0	**General Conditions**		
11.0	**Special Construction**		
	TELECOMM SYSTEM		
171-[illegible]10-1800	OFFICE EQUIPMENT (est LANL cost per person)	20	EA
	ARGUS SECURITY BADGE/PALM READER	4	EA
	MISC CONDUIT, WIRING	1	EA
B1010-9300	CRANE BEAM AND COLUMNS	140	LF
14600-0625	OVERHEAD BRIDGE CRANE	1	EA
12.0	**Site Work**		

ASSEMBLY NUMBER	DESCRIPTION	QTY	UNIT
	INSTALL SECURITY LIGHTS (4POLES)	4	ea
	KSL WORK		
	UTILITY TIE INS		
	WATER LINE TAP	1	EA
	GAS LINE TAP	1	EA
	SANITARY SEWER LINE TAP	1	EA
	ELECTRICAL TAP	1	EA
	ELECTRICAL ACCEPTANCE TESTING	1	EA
	TELECOMM TAP	1	EA
	FIRE ALARM TIE IN	1	EA
	TEMPORARY POWER FOR CONSTRUCTION TRAILER	1	EA
	PROJECT MANAGEMENT AND INSPECTION	1	EA
	DESIGN PHASE		
	TOTAL A/E TITLE I DESIGN		
	TOTAL A/E TITLE II DESIGN		
	TOTAL A/E 1 & 11 DESIGN		
	TOTAL LANL TITLE I DESIGN MANAGEMENT		
	TOTAL LANL TITLE II DESIGN MANAGEMENT		
	TOTAL A/E 1 & 11 DESIGN MANAGEMENT		
	CONSTRUCTION TITLE III SERVICES		
	TOTAL A/E TITLE III SERVICES		
	TOTAL LANL TITLE III CONSTRUCTION MANAGEMENT		
	TOTAL LANL TITLE III PROJECT MANAGEMENT		
	TOTAL CONSTRUCTION/TITLE III SERVICES		
	PROJECT MANAGEMENT		
	PROJECT TEAM LEADER		
	PROJECT ENGINEER		
	PROJECT CONTROLS		
	TECHNICAL COORDINATION		
	ENGINEERING SERVICES		
	FWO ENGINEERS		
	MISC. SME'S (CCN, S, etc.)		
	COMMISSIONING AUTHORITY		
	ESH SUPPORT		
	ESH-ID, SHC, ML, PC		
	RFP DEVELOPMENT SERVICES		
	PROJECT SCOPING		
	RFP DEVELOPMENT		
	SOLICITATION SUPPORT		
	GEOTECH/TOPO SURVEYS		
	GEOTECH/SUBSURFACE INVEST.		
	TOPOGRAPHICAL SURVEY		
	READINESS ASSESSMENT		
	George Martinez		
	Project Leader, FWO-DECS		
	Ph: 665-5247		
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	Pager: 664-4132		

ASSEMBLY NUMBER	DESCRIPTION	QTY	UNIT
1.0	**Sitework/Utilities**		
12.1-402	BACK FILL	1778	CUYD
[illegible] 110-1820	EXCAVATION	555	LINFT
12.3-110-1330	TRENCHING-WATER LINE	100	LF
12.3-210-1440	PIPE BEDDING-WATER LINE	100	LF
12.3-9222700	FIRE HYDRANT	1	EA
15107-3050	6" PIPE	100	LF
02220-1750	SAW CUT AND PAVEMENT REMOVAL	150	SQYD
12..3-110-1330	TRENCHING-GAS LINE	100	LF
12.3-210-1440	PIPE BEDDING-GAS LINE	100	LF
15108-7790	2" PE PIPE	100	
12.7-120-2120	ASPHALT PATCHING	150	
12.3-110-1330	TRENCHING-SANITARY SEWER	100	LF
12.3-210-1440	PIPE BEDDING-SANITARY SEWER	100	LF
15107-3050	6" PIPE	100	
13.3-110-1330	TRENCHING-ELECTRICAL	100	LF
12.3-210-1440	PIPE BEDDING-ELECTRICAL	100	LF
02500-7680	ELECTRICAL CONDUIT	100	LF
02500-7830	ELECTRICAL DUCT BANK	14.8	CU/YD
13.3-110-1330	TRENCHING TELECOMM	100	LF
12.3-210-1440	PIPE BEDDING TELECOMM	100	LF
02500-7680	TELECOMM CONDUIT	100	LF
2	**Substructure**		
2.1-2004560	SLAB ON GRADE	20000	SQFT
2.1-200-4480	EXHAUST FAN PAD	128	SQFT
2.1-200-4480	CONDENSER PAD	80	SQFT
2.1-200-4480	TRANSFORMER PAD	80	
12.7-610-2500	CONCRETE CURBS	600	LF
2.1-200-4480	CONCRETE SIDEWALK	10800	SQFT
12.5-110-1800	ROAD WAY PAVMENT	400	LF
12.3-510-5850	CULVERT	60	LF
3.0	**Superstructure**		
4.0	**Exterior Closure**		
4.1-213-6390	SPLIT FACED BLOCK	20700	SQFT
4.6-100-3450	EXTERIOR DOORS	4	EA
4.6-100-3450	INTERIOR DOORS	112	EA
4.7-110-5750	WINDOWS	56	EA
5.0	**Roofing**		
05210-07020	ROOF JOISTS	4800	LF
03410-0010	ROOF SLAB	20000	SQFT
5.1-220-2000	SINGLE PLY MEMBRANE	20000	SQFT
5.7-101-1840	ROOF INSULATION	20000	SQFT
0[illegible]-0700	ROOF DECK	20000	SQFT
5.8-500-	DOWN-SPOUT	576	LF
6.0	**Interior Construction**		
6.10510-6250	DRYWALL PARTIONS-METAL STUDS	24000	SQFT
6.6-100-1720	CERAMIC TILE	1200	SQFT

ASSEMBLY NUMBER	DESCRIPTION	QTY	UNIT
6.1-870-1040	TOILET PARTITIONS	9	EA
6.1-870-1140	ENTRANCE SCREENS	6	EA
[illegible]00-0080	PAINT AND COVERING	24000	SQFT
6.6-100-0260	FLOORING COMPOSITION	20000	SQFT
6.7-100-6000	CEILING ACCOUSTICAL	20000	SQFT
7.0	**Conveying**		
8.0	**Mechanical System**		
15107-1180	PIPING HW	600	LF
	PIPING CW	900	LF
02530-2000	PIPING WASTE AND VENT	450	LF
	MISC VALVES, FITTINGS	1	EA
15480-6080	WATER HEATERS	1	EA
15418-6210	LAVATORY	6	EA
15418-6650	SERVICE SINK	2	EA
	EMERGENCY SHOWERS	15	EA
	EYEWASH	12	EA
15411-3100	URINAL	3	EA
15418-3380	WATER CLOSET	6	EA
15830-7120	BATHROOM EXHAUST FAN	2	EA
	MISC DUCTWORK,CURB	1	EA
8.2-110-1540	FIRE PROTECTION	20000	SQFT
	HVAC UNIT	1	EA
	DDC CONTROLS	1	EA
	CONDENSING UNIT	1	EA
8.4-220-2640	HVAC DUCTWORK	20000	SQFT
9.0	**Electrical**		
16270-0500	SERVICE TRANSFORMER	1	EA
16440-0590	480V PANELBOARD	2	EA
16270-2100	SECONDARY TRANSFORMER	6	EA
D5010-0440	FEEDER	75	LF
16510-0600	FLUORESCENT LIGHTING	240	EA
16140-2470	RECEPTACLES	240	EA
16140-2482	RECEPTACLES (GFCI)	24	
16140-2800	SWITCHES	24	
	MICS BREAKERS, CONDUIT, WIRING	1	EA
13100-1000	LIGHTNING PROTECTION AIR TERMINAL	36	EA
13100-2500	LIGHTNING PROTECTION CABLE	900	LF
13100-2000	LIGHTNING PROTECTION GROUNDING	1500	LF
10.0	**General Conditions**		
11.0	**Special Construction**		
	TELECOMM SYSTEM	1	EA
171-610-1800	OFFICE EQUIPMENT (est LANL cost per person)	20	EA
	BADGE/PALM READER SYSTEM	4	EA
	MISC CONDUIT, WIRING	1	EA
12.0	**Site Work**		
16520-5200	INSTALL SECURITY LIGHTS (4POLES)	4	ea
13.0	**TOTALS**		

ASSEMBLY NUMBER	DESCRIPTION	QTY	UNIT
	KSL WORK		
	UTILITY TIE INS		
	WATER LINE TAP	1	EA
	GAS LINE TAP	1	EA
	SANITARY SEWER LINE TAP	1	EA
	ELECTRICAL TAP	1	EA
	ELECTRICAL ACCEPTANCE TESTING	1	EA
	TELECOMM TAP	1	EA
	FIRE ALARM TIE IN	1	EA
	TEMPORARY POWER FOR CONSTRUCTION TRAILER	1	EA
	PROJECT MANAGEMENT AND INSPECTION	1	EA
	DESIGN PHASE		
	A/E TITLE 1 DESIGN @ 9% OF CONSTRUCTION		
	NMGRT ON A/E SERVICES @ 6.0625%		
	TOTAL A/E TITLE I DESIGN		
	TOTAL A/E TITLE II DESIGN		
	TOTAL A/E 1 & 11 DESIGN		
	TOTAL LANL TITLE I DESIGN MANAGEMENT		
	TOTAL LANL TITLE II DESIGN MANAGEMENT		
	TOTAL A/E 1 & 11 DESIGN MANAGEMENT		
	CONSTRUCTION TITLE III SERVICES		
	A/E TITLE III SERVICES @ 6% OF CONSTRUCTION		
	NMGRT ON A/E SERVICES @ 6.0625%		
	TOTAL A/E TITLE III SERVICES		
	LANL TITLE III CONSTRUCTION MANAGEMENT @ 5% OF CONSTRUCTION		
	TOTAL LANL TITLE III CONSTRUCTION MANAGEMENT		
	LANL TITLE III PROJECT MANAGEMENT @ 5% OF CONSTRUCTION		
	TOTAL LANL TITLE III PROJECT MANAGEMENT		
	TOTAL CONSTRUCTION/TITLE III SERVICES		
	PROJECT CONTINGENCY @ 30%		
	PROJECT MANAGEMENT		
	PROJECT TEAM LEADER		
	PROJECT ENGINEER		
	PROJECT CONTROLS		
	TECHNICAL COORDINATION		
	ENGINEERING SERVICES		
	FWO ENGINEERS		
	MISC. SME'S (CCN, S, etc.)		
	COMMISSIONING AUTHORITY		
	ESH SUPPORT		
	ESH-ID, SHC, ML, PC		
	RFP DEVELOPMENT SERVICES		
	PROJECT SCOPING		
	RFP DEVELOPMENT		
	SOLICITATION SUPPORT		
	GEOTECH/TOPO SURVEYS		
	GEOTECH/SUBSURFACE INVEST.		
	TOPOGRAPHICAL SURVEY		
	READINESS ASSESSMENT CONTINGENCY @ 10%		
	George Martinez		
	Project Leader, FWO-DECS		
	Ph: 665-5247		
	Cell: 699-1180		
	Pager: 664-4132		

ASSEMBLY NUMBER	DESCRIPTION	QTY	UNIT
1.0	**Sitework/Utilities**		
12.1-402	BACK FILL	1778	CUYD
1 110-1820	EXCAVATION	555	LINFT
12.3-110-1330	TRENCHING-WATER LINE	100	LF
12.3-210-1440	PIPE BEDDING-WATER LINE	100	LF
12.3-9222700	FIRE HYDRANT	1	EA
15107-3050	6" PIPE	100	LF
02220-1750	SAW CUT AND PAVEMENT REMOVAL	150	SQYD
12..3-110-1330	TRENCHING-GAS LINE	100	LF
12.3-210-1440	PIPE BEDDING-GAS LINE	100	LF
15108-7790	2" PE PIPE	100	
12.7-120-2120	ASPHALT PATCHING	150	
12.3-110-1330	TRENCHING-SANITARY SEWER	100	LF
12.3-210-1440	PIPE BEDDING-SANITARY SEWER	100	LF
15107-3050	6" PIPE	100	
13.3-110-1330	TRENCHING-ELECTRICAL	100	LF
12.3-210-1440	PIPE BEDDING-ELECTRICAL	100	LF
02500-7680	ELECTRICAL CONDUIT	100	LF
02500-7830	ELECTRICAL DUCT BANK	14.8	CU/YD
13.3-110-1330	TRENCHING TELECOMM	100	LF
12.3-210-1440	PIPE BEDDING TELECOMM	100	LF
02500-7680	TELECOMM CONDUIT	100	LF
1 10-4500	TRENCHING-RAD. LIQUID WASTE	100	LF
12.2-210-1440	PIPE BEDDING-RAD. LIQUID WASTE	100	LF
15100-4370	6" DOUBLE CONTAINMENT PIPE	100	LF
2.0	**Substructure**		
2.1-2004560	SLAB ON GRADE	9000	SQFT
2.1-200-4480	EXHAUST FAN PAD	128	SQFT
2.1-200-4480	CONDENSER PAD	80	SQFT
2.1-200-4480	TRANSFORMER PAD	80	
12.7-610-2500	CONCRETE CURBS	600	LF
2.1-200-4480	CONCRETE SIDEWALK	5400	SQFT
12.5-110-1800	ROAD WAY PAVMENT	400	LF
12.3-510-5850	CULVERT	60	LF
3.0	**Superstructure**		
4.0	**Exterior Closure**		
4.1-213-6390	SPLIT FACED BLOCK	10350	SQFT
4.6-100-3450	EXTERIOR DOORS	4	EA
4.6-100-3450	INTERIOR DOORS	48	EA
4.7-110-5750	WINDOWS	24	EA
5.0	**Roofing**		
05210-07020	ROOF JOISTS	2400	LF
0 0010	ROOF SLAB	9000	SQFT
5.1-220-2000	SINGLE PLY MEMBRANE	9000	SQFT
5.7-101-1840	ROOF INSULATION	9000	SQFT
05310-0700	ROOF DECK	9000	SQFT
5.8-500-	DOWN-SPOUT	288	LF

ASSEMBLY NUMBER	DESCRIPTION	QTY	UNIT
6.0	**Interior Construction**		
6.10510-6250	DRYWALL PARTIONS-METAL STUDS	12000	SQFT
[illegible]00-1720	CERAMIC TILE	1200	SQFT
6.[illegible]870-1040	TOILET PARTITIONS	9	EA
6.1-870-1140	ENTRANCE SCREENS	6	EA
6.5-100-0080	PAINT AND COVERING	12000	SQFT
6.6-100-0260	FLOORING COMPOSITION	9000	SQFT
6.7-100-6000	CEILING ACCOUSTICAL	9000	SQFT
7.0	**Conveying**		
8.0	**Mechanical System**		
15107-1180	PIPING HW	300	LF
	PIPING CW	450	LF
	PIPING DI SYSTEM	1	EA
02530-2000	PIPING WASTE AND VENT	450	LF
	MISC VALVES, FITTINGS	1	EA
15480-6080	WATER HEATERS	1	EA
15418-6210	LAVATORY	6	EA
15418-6650	SERVICE SINK	2	EA
	EMERGENCY SHOWERS	15	EA
	EYEWASH	12	EA
15411-3100	URINAL	3	EA
15418-3380	WATER CLOSET	6	EA
1[illegible]-7120	BATHROOM EXHAUST FAN	2	EA
	MISC DUCTWORK,CURB	1	EA
8.2-110-1540	FIRE PROTECTION	9000	SQFT
	HVAC UNIT	1	EA
	DDC CONTROLS	1	EA
	CONDENSING UNIT	1	EA
8.4-220-2640	HVAC DUCTWORK	9000	SQFT
15810-1060	EXHAUST STAINLESS STEEL DUCTWORK	30000	LB
	EXHAUST RESIN COATED FAN	2	EA
	EXHAUST STACK 16" DIA. X 30'	2	EA
9.0	**Electrical**		
16270-0500	SERVICE TRANSFORMER	1	EA
16440-0590	480V PANELBOARD	2	EA
16270-2100	SECONDARY TRANSFORMER	3	EA
D5010-0440	FEEDER	75	LF
16510-0600	FLUORESCENT LIGHTING	120	EA
16140-2470	RECEPTACLES	120	EA
16140-2482	RECEPTACLES (GFCI)	24	
16140-2800	SWITCHES	24	
	MICS BREAKERS, CONDUIT, WIRING	1	EA
13[illegible]1000	LIGHTNING PROTECTION AIR TERMINAL	18	EA
13100-2500	LIGHTNING PROTECTION CABLE	450	LF
13100-2000	LIGHTNING PROTECTION GROUNDING	750	LF
10.0	**General Conditions**		
11.0	**Special Construction**		

ASSEMBLY NUMBER	DESCRIPTION	QTY	UNIT
	TELECOMM SYSTEM	1	EA
171-610-1800	OFFICE EQUIPMENT (est LANL cost per person)	10	EA
	ARGUS SECURITY BADGE/PALM READER	4	EA
	MISC CONDUIT, WIRING	1	EA
12.0	**Site Work**		
02820-0920	INSTALL SECURITY FENCE AROUND BLDG	1500	LF
16520-5200	INSTALL SECURITY LIGHTS (4POLES)	4	EA
	KSL WORK		
	UTILITY TIE INS		
	WATER LINE TAP	1	EA
	GAS LINE TAP	1	EA
	SANITARY SEWER LINE TAP	1	EA
	ELECTRICAL TAP	1	EA
	ELECTRICAL ACCEPTANCE TESTING	1	EA
	TELECOMM TAP	1	EA
	6" DOUBLE CONTAINMENT PIPE TAP	1	EA
	FIRE ALARM TIE IN	1	EA
	TEMPORARY POWER FOR CONSTRUCTION TRAILER	1	EA
	PROJECT MANAGEMENT AND INSPECTION	1	EA
	DESIGN PHASE		
	TOTAL LANL TITLE II DESIGN MANAGEMENT		
	TOTAL A/E 1 & 11 DESIGN MANAGEMENT		
	GOVERNMENT FURNISHED EQUIPMENT (GFE)		
	48-4FT HOODS		
	CONSTRUCTION TITLE III SERVICES		
	TOTAL A/E TITLE III SERVICES		
	TOTAL LANL TITLE III CONSTRUCTION MANAGEMENT		
	TOTAL LANL TITLE III PROJECT MANAGEMENT		
	PROJECT MANAGEMENT		
	PROJECT TEAM LEADER		
	PROJECT ENGINEER		
	PROJECT CONTROLS		
	TECHNICAL COORDINATION		
	ENGINEERING SERVICES		
	FWO ENGINEERS		
	MISC. SME'S (CCN, S, etc.)		
	COMMISSIONING AUTHORITY		
	ESH SUPPORT		
	ESH-ID, SHC, ML, PC		
	RFP DEVELOPMENT SERVICES		
	PROJECT SCOPING		
	RFP DEVELOPMENT		
	SOLICITATION SUPPORT		
	GEOTECH/TOPO SURVEYS		
	GEOTECH/SUBSURFACE INVEST.		
	TOPOGRAPHICAL SURVEY		
	READINESS ASSESSMENT		
	George Martinez		
	Project Leader, FWO-DECS		
	Ph: 665-5247		
	Cell: 699-1180		
	Pager: 664-4132		

ASSEMBLY NUMBER	DESCRIPTION	QTY	UNIT	
1.0	**Sitework/Utilities**			
[illegible]402	BACK FILL	889	CUYD	
12.3-110-1820	EXCAVATION	555	LINFT	
12.3-110-1330	TRENCHING-WATER LINE	100	LF	
12.3-210-1440	PIPE BEDDING-WATER LINE	100	LF	
12.3-9222700	FIRE HYDRANT	1	EA	
15107-3050	6" PIPE	100	LF	
02220-1750	SAW CUT AND PAVEMENT REMOVAL	150	SQYD	
12..3-110-1330	TRENCHING-GAS LINE	100	LF	
12.3-210-1440	PIPE BEDDING-GAS LINE	100	LF	
15108-7790	2" PE PIPE	100		
12.7-120-2120	ASPHALT PATCHING	150		
12.3-110-1330	TRENCHING-SANITARY SEWER	100	LF	
12.3-210-1440	PIPE BEDDING-SANITARY SEWER	100	LF	
15107-3050	6" PIPE	100		
13.3-110-1330	TRENCHING-ELECTRICAL	100	LF	
12.3-210-1440	PIPE BEDDING-ELECTRICAL	100	LF	
02500-7680	ELECTRICAL CONDUIT	100	LF	
02500-7830	ELECTRICAL DUCT BANK	14.8	CU/YD	
13.3-110-1330	TRENCHING TELECOMM	100	LF	
12.3-210-1440	PIPE BEDDING TELECOMM	100	LF	
0[illegible]-7680	TELECOMM CONDUIT	100	LF	
2.0	**Substructure**			
2.1-2004560	SLAB ON GRADE	5000	SQFT	
2.1-200-4480	CONDENSER PAD	80	SQFT	
2.1-200-4480	TRANSFORMER PAD	80		
12.7-610-2500	CONCRETE CURBS	600	LF	
2.1-200-4480	CONCRETE SIDEWALK	2700	SQFT	
12.5-110-1800	ROAD WAY PAVMENT	400	LF	
12.3-510-5850	CULVERT	60	LF	
3.0	**Superstructure**			
4.0	**Exterior Closure**			
4.1-213-6390	SPLIT FACED BLOCK	5175	SQFT	
4.6-100-3450	EXTERIOR DOORS	4	EA	
4.6-100-3450	INTERIOR DOORS	2	EA	
5.0	**Roofing**			
05210-07020	ROOF JOISTS	1200	LF	
03410-0010	ROOF SLAB	5000	SQFT	
5.1-220-2000	SINGLE PLY MEMBRANE	5000	SQFT	
5.7-101-1840	ROOF INSULATION	5000	SQFT	
05[illegible]-0700	ROOF DECK	5000	SQFT	
5.6[illegible]0-	DOWN-SPOUT	144	LF	
6.0	**Interior Construction**			
6.6-100-1720	CERAMIC TILE	300	SQFT	
6.1-870-1040	TOILET PARTITIONS	9	EA	

ASSEMBLY NUMBER	DESCRIPTION	QTY	UNIT	
6 1-870-1140	ENTRANCE SCREENS	6	EA	
[illegible]00-0080	PAINT AND COVERING	6000	SQFT	
6.6-100-0260	FLOORING COMPOSITION	5000	SQFT	
7.0	**Conveying**			
8.0	**Mechanical System**			
15107-1180	PIPING HW	150	LF	
	PIPING CW	275	LF	
02530-2000	PIPING WASTE AND VENT	150	LF	
	MISC VALVES, FITTINGS	1	EA	
15480-6080	WATER HEATERS	1	EA	
15418-6210	LAVATORY	6	EA	
15418-6650	SERVICE SINK	2	EA	
	EMERGENCY SHOWERS	1	EA	
	EYEWASH	1	EA	
15411-3100	URINAL	1	EA	
15418-3380	WATER CLOSET	2	EA	
15830-7120	BATHROOM EXHAUST FAN	2	EA	
	MISC DUCTWORK,CURB	1	EA	
8.2-110-1540	FIRE PROTECTION	5000	SQFT	
	HVAC UNIT	1	EA	
	DDC CONTROLS	1	EA	
	CONDENSING UNIT	1	EA	
8.4-220-2640	HVAC DUCTWORK	5000	SQFT	
9.0	**Electrical**			
16270-0500	SERVICE TRANSFORMER	1	EA	
16440-0590	480V PANELBOARD	1	EA	
16270-2100	SECONDARY TRANSFORMER	1	EA	
D5010-0440	FEEDER	75	LF	
16510-0600	FLUORESCENT LIGHTING	60	EA	
16140-2470	RECEPTACLES	24	EA	
16140-2482	RECEPTACLES (GFCI)	6	EA	
16140-2800	SWITCHES	6	EA	
	MICS BREAKERS, CONDUIT, WIRING	1	EA	
13100-1000	LIGHTNING PROTECTION AIR TERMINAL	9	EA	
13100-2500	LIGHTNING PROTECTION CABLE	275	LF	
13100-2000	LIGHTNING PROTECTION GROUNDING	325	LF	
10.0	**General Conditions**			
11.0	**Special Construction**			
	TELECOMM SYSTEM	1	EA	
171-610-1800	OFFICE EQUIPMENT (est LANL cost per perso	2	EA	
	BADGE/PALM READER SYSTEM	4	EA	
	MISC CONDUIT, WIRING	1	EA	
12.0	**Site Work**			
16520-5200	INSTALL SECURITY LIGHTS (4POLES)	4	EA	
13.0	**TOTALS**			

ASSEMBLY NUMBER	DESCRIPTION	QTY	UNIT	
	KSL WORK			
	UTILITY TIE INS			
	WATER LINE TAP	1	EA	
	GAS LINE TAP	1	EA	
	SANITARY SEWER LINE TAP	1	EA	
	ELECTRICAL TAP	1	EA	
	ELECTRICAL ACCEPTANCE TESTING	1	EA	
	TELECOMM TAP	1	EA	
	FIRE ALARM TIE IN	1	EA	
	TEMPORARY POWER FOR CONSTRUCTION	1	EA	
	PROJECT MANAGEMENT AND INSPECTION	1	EA	
	DESIGN PHASE			
	A/E TITLE 1 DESIGN @ 9% OF CONSTRUCTION			
	NMGRT ON A/E SERVICES @ 6.0625%			
	A/E TITLE II DESIGN @ 6% OF CONSTRUCTION			
	NMGRT ON A/E SERVICES @ 6.0625%			
	LANL TITLE 1 DESIGN MANAGEMENT @ 5% OF CONSTRUCTION			
	LANL TITLE 11 DESIGN MANAGEMENT @ 5% OF CONSTRUCTION			
	CONSTRUCTION TITLE III SERVICES			
	A/E TITLE III SERVICES @ 6% OF CONSTRUCTION			
	NMGRT ON A/E SERVICES @ 6.0625%			
	TOTAL A/E TITLE III SERVICES			
	LANL TITLE III CONSTRUCTION MANAGEMENT @ 5% OF CONSTRUCTION			
	TOTAL LANL TITLE III CONSTRUCTION MANAGEMENT			
	LANL TITLE III PROJECT MANAGEMENT @ 5% OF CONSTRUCTION			
	PROJECT MANAGEMENT			
	PROJECT TEAM LEADER			
	PROJECT ENGINEER			
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	ENGINEERING SERVICES			
	FWO ENGINEERS			
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Attachment 2 MRSC

Materials Corridor:

Nuclear to
Radiological to
Condensed Matter to
Computational

Proposed
Radiological Science Complex

Radiological Facilities Planning Group

Dan Rusthoi, AFC-PO
Sandy Wagner, C-Div
Gary Thayer, D-Div
Mike Brown, MST-Div
Jim Sprinkle, N-Div
Many others!!!

Dana Christensen
ADSR/NTA

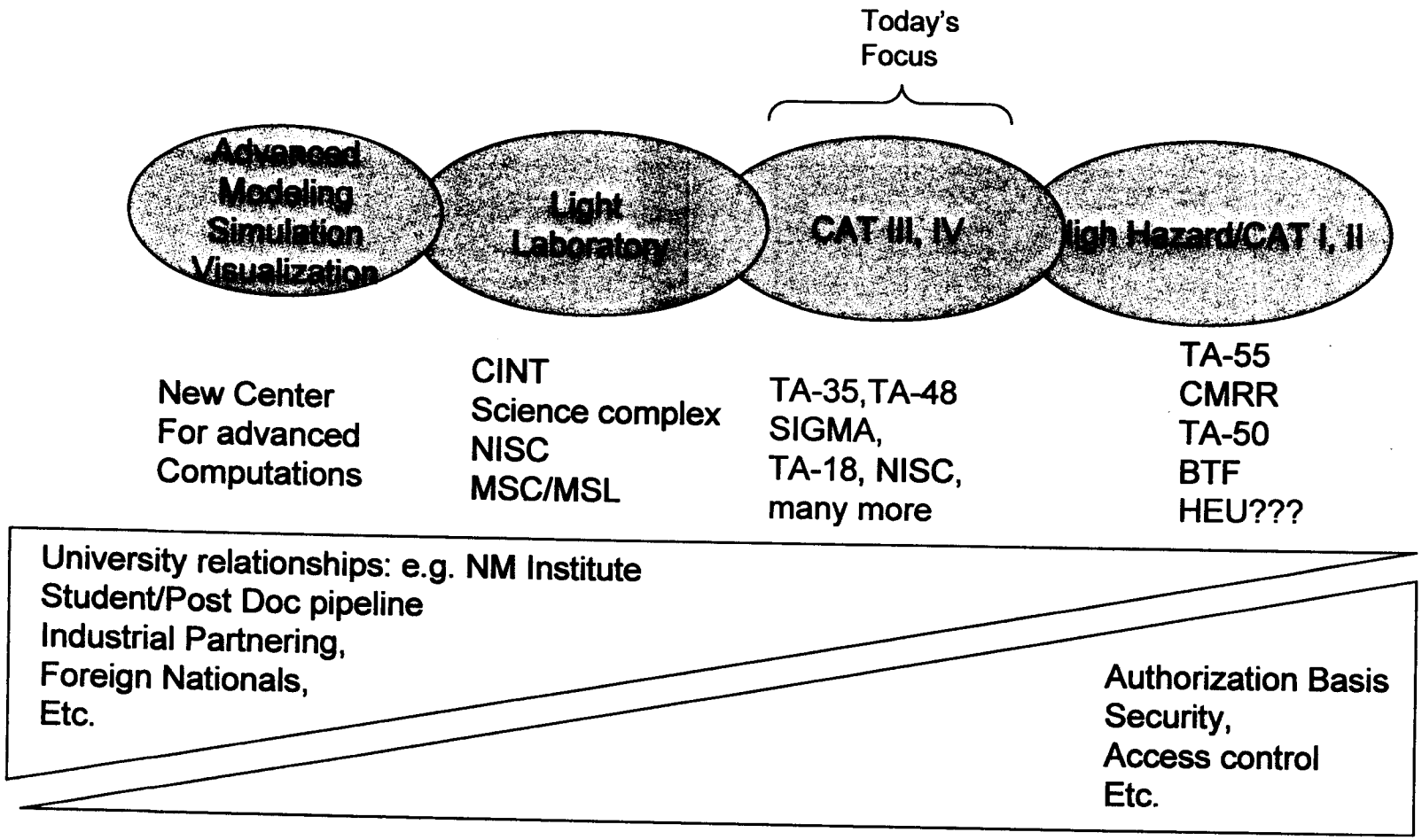
EB Presentation
? May 2005

The Successful "New" Laboratory Requires Facility/Capability Re-investment

- Attracts next generation scientists
- Retire obsolete facilities and equipment
- Eliminate non-compliances
- Eliminate deferred maintenance
- Shrink footprint
- Achieve greater cost and operational efficiency

We will retain existing business.
We will attract new business.

Reinvestment must integrate the Lab's Material Science Facility - *The Materials Continuum Corridor*:

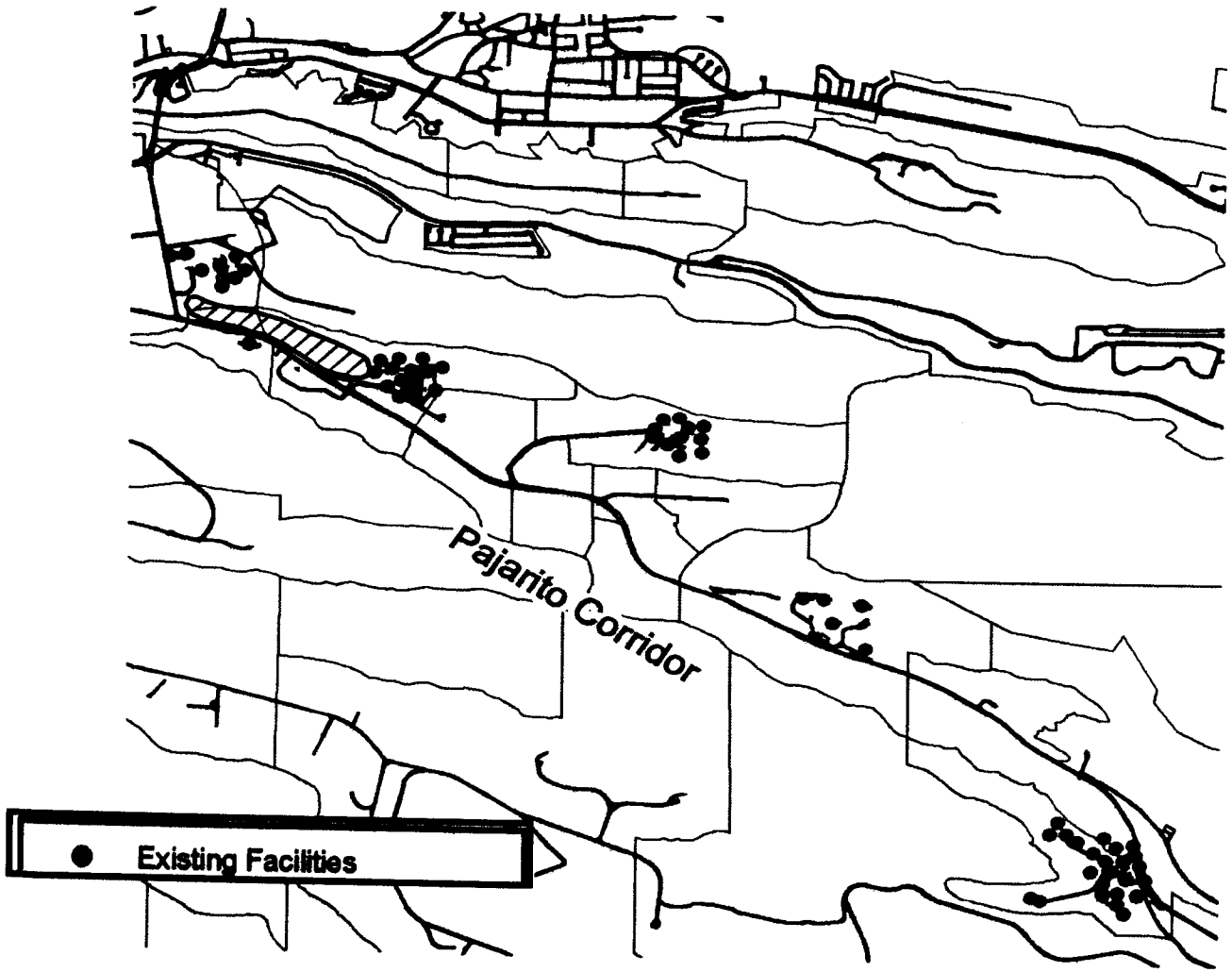


Radiological Facilities: Aging and Obsolete

- **61 of 81 (~75%) of all LANL radiological facilities are obsolete (e.g., >40 yrs old)**
  - Deteriorating and not being maintained
  - Do not meet building codes (grandfathered)
- **O&M costs are escalating - annual recurring unusual O&M and upgrades**
- **Upgrade costs to meet building codes, safety & security requirements are prohibitive**
  - Not a prudent expenditure
  - Cost of deferred maintenance and required upgrades is currently estimated

Deteriorating conditions and lack of adequate replacement planning indicates a path for systematic closure of facilities and significant loss of small-scale science capabilities

Radiological Facilities Proposed for Replacement are Along the Pajarito Corridor



Initial Assessment Identified Facility Replacement Needs

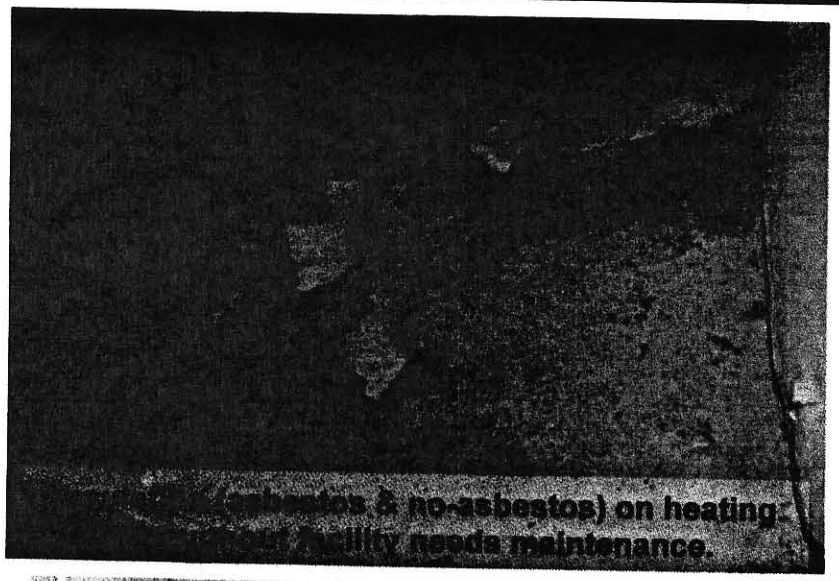
Summary of LANL Radiological Facilities Proposed for Replacement

Functional Area	Structures / Space to be Vacated	Predominant Condition	Predominant Age (yrs)	Mission Critical?
Chemistry	10 permanent bldgs 8 transportables 2 trailers CMR Hot Cells *	POOR to FAIL	40-59	Yes
Materials Science & Technology	3 permanent bldgs 2 trailers	POOR to FAIL	40-59	Yes
Nuclear Non-proliferation	21 permanent bldgs 2 transportables 9 trailers, 3 "other"	POOR to FAIL	40-59	Yes
Criticality and Emergency Response	TA-18 **	Security Issue	40-59	Yes
Rad Machining / Inspection	1 permanent bldg	ADEQUATE to POOR	40-59	Yes
TOTAL gross sq. ft.				

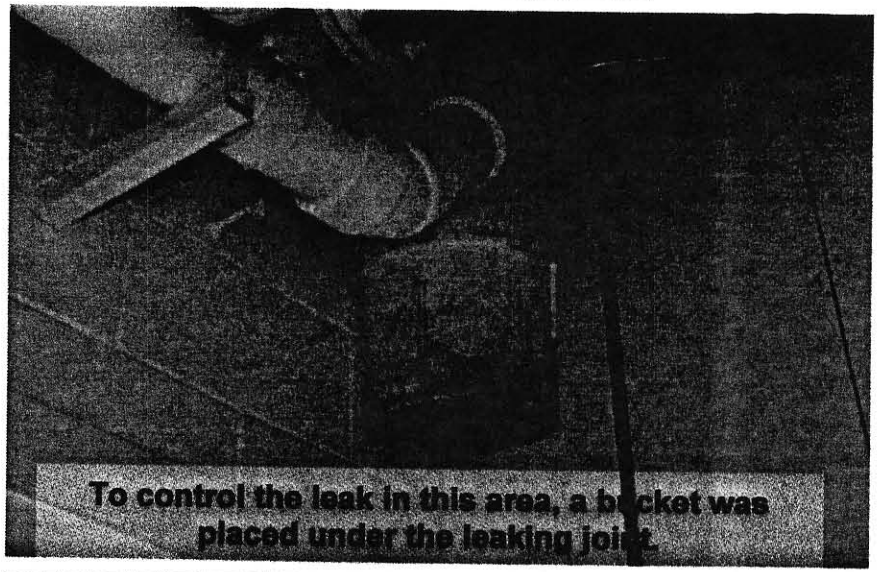
* not included in bldg count

** bldgs included in N Division count

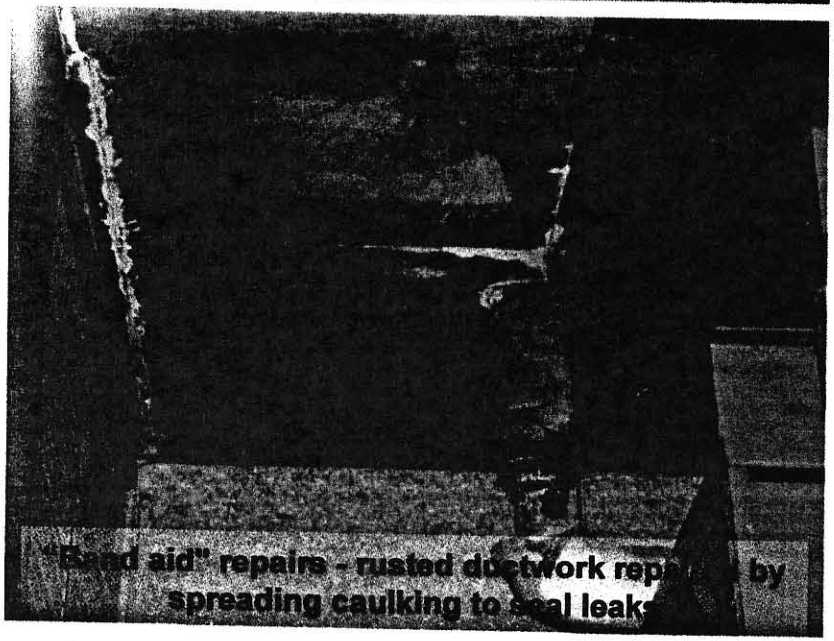
Facility Deterioration is a Serious Issue



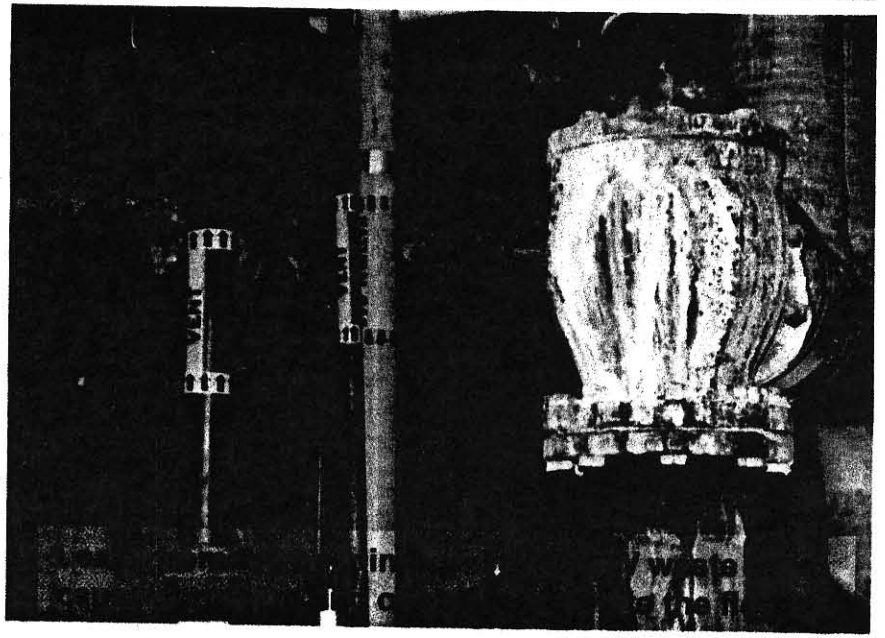
...& no-asbestos) on heating...
...facility needs maintenance.



To control the leak in this area, a bucket was placed under the leaking joint.



"Band aid" repairs - rusted ductwork repl... by spreading caulking to seal leak...



Current Missions Require Radiological, Hazard Category 2 & 3, and Security Categories I, II, III & IV

- **Nuclear Weapons** – *pits, radiochemistry, bioassay, beryllium control*
- **Nuclear Non-Proliferation and Arms Control** – *NDA, MC&A, sensors and detectors, radiochemistry, attribution, safeguards, disposition*
- **Homeland Security** – *sensors and detectors, INDs, dirty bombs, emergency response, event reconstruction*
- **Nuclear Energy** – *separations, advanced fuels, transmutation, space reactors, medical isotopes*
- **Environmental Management** – *aqueous process development, chemistry and mobility of radionuclides*
- **Science** – *fundamental behavior of actinides and SNM, novel radiochemical separations, understanding nuclear chemistry and physics principles such as double beta decay and Bose-Einstein condensates*
- **Intelligence-** *special applications.*

Without restoration of our radiological facilities, new mission opportunities will be lost and existing missions reassigned

Impacts of *No Action* on Science Missions in N-Division

[redacted]

- **Current buildings scheduled to be closed:**
  - IAEA schoolhouse at risk
  - TA-35 Bldg 27 exhibiting new cracks; Bldg 2 is ~55 years old; all buildings require major effort to bring to current codes (safety, hazard category 3, security)
- **For NN: annual program funding is at risk**
- **For DP: annual program funding is at risk**
- **250 staff will be impacted**

Programs and people will move to other DOE sites; Mission needs statement for replacement by EOM May

Impacts of *No Action* on Science Missions in C-Division

- **Loss of work**
  - DP
  - counter and nonproliferation
  - isotope production
  - office of science
  - environmental and actinide chemistry
  - LDRD
- **175 staff will be impacted**
- **No other LANL facilities are adequate to absorb the work in the long term**

No path forward for hot-cell work, Be work, or low-level counting lab; Programs and people will move to other DOE sites

Impacts of *No Action* on Science Missions in MST-Division

[redacted]

- **Significant restrictions to supporting DOE missions based primarily on security posture and Authorization Basis (AB) limitations, because Cat I & II operations are not feasible at this time**
- **Annual DP program funding is at risk**
  - Life Extension Programs (LEPs)
  - PIT manufacturing
  - Joint Test Assemblies (JTAs)
  - Significant Finding Investigation (SFI)
  - Directed and Basic Research

Future programs at risk; continued impetus to invest in capabilities at other sites, reducing Laboratory's stature in the science community

Emerging Opportunity

- As follow-on to creation of the DNDO, OSTP is currently leading an interagency (DOE, DHS, DOD, IC, HHS, etc.) effort to develop S&T roadmaps in domestic nuclear defense.
- One OSTP working group is to address infrastructure needs for S&T
- Inform OMB now of necessary infrastructure investment strategy for FY07/08 budgets
- Current opportunity exists to:
  - Socialize RSC concept with OMB
  - Work with willing sponsors to elevate specific infrastructure projects relevant to DNDO for OMB awareness/recognition, e.g., Secure Radiochemistry Building, IAEA Schoolhouse, etc.

FY05 UC Contract Appendix F Measure Focuses on Facilities and Infrastructure

Performance Objective #6:

Optimize current and evolving mission performance by providing effective and efficient facilities and infrastructure.

6.1 Refine and execute, in coordination with NNSA and other appropriate DOE programs, plans to support optimal use of ….. scientific, research, and test facilities.

C-Division DRC "urges LANL management to strongly consider" the proposal to revitalize radiological facilities (being addressed in the remainder of this presentation)

N-Division DRC has made a similar recommendation

Proposal: A New Radiological Complex

- **Reduce redundancy and consolidate space**
- **Improve efficiency**
  - reduce transportation
  - consolidate security
  - consolidate nuclear materials management
  - co-locate people
- **Complex will be designed to**
  - meet current and future programmatic needs
  - be flexible and expandable
  - meet or exceed building codes, safety and security requirements
  - accommodate both classified and unclassified missions
  - accommodate SNM storage needs
  - minimize, perhaps eliminate, routine hazardous material transportation
  - accommodate collaborations / interactions with industry, universities, and foreign nationals

Cost Basis for Radiological Lab Space

Space Type	Recent LANL Construction Projects TPC per GSF
Moderate-hazard chemistry; (similar to the CMR-R radiological space)	BSL-3
Low-hazard, wet chemistry, HEPA filtration, radiochemistry, synthetic chemistry, RLW connection	RLWTF
Hazard Category 2, 3, unsealed source work, Security Category I Vault	No comparable
Hot Cells	No comparable
Light lab, dry lab, no chemistry,	CINT
High-bay, reinforced floors; heavy manufacturing, machining; HEPA filtration	No comparable
"Unfiltered" open bay; storage; "light" radiological labs, no HEPA, no chemistry	No comparable
TOTAL	

Business Case Sensitivity Analyses

- **Several Sensitivity Analyses Completed**
  - Increased construction cost
  - Decreased savings
  - Smaller Contingency Factor
  - Different Savings Assumptions
  - Smaller Scope
  - Inclusion of D&D Costs
  - ROI ranged from 3 to 25 years

- **Examples from Sensitivity Studies**
  - 25% construction cost increase ⇒ ROI=14 yrs after construction
  - 30% lab space reduction/consolidation ⇒ ROI=<1yr after construction
    50% lab space reduction ⇒ ROI close to start of project
    D&D ⇒ ROI=10 yrs after construction

Base Case: ROI=6 years after completion of construction savings after 30 years (10 yrs following construction)

Stakeholder Space in Radiological Science Complex

Division/Office			Total Space (GSF)
AFC-PO			11,640
B			2,160
C			174,600
MSM			47,400
MST			210,400
N			155,000
NMT			24,000
Shared Vault			6,400
TOTALS			**631,600**

Executive Board Actions

1. Endorsement of Approach
   - Consolidate
   - Renovate
   - Get reinvested
2. Provide FY06 Funds to perform detailed feasibility study
3. A&E Scope and cost estimate
   - Rationalize the acquisition schedule
   - Complete NEPA for the site
4. Assemble IPT for OSTP Opportunity
   - Team formed
   - Action agenda TBD/ASAP

Back-Up Slides

Facilities Included in RSC Proposal

61	Yes	No
~~63~~ Separate Radiological Facilities (C, N, MST, and B-Divisions)		
Radiological Machining (MSM-Div)		
CMR Hot Cells (NMT)		
Secure Radiochemistry Facility		
Space Nuclear / Advanced Fuel Cycle Separations & Development		
ER Training, IAEA School		
Radiography (CAT I, HE & DU), TA-8		
Nuclear Waste Operations, TA-54		
Nuclear Waste Management, TA-50		
LANSCE		
DARHT		

Major Missions Conducted in Radiological Facilities

Mission/Activity
Radiation Sensor R&D
International Safeguards
Russian MPC&A
DTRA Defend-A-Base Prototypes
Homeland Security
DoS International Safeguards
WFO Safeguards Japanese Nuclear
Domestic Safeguards
Emergency Response
Support to NMT, C, and other Divisions
Shared Forest
TR R&D

Mission/Activity
Pit Nuclear and NonNuclear Manufacturing
Life Extension Programs
Enhanced Surveillance
Hydrodynamic Tests and Subcrits
Mock Pit Manufacturing & JTA
Significant Finding Investigations
Advanced Dev. & Production Technology
Internal Confinement Fusion
Misc Materials Projects
DTRA/Domestic Nuclear Event Attribution
Radiochemistry
ChemBio

Status / Summary

- **Initial Assessment of Facilities** - 61 of 81 facilities are seriously deteriorating and need replacement, or risk losing their missions in the near future.
- **Initial Business Case** – TPC with an ROI=6 yrs following construction. This is a conservative estimate, benchmarked internally and externally, including a 50% contingency, for a *1-for-1* replacement of existing facilities and existing missions.
- **Initial Security Analysis** - The planning has been well coordinated with the INP, Security, NMSSUP, and the CMRR project at TA-55.
- **Preliminary Siting** - The real estate has been assessed and there is sufficient room and necessary utility structures to meet requirements – although actual configuration of the complex remains highly notional at this time.
- **Space Consolidation** - A study is currently underway (including A/B) by an independent contractor to affirm the validity of consolidation opportunities.

An Integrated Effort

- **The Radiological Facilities Planning Team** — C, MST, and N Divisions — have been working together for the past 18 months, acknowledging the *economies-of-scale* though consolidation, sharing of labs and common spaces. These three Divisions are in agreement to continue working together, and are committed to the following:
  - *A collegial, non-parochial, cooperative approach*
  - *A future-oriented, shared vision for the three Divisions*
  - *Finding common ground for planned space and promoting space flexibility*

C-, MST-, and N-Division leadership personnel are in agreement for creating a new campus plan

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FAX TRANSMITTAL SHEET

DATE: 6/10/05

TO: Kirk Owens / SAIC

TO:

FAX #: (301) 353-8300

FROM: John Isaacson

MESSAGE:

As per our phone conversation today, here are the most recent versions of the Environmental Mitigation Requirements for MRSC

NUMBER OF PAGES INCLUDING COVER SHEET: 9

Environmental Mitigation Requirements for Preferred Alternatives

Overview/Summary
Overall, a dual consolidation has slightly less potential for environmental risks and associated mitigation costs and schedule delays when compared to complete consolidation at TA-48. Both alternatives were scored, based on standard criteria, to assess environmental impacts and associated costs. The lowest score is predicted to have a lower cost or less schedule delays for mitigation. The dual consolidation alternative scored a 13 compared to complete consolidation at TA-48 with a score of 18, based on each subject matter expert ranking the environmental risk reduction elements shown below. The information provided below describes more specific concerns, actions, and recommendations for each environmental element that corresponds with the scores on the scoring spreadsheet. Any potential environmental impacts should be coordinated with the proper environmental support organization to ensure more timely, and potentially less costly, mitigation as part of the planning, design, and construction phases. Scope changes will require a reassessment of impacts.
Land Use
Alternative A: Dual Consolidation at TA-48 and Two-Mile Mesa North
The activities currently performed at TA-48 are in the Pajarito Corridor West, as described in the Comprehensive Site Plan (CSP) 2000 (LA-UR 99-6704). Land use is categorized as Nuclear Materials R&D for the entire TA-48 area. Current TA-46 activities are identified in the CSP2000 within Experimental Science – these nonradiological activities would relocate to TA-58, Two-Mile Mesa North. C Division plans for consolidation at both TA-48 and Two-Mile Mesa North align with the CSP2000 and CSP2001 (LA-UR 01-1838). In addition, the plans align with the most recent version of the TYCSP. Proposed expansion to the west and east in TA-48 is within the scope of all the above mentioned institutional site plans. The expansion will replace current substandard facilities and allow for consolidation of current C Division functions, including R&D activities and supporting office/administrative, that improves space utilization and work efficiency. The additional land area that would be used for new buildings, parking, and other infrastructure is about 11 acres for TA-48 and about 1 acre for TA-58 (Two-Mile Mesa North). The split of functions at two locations will reduce fragmentation of activities, consolidate like activities, and separate non-related activities characteristic of the current locations. It will also provide more efficient space utilization.
Alternative B: Consolidation at TA-48
Consolidation of all C Division activities at TA-48 conflicts with institutional land use/site plans. TA-46 activities that are not nuclear R&D would compete for valuable land area needed for future development of nuclear R&D activities. The land area for complete consolidation of C Division at TA-48 will total approximately 23 acres, including existing buildings to remain. Complete consolidation at TA-48 could offer the most efficient space and land utilization through shared space and reduce potentially redundant resources.
Alternative C: Dual Consolidation at TA-48 and Two-Mile Mesa North
Current roadways could be used to get to C Division's new consolidation area on Two-Mile Mesa North. New roads within Two-Mile Mesa North would likely require mitigation of impacts to threatened and endangered species core and buffer habitat that would result from crossing canyons. Access to the Two-Mile Mesa North site would begin within TA-3 where Mercury Road runs across Two-Mile Canyon south of SM-31. Since this would essentially create a large cul-de-sac, another improved access from Anchor Ranch Road would be preferred. This would require access security controls to preclude vehicles from getting into TA-3 via Anchor Ranch Road. This site is not close to the Park and Ride station but can be accessed with KSL taxi service. New surface parking will be provided near new buildings in the Science Complex along the perimeter of the Science Complex campus. If possible, a parking structure is preferred over surface parking to minimize the amount of land disturbed at the site.

Alternative B: Consolidation at TA-48
Pajarito Road provides the only access to TA-48. Presently there are no access controls for vehicles arriving from Diamond Drive that affect this intersection. However, there are interim access controls on lower Pajarito Road near White Rock. Eventually there will be access controls at the Diamond and Jemez Drive intersection that will serve as access controls for TA-48, along with a permanent access control station on lower Pajarito Road. The road that connects TA-48 and TA-55 cannot be used as a secondary access, and therefore TA-48 is essentially a cul-de-sac. Intersection improvements would be warranted at the TA-48 and Pajarito Road intersection should density and vehicle trips increase. This site is not close to the Park and Ride station but can be accessed with KSL taxi service. New surface parking is planned along the perimeter of the new TA-48 campus to replace and expand existing parking lots that conflict with the new TA-48 campus layout.
Soils
Alternative A: Dual Consolidation at TA-48 and Two-Mile Mesa North
No problematic soil conditions are known to exist at the Two-Mile Mesa North site that would preclude the construction of new facilities. An assessment of the local soil conditions should be performed to verify that conditions are favorable for new construction.
Alternative B: Consolidation at TA-48
Problematic soil conditions are known to exist at the TA-48 site. A large potential release site encircles all of RC-1 and RC-45. Excavated soils from potential release sites should be returned to the excavated area after disturbance, when feasible, or they would have to be characterized and disposed of appropriately. An assessment of the local soil conditions should be performed to verify that conditions are favorable for demolition and construction activities and to identify what types of personal protection equipment would be required for working in this area.
Geology/Seismology
Alternative A: Dual Consolidation at TA-48 and Two-Mile Mesa North
A review of existing information on local geology at the Two-Mile Mesa North area indicates that there are no known geologic hazards in the immediate vicinity of this site. However, the entire TA-3 area (including Two-Mile Mesa) lies within the Pajarito Fault system. As such, the proposed Two-Mile Mesa North campus, as well as the rest of TA-3, is in an area of generally higher potential for seismic surface rupture, relative to locations farther removed from the Pajarito Fault system (Gardner et al., 2001). However, probabilistic analysis of 1 in 10,000 year seismic events suggests that significant seismic events are only expected to occur along, or on, the main trace of the Pajarito Fault (Gardner et al., 2001), which is sub-parallel to, and west of, Highway 501. A site-specific seismic hazards survey should be performed to determine if other faults exist at the site and what the potential for surface rupture is on any newly identified faults. Proposed building locations might need to be shifted to avoid faults. Facilities should be designed and constructed with this seismic hazard in mind.
Alternative B: Consolidation at TA-48
A review of existing information on local geology at the TA-48 site indicates that there are potential geologic hazards in the areas designated for redevelopment or new development. The TA-48 area lies approximately 0.4 mi southeast of the trace of the Rendija Canyon Fault zone that is associated with the Pajarito Fault system. As such, the proposed TA-48 area should be considered as having a generally higher potential for seismic surface rupture, relative to locations farther removed from the Pajarito Fault system (Gardner et al., 2001). However, probabilistic analysis of 1 in 10,000 year seismic events suggests that significant seismic events are only expected to occur along, or on, the main trace of the Pajarito Fault (Gardner et al., 2001) sub-parallel to, and west of, Highway 501 and not along the Rendija Canyon Fault. A site-specific seismic hazards survey should be performed to determine if other faults exist at the site and what the potential for surface rupture is on any newly identified faults. Proposed building locations might need to be shifted to avoid faults. Redevelopment along the north rim of the mesa should be set back a minimum of 100 to 200 ft (Reneau, 1995) from the mesa edge to ensure no structural damage to facilities due to mass wasting (mesa edge instability, cliff failure, cliff retreat, landslides, etc.). Facilities should be designed and constructed with these geohazards in mind.

Alternative A: Dual Consolidation at TA-48 and Two-Mile Mesa North
Construction at the Two-Mile Mesa North site should not have any major effects on water (ground or surface) resources. No floodplains, drainages, or wetlands exist at this site. The construction of parking lots, roads, and facilities will result in an increase in storm water run-off; the handling of which should be addressed in the planning stages. A storm water pollution prevention plan would be required for construction activities to satisfy Clean Water Act requirements.
Alternative B: Consolidation at TA-48
Construction at the TA-48 site should not have any major effects on water (ground or surface) resources. However, several small wetlands do exist at this site. A floodplain and wetlands assessment will be required if any construction or demolition activities affect the local wetlands (whether they are human-made or natural). Floodplain/wetland assessments must be published in the Federal Register. The construction of parking lots, roads, and facilities will result in an increase in storm water run-off; the handling of which should be addressed in the planning stages. A storm water pollution prevention plan would also be required for construction activities to satisfy Clean Water Act requirements.
Air Quality
Alternative A: Dual Consolidation at TA-48 and Two-Mile Mesa North
Two-Mile Mesa North - Relocating nonradioactive chemistry activities to new facilities at Two-Mile Mesa North would likely require a permit from the New Mexico Environment Department (NMED) under 20.2.72 NMAC (Construction Permits). The permit application would also need to address new sources of combustion (such as boilers and generators). The NMED permit could require operational limits (such as limiting throughput), monitoring, and more frequent or involved reporting. Costs are associated with preparing and filing the application and the process would typically take about six months. In addition, any demolition of older buildings [JCH1] would require a notification to NMED. TA-48 – Consolidating radioactive activities at TA-48 into existing buildings would not require preconstruction approval under 40 CFR 61 Subpart H (National Emission Standards for Hazardous Air Pollutants and Radiation). Relocating rad activities into new buildings would not require preconstruction approval either; however, LANL Air Quality specialists would need to reevaluate the stack monitoring requirements. In addition, constructing new buildings that would contain new combustion sources, such as boilers and generators, could require an NMED permit under 20.2.72 NMAC (Construction Permits). Costs are associated with preparing and filing the application and the process would typically take about six months. In addition, any demolition of older buildings would require a notification to NMED.
Alternative B: Consolidation at TA-48
Relocating nonradioactive chemistry activities to new facilities at TA-48 would likely require a permit from NMED. The permit application would also need to address new sources of combustion (such as boilers and generators). The NMED permit could require operational limits (such as limiting throughput), monitoring, and more frequent or involved reporting. Costs are associated with preparing and filing the application and the process would typically take about six months. Consolidating radioactive activities at TA-48 into existing buildings would not require preconstruction approval under 40 CFR 61 Subpart H (National Emission Standards for Hazardous Air Pollutants and Radiation). Relocating rad activities into new buildings would not require pre-construction approval either; however, LANL Air Quality specialists would need to reevaluate the stack monitoring requirements. In addition, constructing new buildings that would contain new combustion sources, such as boilers or generators, would require an NMED permit. Costs are associated with preparing and filing the application and the process would typically take about six months. Any demolition of older buildings would require a notification to NMED.

Human Health
Alternative A: Dual Consolidation at TA-48 and Two-Mile Mesa North
As with all industrial facilities (construction and operations), the potential exists for human health and facility safety issues, however, adherence to approved construction health and safety plans should prevent or mitigate any and all human health and facility safety hazards associated with the project. Quantities, forms, and containment of radiological and hazardous materials at the new facilities must be identified and compared to those at the current facilities.
Alternative B: Consolidation at TA-48
Radiochemistry operations under this alternative are assumed to be the same as under Alternative A. Identify quantities, forms, and containment of radiological and hazardous materials at the new facilities and contrast them to replaced facilities. Quantities, forms, and containment of radiological and hazardous materials at the new facilities must be identified and compared to those at the current facilities.
Socioeconomics
Alternative A: Dual Consolidation at TA-48 and Two-Mile Mesa North
There would be short-term economic benefits resulting from construction activities to build a consolidated C Division complex on Two-Mile Mesa North. The complex would be part of a $25M research park, and a $4M access road would be built to Two-Mile Mesa North that would generate jobs and have an indirect multiplier effect in the northern New Mexico economic region during the construction period. This helps UC/LANL meet requirements of the DOE Contract.
Alternative B: Consolidation at TA-48
There would be short-term economic benefits resulting from construction activities to build a consolidated C Division complex at TA-48. This consolidation effort would generate jobs and have an indirect multiplier effect in the northern New Mexico economic region during the construction period. This helps UC/LANL meet requirements of the DOE Contract.
Waste Management
Alternative A: Dual Consolidation at TA-48 and Two-Mile Mesa North
For the Two-Mile Mesa North area, regulated wastes from site development and facility construction and operations would be handled through existing waste management programs at LANL and carried out in accordance with applicable laws, regulations, and DOE Orders. No new or modifications to Resource Conservation and Recovery Act, Clean Water Act, or Clean Air Act permits would be expected for this site if LANL handles all wastes. If a third-party is responsible for waste management, new or modified permits may be required. Decontamination and demolition for TA-46 will require a waste characterization study. This study would identify the types and volumes of waste that would be generated by these activities. Hazardous wastes would be identified and removed from buildings scheduled for demolition before general structural demolition begins. Regulated wastes from decontamination and demolition would be handled through existing waste management programs at LANL and carried out in accordance with applicable laws, regulations, and DOE Orders.
Alternative B: Consolidation at TA-48
At TA-48, as part of the decontamination and demolition program, a waste characterization study would be required. This study would identify the types and volumes of waste that would be generated by these activities. Hazardous wastes would be identified and removed from buildings scheduled for demolition before general structural demolition begins. Regulated wastes from decontamination and demolition would be handled through existing waste management programs at LANL and carried out in accordance with applicable laws, regulations, and DOE Orders. No new or modifications to Resource Conservation and Recovery Act, Clean Water Act, or Clean Air Act permits would be expected for this site if LANL handles all wastes. If a third-party is responsible for waste management, new or modified permits may be required.

Environmental Restoration
Alternative A: Dual Consolidation at TA-48 and Two-Mile Mesa North
There are no known potential release sites at the Two-Mile Mesa North site.
Alternative B: Consolidation at TA-48
There are thirteen potential release sites at TA-48. Six of them have been recommended for No Further Action. However, for the remaining seven it will be necessary for LANL to characterize and define the contamination, the extent of the contamination, and finally, assess the seriousness of the contamination. If the contamination poses an unacceptable risk to the public or to LANL workers, the sites must be cleaned up. Samples should be taken where the proposed demolition/construction might disturb or bury known contamination. Samples would be taken with the intent of defining what areas contain Resource Conservation and Recovery Act contaminants, and consequently, if it is determined that the area must be excavated and the contaminants removed, the sampling would define the extent and establish the borders for the removal action.
Ecological and Natural Resources
Alternative A: Dual Consolidation at TA-48 and Two-Mile Mesa North
Two-Mile Mesa North: This site contains a protected area for the Mexican spotted owl. Certain limitations and restrictions would apply to construction and operational activities. Formal compliance actions under the Endangered Species Act would be required. However, facility construction and operations would likely be approved. Some restrictions and limitations may be imposed. TA-48: Biological resources concerns are not very extensive. There are wetlands in the area that need to be avoided. Contacting the Biological Resources Management Team is required in order for them to come out to the site and mark the wetlands that need to be avoided. Because there is a wetland near one of the newly proposed buildings, it would be a good idea to contact this team early in the planning phase to avoid placing a building on top of a wetland. There are no threatened or endangered species in the TA-48 area.
Alternative B: Consolidation at TA-48
TA-48: Biological resources concerns are not very extensive. There are wetlands in the area that need to be avoided. RRES-ECO would need to mark the boundaries of the wetlands that need to be avoided. Because there is a wetland near one of the proposed buildings, these boundaries should be identified early in the planning phase to avoid placing a building on top of a wetland. There are no threatened or endangered species in the TA-48 area.
Cultural Resources
Alternative A: Dual Consolidation at TA-48 and Two-Mile Mesa North
Two-Mile Mesa North: Although the immediate area does not have any known cultural resources, there is a gap in the surveyed coverage. This indicates that some of the area nearby would need to be surveyed to ensure that no cultural sites are present that could be damaged during construction. This would also be the case for roads and areas where construction vehicles might travel or be staged. If cultural resources are discovered and the resources could not be avoided, formal compliance actions would be required. However, facility construction and operations would likely be approved with certain conditions. Requirements for third-party owners might be less restrictive than for LANL. TA-48: Of the buildings marked for demolition, building RC-1 is an historical building. Before any demolition could begin on parts of this building, the Cultural Resources Management Team of RRES-ECO needs to be notified in order to have a Memorandum of Agreement signed by the State Historic Preservation Officer and any photographs taken for the historical record completed. To avoid delays, a cultural resources assessment should be incorporated in the planning phase as early as possible. Cultural resources reports and mitigation plans are subject to a 30-day review period in which the State Historic Preservation Officer has the opportunity to concur or not concur with the report's conclusions. There is also a prehistoric archeological site just south of the road across from building RC-1. If Mini RC-1 is to be built in this area, RRES-ECO would need to mark the site boundaries in order to prevent resource disturbance.

Alternative B: Consolidation at TA-48
TA-48: Of the buildings marked for demolition, building RC-1 is an historical building. Before any demolition could begin on parts of this building, the Cultural Resources Management Team of RRES-ECO needs to be notified in order to have a Memorandum of Agreement signed by the State Historic Preservation Officer, and any photographs taken for the historical record completed. To avoid delays, a cultural resources assessment should be incorporated in the planning phase as early as possible. There is also a prehistoric archeological site just south of the road across from building RC-1. If Mini RC-1 is to be built in this area, RRES-ECO would need to mark the site boundaries in order to prevent resource disturbance.
Noise
Alternative A: Dual Consolidation at TA-48 and Two-Mile Mesa North
Two-Mile Mesa North: This site is located in a relatively quiet area at LANL. Construction activities would generate increased, but temporary, noise. Operations would create less noise than construction but overall background levels would be higher than at present. No permits, approvals, or zoning issues would be in effect. If the third-party owner is subject to Los Alamos County zoning requirements, noise levels would be subject to the local noise ordinance.
Alternative B: Consolidation at TA-48
TA-48: This area is within the Pajarito Road corridor where overall background noise from traffic and industrial activities is high compared to areas like Two-Mile Mesa North. Construction activities would generate increased, but temporary, noise. Operations would create less noise than construction but would create higher background levels than current conditions. Traffic noise would increase with the higher worker population.
Visual Aesthetics
Alternative A: Dual Consolidation at TA-48 and Two-Mile Mesa North
Two-Mile Mesa North: This is an undeveloped site that contributes to the natural viewshed. Construction of new facilities could adversely affect this viewshed. Preservation of existing vegetation and use of building designs and colors that complement the natural environment would mitigate viewshed degradation. Limiting the height of new constructions would also reduce the impact. Specific design criteria may be required by NNSA.
Alternative B: Consolidation at TA-48
TA-48: This area is within the Pajarito Road corridor. The area is moderately developed and contains numerous industrial structures (many of which are temporary construction), security fences, and roads. Construction of new facilities within TA-48 would result in removal of a number of temporary structures and would generally improve the visual appearance of TA-48 by constructing new permanent buildings in compatible styles. Specific design criteria may be required by NNSA.
Facility Safety
Alternative A: Dual Consolidation at TA-48 and Two-Mile Mesa North
Analyses can be tiered from the LANL SWEIS and should include low-complexity assessments of risk to C-Division tenants at TA-48 from nearby nuclear facilities (CMR, TA-55) and simple estimates of risk associated with construction (including decontamination and demolition). Quantities, forms, and containment of radiological and hazardous materials at the new facilities must be identified and compared to those of the current facilities. Further safety analysis may be required.
Alternative B: Consolidation at TA-48
Analyses would be the same as for Alternative A. A larger uninvolved worker population would be located at TA-48. Quantities, forms, and containment of radiological and hazardous materials at the new facilities must be identified and compared to current facilities.
National Environmental Policy Act (NEPA)
Alternative A: Dual Consolidation at TA-48 and Two-Mile Mesa North
Two-Mile Mesa North and TA-48: Construction of new facilities and consolidation of activities are likely to require preparation of an Environmental Assessment. The proposed FSP is similar to DX and ESA plans. Both DX and ESA have completed Environmental Assessments covering new construction, remodeling, consolidation of activities, and vacating space over approximately a ten-year period, thus eliminating the need for project-by-project NEPA documentation.

Alternative B: Consolidation at TA-46
Construction of new facilities and consolidation of activities are likely to require preparation of an Environmental Assessment. The proposed FSP is similar to DX and ESA plans. Both DX and ESA have completed Environmental Assessments covering new construction, remodeling, consolidation of activities, and vacating space over approximately a ten-year period, thus eliminating the need for project-by-project NEPA documentation.

Attachment 12
MRSC

Los Alamos
NATIONAL LABORATORY
EST. 1943

memorandum

RADIATION PROTECTION SERVICES, HSR-12

To/MS: M. Shurter, ENV-ECO, M887
From/MS: C. Bullock, HSR-12, K483
Thru/MS: J. Hoffman, HSR-12, K483
Phone/Fax: 5-8133/7-9726
Symbol: HSR-12/05-41
Date: May 24, 2005
Subject: SWEIS Dose Data for Modern Radiological Science Complex

The Site Wide Environmental Impact Study is being updated. The following information was requested regarding the new Modern Radiological Science Complex (MRSC) that is being proposed in TA-48: doses to involved workers (by facility), average dose, maximum exposure, and number of badged radiation workers. This data was requested for each of the following activities:

- new facility operations,
- D&D of existing buildings,
- doses to workers involved in construction at the new site, and
- baseline information for existing facilities operations.

Attached is a report, which contains the dose data, associated with each of the facilities that are targeted to be consolidated into the MRSC. It was assumed that the new facility operations would not exceed current operations. Depending on the new facility layouts and consolidation of activities the doses may vary from the existing facilities. The data was pulled from 2003 as a representative year. There were 52 identified buildings in the original request, 42 of those buildings have monitored individuals. These have been highlighted. Buildings 3-35, 3-169,35-115, 35-347, 35-382, 18-141, 18-227, 18-256, 18-258, and 18-297 do not appear in the spreadsheet. Several comments need to be made about the attached report.

1. The LANL Dosimetry Program has been designed and implemented to protect the Laboratory worker. Exposure data is assigned to the individual worker, not a specific technical area or building. Therefore, the exposure data reported may or may not have been received at the assigned technical and building. The reported exposures were assigned to each technical area and building based upon the primary work location of the exposed individual. As an example, TA59, Buildings 32 and 34 (HSR-12 space), have individuals with an exposure assigned to these locations. It is highly unlikely that the exposure in fact occurred at this location, but more than likely occurred at another location during the conduct of fieldwork

2. In 2003, there were 10, 711 monitored individuals at the Laboratory. Of these monitored individuals, 9126 had recorded technical areas and buildings. Those without a recorded primary work location are most likely monitored visitors. These exposures are not assigned and reported. The total COUNT reported is 10, 624. The higher count results because a monitored individual may have one or more recorded technical areas. For example, if an individual changes jobs during the year, exposures will be reported for the individual's former location while the individual was there, and the new work location. If several jobs changes are made, several work locations could have assigned exposures.

Data for the D&D of the facilities are not available at this point in the project. Each facility will have to be characterized separately. The TA-48 site has not been adequately characterized to determine doses associated with construction activities.

Attachment A

ATTACHMENT A

TA	BLDG	COUNT	DEEP (mrem)	NEUTRON (mrem)	DDE (mrem)	MAX DDE (mrem)	AVG DDE (mrem)
0	199	9	0	0	0	0	0
0	480	33	0	0	0	0	0
0	548	20	0	0	0	0	0
0	727	19	43	0	43	21	2.3
0	760	1	0	0	0	0	0
0	762	6	11	0	11	11	1.8
0	764	23	21	4	25	21	1.1
0	766	3	0	0	0	0	0
0	767	7	0	3	3	3	0.4
0	769	55	0	79	79	70	1.4
0	772	2	0	0	0	0	0
0	1094	2	0	0	0	0	0
0	1096	8	12	0	12	12	1.5
0	1197	12	0	0	0	0	0
0	1237	108	238	112	350	100	3.2
0	1246	3	0	0	0	0	0
0	1308	13	172	14	186	142	14.3
0	1309	1	0	0	0	0	0
0	1313	5	38	0	38	17	7.6
0	1317	9	0	0	0	0	0
0	1325	7	0	0	0	0	0
0	1328	8	0	0	0	0	0
0	1329	1	0	0	0	0	0
0	1330	4	16	0	16	16	4
0	1331	17	0	0	0	0	0
0	1350	15	0	0	0	0	0
3	70	1	0	0	0	0	0
3	16	3	0	17	17	17	5.7
3	22	23	0	84	84	11	3.7
3	28	10	16	0	16	16	1.6
3	29	405	2727	805	3532	245	8.7
3	30	123	440	210	650	162	5.3
3	31	1	0	0	0	0	0
3	32	31	118	6	124	30	4
3	34	26	86	19	105	24	4
3	38	244	305	842	1147	90	4.7
3	39	107	239	35	274	29	2.6
3	40	100	155	0	155	34	1.6
3	41	21	0	0	0	0	0
3	43	229	146	113	259	44	1.1
3	66	129	914	275	1189	89	9.2
3	70	108	177	142	319	47	3
3	100	3	0	0	0	0	0
3	102	11	306	0	306	23	27.8
3	105	1	10	0	10	10	10
3	123	4	0	4	4	4	1
3	130	1	0	0	0	0	0
3	132	35	17	22	39	17	1.1

TA	BLDG	COUNT	DEEP (mrem)	NEUTRON (mrem)	DDE (mrem)	MAX DDE (mrem)	AVG DDE (mrem)
3	141	16	61	0	61	20	3.8
3	142	47	33	109	142	24	3
3	164	2	0	0	0	0	0
3	170	10	0	0	0	0	0
3	200	5	0	0	0	0	0
3	207	21	13	4	17	13	0.8
3	215	40	12	5	17	12	0.4
3	216	70	72	4	76	16	1.1
3	223	52	45	175	220	45	4.2
3	253	26	0	6	6	6	0.2
3	261	36	10	9	19	10	0.5
3	271	7	0	0	0	0	0
3	287	8	0	0	0	0	0
3	316	3	0	0	0	0	0
3	332	9	46	7	53	17	5.9
3	390	22	156	0	156	156	7.1
3	391	16	0	0	0	0	0
3	406	3	0	0	0	0	0
3	409	14	0	0	0	0	0
3	410	70	167	19	186	163	2.7
3	422	3	0	0	0	0	0
3	440	2	0	0	0	0	0
3	451	8	34	5	39	12	4.9
3	456	1	0	0	0	0	0
3	461	5	0	0	0	0	0
3	462	1	0	0	0	0	0
3	463	2	0	0	0	0	0
3	468	4	0	0	0	0	0
3	470	10	0	0	0	0	0
3	472	3	0	0	0	0	0
3	473	3	32	9	41	21	13.7
3	474	9	14	0	14	14	1.6
3	480	1	0	0	0	0	0
3	481	16	95	0	95	95	5.9
3	494	4	0	0	0	0	0
3	495	6	0	0	0	0	0
3	496	5	0	0	0	0	0
3	502	35	0	0	0	0	0
3	510	4	0	0	0	0	0
3	512	6	12	0	12	12	2
3	513	10	64	135	199	63	19.9
3	514	6	0	0	0	0	0
3	562	5	0	0	0	0	0
3	1353	10	0	7	7	7	0.7
3	1381	2	0	0	0	0	0
3	1405	7	0	0	0	0	0
3	1409	8	23	0	23	23	2.9
3	1415	2	0	0	0	0	0
3	1498	39	0	0	0	0	0

TA	BLDG	COUNT	DEEP (mrem)	NEUTRON (mrem)	DDE (mrem)	MAX DDE (mrem)	AVG DDE (mrem)
3	1516	3	0	0	0	0	0
3	1524	1	0	0	0	0	0
3	1525	6	12	0	12	12	2
3	1526	7	0	0	0	0	0
3	1530	1	0	0	0	0	0
3	1535	8	0	0	0	0	0
3	1539	4	41	135	176	73	44
3	1549	6	0	0	0	0	0
3	1552	1	0	0	0	0	0
3	1553	4	0	0	0	0	0
3	1565	7	0	0	0	0	0
3	1568	12	10	0	10	10	0.8
3	1572	3	0	0	0	0	0
3	1575	3	0	0	0	0	0
3	1586	4	0	0	0	0	0
3	1596	2	0	0	0	0	0
3	1612	6	0	0	0	0	0
3	1616	2	0	0	0	0	0
3	1635	6	0	0	0	0	0
3	1636	3	0	0	0	0	0
3	1651	2	0	0	0	0	0
3	1663	1	0	0	0	0	0
3	1690	1	0	0	0	0	0
3	1698	79	10	14	24	14	0.3
3	1699	1	0	0	0	0	0
3	1702	4	0	0	0	0	0
3	1731	3	0	0	0	0	0
3	1732	7	0	5	5	5	0.7
3	1734	1	0	0	0	0	0
3	1736	2	0	0	0	0	0
3	1738	1	0	0	0	0	0
3	1739	1	0	0	0	0	0
3	1741	4	0	0	0	0	0
3	1745	1	0	0	0	0	0
3	1746	2	0	0	0	0	0
3	1749	6	0	0	0	0	0
3	1750	27	11	88	99	56	3.7
3	1760	3	0	0	0	0	0
3	1761	2	0	0	0	0	0
3	1762	5	0	0	0	0	0
3	1790	5	0	0	0	0	0
3	1819	6	0	0	0	0	0
3	1887	6	33	0	33	13	5.5
3	1888	5	0	0	0	0	0
3	1898	2	0	0	0	0	0
3	1903	1	0	0	0	0	0
3	1911	1	0	0	0	0	0
3	1912	2	0	0	0	0	0
3	2003	5	0	0	0	0	0

TA	BLDG	COUNT	DEEP (mrem)	NEUTRON (mrem)	DDE (mrem)	MAX DDE (mrem)	AVG DDE (mrem)
3	2004	10	11	0	11	11	1.1
3	2005	3	0	0	0	0	0
3	2006	11	0	67	67	41	6.1
3	2007	9	25	12	37	20	4.1
3	2008	19	0	0	0	0	0
3	2009	4	0	0	0	0	0
3	2010	10	17	0	17	17	1.7
3	2239	5	0	0	0	0	0
3	2240	2	0	0	0	0	0
3	2322	106	33	17	50	22	0.5
3	2327	71	0	18	18	14	0.3
3	4200	18	0	0	0	0	0
6	8	1	0	0	0	0	0
8	20	1	0	0	0	0	0
8	21	60	83	245	328	298	5.5
8	22	21	605	84	689	71	32.8
8	70	16	543	60	603	71	37.7
9	20	2	0	0	0	0	0
9	21	21	106	7	113	67	5.4
9	28	3	0	0	0	0	0
9	29	5	0	0	0	0	0
9	214	23	16	8	24	16	1
9	272	7	0	0	0	0	0
9	273	11	24	0	24	14	2.2
11	24	7	0	0	0	0	0
15	8	1	0	0	0	0	0
15	20	3	44	0	44	44	14.7
15	40	48	32	0	32	12	0.7
15	183	54	108	0	108	17	2
15	185	7	0	0	0	0	0
15	186	4	0	0	0	0	0
15	280	6	0	0	0	0	0
15	285	8	0	0	0	0	0
15	305	21	0	0	0	0	0
15	306	4	209	177	386	73	96.5
15	310	1	0	0	0	0	0
15	312	18	18	0	13	13	0.7
15	313	20	34	0	34	13	1.7
15	446	20	0	29	29	17	1.5
15	456	5	0	0	0	0	0
15	464	1	10	0	10	10	10
15	468	4	0	0	0	0	0
15	476	1	0	0	0	0	0
15	484	36	16	0	16	16	0.4
15	494	50	12	0	12	12	0.2
15	563	1	0	0	0	0	0
16	7	4	0	0	0	0	0
16	16	17	0	0	0	0	0
16	54	9	22	0	22	12	2.4

TA	BLDG	COUNT	DEEP	NEUTRON	DDE	MAX DDE	AVG DDE
			(mrem)	(mrem)	(mrem)	(mrem)	(mrem)
16	180	1	0	0	0	0	0
16	193	10	0	0	0	0	0
16	195	8	0	47	47	47	5.9
16	200	142	94	161	255	151	1.8
16	202	51	52	0	52	16	1
16	204	48	99	4	103	103	2.1
16	205	4	10	0	10	10	2.5
16	207	24	192	5	197	146	8.2
16	218	78	11	5	16	11	0.2
16	242	4	0	0	0	0	0
16	243	44	14	0	14	14	0.3
16	244	9	31	0	31	31	3.4
16	245	50	13	9	22	13	0.4
16	246	19	26	0	26	26	1.4
16	260	6	0	0	0	0	0
16	280	3	0	0	0	0	0
16	304	1	0	0	0	0	0
16	306	2	0	0	0	0	0
16	328	3	0	0	0	0	0
16	329	9	214	7	221	196	24.6
16	332	2	37	0	37	14	18.5
16	410	10	138	0	138	26	13.8
16	430	2	0	0	0	0	0
16	450	1	332	0	332	289	332
16	460	1	0	0	0	0	0
16	660	1	0	0	0	0	0
16	661	4	0	0	0	0	0
16	824	45	61	0	61	33	1.4
16	897	9	14	5	19	19	2.1
16	900	12	0	0	0	0	0
16	901	6	0	0	0	0	0
16	933	71	0	18	18	14	0.3
16	946	3	0	0	0	0	0
16	969	2	0	0	0	0	0
16	1156	1	0	0	0	0	0
16	1407	5	0	0	0	0	0
18	1	2	0	12	12	5	6
18	28	5	39	130	169	26	33.8
18	30	187	1989	537	2526	271	13.5
18	127	5	0	31	31	7	6.2
18	129	12	32	13	45	22	3.8
18	147	8	487	65	552	175	69
18	257	12	11	51	62	11	5.2
18	288	3	68	29	97	49	32.3
18	300	12	747	534	1281	71	106.8
18	301	6	519	194	713	76	118.8
21	1	1	0	0	0	0	0
21	14	13	0	0	0	0	0
21	152	8	10	0	10	10	1.3

TA	BLDG	COUNT	DEEP (mrem)	NEUTRON (mrem)	DDE (mrem)	MAX DDE (mrem)	AVG DDE (mrem)
21	155	5	13	0	13	13	2.6
21	209	20	10	0	10	10	0.5
21	210	60	23	0	23	13	0.4
21	357	2	0	0	0	0	0
21	361	16	178	15	193	144	12.1
21	365	50	14884	4	14888	1316	297.8
21	489	2	116	0	116	53	58
21	1001	17	0	0	0	0	0
21	1002	14	67	0	67	29	4.8
22	5	8	0	0	0	0	0
22	34	5	0	0	0	0	0
22	52	1	0	0	0	0	0
22	90	26	10	0	10	10	0.4
22	91	15	41	0	41	29	2.7
22	93	12	40	0	40	15	3.3
33	19	1	0	0	0	0	0
33	114	36	55	0	55	26	1.5
33	168	2	10	5	15	10	7.5
33	280	1	0	14	14	14	14
35	1	2	0	0	0	0	0
35	2	91	153	442	595	35	6.5
35	27	158	402	106	508	196	3.2
35	68	15	0	11	11	6	0.7
35	85	10	0	0	0	0	0
35	86	15	0	0	0	0	0
35	87	70	459	0	459	285	6.6
35	110	2	0	0	0	0	0
35	114	1	0	0	0	0	0
35	124	2	0	0	0	0	0
35	125	13	27	0	27	15	2.1
35	126	1	0	0	0	0	0
35	127	17	49	27	76	26	4.5
35	186	19	105	102	207	36	10.9
35	189	8	0	0	0	0	0
35	213	47	36	0	36	22	0.8
35	224	4	0	0	0	0	0
35	239	5	0	0	0	0	0
35	242	1	0	0	0	0	0
35	248	2	0	0	0	0	0
35	251	3	0	0	0	0	0
35	253	6	0	0	0	0	0
35	254	3	0	0	0	0	0
35	255	9	0	0	0	0	0
35	256	4	0	0	0	0	0
35	258	1	0	0	0	0	0
35	261	4	0	0	0	0	0
35	262	6	0	0	0	0	0
35	263	6	0	0	0	0	0
35	268	1	0	0	0	0	0

TA	BLDG	COUNT	DEEP (mrem)	NEUTRON (mrem)	DDE (mrem)	MAX DDE (mrem)	AVG DDE (mrem)
35	269	1	0	0	0	0	0
35	270	2	0	0	0	0	0
35	301	1	0	0	0	0	0
35	421	5	0	0	0	0	0
36	1	17	13	62	75	36	4.4
36	3	4	0	7	7	7	1.8
36	6	4	0	4	4	4	1
36	8	4	13	4	17	13	4.3
36	12	1	0	0	0	0	0
36	80	1	0	0	0	0	0
36	210	6	10	16	26	10	4.3
36	214	2	0	109	109	22	54.5
39	2	10	161	0	161	141	16.1
39	62	1	0	0	0	0	0
39	69	1	22	0	22	12	22
39	107	2	0	0	0	0	0
40	1	11	10	15	25	10	2.3
40	23	18	22	24	46	11	2.6
40	90	5	0	0	0	0	0
41	30	1	0	0	0	0	0
43	1	47	65	11	76	16	1.6
43	20	1	0	0	0	0	0
43	24	1	0	0	0	0	0
43	39	42	64	21	85	51	2
46	1	44	115	153	268	28	6.1
46	24	39	45	20	65	12	1.7
46	25	5	44	170	214	66	42.8
46	30	1	0	0	0	0	0
46	31	8	0	0	0	0	0
46	41	4	0	0	0	0	0
46	42	17	222	5	227	115	13.4
46	76	6	0	0	0	0	0
46	119	11	0	0	0	0	0
46	120	13	0	5	5	5	0.4
46	128	2	0	0	0	0	0
46	154	4	0	0	0	0	0
46	158	1	0	0	0	0	0
46	165	7	11	5	16	11	2.3
46	178	6	0	12	12	7	2
46	179	4	65	0	65	65	16.3
46	180	2	0	0	0	0	0
46	181	2	0	0	0	0	0
46	182	4	0	0	0	0	0
46	185	3	0	0	0	0	0
46	187	3	19	0	19	19	6.3
46	188	6	0	0	0	0	0
46	194	22	25	0	25	14	1.1
46	195	5	0	0	0	0	0
46	200	6	10	8	18	10	3

TA	BLDG	COUNT	DEEP (mrem)	NEUTRON (mrem)	DDE (mrem)	MAX DDE (mrem)	AVG DDE (mrem)
46	201	5	0	0	0	0	0
46	217	6	49	0	49	27	8.2
46	218	1	0	0	0	0	0
46	231	10	528	1151	1679	170	167.9
46	232	3	0	0	0	0	0
46	234	14	21	54	75	33	5.4
46	250	3	21	0	21	11	7
46	254	1	0	0	0	0	0
46	314	1	11	22	33	27	33
46	326	22	0	0	0	0	0
46	333	24	0	0	0	0	0
46	534	8	0	0	0	0	0
46	535	39	142	6	148	77	3.8
48	1	190	581	24	605	86	3.2
48	2	3	16	0	16	16	5.3
48	8	2	0	0	0	0	0
48	17	3	0	0	0	0	0
48	26	3	0	0	0	0	0
48	27	3	493	0	493	42	164.3
48	28	8	0	0	0	0	0
48	29	5	20	0	20	20	4
48	31	2	0	0	0	0	0
48	33	1	59	0	59	17	59
48	34	14	0	0	0	0	0
48	45	9	0	0	0	0	0
48	46	13	0	0	0	0	0
48	47	6	0	5	5	5	0.8
48	56	2	0	0	0	0	0
48	57	1	0	0	0	0	0
48	107	6	26	0	26	16	4.3
48	149	8	0	0	0	0	0
48	154	10	26	29	55	18	5.5
48	203	1	0	0	0	0	0
48	208	23	16	5	21	16	0.9
48	213	2	0	0	0	0	0
48	214	3	0	0	0	0	0
49	113	1	0	0	0	0	0
50	1	76	71	10	81	20	1.1
50	37	30	49	16	65	17	2.2
50	54	6	0	0	0	0	0
50	84	18	629	85	714	76	39.7
50	196	5	351	78	429	47	85.8
51	11	1	0	0	0	0	0
51	12	1	0	0	0	0	0
51	25	5	0	0	0	0	0
51	26	5	0	0	0	0	0
51	27	9	0	0	0	0	0
51	80	1	0	0	0	0	0
51	81	1	0	4	4	4	4

TA	BLDG	COUNT	DEEP (mrem)	NEUTRON (mrem)	DDE (mrem)	MAX DDE (mrem)	AVG DDE (mrem)
51	103	8	0	0	0	0	0
52	1	7	24	0	24	12	3.4
52	33	5	0	4	4	4	0.8
52	35	9	0	0	0	0	0
52	36	26	119	249	368	93	14.2
52	42	1	0	0	0	0	0
52	43	3	0	0	0	0	0
52	44	7	0	0	0	0	0
52	45	5	0	0	0	0	0
52	114	4	0	14	14	7	3.5
52	115	6	0	0	0	0	0
52	116	1	0	0	0	0	0
53	1	287	995	557	1552	303	5.4
53	2	14	539	4	543	78	38.8
53	3	24	1972	20	1992	234	83
53	4	54	651	109	760	93	14.1
53	6	128	1956	37	1993	187	15.6
53	14	2	0	0	0	0	0
53	16	3	11	13	24	18	8
53	17	5	36	0	36	25	7.2
53	18	24	501	0	501	54	20.9
53	19	4	140	0	140	140	35
53	23	12	22	0	22	12	1.8
53	24	42	11	67	78	22	1.9
53	25	15	789	0	789	198	52.6
53	26	20	44	0	44	23	2.2
53	31	157	235	422	657	58	4.2
53	39	3	12	5	17	12	5.7
53	44	2	10	0	10	10	5
53	45	2	0	0	0	0	0
53	46	5	0	32	32	32	6.4
53	47	6	263	0	263	263	43.8
53	365	25	21	0	21	11	0.8
53	394	17	781	100	881	49	51.8
53	395	11	580	143	723	48	65.7
53	396	10	0	7	7	7	0.7
53	397	6	0	30	30	16	5
53	398	7	0	0	0	0	0
53	399	9	155	46	201	45	22.3
53	401	2	0	0	0	0	0
53	402	4	0	0	0	0	0
53	403	3	0	0	0	0	0
53	404	2	64	0	64	24	32
53	405	5	10	0	10	10	2
53	406	5	144	36	180	49	36
53	407	4	22	50	72	24	18
53	408	5	28	0	28	14	5.6
53	409	17	99	0	99	84	5.8
53	525	4	475	37	512	88	128

TA	BLDG	COUNT	DEEP (mrem)	NEUTRON (mrem)	DDE (mrem)	MAX DDE (mrem)	AVG DDE (mrem)
53	526	3	0	0	0	0	0
53	527	1	0	0	0	0	0
53	544	1	0	0	0	0	0
53	570	3	11	0	11	11	3.7
53	622	105	542	1344	1886	117	18
53	675	9	67	0	67	22	7.4
53	882	27	169	177	346	53	12.8
53	886	7	25	5	30	15	4.3
53	898	9	0	29	29	29	3.2
54	11	10	177	260	437	80	43.7
54	22	4	0	0	0	0	0
54	34	18	226	160	386	49	21.4
54	37	5	0	0	0	0	0
54	38	21	403	147	550	210	26.2
54	51	8	545	6	551	480	68.9
54	60	3	0	0	0	0	0
54	64	19	80	0	80	70	4.2
54	111	3	138	101	239	52	79.7
54	117	1	0	0	0	0	0
54	156	3	124	131	255	55	85
54	185	9	33	38	71	71	7.9
54	210	3	12	20	32	16	10.7
54	211	5	0	5	5	5	1
54	242	1	12	21	33	17	33
54	244	14	0	38	38	31	2.7
54	245	42	84	122	206	38	4.9
54	246	15	0	12	12	7	0.8
54	247	4	13	20	33	20	8.3
54	288	46	1417	745	2162	147	47
54	290	3	0	0	0	0	0
54	306	1	0	12	12	6	12
54	314	1	0	0	0	0	0
54	315	15	627	438	1065	85	71
54	325	11	190	239	429	56	39
54	372	10	1647	998	2645	87	264.5
54	413	4	10	5	15	15	3.8
54	434	10	36	30	66	66	6.6
54	455	5	0	68	68	11	13.6
54	1001	1	0	0	0	0	0
54	1005	3	0	0	0	0	0
54	1014	18	804	120	924	59	51.3
54	1050	20	0	10	10	10	0.5
54	1051	1	0	0	0	0	0
54	1058	1	0	0	0	0	0
55	1	122	773	2723	3496	118	28.7
55	2	198	2705	1826	4531	193	22.9
55	3	135	6239	10841	17080	373	126.5
55	4	142	24236	24303	48539	304	341.8
55	5	49	1087	1466	2553	89	52.1

TA	BLDG	COUNT	DEEP (mrem)	NEUTRON (mrem)	DDE (mrem)	MAX DDE (mrem)	AVG DDE (mrem)
55	20	7	0	6	6	6	0.9
55	28	61	759	308	1067	78	17.5
55	39	46	2193	1769	3962	118	86.1
55	41	39	945	2616	3561	160	91.3
55	42	117	1835	7223	9058	224	77.4
55	66	163	3511	11316	14827	522	91
55	107	4	31	49	80	19	20
55	110	1	0	0	0	0	0
55	114	148	4578	4493	9071	317	61.3
55	136	1	0	4	4	4	4
55	139	4	14	0	14	14	3.5
55	144	1	0	0	0	0	0
55	145	1	0	0	0	0	0
55	177	1	0	0	0	0	0
55	264	12	0	0	0	0	0
55	313	58	617	1096	1713	132	29.5
59	1	127	65	158	223	32	1.8
59	2	15	38	0	38	14	2.5
59	3	41	38	0	38	15	0.9
59	30	6	0	6	6	6	1
59	31	10	0	39	39	39	3.9
59	32	11	15	0	15	15	1.4
59	33	8	0	0	0	0	0
59	34	5	0	7	7	7	1.4
59	35	2	0	0	0	0	0
59	36	8	0	0	0	0	0
59	37	10	0	6	6	6	0.6
59	53	12	0	0	0	0	0
59	96	14	0	0	0	0	0
59	97	3	0	0	0	0	0
59	116	8	0	0	0	0	0
59	117	6	0	0	0	0	0
59	118	1	0	0	0	0	0
59	119	3	0	0	0	0	0
59	123	1	0	0	0	0	0
60	1	25	0	25	25	18	1
60	2	34	0	0	0	0	0
60	91	32	0	0	0	0	0
60	175	44	10	0	10	10	0.2
60	211	3	0	0	0	0	0
61	23	26	64	446	510	47	19.6
63	1	4	0	0	0	0	0
63	2	5	447	0	447	339	89.4
63	3	2	0	0	0	0	0
63	4	99	177	466	643	98	6.5
63	52	5	0	0	0	0	0
63	53	2	0	0	0	0	0
63	54	1	0	0	0	0	0
63	77	10	11	86	97	35	9.7

TA	BLDG	COUNT	DEEP (mrem)	NEUTRON (mrem)	DDE (mrem)	MAX DDE (mrem)	AVG DDE (mrem)
63	78	1	0	0	0	0	0
63	93	2	13	0	13	13	6.5
63	105	2	0	0	0	0	0
63	106	4	0	0	0	0	0
63	113	4	0	9	9	5	2.3
63	114	5	0	0	0	0	0
63	115	8	186	440	626	170	78.3
64	1	516	89	1250	1339	26	2.6
64	28	16	0	47	47	10	2.9
64	39	32	30	9	39	30	1.2
64	58	1	0	0	0	0	0
64	64	5	0	0	0	0	0
66	1	8	10	0	10	10	1.3
69	2	8	0	0	0	0	0
69	33	10	0	0	0	0	0
73	4	2	0	0	0	0	0
73	19	1	0	0	0	0	0

Attachment 13 MRS

D&D Cost Estimates for Radiological Science Complex

The basis for my D&D cost estimates were 4 contractor bids to D&D LANL buildings:

TA 16-540 Steamplant $130 per sq. ft. (Asbestos and Metal)
TA 03-409 Transportable $22 per sq. ft. (Clean)
TA 21-01 & 21 Office/Vault $91 per sq. ft. (Block some Asbestos)
TA 03 MST North Trailers $26.00 per sq. ft. Clean

Rough estimates to D&D the HRL building (block with some contamination and hazardous materials) of $24 M (based on TA-18 per sq ft. D&D estimates) to $60 M (based on a FWO-CFS estimate for heavy lab space)

The D&D costs were based on contractor bids to D&D LANL buildings. The buildings that are proposed to be completely vacated were divided into 2 categories; permanent buildings and transportables/trailers. The contractor costs were $24 per square foot for transportables/trailers and $110 per square foot for permanent buildings. These were the median costs of the actual bids for LANL building D&D. For buildings with radioactive contamination the cost was $180 per square foot, which was based on the median estimate to D&D the HRL building. If the contamination was low a median value of $145 per square foot was used. These contractor bid costs were increased by 43% (38% LANL G&A charge + 5% for LANL project management). The D&D costs were further increased by 25% if the buildings were at TA-3 and 50% if the buildings were not at TA-3. This was to account for the costs of utility removal and land restoration.

18-129	Reactor Sub-Assay Bldg.	MB10 CONCRETE FRAME WITH INFILL SHEAR WALLS	permanent	724 NUCLEAR PHYSICS LABORATORY	724 NUCLEAR PHYSICS LABORATORY	6,570	5,846	10
18-141	ULTRA-SONIC CLEANING BLDG	MB13 REINFORCE MASN BEAR WALLS/WOOD,METL DECK DPHM	permanent	694 OTHER SERVICE BUILDINGS	724 NUCLEAR PHYSICS LABORATORY	963	815	NA
18-147	OFFICE BLDG	MB07 STEEL FRAME WITH INFILL SHEAR WALLS	permanent	101 OFFICE	101 OFFICE	1,298	939	6
18-227	ACCELERATOR DEV LAB	MB06 STEEL FRAME WITH CONCRETE SHEAR WALLS	permanent	785 ACCELERATOR BUILDING	785 ACCELERATOR BUILDING	2,838	2,319	NA
18-256	BUTLER BLDG	MB16 OTHER-DESC BRIEF IN COMMENTS FIELD/SUPP DOC	other	759 OTHER MATERIALS R&D TEST BUILDINGS	723 APPLIED PHYSICS LABORATORY	920	890	NA
18-257	TRAILER PO 9288Z		other			1,440	1,178	9
18-258	TRAILER PO 8797R		other			1,440	1,273	NA
18-288	TRAILER		trailer			840	743	1
18-297	STORAGE BLDG		permanent	400 GENERAL STORAGE	400 GENERAL STORAGE	874	840	NA
18-300	STORAGE BLDG		trailer			1,662	1,297	NA
18-301			trailer			1,110	631	NA
3-102	TECH SHOPS ADDITION	MB10 CONCRETE FRAME WITH INFILL SHEAR WALLS	permanent	521 URANIUM ENRICHMENT (DIFFUSION)	411 NUCLEAR CONTAMINATED STORAGE	29,365	22,735	NA

3-1524	LABORATORY & OFFICE BLDG	MB09 CONCRETE SHEAR WALLS	trailer	793 MULTIFUNCTION RESEARCH/LAB BUILDING	792 LABORATORIES, GENERAL (NUCLEAR)	711	642	2
3-1525	Trailer		trailer			711	642	5
35-2	LABORATORY & OFFICE BLDG	MB09 CONCRETE SHEAR WALLS	permanent	793 MULTIFUNCTION RESEARCH/LAB BUILDING	792 LABORATORIES, GENERAL (NUCLEAR)	83,734	50,741	93
35-27	NUCLEAR SAFEGUARD	MB07 STEEL FRAME WITH INFILL SHEAR WALLS	permanent	709 OTHER SUPPORT LABS	792 LABORATORIES, GENERAL (NUCLEAR)	42,069	21,636	72
35-115	SOLVENT STORAGE SHED	MB01 WOOD, LIGHT FRAME	permanent	410 HAZARDOUS/FLAMMABLE STORAGE	410 HAZARDOUS/FLAMMABLE STORAGE	137	129	NA
35-239	Trailer		trailer			588	546	2
35-253	transportable		transportable			1,440	1,068	5
35-261	trailer		trailer			720	672	5
35-262	trailer		trailer			720	672	6
35-263	trailer		trailer			720	672	6
35-347	Garage	MB03 STEEL MOMENT FRAME	permanent	400 GENERAL STORAGE	400 GENERAL STORAGE	314	296	NA
35-382	Trailer		trailer			732	679	NA
18-1	Staging Area	MB01 WOOD, LIGHT FRAME	permanent	541 FABRICATION FACILITY	541 FABRICATION FACILITY	1,051	807	1
18-28	Warehouse	MB04 STEEL BRACED FRAME	permanent	401 PROGRAMMATIC GENERAL STORAGE	401 PROGRAMMATIC GENERAL STORAGE	4,782	4,695	3
18-30	MAIN BLDG		permanent	703 APPLIED SCIENCE LABORATORY	101 OFFICE	23,137	16,272	222

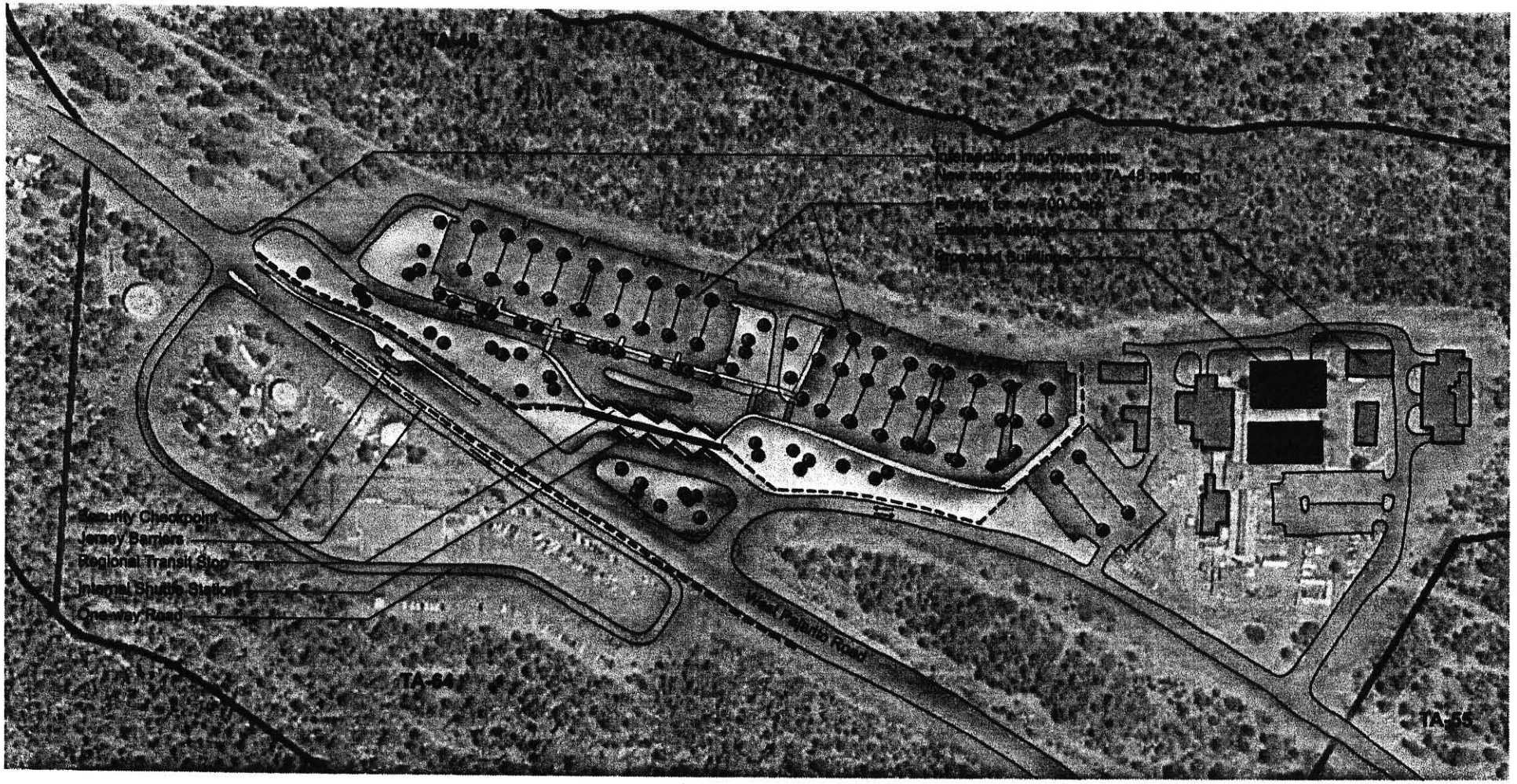
48-33			transportable			288	253	3
48-34			transportable			3,382	2,678	27
48-46			transportable			1,695	1,448	15
48-47			transportable			1,695	1,237	9
48-149			trailer			727	509	7
48-154			trailer			1,454	998	8
48-208			transportable			2,514	2,268	15
48-214			transportable			1,431	944	5
59-1	OCCUPATIONAL HEALTH LAB	MB10 CONCRETE FRAME WITH INFILL SHEAR WALLS	permanent	769 OTHER ENVIRONMENTAL R&D TEST BUILDINGS	765 RADIATION EFFECTS LABORATORY	53,901	31,499	184
3-29	CMR LABORATORY	MB08 CONCRETE MOMENT FRAME	permanent	792 LABORATORIES, GENERAL (NUCLEAR)	724 NUCLEAR PHYSICS LABORATORY	42,380	204,383	339
3-35	PRESS BLDG	MB09 CONCRETE SHEAR WALLS	permanent	551 ASSEMBLY FACILITIES	792 LABORATORIES, GENERAL (NUCLEAR)	15,713	6,532	NA
3-169	WAREHOUSE	MB05 STEEL LIGHT FRAME	permanent	400 GENERAL STORAGE	400 GENERAL STORAGE	6,252	6,066	125
3-66	SIGMA BLDG	MB10 CONCRETE FRAME WITH INFILL SHEAR WALLS	permanent	611 MACHINE SHOPS	792 LABORATORIES, GENERAL (NUCLEAR)	191,489	118,735	125
3-451	MICRO MACHINING FACILITY	MB05 STEEL LIGHT FRAME	permanent	729 OTHER PHYSICS LABORATORY	729 OTHER PHYSICS LABORATORY	1,666	1,303	8

Existing Facility Background Information -
MRSC Project facilities to be vacated are included

Attachment 15

TA/Building	Name	Type/Const.	Type	Historic	Current	Ext. Gross	Int. Gross	Population
46-24	LABORATORY & OFFICE BLDG	MB10 CONCRETE FRAME WITH INFILL SHEAR WALLS	permanent	694 OTHER SERVICE BUILDINGS	722 OPTICS LABORATORIES	24,160	17,035	48
46-31	TEST BLDG #2	MB10 CONCRETE FRAME WITH INFILL SHEAR WALLS	permanent	694 OTHER SERVICE BUILDINGS	722 OPTICS LABORATORIES	25,534	20,034	10
46-158	LASER INDUCED CHEMISTRY LAB	MB05 STEEL LIGHT FRAME	permanent	722 OPTICS LABORATORIES	722 OPTICS LABORATORIES	5,854	4,307	1
46-200	CHEM/LASER LAB	MB05 STEEL LIGHT FRAME	permanent	719 OTHER CHEMISTRY LABORATORY	719 OTHER CHEMISTRY LABORATORY	3,509	2,382	3
46-250	ANALYTICAL CHEMISTRY	MB05 STEEL LIGHT FRAME	permanent	711 CHEMISTRY LABORATORY (NON-NUCLEAR)	711 CHEMISTRY LABORATORY (NON-NUCLEAR)	4,244	2,875	7
48-1	Isotope Separator Bldg.	MB03 Steel Moment Frame	permanent	712 Chemical Labopratory (Nuclear)	712 Chemical Labopratory (Nuclear)	105,836	50,703	149
48-8	Isotope Separator Bldg.	MB05 STEEL LIGHT FRAME	permanent	712 Chemical Labopratory (Nuclear)	611 Machine Shops	4,061	3,738	2
48-17	Assembly Checkout Buidling	MB05 STEEL LIGHT FRAME	permanent	551 ASSEMBLY FACILITIES	551 ASSEMBLY FACILITIES	1,570	1,319	3
48-26	Office Building	MB01 WOOD, LIGHT FRAME	permanent	101 OFFICE	101 OFFICE	293	254	2
48-27			transportable			288	253	3
48-29			transportable			3,360	2,627	15

Attachment 16 MRSC



Attachment 17 MRSC

LA-UR-00-2338

1999 Radioactive Materials Usage Survey for Point Sources

Author(s): **Susan D. Terp**

Contributor(s): **Richard W. Sturgeon**
Keith W. Jacobson
Robert W. Keys

PBT

LA-UR-02-2524

Approved for public release; distribution is unlimited.

Title: 2001 Radioactive Materials Usage Survey for Point Sources

Author(s): Susan D. Terp
Richard W. Sturgeon
David P. Fuehne

Submitted to: RRES-MAQ Records

Los Alamos
NATIONAL LABORATORY

Form 836 (8/00)

LA-UR-03-2793

Approved for public release; distribution is unlimited.

Title: 2002 RADIOACTIVE MATERIALS USAGE SURVEY FOR POINT SOURCES

Author(s): Richard W. Sturgeon
Susan D. Terp
David P. Fuehne

Submitted to: RRES-MAQ Records

LA-UR-04-4040

Approved for public release; distribution is unlimited.

Title: 2003 Radioactive Materials Usage Survey for Unmonitored Point Sources

Author(s): Sturgeon, Richard W.
Terp, Susan D.
Fuehne, David P.

Submitted to: RRES-MAQ Files

3.4 • bullet
Data Call

ENV-MAQ

Radioactive Materials Usage Survey Interview Form

Survey Year:	TA:	Building:	FMU:	Facility Status:	Facility Description:
1999	46	0024	66	Active	Laboratory & Office Building

ES ID #	Room	Source Type	RAM	Inventory (Ci) (Numeric)	Inventory (Ci) (Text)	Inventory Basis	Usage (Ci)	Usage Basis	Physical state	Primary Containment	Proc #
46002499	B30	P	U-en	1.89E-04		'96 inventory	1.89E-04	'96 inventory	Particulate	Duct	1

TA
Bldg.
Extract Stack #
Active Source that can be emitted from the stack.
Storage vs Usage
Source Term
Based on 40 CFR 61 h Rad NESHAP

Radioactive Materials Survey Interview Form

Survey Year:	TA:	Building:	Facility Status:	Monitored?	Facility Critical Receptor:
2003	46	0031	Active	☐	Business on DP Road - Nearest Offsite Facility

ES ID #	Room	Proc #	Source Type	RAM	Usage (Ci)	Usage Basis	Physical state	Reduction Factor	Emission (Ci)	mrem/Ci	PEDE
46003100	128	1	P	D-38	1.31E-06	User Estimate	Solid	1.00E-06	1.31E-12	1.18E+01	1.55E-11
46003100	Ducts	2	P	U-en	1.67E-04	'96 Inventory	Particulate	1.00E-03	1.67E-07	1.29E+01	2.15E-06
46003100	Multiple	3	P	D-38	4.38E-10	User Estimate	Gaseous	1.00E+00	4.38E-10	1.18E+01	5.17E-09

Regulation Based Factor

Potential Emissions

Dose Factor

↑ Dose to nearest offsite facility

Total PEDE (mrem/year) this interview form: 2.16E-06

1999	46	0158	66	Active	Laser Induced Chemistry Lab

46015899	107	F	Various	3.30E-04		Spreadsheet	0.00E+00	No Usage	Solid	Bottles	0
46015899	107	P	D-38	1.25E-05		Spreadsheet	1.25E-05	Spreadsheet	Liquid	Bottle	1
46015899	107	P	Th-232	2.60E-06		Spreadsheet	2.60E-06	Spreadsheet	Liquid	Bottle	1
46015899	107	P	U-nat	2.60E-06		Spreadsheet	2.60E-06	Spreadsheet	Liquid	Bottle	1

Radioactive Material[illegible] Survey Interview Form

Survey Year:	TA:	Building:	Facility Status:	Monitored?	Facility Critical Receptor:
2003	46	0200	Active	☐	Business on DP Road

ES ID #	Room	Proc #	Source Type	RAM	Usage (Ci)	Usage Basis	Physical state	Reduction Factor	Emission (Ci)	mrem/Ci	PEDE
46020099	119	1	P	D-38	4.38E-06	Process Knowledge	Solid	1.00E-06	4.38E-12	1.48E+01	6.48E-11
46020099	110	2	P	D-38	4.38E-06	Process Knowledge	Liquid	1.00E-03	4.38E-09	1.48E+01	6.48E-08

Total PEDE (mrem/year) this interview form: 6.49E-08

Printed on 06/10/2004

Radioactive Materials Usage Survey Interview Form

Survey Year:	TA:	Building:	FMU:	Facility Status:	Facility Description:	Facility Critical Receptor:
2001	48	0001	66	Active	Research Laboratory	Residence at Royal Crest

ES ID #	Room	Proc #	Source Type	RAM	Usage (Ci)	Usage Basis	Physical state	Reduction Factor	Emission (Ci)	mrem/Ci	PEDE
48000107	Hot Cell	1	P	Ag-108m	2.93E-04	Log Book	Gaseous	1.00E+00	2.93E-04	1.24E+02	3.63E-02
48000107	Hot Cell	1	P	Ag-110m	6.23E-03	Log Book	Gaseous	1.00E+00	6.23E-03	7.88E-01	4.91E-03
48000107	Hot Cell	1	P	Al-26	3.12E-07	Log Book	Gaseous	1.00E+00	3.12E-07	1.83E+02	5.71E-05
48000107	Hot Cell	1	P	As-73	5.90E-02	Log Book	Gaseous	1.00E+00	5.90E-02	8.00E-02	4.72E-03
48000107	Hot Cell	1	P	Ba-133	6.09E-03	Log Book	Gaseous	1.00E+00	6.09E-03	9.88E-01	6.02E-03
48000107	Hot Cell	1	P	Be-10	8.45E-05	Log Book	Gaseous	1.00E+00	8.45E-05	5.50E-01	4.65E-05
48000107	Hot Cell	1	P	Be-7	2.00E-03	Log Book	Gaseous	1.00E+00	2.00E-03	3.30E-03	6.60E-06
48000107	Hot Cell	1	P	Cd-109	7.25E-01	Log Book	Gaseous	1.00E+00	7.25E-01	1.49E+00	1.08E+00
48000107	Hot Cell	1	P	Co-56	3.00E-01	Log Book	Gaseous	1.00E+00	3.00E-01	4.89E+00	1.47E+00
48000107	Hot Cell	1	P	Co-57	5.92E-01	Log Book	Gaseous	1.00E+00	5.92E-01	4.78E-02	2.83E-02
48000107	Hot Cell	1	P	Co-58	8.00E-01	Log Book	Gaseous	1.00E+00	8.00E-01	8.58E-02	6.86E-02
48000107	Hot Cell	1	P	Co-60	1.00E-02	Log Book	Gaseous	1.00E+00	1.00E-02	3.95E+00	3.95E-02
48000107	Hot Cell	1	P	Cr-51	2.00E-01	Log Book	Gaseous	1.00E+00	2.00E-01	1.30E-03	2.60E-04
48000107	Hot Cell	1	P	Cs-134	1.96E-01	Log Book	Gaseous	1.00E+00	1.96E-01	1.29E+00	2.53E-01
48000107	Hot Cell	1	P	Cs-137	2.32E-01	Log Book	Gaseous	1.00E+00	2.32E-01	2.92E+00	6.77E-01
48000107	Hot Cell	1	P	Eu-152	2.34E-02	Log Book	Gaseous	1.00E+00	2.34E-02	3.05E+00	7.14E-02
48000107	Hot Cell	1	P	Fe-55	3.00E-03	Log Book	Gaseous	1.00E+00	3.00E-03	1.34E-03	4.02E-06
48000107	Hot Cell	1	P	Ga-68	4.80E+00	Log Book	Gaseous	1.00E+00	4.80E+00	9.01E-04	4.32E-03
48000107	Hot Cell	1	P	Ge-68	4.80E+00	Log Book	Gaseous	1.00E+00	4.80E+00	4.40E+00	2.11E+01
48000107	Hot Cell	1	P	Hf-172	1.38E-02	Log Book	Gaseous	1.00E+00	1.38E-02	3.85E-01	5.31E-03
48000107	Hot Cell	1	P	Hg-194	8.99E-05	Log Book	Gaseous	1.00E+00	8.99E-05	6.38E+01	5.74E-03
48000107	Hot Cell	1	P	In-111	1.00E-01	Log Book	Gaseous	1.00E+00	1.00E-01	2.44E-02	2.44E-03
48000107	Hot Cell	1	P	In-113m	5.40E-05	Log Book	Gaseous	1.00E+00	5.40E-05	3.32E-04	1.79E-08

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BT

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48000107	Hot Cell	1	P	Lu-172	1.38E-02	Log Book	Gaseous	1.00E+00	1.38E-02	7.65E-02	1.06E-03
48000107	Hot Cell	1	P	Mn-52	5.00E-01	Log Book	Gaseous	1.00E+00	5.00E-01	3.14E-01	1.57E-01
48000107	Hot Cell	1	P	Mn-54	5.42E-01	Log Book	Gaseous	1.00E+00	5.42E-01	2.90E-01	1.57E-01
48000107	Hot Cell	1	P	Na-22	2.14E+00	Log Book	Gaseous	1.00E+00	2.14E+00	2.04E+00	4.37E+00
48000107	Hot Cell	1	P	Ni-56	2.00E-02	Log Book	Gaseous	1.00E+00	2.00E-02	5.18E-01	1.04E-02
48000107	Hot Cell	1	P	P-32	2.69E-05	Log Book	Gaseous	1.00E+00	2.69E-05	4.79E-03	1.29E-07
48000107	Hot Cell	1	P	Pd-103	1.00E-01	Log Book	Gaseous	1.00E+00	1.00E-01	2.32E-02	2.32E-03
48000107	Hot Cell	1	P	Rb-82	1.50E+01	Log Book	Gaseous	1.00E+00	1.50E+01	4.53E-05	6.80E-04
48000107	Hot Cell	1	P	Rb-83	1.80E+01	Log Book	Gaseous	1.00E+00	1.80E+01	2.59E+00	4.66E+01
48000107	Hot Cell	1	P	Rb-84	2.00E+01	Log Book	Gaseous	1.00E+00	2.00E+01	2.44E+00	4.88E+01
48000107	Hot Cell	1	P	Rb-86	1.00E+01	Log Book	Gaseous	1.00E+00	1.00E+01	8.26E-03	8.26E-02
48000107	Hot Cell	1	P	Rh-101	3.55E-03	Log Book	Gaseous	1.00E+00	3.55E-03	1.99E-01	7.06E-04
48000107	Hot Cell	1	P	Rh-102	4.07E-02	Log Book	Gaseous	1.00E+00	4.07E-02	1.35E+00	5.49E-02
48000107	Hot Cell	1	P	Ru-106	3.15E-06	Log Book	Gaseous	1.00E+00	3.15E-06	4.25E-01	1.34E-06
48000107	Hot Cell	1	P	Sc-46	3.00E-03	Log Book	Gaseous	1.00E+00	3.00E-03	2.02E-01	6.06E-04
48000107	Hot Cell	1	P	Se-75	2.00E-02	Log Book	Gaseous	1.00E+00	2.00E-02	5.18E+00	1.04E-01
48000107	Hot Cell	1	P	Sl-32	2.69E-05	Log Book	Gaseous	1.00E+00	2.69E-05	2.86E+01	7.69E-04
48000107	Hot Cell	1	P	Sn-113	5.40E-05	Log Book	Gaseous	1.00E+00	5.40E-05	3.23E-02	1.74E-06
48000107	Hot Cell	1	P	Sr-82	1.10E+01	Log Book	Gaseous	1.00E+00	1.10E+01	1.42E+00	1.56E+01
48000107	Hot Cell	1	P	Sr-83	1.00E-02	Log Book	Gaseous	1.00E+00	1.00E-02	4.40E-02	4.40E-04
48000107	Hot Cell	1	P	Sr-85	1.00E+01	Log Book	Gaseous	1.00E+00	1.00E+01	4.89E-01	4.89E+00
48000107	Hot Cell	1	P	Tc-95m	5.00E-03	Log Book	Gaseous	1.00E+00	5.00E-03	6.29E-01	3.15E-03
48000107	Hot Cell	1	P	V-48	5.00E-01	Log Book	Gaseous	1.00E+00	5.00E-01	8.80E-01	4.40E-01
48000107	Hot Cell	1	P	V-49	5.00E-02	Log Book	Gaseous	1.00E+00	5.00E-02	5.50E-03	2.75E-04
48000107	Hot Cell	1	P	Y-88	5.70E-02	Log Book	Gaseous	1.00E+00	5.70E-02	3.26E+00	1.86E-01
48000107	Hot Cell	1	P	Zn-65	5.32E-01	Log Book	Gaseous	1.00E+00	5.32E-01	1.74E-01	9.26E-02
48000107	Hot Cell	1	P	Zr-88	5.70E-02	Log Book	Gaseous	1.00E+00	5.70E-02	6.10E+00	3.48E-01

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48000107	Ducts	2	P	As-73	4.37E-01	2000 LANL Air Emissions Report	Custom	1.00E+00	4.37E-01	8.00E-02	3.50E-02
48000107	Ducts	2	P	As-74	2.79E-01	2000 LANL Air Emissions Report	Custom	1.00E+00	2.79E-01	4.00E-01	1.12E-01
48000107	Ducts	2	P	Br-77	2.82E-01	2000 LANL Air Emissions Report	Custom	1.00E+00	2.82E-01	2.10E-02	5.92E-03
48000107	Ducts	2	P	Ga-68	8.14E+01	2000 LANL Air Emissions Report	Custom	1.00E+00	8.14E+01	9.01E-04	7.33E-02
48000107	Ducts	2	P	Ge-68	8.14E+01	2000 LANL Air Emissions Report	Custom	1.00E+00	8.14E+01	4.40E+00	3.58E+02
48000107	Ducts	2	P	Se-75	1.36E+00	2000 LANL Air Emissions Report	Custom	1.00E+00	1.36E+00	5.18E+00	7.04E+00

Total PEDE (mrem/year) this interview form: 5.12E+02

Total PEDE (mrem/year) this exhaust stack: 5.12E+02

Printed on 04/30/2002

Radioactive Materials Usage Survey Interview Form

Survey Year:	TA:	Building:	Facility Status:	Monitored?	Facility Critical Receptor:
2003	48	0001	Active	☐	Residence at Royal Crest

ES ID #	Room	Proc #	Source Type	RAM	Usage (Ci)	Usage Basis	Physical state	Reduction Factor	Emission (Ci)	mrem/Ci	PEDE
48000111	402	1	P	D-38	1.53E-05	Bounding Estimate of User	Liquid	1.00E-03	1.53E-08	6.74E+01	1.03E-06
48000111	402	1	P	Th-232	5.45E-07	Bounding Estimate of User	Liquid	1.00E-03	5.45E-10	3.52E+02	1.92E-07
48000111	402	2	P	D-38	6.57E-05	Bounding Estimate of User	Liquid	1.00E-03	6.57E-08	6.74E+01	4.43E-06
48000111	402	2	P	Th-232	6.54E-07	Bounding Estimate of User	Liquid	1.00E-03	6.54E-10	3.52E+02	2.30E-07

Total PEDE (mrem/year) this interview form:	5.88E-06
Total PEDE (mrem/year) this exhaust stack:	2.86E-05

Printed on 06/10/2004

Radioactive Material Usage Survey Interview Form

Survey Year:	TA:	Building:	Facility Status:	Monitored?	Facility Critical Receptor:
2003	48	0001	Active	☐	Residence at Royal Crest

ES ID #	Room	Proc #	Source Type	RAM	Usage (Ci)	Usage Basis	Physical state	Reduction Factor	Emission (Ci)	mrem/Ci	PEDE
48000111	407	1	P	Am-241	5.00E-05	User Estimate	Liquid	1.00E-03	5.00E-08	3.03E+02	1.52E-05
48000111	407	1	P	Cs-137	1.00E-04	User Estimate	Liquid	1.00E-03	1.00E-07	2.33E+00	2.33E-07
48000111	407	1	P	Pu-239	5.00E-06	User Estimate	Liquid	1.00E-03	5.00E-09	1.91E+02	9.55E-07
48000111	407	2	P	Cs-137	2.10E-08	Spreadsheet	Gaseous	1.00E+00	2.10E-08	2.33E+00	4.89E-08

Total PEDE (mrem/year) this interview form:	1.64E-05
Total PEDE (mrem/year) this exhaust stack:	2.86E-05

Printed on 06/10/2004

Radioactive Materials Usage Survey Interview Form

Survey Year:	TA:	Building:	Facility Status:	Monitored?	Facility Critical Receptor:
2003	48	0001	Active	☐	Residence at Royal Crest

ES ID #	Room	Proc #	Source Type	RAM	Usage (Ci)	Usage Basis	Physical state	Reduction Factor	Emission (Ci)	mrem/Ci	PEDE
48000111	408	1	P	Am-241	2.00E-06	User Estimate	Liquid	1.00E-03	2.00E-09	3.03E+02	6.06E-07
48000111	408	1	P	D-38	6.00E-06	User Estimate	Liquid	1.00E-03	6.00E-09	6.74E+01	4.04E-07
48000111	408	1	P	Pu-238	2.00E-06	User Estimate	Liquid	1.00E-03	2.00E-09	1.77E+02	3.54E-07
48000111	408	1	P	Pu-239	2.00E-06	User Estimate	Liquid	1.00E-03	2.00E-09	1.91E+02	3.82E-07
48000111	408	2	P	Tc-99	2.70E-03	User Estimate	Liquid	1.00E-03	2.70E-06	6.89E-03	1.86E-08

Total PEDE (mrem/year) this interview form:	1.77E-06
Total PEDE (mrem/year) this exhaust stack:	2.86E-05

Printed on 06/10/2004

Radioactive Materia.. Usage Survey Interview Form

Survey Year:	TA:	Building:	Facility Status:	Monitored?	Facility Critical Receptor:
2003	48	0001	Active	☐	Residence at Royal Crest

ES ID #	Room	Proc #	Source Type	RAM	Usage (Ci)	Usage Basis	Physical state	Reduction Factor	Emission (Ci)	mrem/Ci	PEDE
48000111	409	1	P	Be-7	1.00E-02	User Estimate	Liquid	1.00E-03	1.00E-05	2.63E-03	2.63E-08

Total PEDE (mrem/year) this interview form:	2.63E-08
Total PEDE (mrem/year) this exhaust stack:	2.86E-05

Radioactive Materia. Jsage Survey Interview Form

Survey Year:	TA:	Building:	Facility Status:	Monitored?	Facility Critical Receptor:
2003	48	0001	Active	☐	Residence at Royal Crest

ES ID #	Room	Proc #	Source Type	RAM	Usage (Ci)	Usage Basis	Physical state	Reduction Factor	Emission (Ci)	mrem/Ci	PEDE
48000111	410	1	P	Am-241	4.51E-06	User Estimate	Liquid	1.00E-03	4.51E-09	3.03E+02	1.37E-06
48000111	410	1	P	Am-243	4.51E-06	User Estimate	Liquid	1.00E-03	4.51E-09	3.02E+02	1.36E-06
48000111	410	1	P	Eu-152	4.51E-06	User Estimate	Liquid	1.00E-03	4.51E-09	2.43E+00	1.10E-08

Total PEDE (mrem/year) this interview form:	2.74E-06
Total PEDE (mrem/year) this exhaust stack:	2.86E-05

Radioactive Materia.. Usage Survey Interview Form

Survey Year:	TA:	Building:	Facility Status:	Monitored?	Facility Critical Receptor:
2003	48	0001	Active	☐	Residence at Royal Crest

ES ID #	Room	Proc #	Source Type	RAM	Usage (Ci)	Usage Basis	Physical state	Reduction Factor	Emission (Ci)	mrem/Ci	PEDE
48000111	411	1	P	Cs-137	5.67E-08	Spreadsheet	Gaseous	1.00E+00	5.67E-08	2.33E+00	1.32E-07

Total PEDE (mrem/year) this interview form:	1.32E-07
Total PEDE (mrem/year) this exhaust stack:	2.86E-05

Printed on 06/10/2004

Radioactive Materials Usage Survey Interview Form

Survey Year:	TA:	Building:	Facility Status:	Monitored?	Facility Critical Receptor:
2003	48	0001	Active	☐	Residence at Royal Crest

ES ID #	Room	Proc #	Source Type	RAM	Usage (Ci)	Usage Basis	Physical state	Reduction Factor	Emission (Ci)	mrem/Ci	PEDE
48000111	412	1	P	D-38	1.19E-09	Notebook	Liquid	1.00E-03	1.19E-12	6.74E+01	8.02E-11
48000111	412	2	P	D-38	4.29E-09	Notebook	Liquid	1.00E-03	4.29E-12	6.74E+01	2.89E-10
48000111	412	3	P	D-38	6.00E-08	Notebook	Liquid	1.00E-03	6.00E-11	6.74E+01	4.04E-09

Total PEDE (mrem/year) this interview form:	4.41E-09
Total PEDE (mrem/year) this exhaust stack:	2.86E-05

Printed on 06/10/2004

Radioactive Materials Usage Survey Interview Form

Survey Year:	TA:	Building:	Facility Status:	Monitored?	Facility Critical Receptor:
2003	48	0001	Active	☐	Residence at Royal Crest

ES ID #	Room	Proc #	Source Type	RAM	Usage (Ci)	Usage Basis	Physical state	Reduction Factor	Emission (Ci)	mrem/Ci	PEDE
48000111	414	1	P	Ba-133	9.44E-08	Notebook	Liquid	1.00E-03	9.44E-11	7.88E-01	7.44E-11
48000111	414	1	P	Co-57	2.99E-09	Notebook	Liquid	1.00E-03	2.99E-12	3.81E-02	1.14E-13
48000111	414	1	P	Co-58	1.44E-09	Notebook	Liquid	1.00E-03	1.44E-12	6.84E-02	9.85E-14
48000111	414	1	P	Cs-137	2.10E-08	Notebook	Liquid	1.00E-03	2.10E-11	2.33E+00	4.89E-11
48000111	414	1	P	Nb-91	1.22E-06	Notebook	Liquid	1.00E-03	1.22E-09	1.10E-02	1.34E-11
48000111	414	1	P	Nb-91m	4.32E-07	Notebook	Liquid	1.00E-03	4.32E-10	2.70E-01	1.17E-10
48000111	414	1	P	Nb-92	6.31E-12	Notebook	Liquid	1.00E-03	6.31E-15	1.22E+00	7.70E-15
48000111	414	1	P	Nb-93m	4.95E-06	Notebook	Liquid	1.00E-03	4.95E-09	1.97E-02	9.75E-11
48000111	414	1	P	Nb-94	1.22E-08	Notebook	Liquid	1.00E-03	1.22E-11	4.86E+00	5.93E-11
48000111	414	1	P	Pu-239	2.70E-06	User Estimate	Liquid	1.00E-03	2.70E-09	1.91E+02	5.16E-07
48000111	414	1	P	Pu-239	2.70E-06	Notebook	Liquid	1.00E-03	2.70E-09	1.91E+02	5.16E-07
48000111	414	1	P	Rb-83	1.33E-07	Notebook	Liquid	1.00E-03	1.33E-10	2.03E+00	2.70E-10
48000111	414	1	P	Sr-85	7.38E-08	Notebook	Liquid	1.00E-03	7.38E-11	3.83E-01	2.83E-11
48000111	414	1	P	Ta-182	3.01E-09	Notebook	Liquid	1.00E-03	3.01E-12	1.53E+00	4.61E-12
48000111	414	1	P	U-234	4.79E-06	Notebook	Liquid	1.00E-03	4.79E-09	7.36E+01	3.53E-07
48000111	414	1	P	U-235	1.34E-07	Notebook	Liquid	1.00E-03	1.34E-10	6.87E+01	9.21E-09
48000111	414	1	P	U-238	2.39E-08	Notebook	Liquid	1.00E-03	2.39E-11	6.55E+01	1.57E-09
48000111	414	1	P	Y-88	1.54E-06	Notebook	Liquid	1.00E-03	1.54E-09	2.56E+00	3.94E-09
48000111	414	1	P	Zr-88	3.89E-07	Notebook	Liquid	1.00E-03	3.89E-10	4.79E+00	1.86E-09

Total PEDE (mrem/year) this interview form: 1.40E-06

Total PEDE (mrem/year) this exhaust stack: 2.86E-05

Printed on 06/10/2004

Radioactive Materia. Jsage Survey Interview Form

Survey Year:	TA:	Building:	Facility Status:	Monitored?	Facility Critical Receptor:
2003	48	0001	Active	☐	Residence at Royal Crest

ES ID #	Room	Proc #	Source Type	RAM	Usage (Ci)	Usage Basis	Physical state	Reduction Factor	Emission (Ci)	mrem/Ci	PEDE
48000111	416	1	P	D-38	1.19E-09	Notebook	Liquid	1.00E-03	1.19E-12	6.74E+01	8.02E-11
48000111	416	2	P	D-38	4.29E-09	Notebook	Gaseous	1.00E+00	4.29E-09	6.74E+01	2.89E-07

Total PEDE (mrem/year) this interview form:	2.89E-07
Total PEDE (mrem/year) this exhaust stack:	2.86E-05

Printed on 06/10/2004

Radioactive Material Usage Survey Interview Form

Survey Year:	TA:	Building:	Facility Status:	Monitored?	Facility Critical Receptor:
2003	48	0001	Active	☐	Residence at Royal Crest

ES ID #	Room	Proc #	Source Type	RAM	Usage (Ci)	Usage Basis	Physical state	Reduction Factor	Emission (Ci)	mrem/Ci	PEDE
48000115	19A	1	P	H-3	2.67E-07	Process Knowledge	Gaseous	1.00E+00	2.67E-07	9.77E-05	2.61E-11

Total PEDE (mrem/year) this interview form:	2.61E-11
Total PEDE (mrem/year) this exhaust stack:	3.59E-04

Printed on 06/10/2004

Radioactive Materials Usage Survey Interview Form

Survey Year:	TA:	Building:	Facility Status:	Monitored?	Facility Critical Receptor:
2003	48	0001	Active	☐	Residence at Royal Crest

ES ID #	Room	Proc #	Source Type	RAM	Usage (Ci)	Usage Basis	Physical state	Reduction Factor	Emission (Ci)	mrem/Ci	PEDE
48000115	305	1	P	D-38	3.94E-06	User Estimate	Liquid	1.00E-03	3.94E-09	8.13E+01	3.20E-07
48000115	305	2	P	D-38	5.78E-06	User Estimate	Liquid	1.00E-03	5.78E-09	8.13E+01	4.70E-07

Total PEDE (mrem/year) this interview form:	7.90E-07
Total PEDE (mrem/year) this exhaust stack:	3.59E-04

Printed on 06/10/2004

Radioactive Materials Usage Survey Interview Form

Survey Year:	TA:	Building:	Facility Status:	Monitored?	Facility Critical Receptor:
2003	48	0001	Active	☐	Residence at Royal Crest

ES ID #	Room	Proc #	Source Type	RAM	Usage (Ci)	Usage Basis	Physical state	Reduction Factor	Emission (Ci)	mrem/Ci	PEDE
48000115	307	1	P	Cs-137	2.98E-08	Spreadsheet	Gaseous	1.00E+00	2.98E-08	2.80E+00	8.34E-08

Total PEDE (mrem/year) this interview form:	8.34E-08
Total PEDE (mrem/year) this exhaust stack:	3.59E-04

Printed on 06/10/2004

Radioactive Materials Usage Survey Interview Form

Survey Year:	TA:	Building:	Facility Status:	Monitored?	Facility Critical Receptor:
2003	48	0001	Active	☐	Residence at Royal Crest

ES ID #	Room	Proc #	Source Type	RAM	Usage (Ci)	Usage Basis	Physical state	Reduction Factor	Emission (Ci)	mrem/Ci	PEDE
48000115	308	1	P	Am-241	1.35E-09	User Estimate	Liquid	1.00E-03	1.35E-12	3.65E+02	4.93E-10
48000115	308	1	P	Cm-244	1.35E-09	User Estimate	Liquid	1.00E-03	1.35E-12	1.93E+02	2.61E-10
48000115	308	1	P	Np-237	1.35E-09	User Estimate	Liquid	1.00E-03	1.35E-12	3.30E+02	4.46E-10
48000115	308	1	P	Pu-239	1.35E-09	User Estimate	Liquid	1.00E-03	1.35E-12	2.30E+02	3.11E-10
48000115	308	1	P	U-233	1.35E-09	User Estimate	Liquid	1.00E-03	1.35E-12	8.99E+01	1.21E-10
48000115	308	2	P	H-3	1.07E-09	User Estimate	Gaseous	1.00E+00	1.07E-09	9.77E-05	1.05E-13
48000115	308	3	P	Am-241	4.93E-09	Notebook	Liquid	1.00E-03	4.93E-12	3.65E+02	1.80E-09
48000115	308	3	P	Cm-242	1.80E-17	Notebook	Liquid	1.00E-03	1.80E-20	1.21E+01	2.18E-19
48000115	308	3	P	Cm-244	4.50E-10	Notebook	Liquid	1.00E-03	4.50E-13	1.93E+02	8.69E-11
48000115	308	3	P	Np-237	4.50E-10	Notebook	Liquid	1.00E-03	4.50E-13	3.30E+02	1.49E-10
48000115	308	3	P	Pu-238	8.25E-09	Notebook	Liquid	1.00E-03	8.25E-12	2.14E+02	1.77E-09
48000115	308	3	P	Pu-239	4.38E-08	Notebook	Liquid	1.00E-03	4.38E-11	2.30E+02	1.01E-08
48000115	308	3	P	Pu-240	1.03E-08	Notebook	Liquid	1.00E-03	1.03E-11	2.30E+02	2.37E-09
48000115	308	3	P	Pu-241	1.26E-07	Notebook	Liquid	1.00E-03	1.26E-10	1.45E+01	1.83E-09
48000115	308	3	P	Pu-242	1.04E-12	Notebook	Liquid	1.00E-03	1.04E-15	2.18E+02	2.27E-13
48000115	308	3	P	U-233	4.50E-10	Notebook	Liquid	1.00E-03	4.50E-13	8.99E+01	4.05E-11
48000115	308	3	P	U-234	1.13E-12	Notebook	Liquid	1.00E-03	1.13E-15	8.88E+01	1.00E-13
48000115	308	3	P	U-235	5.86E-14	Notebook	Liquid	1.00E-03	5.86E-17	8.28E+01	4.85E-15
48000115	308	3	P	U-236	9.01E-15	Notebook	Liquid	1.00E-03	9.01E-18	8.41E+01	7.58E-16
48000115	308	3	P	U-238	2.25E-12	Notebook	Liquid	1.00E-03	2.25E-15	7.90E+01	1.78E-13

Total PEDE (mrem/year) this interview form:	1.97E-08
Total PEDE (mrem/year) this exhaust stack:	3.59E-04

Printed on 06/10/2004

Radioactive Materials Usage Survey Interview Form

Survey Year:	TA:	Building:	Facility Status:	Monitored?	Facility Critical Receptor:
2003	48	0001	Active	☐	Residence at Royal Crest

ES ID #	Room	Proc #	Source Type	RAM	Usage (Ci)	Usage Basis	Physical state	Reduction Factor	Emission (Ci)	mrem/Ci	PEDE
48000115	309	1	P	U-233	4.50E-06	User Estimate	Liquid	1.00E-03	4.50E-09	8.99E+01	4.05E-07

Total PEDE (mrem/year) this interview form:	4.05E-07
Total PEDE (mrem/year) this exhaust stack:	3.59E-04

Printed on 06/10/2004

Radioactive Materia.. Usage Survey Interview Form

Survey Year:	TA:	Building:	Facility Status:	Monitored?	Facility Critical Receptor:
2003	48	0001	Active	☐	Residence at Royal Crest

ES ID #	Room	Proc #	Source Type	RAM	Usage (Ci)	Usage Basis	Physical state	Reduction Factor	Emission (Ci)	mrem/Ci	PEDE
48000115	311	1	P	Cs-137	8.40E-10	Spreadsheet	Gaseous	1.00E+00	8.40E-10	2.80E+00	2.35E-09
48000115	311	2	P	Am-241	4.63E-07	Notebook	Liquid	1.00E-03	4.63E-10	3.65E+02	1.69E-07
48000115	311	2	P	Cd-109	2.64E-06	Notebook	Liquid	1.00E-03	2.64E-09	1.42E+00	3.75E-09
48000115	311	2	P	Ce-139	1.34E-07	Notebook	Liquid	1.00E-03	1.34E-10	3.23E-01	4.33E-11
48000115	311	2	P	Co-57	1.01E-07	Notebook	Liquid	1.00E-03	1.01E-10	4.57E-02	4.62E-12
48000115	311	2	P	Co-60	4.95E-07	Notebook	Liquid	1.00E-03	4.95E-10	3.77E+00	1.87E-09
48000115	311	2	P	Cs-137	4.23E-07	Notebook	Liquid	1.00E-03	4.23E-10	2.80E+00	1.18E-09
48000115	311	2	P	Hg-203	3.59E-07	Notebook	Liquid	1.00E-03	3.59E-10	1.78E-02	6.39E-12
48000115	311	2	P	Sn-113	4.95E-07	Notebook	Liquid	1.00E-03	4.95E-10	3.08E-02	1.52E-11
48000115	311	2	P	Sr-85	6.05E-07	Notebook	Liquid	1.00E-03	6.05E-10	4.67E-01	2.83E-10
48000115	311	2	P	Sr-89	5.74E-06	Notebook	Liquid	1.00E-03	5.74E-09	5.01E-03	2.88E-11
48000115	311	2	P	Sr-90	5.07E-06	Notebook	Liquid	1.00E-03	5.07E-09	1.81E-01	9.18E-10
48000115	311	2	P	Y-88	9.89E-07	Notebook	Liquid	1.00E-03	9.89E-10	3.11E+00	3.08E-09

Total PEDE (mrem/year) this interview form:	1.83E-07
Total PEDE (mrem/year) this exhaust stack:	3.59E-04

Printed on 06/10/2004

Radioactive Materials Usage Survey Interview Form

Survey Year:	TA:	Building:	Facility Status:	Monitored?	Facility Critical Receptor:
2003	48	0001	Active	☐	Residence at Royal Crest

ES ID #	Room	Proc #	Source Type	RAM	Usage (Ci)	Usage Basis	Physical state	Reduction Factor	Emission (Ci)	mrem/Ci	PEDE
48000115	312	1	P	Am-241	4.00E-09	User Knowledge	Gaseous	1.00E+00	4.00E-09	3.65E+02	1.46E-06
48000115	312	1	P	Cs-137	5.70E-10	User Knowledge	Gaseous	1.00E+00	5.70E-10	2.80E+00	1.60E-09
48000115	312	1	P	Pu-239	1.14E-08	User Knowledge	Gaseous	1.00E+00	1.14E-08	2.30E+02	2.62E-06
48000115	312	1	P	Pu-242	3.39E-10	User Knowledge	Gaseous	1.00E+00	3.39E-10	2.18E+02	7.39E-08
48000115	312	1	P	Sr-90	5.70E-10	User Knowledge	Gaseous	1.00E+00	5.70E-10	1.81E-01	1.03E-10
48000115	312	2	P	Cs-137	6.00E-07	User Knowledge	Gaseous	1.00E+00	6.00E-07	2.80E+00	1.68E-06

Total PEDE (mrem/year) this interview form: 5.84E-06

Total PEDE (mrem/year) this exhaust stack: 3.59E-04

Printed on 06/10/2004

Radioactive Materi... Usage Survey Interview Form

Survey Year:	TA:	Building:	Facility Status:	Monitored?	Facility Critical Receptor:
2003	48	0001	Active	☐	Residence at Royal Crest

ES ID #	Room	Proc #	Source Type	RAM	Usage (Ci)	Usage Basis	Physical state	Reduction Factor	Emission (Ci)	mrem/Ci	PEDE
48000115	314	1	P	Sr-82	3.00E-03	Batch Files	Liquid	1.00E-03	3.00E-06	1.35E+00	4.05E-06
48000115	314	1	P	Sr-85	1.35E-03	Batch Files	Liquid	1.00E-03	1.35E-06	4.67E-01	6.30E-07
48000115	314	2	P	Sr-82	3.00E-05	Batch Files	Gaseous	1.00E+00	3.00E-05	1.35E+00	4.05E-05
48000115	314	2	P	Sr-85	1.35E-05	Batch Files	Gaseous	1.00E+00	1.35E-05	4.67E-01	6.30E-06

Total PEDE (mrem/year) this interview form:	5.15E-05
Total PEDE (mrem/year) this exhaust stack:	3.59E-04

Printed on 06/10/2004

Radioactive Materia.. Usage Survey Interview Form

Survey Year:	TA:	Building:	Facility Status:	Monitored?	Facility Critical Receptor:
2003	48	0001	Active	☐	Residence at Royal Crest

ES ID #	Room	Proc #	Source Type	RAM	Usage (Ci)	Usage Basis	Physical state	Reduction Factor	Emission (Ci)	mrem/Ci	PEDE
48000115	315	1	P	Sr-82	1.75E-02	Batch Files	Liquid	1.00E-03	1.75E-05	1.35E+00	2.36E-05
48000115	315	1	P	Sr-85	7.90E-03	Batch Files	Liquid	1.00E-03	7.90E-06	4.67E-01	3.69E-06
48000115	315	2	P	Sr-82	1.75E-04	Batch Files	Gaseous	1.00E+00	1.75E-04	1.35E+00	2.36E-04
48000115	315	2	P	Sr-85	7.90E-05	Batch Files	Gaseous	1.00E+00	7.90E-05	4.67E-01	3.69E-05

Total PEDE (mrem/year) this interview form:	3.00E-04
Total PEDE (mrem/year) this exhaust stack:	3.59E-04

Printed on 06/10/2004

Radioactive Materia. Jsage Survey Interview Form

Survey Year:	TA:	Building:	Facility Status:	Monitored?	Facility Critical Receptor:
2003	48	0001	Active	☐	Residence at Royal Crest

ES ID #	Room	Proc #	Source Type	RAM	Usage (Ci)	Usage Basis	Physical state	Reduction Factor	Emission (Ci)	mrem/Ci	PEDE
48000135	HotCell	1	P	Ge-68	3.00E-06	Bounding Estimate of User	Particulate	1.00E-03	3.00E-09	5.50E+00	1.65E-08
48000135	HotCell	1	P	Sr-82	5.00E-06	Bounding Estimate of User	Particulate	1.00E-03	5.00E-09	1.77E+00	8.85E-09
48000135	HotCell	1	P	Sr-85	1.40E-06	Bounding Estimate of User	Particulate	1.00E-03	1.40E-09	6.11E-01	8.55E-10

Total PEDE (mrem/year) this interview form:	2.62E-08
Total PEDE (mrem/year) this exhaust stack:	2.62E-08

Radioactive Materials Usage Survey Interview Form

Survey Year:	TA:	Building:	Facility Status:	Monitored?	Facility Critical Receptor:
2003	48	0001	Active	☐	Residence at Royal Crest

ES ID #	Room	Proc #	Source Type	RAM	Usage (Ci)	Usage Basis	Physical state	Reduction Factor	Emission (Ci)	mrem/Ci	PEDE
48000145	423	1	P	Nb-91	7.21E-06	Notebook	Liquid	1.00E-03	7.21E-09	1.05E-02	7.57E-11
48000145	423	1	P	Nb-92	3.65E-11	Notebook	Liquid	1.00E-03	3.65E-14	1.17E+00	4.27E-14
48000145	423	1	P	Nb-93m	3.02E-05	Notebook	Liquid	1.00E-03	3.02E-08	1.89E-02	5.71E-10
48000145	423	1	P	Nb-94	7.21E-08	Notebook	Liquid	1.00E-03	7.21E-11	4.66E+00	3.36E-10
48000145	423	1	P	Np-237	5.41E-06	Notebook	Liquid	1.00E-03	5.41E-09	2.61E+02	1.41E-06
48000145	423	1	P	Pu-239	2.70E-06	Notebook	Liquid	1.00E-03	2.70E-09	1.82E+02	4.91E-07
48000145	423	1	P	Tm-171	1.17E-01	Notebook	Liquid	1.00E-03	1.17E-04	2.54E-02	2.97E-06
48000145	423	1	P	U-234	4.10E-06	Notebook	Liquid	1.00E-03	4.10E-09	7.02E+01	2.88E-07
48000145	423	1	P	U-235	1.15E-07	Notebook	Liquid	1.00E-03	1.15E-10	6.55E+01	7.53E-09

Total PEDE (mrem/year) this interview form:	5.17E-06
Total PEDE (mrem/year) this exhaust stack:	1.81E-04

Printed on 06/10/2004

Radioactive Materia. Jsage Survey Interview Form

Survey Year:	TA:	Building:	Facility Status:	Monitored?	Facility Critical Receptor:
2003	48	0001	Active	☐	Residence at Royal Crest

ES ID #	Room	Proc #	Source Type	RAM	Usage (Ci)	Usage Basis	Physical state	Reduction Factor	Emission (Ci)	mrem/Ci	PEDE
48000145	430	1	P	Sr-90	1.00E-04	User Estimate	Gaseous	1.00E+00	1.00E-04	1.46E-01	1.46E-05
48000145	430	1	P	Tc-95m	1.40E-04	User Estimate	Gaseous	1.00E+00	1.40E-04	4.71E-01	6.59E-05
48000145	430	1	P	Tc-99	1.40E-04	User Estimate	Gaseous	1.00E+00	1.40E-04	6.63E-03	9.28E-07

Total PEDE (mrem/year) this interview form:	8.15E-05
Total PEDE (mrem/year) this exhaust stack:	1.81E-04

Printed on 06/10/2004

Radioactive Materials Usage Survey Interview Form

Survey Year:	TA:	Building:	Facility Status:	Monitored?	Facility Critical Receptor:
2003	48	0001	Active	☐	Residence at Royal Crest

ES ID #	Room	Proc #	Source Type	RAM	Usage (Ci)	Usage Basis	Physical state	Reduction Factor	Emission (Ci)	mrem/Ci	PEDE
48000145	421	1	P	Cs-137	4.21E-05	Spreadsheet	Gaseous	1.00E+00	4.21E-05	2.23E+00	9.39E-05

Total PEDE (mrem/year) this interview form:	9.39E-05
Total PEDE (mrem/year) this exhaust stack:	1.81E-04

Printed on 06/10/2004

Radioactive Materials Usage Survey Interview Form

Survey Year:	TA:	Building:	FMU:	Facility Status:	Facility Description:	Facility Critical Receptor:
2001	48	0001	66	Active	Research Laboratory	Residence at Royal Crest

ES ID #	Room	Proc #	Source Type	RAM	Usage (Ci)	Usage Basis	Physical state	Reduction Factor	Emission (Ci)	mrem/Ci	PEDE
48000154	606	1	P	Am-241	3.01E-01	'96 Inventory	Gaseous	1.00E+00	3.01E-01	3.83E+02	1.15E+02
48000154	606	1	P	Cs-137	1.35E-01	'96 Inventory	Gaseous	1.00E+00	1.35E-01	2.92E+00	3.94E-01
48000154	606	1	P	Na-22	1.00E-03	'96 Inventory	Gaseous	1.00E+00	1.00E-03	2.04E+00	2.04E-03
48000154	606	1	P	Pu-239	1.51E+00	'96 Inventory	Gaseous	1.00E+00	1.51E+00	2.41E+02	3.64E+02
48000154	606	1	P	Sr-85	3.00E-03	'96 Inventory	Gaseous	1.00E+00	3.00E-03	4.89E-01	1.47E-03
48000154	606	1	P	Sr-90	1.11E-02	'96 Inventory	Gaseous	1.00E+00	1.11E-02	1.90E-01	2.11E-03
48000154	606	1	P	Tc-99	2.00E-03	'96 Inventory	Gaseous	1.00E+00	2.00E-03	8.33E-03	1.67E-05
48000154	606	1	P	Th-232	1.52E-04	'96 Inventory	Gaseous	1.00E+00	1.52E-04	4.46E+02	6.78E-02
48000154	606	1	P	U-238	1.84E-02	'96 Inventory	Gaseous	1.00E+00	1.84E-02	8.30E+01	1.53E+00

Total PEDE (mrem/year) this interview form: 4.81E+02

Total PEDE (mrem/year) this exhaust stack: 4.81E+02

Printed on 04/30/2002

Radioactive Materials Usage Survey Interview Form

Survey Year:	TA:	Building:	FMU:	Facility Status:	Facility Description:	Facility Critical Receptor:
2001	48	0001	66	Active	Research Laboratory	Residence at Royal Crest

ES ID #	Room	Proc #	Source Type	RAM	Usage (Ci)	Usage Basis	Physical state	Reduction Factor	Emission (Ci)	mrem/Ci	PEDE
48000160	326	1	P	Cd-109	1.40E-04	Database	Gaseous	1.00E+00	1.40E-04	1.58E+00	2.21E-04
48000160	326	1	P	Ge-68	1.00E-05	Database	Gaseous	1.00E+00	1.00E-05	4.65E+00	4.65E-05
48000160	326	1	P	Nb-91m	1.00E-05	Database	Gaseous	1.00E+00	1.00E-05	3.63E-01	3.63E-06
48000160	326	1	P	Rb-83	1.00E-04	Database	Gaseous	1.00E+00	1.00E-04	2.74E+00	2.74E-04
48000160	326	1	P	Se-75	1.00E-04	Database	Gaseous	1.00E+00	1.00E-04	5.47E+00	5.47E-04
48000160	326	1	P	Sr-85	1.00E-04	Database	Gaseous	1.00E+00	1.00E-04	5.17E-01	5.17E-05
48000160	338	3	P	As-73	1.00E-06	Database	Liquid	1.00E-03	1.00E-09	8.45E-02	8.45E-11
48000160	338	3	P	Cd-109	1.00E-06	Database	Liquid	1.00E-03	1.00E-09	1.58E+00	1.58E-09
48000160	338	3	P	Ge-68	5.00E-04	Database	Liquid	1.00E-03	5.00E-07	4.65E+00	2.33E-06
48000160	338	3	P	Hg-194	1.00E-06	Database	Liquid	1.00E-03	1.00E-09	6.74E+01	6.74E-08
48000160	338	3	P	Na-22	1.00E-06	Database	Liquid	1.00E-03	1.00E-09	2.15E+00	2.15E-09
48000160	338	3	P	Na-22	1.00E-04	Database	Liquid	1.00E-03	1.00E-07	2.15E+00	2.15E-07
48000160	338	3	P	Sr-82	1.00E-03	Database	Liquid	1.00E-03	1.00E-06	1.50E+00	1.50E-06
48000160	338	3	P	Sr-85	1.00E-03	Database	Liquid	1.00E-03	1.00E-06	5.17E-01	5.17E-07
48000160	338	3	P	V-48	1.00E-06	Database	Liquid	1.00E-03	1.00E-09	9.30E-01	9.30E-10
48000160	338	3	P	V-49	1.00E-06	Database	Liquid	1.00E-03	1.00E-09	5.81E-03	5.81E-12
48000160	338	3	P	Y-88	1.00E-06	Database	Liquid	1.00E-03	1.00E-09	3.44E+00	3.44E-09
48000160	338	3	P	Zn-65	1.00E-06	Database	Liquid	1.00E-03	1.00E-09	1.83E-01	1.83E-10
48000160	338	3	P	Zr-88	1.00E-06	Database	Liquid	1.00E-03	1.00E-09	6.44E+00	6.44E-09
48000160	Ducts	4	P	Ga-68	8.07E-04	2000 LANL Air Emissions Report	Custom	1.00E+00	8.07E-04	9.45E-04	7.63E-07
48000160	Ducts	4	P	Ge-68	8.07E-04	2000 LANL Air Emissions Report	Custom	1.00E+00	8.07E-04	4.65E+00	3.75E-03
48000160	Ducts	4	P	Se-75	5.33E-04	2000 LANL Air Emissions Report	Custom	1.00E+00	5.33E-04	5.47E+00	2.92E-03

Total PEDE (mrem/year) this interview form: 7.82E-03

Printed on 04/30/2002

Radioactive Materials Usage Survey Interview Form

Total PEDE (mrem/year) this exhaust stack: 7.82E-03

Radioactive Materials Usage Survey Interview Form

Survey Year:	TA:	Building:	FMU:	Facility Status:	Facility Description:	Facility Critical Receptor:
2001	48	0001	66	Active	Research Laboratory	Residence at Royal Crest

ES ID #	Room	Proc #	Source Type	RAM	Usage (Ci)	Usage Basis	Physical state	Reduction Factor	Emission (Ci)	mrem/Ci	PEDE
48000166	415	1	P	D-38	3.15E-05	Notebook	Liquid	1.00E-03	3.15E-08	8.97E+01	2.83E-06
48000166	415	1	P	D-38	8.98E-05	Notebook	Liquid	1.00E-03	8.98E-08	8.97E+01	8.06E-06

Total PEDE (mrem/year) this interview form:	1.09E-05
Total PEDE (mrem/year) this exhaust stack:	1.09E-05

Printed on 04/30/2002

Radioactive Material Usage Survey Interview Form

Survey Year:	TA:	Building:	Facility Status:	Monitored?	Facility Critical Receptor:
2003	48	0001	Active	☐	Residence at Royal Crest

ES ID #	Room	Proc #	Source Type	RAM	Usage (Ci)	Usage Basis	Physical state	Reduction Factor	Emission (Ci)	mrem/Ci	PEDE
48000167	430	1	P	Am-243	3.15E-02	Database	Liquid	1.00E-03	3.15E-05	3.81E+02	1.20E-02
48000167	430	1	P	Cm-248	1.07E-04	Database	Liquid	1.00E-03	1.07E-07	1.43E+03	1.53E-04
48000167	430	1	P	D-38	4.38E-06	User Estimate	Liquid	1.00E-03	4.38E-09	8.50E+01	3.72E-07
48000167	430	1	P	Fe-55	1.20E-02	User Estimate	Liquid	1.00E-03	1.20E-05	1.33E-03	1.60E-08
48000167	430	1	P	MT-51	8.13E-02	Database	Liquid	1.00E-03	8.13E-05	1.19E+02	9.67E-03
48000167	430	1	P	Np-237	1.16E-04	Database	Liquid	1.00E-03	1.16E-07	3.45E+02	4.00E-05
48000167	430	1	P	U-233	1.00E-05	User Estimate	Liquid	1.00E-03	1.00E-08	9.40E+01	9.40E-07
48000167	430	1	P	U-236	5.84E-06	User Estimate	Liquid	1.00E-03	5.84E-09	8.78E+01	5.13E-07
48000167	430	2	P	D-38	1.31E-07	User Estimate	Gaseous	1.00E+00	1.31E-07	8.50E+01	1.11E-05
48000167	430	3	P	MT-52	1.23E-02	Database	Liquid	1.00E-03	1.23E-05	7.37E+01	9.07E-04
48000167	430	3	P	MT-52	3.93E-03	Database	Liquid	1.00E-03	3.93E-06	7.37E+01	2.90E-04
48000167	430	3	P	MT-52	9.80E-03	Database	Liquid	1.00E-03	9.80E-06	7.37E+01	7.22E-04

Total PEDE (mrem/year) this interview form:	2.38E-02
Total PEDE (mrem/year) this exhaust stack:	2.38E-02

Printed on 06/10/2004

1999	59	0001	71	Active	Occupational Health Laboratory

59000100	102	P	U-nat	7.04E-10		Process Knowledge	6.34E-10	Process Knowledge	Liquid	Jar	1
59000100	102	P	U-nat	7.04E-10		Process Knowledge	7.04E-11	Process Knowledge	Gaseous	Jar	2

Printed on 5/24/00

1999	59	0001	71	Active	Occupational Health Laboratory

59000100	103	F	Various		Various	Field Investigation	0.00E+00	No Usage	Various	Various	0
59000100	103	P	Pu-242	6.22E-11		Field Investigation	6.22E-11	Process Knowledge	Gaseous	Vial	1
59000100	103	P	Am-241	1.97E-10		Field Investigation	5.52E-11	Process Knowledge	Gaseous	Vial	2
59000100	103	P	Pu-238	1.65E-10		Field Investigation	9.60E-11	Process Knowledge	Gaseous	Bottle	2
59000100	103	P	Pu-238	8.00E-11		Field Investigation	3.47E-10	Process Knowledge	Gaseous	Bottle	2
59000100	103	P	Am-243	5.85E-10		Field Investigation	5.46E-10	Process Knowledge	Gaseous	Bottle	3
59000100	103	P	Am-243	2.05E-09		Field Investigation	2.05E-09	Process Knowledge	Gaseous	Bottle	3
59000100	103	P	Pu-242	1.03E-11		Field Investigation	4.10E-12	Process Knowledge	Gaseous	Bottle	3
59000100	103	P	Pu-242	2.05E-09		Field Investigation	1.64E-09	Process Knowledge	Gaseous	Vial	3
59000100	103	P	U-232	2.66E-11		Field Investigation	7.97E-11	Process Knowledge	Gaseous	Bottle	3

1999	59	0001	71	Active	Occupational Health Laboratory

59000100	104	F	Various		Various	Field Verification	0.00E+00	No Usage	Liquid	Vials	0
59000100	104	P	U-232	1.90E-09		User Knowledge	2.85E-09	Bounding Estimate of User	Gaseous	Vial	1
59000100	104	P	Am-243	7.80E-10		User Knowledge	4.39E-10	Bounding Estimate of User	Gaseous	Vial	2

1999	59	0001	71	Active	Occupational Health Laboratory

59000100	106	F	Various		Various	Bounding Estimate of User	0.00E+00	No Usage	Various	Various	0
59000100	106	P	Sr-85	3.00E-07		Bounding Estimate of User	3.00E-07	Process Knowledge	Liquid	Bottle	1
59000100	106	P	Sr-90	1.00E-07		Bounding Estimate of User	1.50E-09	Process Knowledge	Liquid	Bottle	2

1999	59	0001	71	Active	Occupational Health Laboratory

59000100	107	F	Various	5.98E-05		Field Investigation	0.00E+00	No Usage	Various	Various	0
59000100	107	P	Am-241	4.88E-08		Bounding Estimate of User	1.22E-08	Process Knowledge	Liquid	Bottle	1
59000100	107	P	Gamma	8.00E-12		Bounding Estimate of User	1.00E-07	Process Knowledge	Liquid	Bottle	1
59000100	107	P	H-3	0.00E+00		Bounding Estimate of User	2.07E-08	Process Knowledge	Gaseous	Bottle	1
59000100	107	P	H-3	2.25E-10		Bounding Estimate of User	2.25E-10	Process Knowledge	Gaseous	Bottle	1
59000100	107	P	H-3	4.55E-09		Bounding Estimate of User	3.04E-10	Process Knowledge	Gaseous	Bottle	1
59000100	107	P	Pu-238	1.38E-07		Bounding Estimate of User	4.60E-08	Process Knowledge	Liquid	Bottle	1
59000100	107	P	Pu-239	1.46E-08		Bounding Estimate of User	4.37E-08	Process Knowledge	Liquid	Bottle	1
59000100	107	P	Pu-239	9.25E-08		Bounding Estimate of User	9.25E-08	Process Knowledge	Liquid	Bottle	1
59000100	107	P	Pu-239	0.00E+00		Bounding Estimate of User	2.91E-08	Process Knowledge	Liquid	Bottle	1
59000100	107	P	Pu-239	4.11E-09		Bounding Estimate of User	1.64E-08	Process Knowledge	Liquid	Bottle	1
59000100	107	P	Pu-239	0.00E+00		Bounding Estimate of User	4.37E-08	Process Knowledge	Liquid	Bottle	1
59000100	107	P	Sr-90	5.67E-07		Bounding Estimate of User	2.27E-06	Process Knowledge	Liquid	Bottle	1
59000100	107	P	Sr-90	2.61E-08		Bounding Estimate of User	2.00E-10	Process Knowledge	Liquid	Bottle	1

1999	59	0001	71	Active	Occupational Health Laboratory						
59000100	108	P	Am-241	5.40E-10		Bounding Estimate of User	5.40E-10	Bounding Estimate of User	Liquid	Vial	1
59000100	108	P	Am-243	3.04E-08		Bounding Estimate of User	3.04E-08	Bounding Estimate of User	Liquid	Vial	1
59000100	108	P	Pu-238	4.30E-10		Bounding Estimate of User	4.30E-10	Bounding Estimate of User	Liquid	Vial	1
59000100	108	P	Pu-239	4.30E-10		Bounding Estimate of User	4.30E-10	Bounding Estimate of User	Liquid	Vial	1
59000100	108	P	Pu-242	9.60E-09		Bounding Estimate of User	9.60E-09	Bounding Estimate of User	Liquid	Vial	1
59000100	108	P	Am-241	5.40E-10		Bounding Estimate of User	5.40E-10	Bounding Estimate of User	Liquid	Planchette	2
59000100	108	P	Am-243	3.04E-08		Bounding Estimate of User	3.04E-08	Bounding Estimate of User	Liquid	Planchette	2
59000100	108	P	Pu-238	4.30E-10		Bounding Estimate of User	4.30E-10	Bounding Estimate of User	Liquid	Planchette	2
59000100	108	P	Pu-239	4.30E-10		Bounding Estimate of User	4.30E-10	Bounding Estimate of User	Liquid	Planchette	2
59000100	108	P	Pu-242	9.60E-09		Bounding Estimate of User	9.60E-09	Bounding Estimate of User	Liquid	Planchette	2

1999	59	0001	71	Active	Occupational Health Laboratory

59000100	116	P	H-3	0.00E+00		Data Sheets	3.68E-07	Data Sheets	Gaseous	Bottle	1

Radioactive Materials Usage Survey Interview Form

Survey Year	FA	Building	MU	Facility Status	Facility Description
1999	59	0001	71	Active	Occupational Health Laboratory

ES ID #	Room	Source Type	RAM	Inventory (Ci) (Numeric)	Inventory (Ci) (Text)	Inventory Basis	Usage (Ci)	Usage Basis	Physical State	Primary Containment	Prod #
59000100	118	F	Various		Various	Log Books	0.00E+00	No Usage	Liquid	Bottles	0
59000100	118	P	Cs-137	4.10E-08		Log Books	4.10E-08	Log Books	Liquid	Bottle	1
59000100	118	P	H-3	6.02E-09		Log Books	3.01E-09	Log Books	Gaseous	Bottle	1
59000100	118	P	H-3	1.60E-09		Log Books	1.60E-09	Log Books	Gaseous	Bottle	1
59000100	118	P	H-3	4.94E-05		Log Books	4.94E-06	Log Books	Gaseous	Bottle	1
59000100	118	P	Pu-238	6.62E-09		Log Books	3.31E-09	Log Books	Liquid	Bottle	1
59000100	118	P	Pu-239	2.96E-09		Log Books	7.41E-10	Log Books	Liquid	Bottle	1
59000100	118	P	Pu-242	3.31E-09		Log Books	3.06E-09	Log Books	Liquid	Bottle	1
59000100	118	P	Sr-90	4.13E-09		Log Books	4.13E-09	Log Books	Liquid	Bottle	1
59000100	118	P	Sr-90	6.79E-09		Log Books	6.79E-09	Log Books	Liquid	Bottle	1
59000100	118	P	Th-230	8.00E-08		Log Books	8.00E-08	Log Books	Liquid	Bottle	1

Radioactive Materials Usage Survey Interview Form

Survey Year	TA	Building	LAN	Facility Status	Facility Description
1999	59	0001	71	Active	Occupational Health Laboratory

ES ID #	Room	Source Type	RAM	Inventory (Ci) (Numeric)	Inventory (Ci) (Text)	Inventory Basis	Usage (Ci)	Usage Basis	Physical State	Primary Containment	Proc #
59000100	184	F	Various		Various	'98 Inventory	0.00E+00	No Usage	Various	Various	0
59000100	184	P	Am-241	2.70E-09		'98 Inventory	5.40E-10	Process Knowledge	Liquid	Vial	1
59000100	184	P	Am-243	2.43E-08		'98 Inventory	2.70E-09	Process Knowledge	Liquid	Vial	1
59000100	184	P	Am-243	2.50E-07		'98 Inventory	2.50E-08	Process Knowledge	Liquid	Vial	1
59000100	184	P	Pu-238	3.90E-09		'98 Inventory	4.30E-10	Process Knowledge	Liquid	Vial	1
59000100	184	P	Pu-239	3.90E-09		User Knowledge	4.30E-10	Process Knowledge	Liquid	Vial	1
59000100	184	P	Pu-242	1.00E-08		'98 Inventory	5.00E-09	Process Knowledge	Liquid	Vial	1
59000100	184	P	Am-243	3.00E-10		'98 Inventory	2.70E-09	Process Knowledge	Gaseous	Vial	2
59000100	184	P	Pu-242	4.00E-11		'98 Inventory	1.40E-09	Process Knowledge	Gaseous	Vial	2
59000100	184	P	Pu-242	8.00E-10		'98 Inventory	3.20E-09	Process Knowledge	Gaseous	Vial	2
59000100	184	P	Th-232	1.09E-08		'98 Inventory	1.09E-08	Process Knowledge	Particulate	Bottle	3
59000100	184	P	Th-232	1.09E-06		'98 Inventory	1.09E-06	Process Knowledge	Particulate	Bottle	3
59000100	184	P	Th-232	3.82E-10		'98 Inventory	3.82E-10	Process Knowledge	Particulate	Bottle	3
59000100	184	P	U-238	1.68E-05		'98 Inventory	1.68E-05	Process Knowledge	Particulate	Bottle	3
59000100	184	P	U-238	1.45E-07		'98 Inventory	1.45E-07	Process Knowledge	Particulate	Bottle	3
59000100	184	P	U-nat	5.00E-11		'98 Inventory	2.50E-12	Process Knowledge	Particulate	Vial	3

Printed on 5/24/00

Radioactive Materials Usage Survey Interview Form

Survey Year	FY	Building	Unit	Facility Status	Facility Description
1999	59	0001	71	Active	Occupational Health Laboratory

ES ID	Room	Source Type	RAM	Inventory (Ci) (Numeric)	Inventory (Ci) (Text)	Inventory Basis	Usage (Ci)	Usage Basis	Physical State	Primary Containment	Proc #
59000100	B-4	F	Various		Various	Log Books	0.00E+00	No Usage	Various	Various	0
59000100	B-4	P	Am-243	1.20E-08		Log Books	1.20E-08	Log Books	Liquid	Bottle	1
59000100	B-4	P	Am-243	1.66E-08		Log Books	1.66E-08	Log Books	Liquid	Bottle	1
59000100	B-4	P	H-3	4.52E-05		Log Books	4.52E-05	Log Books	Gaseous	Bottle	1
59000100	B-4	P	Pu-238	1.67E-10		Log Books	8.80E-12	Log Books	Liquid	Bottle	1
59000100	B-4	P	Pu-239	4.59E-12		Log Books	4.08E-13	Log Books	Liquid	Bottle	1
59000100	B-4	P	Pu-239	1.02E-06		Log Books	1.02E-06	Log Books	Liquid	Bottle	1
59000100	B-4	P	Pu-239	1.02E-06		Log Books	1.02E-06	Log Books	Liquid	Bottle	1
59000100	B-4	P	Pu-240	7.69E-12		Log Books	1.18E-12	Log Books	Liquid	Bottle	1
59000100	B-4	P	Sr-89	1.97E-07		Log Books	1.97E-07	Log Books	Liquid	Bottle	1

Radioactive Materials Usage Survey Interview Form

Survey Year	Bldg	Building	MU	Facility Status	Facility Description
1999	59	0001	71	Active	Occupational Health Laboratory

FSID #	Room	Source (Y/N)	RAM	Inventory (Ci) (Numeric)	Inventory (Ci) (TEXT)	Inventory Basis	Usage (Ci)	Usage Basis	Physical State	Primary Containment	Proc. #
59000100	B8M	P	H-3	2.60E-09		Bounding Estimate of User	2.60E-09	Process Knowledge	Gaseous	Bottle	1

Radioactive Materials Usage Survey Interview Form

Survey Year:	TA:	Building:	FMU:	Facility Status:	Facility Description:	Facility Critical Receptor:
2001	03	0029	65	Active	Chemistry & Metallurgy Research Laboratory	County Landfill

ES ID #	Room	Proc #	Source Type	RAM	Usage (Ci)	Usage Basis	Physical state	Reduction Factor	Emission (Ci)	mrem/Ci	PEDE
03002914	2112	1	P	MT-52	1.20E+01	MASS Database	Solid	1.00E-06	1.20E-05	6.95E+01	8.34E-04
03002914	2136	2	P	MT-52	7.42E+01	MASS Database	Particulate	1.00E-03	7.42E-02	6.95E+01	5.16E+00
03002914	2116	3	P	MT-52	2.51E+00	MASS Database	Solid	1.00E-06	2.51E-06	6.95E+01	1.74E-04
03002914	2120	4	P	MT-52	1.00E-01	User Estimate	Liquid	1.00E-03	1.00E-04	6.95E+01	6.95E-03
03002914	2124	5	P	MT-52	9.77E+00	User Estimate	Solid	1.00E-06	9.77E-06	6.95E+01	6.79E-04
03002914	2126	5	P	MT-52	9.77E+00	MASS Database	Particulate	1.00E-03	9.77E-03	6.95E+01	6.79E-01
03002914	2130	6	P	MT-52	6.42E+00	MASS Database	Particulate	1.00E-03	6.42E-03	6.95E+01	4.46E-01
03002914	2130	6	P	U-en	2.32E-03	MASS Database	Particulate	1.00E-03	2.32E-06	8.74E+01	2.03E-04
03002914	Ducts	7	P	Pu-238	1.21E-02	2000 LANL Air Emissions Report	Custom	1.00E+00	1.21E-02	2.11E+02	2.55E+00

Total PEDE (mrem/year) this interview form: 8.84E+00

Printed on 04/30/2002

Radioactive Materials Us[illegible] Survey Interview Form

Survey Year:	TA:	Building:	FMU:	Facility Status:	Facility Description:	Facility Critical Receptor:
2001	03	0029	65	Active	Chemistry & Metallurgy Research Laboratory	County Landfill

ES ID #	Room	Proc #	Source Type	RAM	Usage (Ci)	Usage Basis	Physical state	Reduction Factor	Emission (Ci)	mrem/Ci	PEDE
03002915	2113	1	P	MT-52	1.00E-01	User Estimate	Liquid	1.00E-03	1.00E-04	4.03E+01	4.03E-03
03002915	2117	2	P	MT-52	2.79E+01	User Estimate	Particulate	1.00E-03	2.79E-02	4.03E+01	1.12E+00
03002915	2117	2	P	Np-237	7.04E-04	MASS Database	Particulate	1.00E-03	7.04E-07	1.88E+02	1.32E-04
03002915	2117	2	P	U-en	2.11E-04	MASS Database	Particulate	1.00E-03	2.11E-07	5.06E+01	1.07E-05
03002915	2119	2	P	MT-52	1.40E+01	User Estimate	Particulate	1.00E-03	1.40E-02	4.03E+01	5.64E-01
03002915	2125	3	P	MT-52	5.58E-01	User Estimate	Solid	1.00E-06	5.58E-07	4.03E+01	2.25E-05
03002915	2129	4	P	MT-52	5.58E+00	User Estimate	Liquid	1.00E-03	5.58E-03	4.03E+01	2.25E-01
03002915	2131	5	P	MT-52	6.42E+00	User Estimate	Particulate	1.00E-03	6.42E-03	4.03E+01	2.59E-01
03002915	2131	5	P	U-en	2.32E-03	User Estimate	Particulate	1.00E-03	2.32E-06	5.06E+01	1.17E-04
03002915	2131	6	P	MT-52	4.63E+01	MASS Database	Particulate	1.00E-03	4.63E-02	4.03E+01	1.87E+00
03002915	2131	6	P	U-en	1.05E-03	MASS Database	Particulate	1.00E-03	1.05E-06	5.06E+01	5.31E-05
03002915	2135	6	P	MT-52	2.01E+01	MASS Database	Particulate	1.00E-03	2.01E-02	4.03E+01	8.10E-01
03002915	2137	6	P	MT-52	1.93E+01	MASS Database	Particulate	1.00E-03	1.93E-02	4.03E+01	7.78E-01
03002915	2137	7	P	MT-52	7.42E+01	MASS Database	Particulate	1.00E-03	7.42E-02	4.03E+01	2.99E+00
03002915	Ducts	8	P	Am-241	1.04E-01	2000 LANL Air Emissions Report	Custom	1.00E+00	1.04E-01	2.08E+02	2.16E+01
03002915	Ducts	8	P	Pu-239	2.01E-01	2000 LANL Air Emissions Report	Custom	1.00E+00	2.01E-01	1.31E+02	2.63E+01

Total PEDE (mrem/year) this interview form: 5.66E+01

Printed on 04/30/2002

Radioactive Materials Us[illegible] Survey Interview Form

Survey Year:	TA:	Building:	FMU:	Facility Status:	Facility Description:	Facility Critical Receptor:
2002	03	0029	65	Active	Chemistry & Metallurgy Research Laboratory	County Landfill

ES ID #	Room	Proc #	Source Type	RAM	Usage (Ci)	Usage Basis	Physical state	Reduction Factor	Emission (Ci)	mrem/Ci	PEDE
03002919	Ducts	1	P	Am-241	4.55E-07	2001 LANL Air Emissions Report	Custom	1.00E+00	4.55E-07	1.83E+02	8.33E-05
03002919	Ducts	1	P	Pu-238	6.30E-07	2001 LANL Air Emissions Report	Custom	1.00E+00	6.30E-07	1.07E+02	6.74E-05
03002919	Ducts	1	P	Pu-239	1.50E-06	2001 LANL Air Emissions Report	Custom	1.00E+00	1.50E-06	1.15E+02	1.72E-04

Total PEDE (mrem/year) this interview form: 3.23E-04

Printed on 04/23/2003

Radioactive Materials Us[illegible] Survey Interview Form

Survey Year:	TA:	Building:	FMU:	Facility Status:	Facility Description:	Facility Critical Receptor:
2001	03	0029	65	Active	Chemistry & Metallurgy Research Laboratory	County Landfill

ES ID #	Room	Proc #	Source Type	RAM	Usage (Ci)	Usage Basis	Physical state	Reduction Factor	Emission (Ci)	mrem/Ci	PEDE
03002920	Ducts	1	P	Am-241	1.64E-07	2000 LANL Air Emissions Report	Custom	1.00E+00	1.64E-07	3.02E+02	4.95E-05
03002920	Ducts	1	P	Pu-238	5.65E-08	2000 LANL Air Emissions Report	Custom	1.00E+00	5.65E-08	1.77E+02	1.00E-05
03002920	Ducts	1	P	Pu-239	3.77E-07	2000 LANL Air Emissions Report	Custom	1.00E+00	3.77E-07	1.90E+02	7.16E-05

Total PEDE (mrem/year) this interview form: 1.31E-04

Printed on 04/30/2002

Radioactive Materials Us[illegible] Survey Interview Form

Survey Year:	TA:	Building:	FMU:	Facility Status:	Facility Description:	Facility Critical Receptor:
2001	03	0029	65	Active	Chemistry & Metallurgy Research Laboratory	LANL Business Center

ES ID #	Room	Proc #	Source Type	RAM	Usage (Ci)	Usage Basis	Physical state	Reduction Factor	Emission (Ci)	mrem/Ci	PEDE
03002923	4136	1	P	Am-241	1.13E+00	User Estimate	Solid	1.00E-06	1.13E-06	2.07E+02	2.34E-04
03002923	4136	1	P	MT-52	7.25E+00	MASS Database	Solid	1.00E-06	7.25E-06	4.01E+01	2.91E-04
03002923	4136	1	P	Pu-238	1.41E-02	User Estimate	Solid	1.00E-06	1.41E-08	1.21E+02	1.71E-06
03002923	4136	1	P	Pu-239	5.69E-02	User Estimate	Solid	1.00E-06	5.69E-08	1.30E+02	7.40E-06
03002923	Ducts	2	P	Am-241	8.28E-09	2000 LANL Air Emissions Report	Custom	1.00E+00	8.28E-09	2.07E+02	1.71E-06
03002923	Ducts	2	P	Pu-238	9.18E-09	2000 LANL Air Emissions Report	Custom	1.00E+00	9.18E-09	1.21E+02	1.11E-06
03002923	Ducts	2	P	Pu-239	1.43E-08	2000 LANL Air Emissions Report	Custom	1.00E+00	1.43E-08	1.30E+02	1.86E-06
03002923	Ducts	2	P	U-234	4.65E-06	2000 LANL Air Emissions Report	Custom	1.00E+00	4.65E-06	5.04E+01	2.34E-04
03002923	Ducts	2	P	U-235	1.60E-07	2000 LANL Air Emissions Report	Custom	1.00E+00	1.60E-07	4.70E+01	7.52E-06
03002923	Ducts	2	P	U-238	2.18E-07	2000 LANL Air Emissions Report	Custom	1.00E+00	2.18E-07	4.48E+01	9.77E-06

Total PEDE (mrem/year) this interview form: 7.90E-04

Printed on 04/30/2002

Radioactive Materials Us Survey Interview Form

Survey Year:	TA:	Building:	FMU:	Facility Status:	Facility Description:	Facility Critical Receptor:
2001	03	0029	65	Active	Chemistry & Metallurgy Research Laboratory	LANL Business Center

ES ID #	Room	Proc #	Source Type	RAM	Usage (Ci)	Usage Basis	Physical state	Reduction Factor	Emission (Ci)	mrem/Ci	PEDE
03002924	Ducts	1	P	Am-241	1.88E-08	2000 LANL Air Emissions Report	Custom	1.00E+00	1.88E-08	2.39E+02	4.49E-06
03002924	Ducts	1	P	Pu-238	1.24E-07	2000 LANL Air Emissions Report	Custom	1.00E+00	1.24E-07	1.40E+02	1.74E-05
03002924	Ducts	1	P	Pu-239	1.71E-08	2000 LANL Air Emissions Report	Custom	1.00E+00	1.71E-08	1.51E+02	2.58E-06
03002924	Ducts	1	P	Th-228	1.58E-07	2000 LANL Air Emissions Report	Custom	1.00E+00	1.58E-07	1.12E+02	1.77E-05
03002924	Ducts	1	P	U-234	3.40E-06	2000 LANL Air Emissions Report	Custom	1.00E+00	3.40E-06	5.82E+01	1.98E-04

Total PEDE (mrem/year) this interview form: 2.40E-04

Printed on 04/30/2002

Radioactive Materials Us[illegible] Survey Interview Form

Survey Year:	TA:	Building:	FMU:	Facility Status:	Facility Description:	Facility Critical Receptor:
2001	03	0029	65	Active	Chemistry & Metallurgy Research Laboratory	County Landfill

ES ID #	Room	Proc #	Source Type	RAM	Usage (Ci)	Usage Basis	Physical state	Reduction Factor	Emission (Ci)	mrem/Ci	PEDE
03002928	5111	1	P	D-38	1.10E-04	User Estimate	Particulate	1.00E-03	1.10E-07	4.13E+01	4.54E-06
03002928	5111	1	P	MT-52	2.23E+02	User Estimate	Particulate	1.00E-03	2.23E-01	3.59E+01	8.01E+00
03002928	5111	1	P	MT-52	2.79E+02	User Estimate	Solid	1.00E-06	2.79E-04	3.59E+01	1.00E-02
03002928	5111	1	P	U-en	7.02E-03	User Estimate	Particulate	1.00E-03	7.02E-06	4.51E+01	3.17E-04
03002928	5111	2	P	Am-241	6.41E-02	User Estimate	Liquid	1.00E-03	6.41E-05	1.86E+02	1.19E-02
03002928	5111	2	P	D-38	2.19E-05	User Estimate	Liquid	1.00E-03	2.19E-08	4.13E+01	9.04E-07
03002928	5111	2	P	MT-52	1.67E+02	User Estimate	Liquid	1.00E-03	1.67E-01	3.59E+01	6.00E+00
03002928	5111	2	P	MT-83	1.22E+03	User Estimate	Liquid	1.00E-03	1.22E+00	1.09E+02	1.33E+02
03002928	5111	2	P	Np-237	1.76E-03	User Estimate	Liquid	1.00E-03	1.76E-06	1.68E+02	2.96E-04
03002928	5111	2	P	Pu-242	2.88E-03	User Estimate	Liquid	1.00E-03	2.88E-06	1.11E+02	3.20E-04
03002928	5111	2	P	U-233	1.23E-03	User Estimate	Liquid	1.00E-03	1.23E-06	4.57E+01	5.62E-05
03002928	5111	2	P	U-en	7.02E-03	User Estimate	Liquid	1.00E-03	7.02E-06	4.51E+01	3.17E-04
03002928	5111	2	P	U-nat	6.99E-06	User Estimate	Liquid	1.00E-03	6.99E-09	9.47E+01	6.62E-07
03002928	5117	3	P	D-38	8.76E-05	User Estimate	Solid	1.00E-06	8.76E-11	4.13E+01	3.62E-09
03002928	5117	3	P	MT-52	2.79E+01	User Estimate	Solid	1.00E-06	2.79E-05	3.59E+01	1.00E-03
03002928	5125	4	P	MT-83	3.06E+02	User Estimate	Liquid	1.00E-03	3.06E-01	1.09E+02	3.34E+01
03002928	5137	5	P	MT-52	6.98E+00	User Estimate	Liquid	1.00E-03	6.98E-03	3.59E+01	2.51E-01
03002928	5137	5	P	U-en	1.40E-03	User Estimate	Liquid	1.00E-03	1.40E-06	4.51E+01	6.31E-05
03002928	Ducts	6	P	Am-241	1.06E-01	2000 LANL Air Emissions Report	Custom	1.00E+00	1.06E-01	1.86E+02	1.97E+01
03002928	Ducts	6	P	Pu-238	3.83E+00	2000 LANL Air Emissions Report	Custom	1.00E+00	3.83E+00	1.09E+02	4.17E+02
03002928	Ducts	6	P	Pu-239	6.08E-01	2000 LANL Air Emissions Report	Custom	1.00E+00	6.08E-01	1.17E+02	7.11E+01

Total PEDE (mrem/year) this interview form: 6.89E+02

Printed on 04/30/2002

Radioactive Materials U[illegible] Survey Interview Form

Survey Year:	TA:	Building:	FMU:	Facility Status:	Facility Description:	Facility Critical Receptor:
2001	03	0029	65	Active	Chemistry & Metallurgy Research Laboratory	County Landfill

ES ID #	Room	Proc #	Source Type	RAM	Usage (Ci)	Usage Basis	Physical state	Reduction Factor	Emission (Ci)	mrem/Ci	PEDE
03002929	5114	1	P	U-233	9.63E-02	User Estimate	Liquid	1.00E-03	9.63E-05	4.41E+01	4.25E-03
03002929	5114	1	P	U-en	7.02E-04	User Estimate	Liquid	1.00E-03	7.02E-07	4.34E+01	3.05E-05
03002929	5110	2	P	D-38	4.38E-06	User Estimate	Liquid	1.00E-03	4.38E-09	3.98E+01	1.74E-07
03002929	5110	2	P	MT-52	2.79E+00	User Estimate	Liquid	1.00E-03	2.79E-03	3.46E+01	9.65E-02
03002929	5110	2	P	Np-237	7.04E-03	User Estimate	Liquid	1.00E-03	7.04E-06	1.62E+02	1.14E-03
03002929	5110	2	P	Pu-242	1.18E-02	User Estimate	Liquid	1.00E-03	1.18E-05	1.07E+02	1.26E-03
03002929	5122	3	P	Am-243	1.99E-03	User Estimate	Liquid	1.00E-03	1.99E-06	1.79E+02	3.56E-04
03002929	5122	3	P	D-38	4.27E-06	User Estimate	Liquid	1.00E-03	4.27E-09	3.98E+01	1.70E-07
03002929	5122	3	P	MT-52	1.45E+01	User Estimate	Liquid	1.00E-03	1.45E-02	3.46E+01	5.02E-01
03002929	5122	3	P	MT-83	1.19E+00	User Estimate	Liquid	1.00E-03	1.19E-03	1.05E+02	1.25E-01
03002929	5122	3	P	Np-237	9.65E-05	User Estimate	Liquid	1.00E-03	9.65E-08	1.62E+02	1.56E-05
03002929	5122	3	P	Pu-242	3.94E-03	User Estimate	Liquid	1.00E-03	3.94E-06	1.07E+02	4.22E-04
03002929	5122	3	P	U-233	9.05E-03	User Estimate	Liquid	1.00E-03	9.05E-06	4.41E+01	3.99E-04
03002929	5122	3	P	U-en	2.25E-03	User Estimate	Liquid	1.00E-03	2.25E-06	4.34E+01	9.77E-05
03002929	5122	3	P	U-nat	3.50E-05	User Estimate	Liquid	1.00E-03	3.50E-08	9.13E+01	3.20E-06
03002929	5134	4	P	MT-52	6.98E+00	User Estimate	Liquid	1.00E-03	6.98E-03	3.46E+01	2.42E-01
03002929	5134	4	P	U-en	1.40E-03	User Estimate	Liquid	1.00E-03	1.40E-06	4.34E+01	6.08E-05
03002929	5068	5	P	U-233	1.93E-02	User Estimate	Particulate	1.00E-03	1.93E-05	4.41E+01	8.51E-04
03002929	5068	5	P	U-en	3.51E+00	User Estimate	Particulate	1.00E-03	3.51E-03	4.34E+01	1.52E-01
03002929	Ducts	6	P	Pu-238	1.98E-02	2000 LANL Air Emissions Report	Custom	1.00E+00	1.98E-02	1.05E+02	2.08E+00

Total PEDE (mrem/year) this interview form: 3.20E+00

Printed on 04/30/2002

Radioactive Materials Us[illegible] Survey Interview Form

Survey Year:	TA:	Building:	FMU:	Facility Status:	Facility Description:	Facility Critical Receptor:
2001	03	0029	65	Active	Chemistry & Metallurgy Research Laboratory	County Landfill

ES ID #	Room	Proc #	Source Type	RAM	Usage (Ci)	Usage Basis	Physical state	Reduction Factor	Emission (Ci)	mrem/Ci	PEDE
03002932	7122	1	P	D-38	1.16E-08	Spreadsheet	Liquid	1.00E-03	1.16E-11	4.87E+01	5.65E-10
03002932	7122	1	P	MT-52	1.65E+00	Spreadsheet	Liquid	1.00E-03	1.65E-03	4.22E+01	6.96E-02
03002932	7128	2	P	D-38	3.47E-07	Spreadsheet	Liquid	1.00E-03	3.47E-10	4.87E+01	1.69E-08
03002932	7128	2	P	MT-52	1.29E+01	Spreadsheet	Liquid	1.00E-03	1.29E-02	4.22E+01	5.44E-01
03002932	7128	2	P	U-en	1.76E-05	Spreadsheet	Liquid	1.00E-03	1.76E-08	5.31E+01	9.35E-07
03002932	7132	3	P	D-38	3.47E-07	Spreadsheet	Liquid	1.00E-03	3.47E-10	4.87E+01	1.69E-08
03002932	7132	3	P	MT-52	1.35E+01	Spreadsheet	Liquid	1.00E-03	1.35E-02	4.22E+01	5.70E-01
03002932	7132	3	P	U-en	1.76E-05	Spreadsheet	Liquid	1.00E-03	1.76E-08	5.31E+01	9.35E-07
03002932	7136	4	P	MT-83	1.19E+02	Spreadsheet	Particulate	1.00E-03	1.19E-01	1.28E+02	1.52E+01

Total PEDE (mrem/year) this interview form: 1.64E+01

Printed on 04/30/2002

Radioactive Materials U[illegible] Survey Interview Form

Survey Year:	TA:	Building:	FMU:	Facility Status:	Facility Description:	Facility Critical Receptor:
2001	03	0029	65	Active	Chemistry & Metallurgy Research Laboratory	County Landfill

ES ID #	Room	Proc #	Source Type	RAM	Usage (Ci)	Usage Basis	Physical state	Reduction Factor	Emission (Ci)	mrem/Ci	PEDE
03002933	7115	1	P	Am-241	4.12E-01	User Estimate	Liquid	1.00E-03	4.12E-04	2.25E+02	9.27E-02
03002933	7115	1	P	MT-52	3.35E+01	User Estimate	Liquid	1.00E-03	3.35E-02	4.34E+01	1.45E+00
03002933	7117	2	P	Am-241	4.12E-01	User Estimate	Liquid	1.00E-03	4.12E-04	2.25E+02	9.27E-02
03002933	7117	2	P	MT-52	3.35E+01	User Estimate	Liquid	1.00E-03	3.35E-02	4.34E+01	1.45E+00
03002933	7121	3	P	D-38	5.26E-06	User Estimate	Particulate	1.00E-03	5.26E-09	5.00E+01	2.63E-07
03002933	7121	3	P	MT-52	1.67E+01	User Estimate	Liquid	1.00E-03	1.67E-02	4.34E+01	7.25E-01
03002933	7121	3	P	U-en	8.42E-04	User Estimate	Particulate	1.00E-03	8.42E-07	5.45E+01	4.59E-05
03002933	7131	4	P	MT-52	9.71E+01	User Estimate	Particulate	1.00E-03	9.71E-02	4.34E+01	4.21E+00
03002933	7131	4	P	U-en	8.42E-04	User Estimate	Particulate	1.00E-03	8.42E-07	5.45E+01	4.59E-05
03002933	7051	5	P	Am-241	4.12E-02	User Estimate	Liquid	1.00E-03	4.12E-05	2.25E+02	9.27E-03
03002933	7051	5	P	Am-243	2.39E-01	User Estimate	Liquid	1.00E-03	2.39E-04	2.24E+02	5.35E-02
03002933	7051	5	P	MT-52	1.00E+01	User Estimate	Liquid	1.00E-03	1.00E-02	4.34E+01	4.34E-01
03002933	7051	5	P	Np-237	2.53E-06	User Estimate	Liquid	1.00E-03	2.53E-09	2.03E+02	5.14E-07
03002933	7051	5	P	Np-239	8.35E+02	User Estimate	Liquid	1.00E-03	8.35E-01	1.47E-03	1.23E-03

Total PEDE (mrem/year) this interview form: 8.53E+00

Printed on 04/30/2002

Radioactive Materials Usa Survey Interview Form

Survey Year:	TA:	Building:	FMU:	Facility Status:	Facility Description:	Facility Critical Receptor:
2001	03	0029	65	Active	Chemistry & Metallurgy Research Laboratory	County Landfill

ES ID #	Room	Proc #	Source Type	RAM	Usage (Ci)	Usage Basis	Physical state	Reduction Factor	Emission (Ci)	mrem/Ci	PEDE
03002946	9141	1	P	U-en	2.25E-01	MASS Database	Particulate	1.00E-03	2.25E-04	5.85E+01	1.32E-02
03002946	9141	2	P	U-en	2.53E-02	MASS Database	Particulate	1.00E-03	2.53E-05	5.85E+01	1.48E-03
03002946	9141	3	P	D-38	9.81E-02	MASS Database	Particulate	1.00E-03	9.81E-05	5.36E+01	5.26E-03
03002946	9163	4	P	Am-241	2.74E+02	MASS Database	Liquid	1.00E-03	2.74E-01	2.41E+02	6.60E+01
03002946	9163	4	P	Am-243	1.99E-01	MASS Database	Liquid	1.00E-03	1.99E-04	2.41E+02	4.80E-02
03002946	9163	4	P	Np-237	5.63E+00	MASS Database	Liquid	1.00E-03	5.63E-03	2.18E+02	1.23E+00
03002946	9163	4	P	Pa-233	2.07E+00	MASS Database	Liquid	1.00E-03	2.07E-03	9.00E-03	1.86E-05
03002946	9160	5	P	Ar-39	6.14E-02	Safety Basis Documentation	Particulate	1.00E-03	6.14E-05	1.29E-04	7.92E-09
03002946	9160	5	P	Au-195	1.27E+01	Safety Basis Documentation	Particulate	1.00E-03	1.27E-02	1.77E-01	2.25E-03
03002946	9160	5	P	Be-7	1.04E+01	Safety Basis Documentation	Particulate	1.00E-03	1.04E-02	2.13E-03	2.22E-05
03002946	9160	5	P	Ca-45	1.94E+01	Safety Basis Documentation	Particulate	1.00E-03	1.94E-02	4.23E-01	8.21E-03
03002946	9160	5	P	Ce-139	5.47E-02	Safety Basis Documentation	Particulate	1.00E-03	5.47E-05	2.12E-01	1.16E-05
03002946	9160	5	P	Co-56	9.45E+01	Safety Basis Documentation	Particulate	1.00E-03	9.45E-02	3.06E+00	2.89E-01
03002946	9160	5	P	Co-57	3.07E+02	Safety Basis Documentation	Particulate	1.00E-03	3.07E-01	3.09E-02	9.49E-03
03002946	9160	5	P	Co-58	1.29E+02	Safety Basis Documentation	Particulate	1.00E-03	1.29E-01	5.55E-02	7.16E-03
03002946	9160	5	P	Co-60	4.90E+01	Safety Basis Documentation	Particulate	1.00E-03	4.90E-02	2.56E+00	1.25E-01
03002946	9160	5	P	Dy-159	5.58E-02	Safety Basis Documentation	Particulate	1.00E-03	5.58E-05	2.48E-02	1.38E-06
03002946	9160	5	P	Fe-55	6.79E+02	Safety Basis Documentation	Particulate	1.00E-03	6.79E-01	8.84E-04	6.00E-04
03002946	9160	5	P	Fe-59	1.92E+00	Safety Basis Documentation	Particulate	1.00E-03	1.92E-03	4.15E-02	7.97E-05
03002946	9160	5	P	Ge-68	3.27E-01	Safety Basis Documentation	Particulate	1.00E-03	3.27E-04	2.75E+00	8.99E-04
03002946	9160	5	P	H-3	1.68E+02	Safety Basis Documentation	Gaseous	1.00E+00	1.68E+02	6.56E-05	1.10E-02
03002946	9160	5	P	Hf-172	1.42E-01	Safety Basis Documentation	Particulate	1.00E-03	1.42E-04	2.41E-01	3.42E-05
03002946	9160	5	P	Hf-175	3.75E-01	Safety Basis Documentation	Particulate	1.00E-03	3.75E-04	4.58E-02	1.72E-05

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03002946	9160	5	P	Hf-181	7.09E-07	Safety Basis Documentation	Particulate	1.00E-03	7.09E-10	2.36E-02	1.67E-11
03002946	9160	5	P	Hg-194	2.32E-02	Safety Basis Documentation	Particulate	1.00E-03	2.32E-05	3.99E+01	9.26E-04
03002946	9160	5	P	Hg-203	5.11E-01	Safety Basis Documentation	Particulate	1.00E-03	5.11E-04	1.24E-02	6.34E-06
03002946	9160	5	P	Ir-189	2.27E-04	Safety Basis Documentation	Particulate	1.00E-03	2.27E-07	4.58E-03	1.04E-09
03002946	9160	5	P	Ir-192	1.75E-02	Safety Basis Documentation	Particulate	1.00E-03	1.75E-05	5.89E-02	1.03E-06
03002946	9160	5	P	Lu-172	1.02E-09	Safety Basis Documentation	Particulate	1.00E-03	1.02E-12	4.78E-02	4.88E-14
03002946	9160	5	P	Lu-173	3.36E-01	Safety Basis Documentation	Particulate	1.00E-03	3.36E-04	9.23E-02	3.10E-05
03002946	9160	5	P	Lu-174	1.35E-04	Safety Basis Documentation	Particulate	1.00E-03	1.35E-07	1.11E-01	1.50E-08
03002946	9160	5	P	Mn-52	1.00E-03	Safety Basis Documentation	Particulate	1.00E-03	1.00E-06	1.96E-01	1.96E-07
03002946	9160	5	P	Mn-54	6.71E+02	Safety Basis Documentation	Particulate	1.00E-03	6.71E-01	1.88E-01	1.26E-01
03002946	9160	5	P	Na-22	7.91E+03	Safety Basis Documentation	Particulate	1.00E-03	7.91E+00	1.32E+00	1.04E+01
03002946	9160	5	P	Nb-92m	2.01E-03	Safety Basis Documentation	Particulate	1.00E-03	2.01E-06	4.87E-02	9.79E-08
03002946	9160	5	P	Nb-93m	8.37E-01	Safety Basis Documentation	Particulate	1.00E-03	8.37E-04	1.59E-02	1.33E-05
03002946	9160	5	P	Nb-95	3.76E-02	Safety Basis Documentation	Particulate	1.00E-03	3.76E-05	2.35E-02	8.84E-07
03002946	9160	5	P	Ni-56	1.28E-09	Safety Basis Documentation	Particulate	1.00E-03	1.28E-12	3.24E-01	4.15E-13
03002946	9160	5	P	Ni-63	2.40E+00	Safety Basis Documentation	Particulate	1.00E-03	2.40E-03	1.10E-03	2.64E-06
03002946	9160	5	P	Os-185	1.32E+00	Safety Basis Documentation	Particulate	1.00E-03	1.32E-03	5.50E-01	7.26E-04
03002946	9160	5	P	P-32	2.51E+00	Safety Basis Documentation	Particulate	1.00E-03	2.51E-03	3.11E-03	7.81E-06
03002946	9160	5	P	P-33	2.32E+00	Safety Basis Documentation	Particulate	1.00E-03	2.32E-03	2.29E-01	5.31E-04
03002946	9160	5	P	Pt-193	2.70E-01	Safety Basis Documentation	Particulate	1.00E-03	2.70E-04	3.06E-02	8.26E-06
03002946	9160	5	P	Rb-83	2.55E-01	Safety Basis Documentation	Particulate	1.00E-03	2.55E-04	1.62E+00	4.13E-04
03002946	9160	5	P	Re-183	9.94E-01	Safety Basis Documentation	Particulate	1.00E-03	9.94E-04	2.31E-02	2.30E-05
03002946	9160	5	P	Re-184	1.68E-02	Safety Basis Documentation	Particulate	1.00E-03	1.68E-05	3.67E-01	6.17E-06
03002946	9160	5	P	Rh-102	2.56E-02	Safety Basis Documentation	Particulate	1.00E-03	2.56E-05	8.46E-01	2.17E-05
03002946	9160	5	P	S-35	2.47E+01	Safety Basis Documentation	Particulate	1.00E-03	2.47E-02	3.51E-04	8.67E-06
03002946	9160	5	P	Sc-46	7.21E+01	Safety Basis Documentation	Particulate	1.00E-03	7.21E-02	1.31E-01	9.45E-03
03002946	9160	5	P	Se-75	3.55E-01	Safety Basis Documentation	Particulate	1.00E-03	3.55E-04	3.24E+00	1.15E-03

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03002946	[illegible]	5	P	Sr-85	1.09E+00	Safety Basis Documentation	Particulate	1.00E-03	1.09E-03	3.06E-01	3.34E-04
03002946	9160	5	P	Ta-179	5.41E-01	Safety Basis Documentation	Particulate	1.00E-03	5.41E-04	1.16E-02	6.28E-06
03002946	9160	5	P	Ta-182	1.81E-04	Safety Basis Documentation	Particulate	1.00E-03	1.81E-07	1.22E+00	2.21E-07
03002946	9160	5	P	Te-121	3.14E-04	Safety Basis Documentation	Particulate	1.00E-03	3.14E-07	5.50E-01	1.73E-07
03002946	9160	5	P	Ti-44	1.42E-01	Safety Basis Documentation	Particulate	1.00E-03	1.42E-04	8.87E+01	1.26E-02
03002946	9160	5	P	Tl-202	2.15E-03	Safety Basis Documentation	Particulate	1.00E-03	2.15E-06	1.10E-01	2.37E-07
03002946	9160	5	P	Tl-204	4.37E+00	Safety Basis Documentation	Particulate	1.00E-03	4.37E-03	4.58E-01	2.00E-03
03002946	9160	5	P	Tm-170	2.02E-06	Safety Basis Documentation	Particulate	1.00E-03	2.02E-09	1.67E-01	3.37E-10
03002946	9160	5	P	V-48	4.17E+00	Safety Basis Documentation	Particulate	1.00E-03	4.17E-03	5.50E-01	2.29E-03
03002946	9160	5	P	V-49	5.31E+02	Safety Basis Documentation	Particulate	1.00E-03	5.31E-01	3.44E-03	1.83E-03
03002946	9160	5	P	W-178	1.49E-02	Safety Basis Documentation	Particulate	1.00E-03	1.49E-05	8.61E-03	1.28E-07
03002946	9160	5	P	W-181	1.53E+00	Safety Basis Documentation	Particulate	1.00E-03	1.53E-03	4.05E-03	6.20E-06
03002946	9160	5	P	W-185	1.74E-06	Safety Basis Documentation	Particulate	1.00E-03	1.74E-09	7.04E-04	1.22E-12
03002946	9160	5	P	Y-88	2.00E+00	Safety Basis Documentation	Particulate	1.00E-03	2.00E-03	2.04E+00	4.08E-03
03002946	9160	5	P	Y-91	5.11E-02	Safety Basis Documentation	Particulate	1.00E-03	5.11E-05	2.25E-02	1.15E-06
03002946	9160	5	P	Yb-169	2.41E-02	Safety Basis Documentation	Particulate	1.00E-03	2.41E-05	1.49E-01	3.59E-06
03002946	9160	5	P	Zn-65	1.38E+00	Safety Basis Documentation	Particulate	1.00E-03	1.38E-03	1.16E-01	1.60E-04
03002946	9160	5	P	Zr-88	1.41E+00	Safety Basis Documentation	Particulate	1.00E-03	1.41E-03	3.81E+00	5.37E-03
03002946	9160	5	P	Zr-95	5.59E-02	Safety Basis Documentation	Particulate	1.00E-03	5.59E-05	1.00E-01	5.59E-06
03002946	9010a	6	P	Am-241	6.86E-01	User Estimate	Liquid	1.00E-03	6.86E-04	2.41E+02	1.65E-01
03002946	9010a	6	P	MT-52	9.77E+01	User Estimate	Liquid	1.00E-03	9.77E-02	4.66E+01	4.55E+00
03002946	9010a	6	P	Np-237	1.06E-04	User Estimate	Liquid	1.00E-03	1.06E-07	2.18E+02	2.31E-05
03002946	Ducts	7	P	Pu-239	8.75E-08	2000 LANL Air Emissions Report	Custom	1.00E+00	8.75E-08	1.52E+02	1.33E-05
03002946	9163	8	P	Ar-41	2.10E-09	ESH-ID Memo	Gaseous	1.00E+00	2.10E-09	3.49E-04	7.33E-13

Total PEDE (mrem/year) this interview form: 8.31E+01

Printed on 04/30/2002

Radioactive Material[illegible] Survey Interview Form

Survey Year:	TA:	Building:	Facility Status:	Monitored?	Facility Critical Receptor:
2003	03	0035	Active	☐	County Landfill

ES ID #	Room	Proc #	Source Type	RAM	Usage (Ci)	Usage Basis	Physical state	Reduction Factor	Emission (Ci)	mrem/Ci	PEDE
03003501	None	1	P	U-en	1.05E-02	MASS Database	Particulate	1.00E-03	1.05E-05	1.33E+02	1.40E-03

Total PEDE (mrem/year) this interview form: 1.40E-03

Printed on 06/10/2004

Radioactive Materials U[illegible]e Survey Interview Form

Survey Year:	TA:	Building:	FMU:	Facility Status:	Facility Description:	Facility Critical Receptor:
2002	03	0035	73	Active	Press Building	County Landfill

ES ID #	Room	Proc #	Source Type	RAM	Usage (Ci)	Usage Basis	Physical state	Reduction Factor	Emission (Ci)	mrem/Ci	PEDE
03003599	101	1	P	D-38	3.31E-01	Log Sheets	Solid	1.00E-06	3.31E-07	1.29E+02	4.27E-05

Total PEDE (mrem/year) this interview form: 4.27E-05

Printed on 04/23/2003

Radioactive Material[illegible] Survey Interview Form

Survey Year: 2003 | TA: 03 | Building: 0066 | Facility Status: Active | Monitored? ☐ | Facility Critical Receptor: County Landfill

ES ID #	Room	Proc #	Source Type	RAM	Usage (Ci)	Usage Basis	Physical state	Reduction Factor	Emission (Ci)	mrem/Ci	PEDE
03006601	B100	1	P	D-38	5.93E-11	Log Sheets	Custom	1.00E+00	5.93E-11	1.07E+02	6.35E-09
03006601	B3	2	P	D-38	4.91E-03	Log Sheets	Particulate	1.00E-03	4.91E-06	1.07E+02	5.25E-04
03006601	B100	3	P	Cs-137	1.16E-07	Waste Profile Forms	Particulate	1.00E-03	1.16E-10	3.64E+00	4.22E-10
03006601	B100	3	P	D-38	8.79E-04	Waste Profile Forms	Particulate	1.00E-03	8.79E-07	1.07E+02	9.41E-05
03006601	Duct	4	P	D-38	1.96E-06	Historic Monitoring Data	Custom	1.00E+00	1.96E-06	1.07E+02	2.10E-04
03006601	G105	5	P	D-38	1.15E-04	Log Books	Particulate	1.00E-03	1.15E-07	1.07E+02	1.23E-05
03006601	G105	6	P	D-38	1.15E-04	Log Books	Custom	1.00E-01	1.15E-05	1.07E+02	1.23E-03
03006601	B107	7	P	D-38	8.67E-02	MASS Database	Solid	1.00E-06	8.67E-08	1.07E+02	9.28E-06
03006601	G105	8	P	D-38	2.98E-05	Log Books	Particulate	1.00E-03	2.98E-08	1.07E+02	3.19E-06
03006601	G6	9	P	D-38	4.38E-05	User Estimate	Particulate	1.00E-03	4.38E-08	1.07E+02	4.69E-06
03006601	G5	10	P	D-38	4.15E-05	Log Books	Custom	1.01E-03	4.19E-08	1.07E+02	4.48E-06
03006601	B101	11	P	D-38	7.39E-02	Log Sheets	Custom	4.26E-04	3.15E-05	1.07E+02	3.37E-03

Total PEDE (mrem/year) this interview form: 5.46E-03

Printed on 06/10/2004

Radioactive Material[illegible] Survey Interview Form

Survey Year:	TA:	Building:	Facility Status:	Monitored?	Facility Critical Receptor:
2003	03	0066	Active	☐	County Landfill

ES ID #	Room	Proc #	Source Type	RAM	Usage (Ci)	Usage Basis	Physical state	Reduction Factor	Emission (Ci)	mrem/Ci	PEDE
03006602	B100	1	P	D-38	2.73E-02	Log Sheets	Particulate	1.00E-03	2.73E-05	1.15E+02	3.14E-03

Total PEDE (mrem/year) this interview form: 3.14E-03

Printed on 06/10/2004

Radioactive Materials Survey Interview Form

Survey Year:	TA:	Building:	Facility Status:	Monitored?	Facility Critical Receptor:
2003	03	0066	Active	☐	County Landfill

ES ID #	Room	Proc #	Source Type	RAM	Usage (Ci)	Usage Basis	Physical state	Reduction Factor	Emission (Ci)	mrem/Ci	PEDE
03006603	D106	1	P	D-38	2.63E-05	User Knowledge	Particulate	1.00E-03	2.63E-08	1.07E+02	2.81E-06
03006603	D2	2	P	D-38	4.38E-05	User Estimate	Particulate	1.00E-03	4.38E-08	1.07E+02	4.69E-06

Total PEDE (mrem/year) this interview form: 7.50E-06

Printed on 06/10/2004

Radioactive Material Survey Interview Form

Survey Year:	TA:	Building:	Facility Status:	Monitored?	Facility Critical Receptor:
2003	03	0066	Active	☐	County Landfill

ES ID #	Room	Proc #	Source Type	RAM	Usage (Ci)	Usage Basis	Physical state	Reduction Factor	Emission (Ci)	mrem/Ci	PEDE
03006604	R100	1	P	D-38	9.07E-02	Database	Particulate	1.00E-03	9.07E-05	9.55E+01	8.66E-03
03006604	R100	2	P	D-38	7.73E-01	Database	Particulate	1.00E-03	7.73E-04	9.55E+01	7.38E-02
03006604	R108	3	P	D-38	1.10E-05	User Knowledge	Liquid	1.00E-03	1.10E-08	9.55E+01	1.05E-06

Total PEDE (mrem/year) this interview form: 8.25E-02

Printed on 06/10/2004

Radioactive Materials Survey Interview Form

Survey Year:	TA:	Building:	Facility Status:	Monitored?	Facility Critical Receptor:
2003	03	0066	Active	☐	County Landfill

ES ID #	Room	Proc #	Source Type	RAM	Usage (Ci)	Usage Basis	Physical state	Reduction Factor	Emission (Ci)	mrem/Ci	PEDE
03006605	P-Area	1	P	D-38	8.76E-01	User Estimate	Custom	1.00E-06	8.76E-07	9.28E+01	8.13E-05

Total PEDE (mrem/year) this interview form: 8.13E-05

Printed on 06/10/2004

Radioactive Materials Survey Interview Form

Survey Year:	TA:	Building:	Facility Status:	Monitored?	Facility Critical Receptor:
2003	03	0066	Active	☐	County Landfill

ES ID #	Room	Proc #	Source Type	RAM	Usage (Ci)	Usage Basis	Physical state	Reduction Factor	Emission (Ci)	mrem/Ci	PEDE
03006606	S103	1	P	D-38	2.19E-06	User Estimate	Particulate	1.00E-03	2.19E-09	9.96E+01	2.18E-07

Total PEDE (mrem/year) this interview form: 2.18E-07

Printed on 06/10/2004

Radioactive Material Survey Interview Form

Survey Year:	TA:	Building:	Facility Status:	Monitored?	Facility Critical Receptor:
2003	03	0066	Active	☐	County Landfill

ES ID #	Room	Proc #	Source Type	RAM	Usage (Ci)	Usage Basis	Physical state	Reduction Factor	Emission (Ci)	mrem/Ci	PEDE
03006626	B107	1	P	D-38	2.73E-02	Log Sheets	Particulate	1.00E-03	2.73E-05	1.31E+02	3.58E-03
03006626	B107	2	P	D-38	9.64E-03	MASS Database	Solid	1.00E-06	9.64E-09	1.31E+02	1.26E-06

Total PEDE (mrem/year) this interview form: 3.58E-03

Printed on 06/10/2004

Radioactive Materials Survey Interview Form

Survey Year:	TA:	Building:	Facility Status:	Monitored?	Facility Critical Receptor:
2003	03	0066	Active	☐	County Landfill

ES ID #	Room	Proc #	Source Type	RAM	Usage (Ci)	Usage Basis	Physical state	Reduction Factor	Emission (Ci)	mrem/Ci	PEDE
03006699	H107	1	P	D-38	1.21E-03	Database	Particulate	1.00E-03	1.21E-06	1.17E+02	1.42E-04
03006699	H106	2	P	D-38	1.21E-03	Database	Particulate	1.00E-03	1.21E-06	1.17E+02	1.42E-04
03006699	H105B	3	P	D-38	1.21E-03	Database	Liquid	1.00E-03	1.21E-06	1.17E+02	1.42E-04

Total PEDE (mrem/year) this interview form: 4.25E-04

Printed on 06/10/2004

Radioactive Materials Usage Survey Interview Form

Survey Year:	TA:	Building:	FMU:	Facility Status:	Facility Description:	Facility Critical Receptor:
2002	03	0102	70	Active	Fabrication	LANL Business Center

ES ID #	Room	Proc #	Source Type	RAM	Usage (Ci)	Usage Basis	Physical state	Reduction Factor	Emission (Ci)	mrem/Ci	PEDE
03010222	118	1	P	D-38	5.26E-01	User Knowledge	Particulate	1.00E-03	5.26E-04	8.73E+01	4.59E-02
03010222	118	1	P	Th-232	1.09E-05	User Knowledge	Particulate	1.00E-03	1.09E-08	4.56E+02	4.97E-06
03010222	Duct	2	P	U-234	4.20E-05	2001 LANL Air Emissions Report	Custom	1.00E+00	4.20E-05	9.54E+01	4.01E-03
03010222	Duct	2	P	U-235	1.98E-06	2001 LANL Air Emissions Report	Custom	1.00E+00	1.98E-06	8.90E+01	1.76E-04
03010222	Duct	2	P	U-238	8.96E-07	2001 LANL Air Emissions Report	Custom	1.00E+00	8.96E-07	8.49E+01	7.61E-05

Total PEDE (mrem/year) this interview form: 5.02E-02

Printed on 04/23/2003

Radioactive Materials Survey Interview Form

Survey Year:	TA:	Building:	Facility Status:	Monitored?	Facility Critical Receptor:
2003	03	0102	Active	☐	LANL Business Center

ES ID #	Room	Proc #	Source Type	RAM	Usage (Ci)	Usage Basis	Physical state	Reduction Factor	Emission (Ci)	mrem/Ci	PEDE
03010225	110	1	P	D-38	1.10E-03	User Estimate	Particulate	1.00E-03	1.10E-06	9.59E+01	1.05E-04
03010225	110	1	P	D-38	9.86E-03	User Estimate	Solid	1.00E-06	9.86E-09	9.59E+01	9.46E-07
03010225	110	2	P	Th-230	2.00E-05	1996 LANL Air Emissions Report	Custom	1.00E+00	2.00E-05	2.00E+02	4.00E-03
03010225	110	2	P	U-234	1.00E-05	1996 LANL Air Emissions Report	Custom	1.00E+00	1.00E-05	1.05E+02	1.05E-03
03010225	110	2	P	U-238	5.80E-05	1996 LANL Air Emissions Report	Custom	1.00E+00	5.80E-05	9.32E+01	5.41E-03

Total PEDE (mrem/year) this interview form: 1.06E-02

Printed on 06/10/2004

Appendix D Buildings Slated to be Vacated

Facility	Type	Building Lifetime (years)	% of space to rad. complex	sqft (ext gross)	sqft (ext gross) to rad complex	Year Built	Occupiable sqft	Occupiable sqft to rad complex	Deferred Maintenance to Rad Complex	FY04 O&M to Rad Complex	RPV to Rad Complex
46-24	'99 permanent	31	50%	24,160	12080	1958	17,035	8517.5			
46-31	'03 permanent	31	25%	25,534	6383.5	1958	20,034	5008.5			
46-158	'99 permanent	31	15%	5,854	878.1	1981	4,307	646.05			
46-200	'03 permanent	31	50%	3,509	1754.5	1986	2,382	1191			
46-250	permanent	31	100%	4,244	4244	1992	2,875	2875			
48-1	'03 permanent	31	100%	105,836	105836	1957	50,703	50703			
48-8	permanent	31	100%	4,061	4061	1966	3,738	3738			
48-17	permanent	31	100%	1,570	1570	1979	1,319	1319			
48-26	permanent	36	100%	293	293	1980	254	254			
48-27	transportable	16	100%	288	288	1981	253	253			
48-29	transportable	16	100%	3,360	3360	1982	2,627	2627			
48-33	transportable	16	100%	288	288	1985	253	253			
48-34	transportable	16	100%	3,382	3382	1984	2,678	2678			
48-46	transportable	16	100%	1,695	1695	1985	1,448	1448			
48-47	transportable	16	100%	1,695	1695	1985	1,237	1237			
48-149	trailer	16	100%	727	727	1985	509	509			
48-154	trailer	16	100%	1,454	1454	1988	998	998			
48-208	transportable	16	100%	2,514	2514	1988	2,268	2268			
48-214	transportable	16	100%	1,431	1431	2003	944	944			
59-1	'99 permanent	31	25%	53,901	13475.25	1967	31,499	7874.75			
Sub-total					167409.35		147,361	95,342	$16,808,452	$2,634,451	$35,389,097
3-29	'01 permanent	31	7%	566,849	42,380	1953	204,383	14,920	$3,674,620	$722,436	$121,545,000
3-35	'03 permanent	31	100%	15,713	15713	1954	6,532	6532	$3,593,082	$76,413	$3,154,610
3-169	permanent	40	100%	6,252	6252	1964	6,066	6066	$166,675	$12,614	$491,294

Facility	Type	Building Lifetime (years)	% of space to rad. complex	sqft (ext gross)	sqft (ext gross) to rad complex	Year Built	Occupiable sqft	Occupiable sqft to rad complex	Deferred Maintenance to Rad Complex	FY04 O&M to Rad Complex	RPV to Rad Complex
18-297	permanent	40	100%	874	874	1997	840	840			
18-300	trailer	16	100%	1,662	1662	2001	1,297	1297			
18-301	trailer	16	100%	1,110	1110	2001	631	631			
Sub-total					180099		114,841	114841			
3-102	permanent	31	100%	29,365	29365	1957	22,735	22735			
Total					634,795			381,759			

Attachment 18 M

3.4
Location of
Release Point
MRSC existing
facilities data

X-Sieve: CMU Sieve 2.2
X-Sender: u115611@esh-mail.lanl.gov
X-Mailer: QUALCOMM Windows Eudora Version 6.0.0.22
Date: Mon, 23 May 2005 07:45:22 -0600
To: mshurter@lanl.gov, kwj@lanl.gov
From: Jackie Hurtle <jhurtle@lanl.gov>
Subject: Fwd: stack data
X-PMX-Version: 4.7.0.111621

Keith,

Thanks for the help

> X-Sieve: CMU Sieve 2.2
> X-Sender: u095449@esh-mail.lanl.gov
> X-Mailer: QUALCOMM Windows Eudora Version 6.0.0.22
> Date: Fri, 20 May 2005 15:24:03 -0600
> To: jhurtle@lanl.gov
> From: "Keith W. Jacobson" <kwj@lanl.gov>
> Subject: stack data
> X-PMX-Version: 4.7.0.111621
>
> Jackie this is the best I can get on the info request, can you forward it to the nice lady.
> It's 88 degrees in my building, I'm going home now.
>
> -<->-<->-<->-<->-<->-<><->-<->-<->-
> Keith W. Jacobson 505-665-6080
> Meteorology and Air Quality Group
> Los Alamos National Lab, USA
> -<->-<->-<->-<->-<->-<><->-<->-<->-

==========

Jackie Hurtle
Meteorology and Air Quality Group
Environmental Stewardship Division
Los Alamos National Laboratory
(505)665-4380 phone
(505)665-8858 fax
jhurtle@lanl.gov


misc_stacks_info.xls

46002499	1,630,890	1,765,915			
46003199	1,631,455	1,766,275			
46015899	1,631,533	1,765,418			

48000107	1,623,591	1,770,693	13.40	0.30	
48000111	1,623,645	1,770,270	20.10	1.80	
48000115	1,623,655	1,770,645	19.80	1.52	
48000140	1,623,604	1,770,684	25.91	0.79	
48000145	1,623,700	1,770,215	21.34		
48000151	1,623,684	1,770,639			
48000154	1,623,744	1,770,650	13.11	0.91	
48000160	1,623,613	1,770,638	12.42	0.38	

59000199	1,620,670	1,771,150			

03002914	1,619,176	1,772,806	15.88	1.07	6.60
03002915	1,619,171	1,772,805	15.88	1.05	16.40
03002919	1,619,252	1,772,350	15.88	1.07	28.70
03002920	1,619,257	1,772,352	15.88	1.07	2.40
03002923	1,618,691	1,772,719	15.88	1.07	23.20
03002924	1,618,686	1,772,718	15.88	1.06	15.80
03002928	1,618,774	1,772,265	15.88	1.05	17.60
03002929	1,618,767	1,772,265	15.88	1.07	17.70
03002932	1,619,268	1,772,267	15.88	1.07	18.40
03002933	1,619,272	1,772,269	15.88	1.06	14.40
03002937	1,618,966	1,772,397	16.80	0.20	16.30
03002944	1,618,987	1,772,121	16.50	1.52	11.30
03002945	1,618,977	1,772,120	16.50	1.52	8.20
03002946	1,618,982	1,772,121	16.50	1.88	5.30

03003501	1,619,949	1,772,577	12.00	0.86	5.40

03006601	1,620,180	1,772,680	19.80	2.80	
03006602	1,620,315	1,772,770	13.70	0.40	
03006603			15.40	1.80	
03006604	1,620,425	1,772,485	19.80	1.20	
03006605	1,620,245	1,772,460	15.16		
03006606	1,620,400	1,772,370	14.20		
03006622			12.20		
03006625	1,620,190	1,772,755	12.20	0.30	
03006626	1,620,200	1,772,760	12.20	0.30	
03006628			12.20		

35021305	1,626,113.0	1,769,630.0	18.30	0.90	
03010222	1,618,354	1,772,074	13.40	0.91	29.50
03010225	1,618,342	1,772,128	11.90	0.25	

Attachment 21 MRSC -3.16 -3.19
5.2
Bryan Carlson

C and MST Division Waste Volume Forecast

Radioactive Liquid Waste

MST Division Facilities discharged 1.8 million liters of radioactive liquid waste in FY-04. C Division Facilities discharged 2.8 million liters. Of these totals, MST is currently in the process of trying to reduce 120,000 liters per year of discharges from their beryllium laundry operations in FY-05. In FY-06, MST Division plans on eliminate their condensate discharges from their electroplating baths for a total reduction of 800,000 liters per year. C division is implementing a project in FY-05 to reduce their discharges from the wash down of perchloric acid exhaust duct by 500,000 liters per year. Based on completion of these projects, the following table presents the minimum and maximum discharges from MST and C divisions.

	RLWTF Discharges (MLPY)					
Division	FY-05	FY-06	FY-07	FY-08	FY-09	FY-10
MST	1.8	1.7	0.9	0.9	0.9	0.9
C	2.8	2.3	2.3	2.3	2.3	2.3
Total	4.6	4.0	3.2	3.2	3.2	3.2

Low Level Waste

	Waste Volumes (m^3)		
Division	**FY-03**	**FY-04**	**Projection**
MST	24.7	90.5	60
C	172.5	26.4	60

In FY-04 MST Division disposed of a large amount of LLW from the cleanout of the press building. C division disposed of a large amount of environmental waste from their permeable reactive barrier project. Routine LLW generation ranged from a low of 5 to 25 cubic meters. Building modifications and equipment replacement will continue to add a lot of uncertainty to low level waste projections. In the last 5 years, MST division has generated 293 m^3 of low level waste and C division has generated 278 cubic meters. With the uncertainties associated with any projections, a 5 year average projection makes the most sense. Based on a 5 year average, it is expected that both divisions will continue to generate approximately 60 m^3 of LLW annually.

Hazardous Waste (RCRA,TSCA, State)

	Waste Volumes (kg)		
Division	**FY-03**	**FY-04**	**Projection**
MST	3661	11,317	8,000
C	190,079	2,835	6,000

In FY-03 MST division disposed of several capacitors and in FY-04 several ovens containing asbestos. C division disposed of a large volume of soil in FY-03. Eliminating

Brijan Carlson

RLW by Bids/Tot 5.2

CAAC	IND	3	29	$0.06	70.00
CAAC	LLW	3	29	$0.06	97,103.40
CAAC	LLW	55	3	$0.06	170.34
CACS	IND	3	66	$0.06	200.00
CACS	IND	59	1	$0.06	200.00
CACS	LLW	59	1	$0.06	200.00
C-DO	LLW	48	1	$0.06	130.00
CINC	IND	48	1	$0.06	2.40
CINC	IND	48	45	$0.06	12.00
CINC	LLW	48	1	$0.06	47,648.23
CINC	LLW	48	45	$0.06	117.00
CINC	IND	48	1	$0.06	265,320
CINC	IND	48	1	$0.06	281,376
CINC	IND	48	1	$0.06	244,680
CINC	IND	48	45	$0.06	1,946,844
CINC	IND	59	1	$0.06	500.00
CSIC	LLW	3	29	$0.06	7,570.80
CSIC	IND	48	0	$0.06	7,192.26
CSIC	IND	48	1	$0.06	11,242.26
CSIC	LLW	48	1	$0.06	1,500.00
CST11	IND	48	1	$0.06	169.20
CST11	IND	48	45	$0.06	360.00
CST11	LLW	48	1	$0.06	1,426.35
CST18	IND	48	1	$0.06	8,007.72
CST18	IND	48	107	$0.06	26,365.00
CST18	LLW	48	1	$0.06	5,917.09
CST3	IND	3	29	$0.06	50.00
CST7	IND	48	45	$0.06	42.00
CST7	LLW	48	45	$0.06	7,129.20
CST8	LLW	3	29	$0.06	1,000.00
CST9	IND	3	141	$0.06	200.00
CST9	IND	59	1	$0.06	1.00
CST9	LLW	59	1	$0.06	853.20
MST6	IND	3	66	$0.06	850,000
MST6	IND	3	141	$0.06	855,500.40
MST6	LLW	3	34	$0.06	2.00
MST6	LLW	3	66	$0.06	11,356.20
MST7	IND	35	213	$0.06	83,657.34
MST8	IND	3	1698	$0.06	13,627.44

Radiological Consolidation Project
Conceptual Estimate (+ or - 30%)

Attachment 29 MRSC

CAPITAL		
A/E Services		
Design - Office Buildings		
Design - Lab Buildings		
Design - Hot Cell Building		
Tiitle III Office Buildings		
Tiitle III Lab Buildings		
Tiitle III Hot Cell Building		
LANL Construction Services		
Office Buildings		
Lab Buildings		
Hot Cell Building		
Construction	Net sq ft	Gross sq ft
Construction Office Bldg. (1)	35,000	56,000
Construction Office Bldg. (7)	40,000	64,000
Construction Office Bldg. (8)	45,000	72,000
ConstructionLab Bldg. (2)	45,000	72,000
ConstructionLab Bldg. (3)	30,000	48,000
ConstructionLab Bldg. (4)	30,000	48,000
ConstructionLab Bldg. (5)	60,000	96,000
ConstructionLab Bldg. (6)	30,000	48,000
ConstructionLab Bldg. (9)	40,000	64,000
ConstructionLab Bldg. (10)	33,000	52,800
ConstructionLab Bldg. (12)	10,000	16,000
ConstructionLab Bldg. (13)	30,000	48,000
Construction Hot Cell Bldg. (11)	15,000	24,000
Parking Structure/Lots		
Security Fence		
PIDAS Fence		
Project Management		
@20% of Design/Construction cost		
Engineering Services		
Design Review @ 10% of Design cost		

Radiological Consolidation Project
Conceptual Estimate (+ or - 30%)

ESH Support		
OPCs		
Project Development		
@ 2% of TEC		
Operational Readiness Reviews		
@ 5% of TEC		
Project Closeout/Turnover		
@ 2% of TEC		

Design cost based on12% of the construction costs for office buildi
Rates for labor are estimates based on current FY labor rates with
A/E Title III Services based on 1% of construction cost.
This estimate does not include any costs associated with the D&D
PIDAS costs includes fencing, electronics, site work, site improven
This estimate does not include escalation.

Space type	AFC-Secure	AFC - open	C-secure	C-open	MST-secure	MST-open	N-Secure	N-open	B-open		
High-hazard chemistry; perchloric acid hoods, gloveboxes; plating operations; TRU operations; (similar to the CMR-R non-nuclear space); HEPA filtration	3000	4000	1,000	5,000							
Low-hazard, wet chemistry, HEPA filtration, radiochemistry, cold chemistry			9,000	39,000							
Light lab, dry lab, no chemistry, no processing, light manufacturing; instrument area, HEPA filtration				20,000			[redacted]				
High-bay, rigging, reinforced floors; heavy manufacturing, machining; HEPA filtration					20,000						
"Unfiltered" open bay lab space; storage; "light" radiological labs with no HEPA, no chemistry or high bay				5,000			32000	47000			
totals	3000	4000	10,000	69,000	20000	0	37000	47000	0		
total osf 308,000	**3,000**	**4,000**	**10,000**	**69,000**	**114,000**	**23,000**	**37,000**	**47,000**	**1,000**		**308,000**

Attachment 29 MRSC

TA-48 LOW HAZARD CHEMISTRY BUILDING
STATEMENT OF WORK

SITEWORK:

1. Install 15' wide x 375' asphalt driveway with curbing.
2. Install two 24" x 30' culverts and swales for storm water drainage.

UTILITIES:

1. Trench and install 6" water line. Tie into existing 6" C.I. approx. 100'.
2. Trench and install 2" gas line. Tie into existing 2" P.E. approx. 100'.
3. Trench and install 6" sanitary sewer line. Tie into existing 6" approx.100'.
4. Trench and install 6" conduit and wiring to new transformer. Tie into existing electrical manhole 48-150. Approx. 100'.
5. Trench and install two 4" telecommunication conduits. Tie into existing manhole approx. 100'.
6. Trench and install 6" Rad. liquid waste line. Tie into existing Rad. Liquid waste line approx. 100'.

CONCRETE:

1. Install 120' x 75' x 6" concrete pad with reinforcing.
2. Install 390' x 6' x 6" side walk with wire mesh.
3. Install 8' x 16' x 3' concrete pad for exhaust fan and stack.
4. Install 8' x 10' x 6" concrete pad for condensing unit.
5. Install 8' x 8' x 6" concrete pad for transformer.
6. Install concrete block walls 15' high x 390'..
7. Install 120' x 75' x 4" concrete roof deck.

STRUCTURAL STEEL:

1. Install metal roof joists 48" on center.
2. Install 120' x 75' metal roof deck.
3. Install 10' high x 1200 lin. ft'. wall joists.

ROOFING:

1. Install 120' x 75' x 4" roofing board insulation.
2. Install 120' x 75' x 45 mil. Hypalon roofing.

FINISHES:

1. Install 10' high x 1800 lin. ft. x 5/8" drywall.
2. Install 10' high x 120 lin. ft. ceramic tile for bathrooms.
3. Tape, texture and paint interior finishes.
4. Install four exterior doors with badge and palm reader hardware.
5. Install 48 interior doors with hardware.
6. Install twenty four 8' x 6' windows.
7. Install 120' x 75' flooring finish.

HVAC:

1. Install pad mounted interior HVAC unit gas fired heating with DX cooling.
2. Install ducted overhead ceiling supply with diffusers.
3. Install DDC controls package.
4. Install 50 gal. water heater.
5. Install two exhaust fans for bathroom.

EXHAUST:

1. Install pad mounted exhaust fans and stacks.
2. Install indoor scrubber and duct wash down system.
3. Install six 8' and twenty four 4' hoods. Hoods supplied with electric, D.I. water and Rad. Drains.

PLUMBING:

1. Install two handicap water closets in bathroom.
2. Install two handicap lavatory in bathroom.
3. Install service sink in Janitor's closet.
4. Install four exterior wall hydrants.
5. Install waste and vent system.

PLUMBING SPECIALTIES:

1. Install fifteen emergency showers.
2. Install twelve eye washes.
3. Install D.I. water system to hoods.
4. Install Rad. Liquid waste piping system.

FIRE PROTECTION:

1. Install sprinkler riser and distribution system per LANL Standards.
2. Install fire alarm system per LANL Standards.

ELECTRICAL:

1. Install pad mounted transformer.
2. Install 480/277V panel board.
3. Install 480/277V- 120/208V transformer.
4. Install 277V fluorescent lighting system per LANL Standards.
5. Install 120V, 20 amp receptacle system per LANL Standards.
6. Install outdoor security lighting system.
7. Install lightning protection and grounding system per LANL Standards.

SECURITY:

1. Install badge and palm readers on exterior doors.
2. Install ARGUS system in building.

LANDSCAPING:

1. Install proper drainage per FWO-Utilities Standards.
2. Install Xeroscape landscaping on front of building.

3. Install erosion control before, during and post construction.

George Martinez
Project Leader, ENG-DECS
Ph: 665-5247
Cell: 699-1180
Pager: 664-4132

TA-48 OPEN BAY LAB STORAGE BUILDING
STATEMENT OF WORK

SITEWORK:

1. Install 15' wide x 100' asphalt driveway with curbing.
2. Install two 24" x 30' culverts and swales for storm water drainage.

UTILITIES:

1. Trench and install 6" water line. Tie into existing 6" C.I. approx. 100'.
2. Trench and install 2" gas line. Tie into existing 2" P.E. approx. 100'.
3. Trench and install 6" sanitary sewer line. Tie into existing 6" approx.100'.
4. Trench and install 6" conduit and wiring to new transformer. Tie into existing electrical manhole 48-150. Approx. 100'.
5. Trench and install two 4" telecommunication conduits. Tie into existing manhole approx. 100'.

CONCRETE:

1. Install 125' x 40' x 6" concrete pad with reinforcing.
2. Install 330' x 6' x 6" side walk with wire mesh.
3. Install 8' x 10' x 6" concrete pad for condensing unit.
4. Install 8' x 8' x 6" concrete pad for transformer.
5. Install concrete block walls 15' high x 330'.
6. Install 125' x 40' x 4" concrete roof deck.

STRUCTURAL STEEL:

1. Install metal roof joists 48" on center.
2. Install 125' x 40' metal roof deck.

ROOFING:

1. Install 125' x 40' x 4" roofing board insulation.
2. Install 125' x 40' x 45 mil. Hypalon roofing.

FINISHES:

1. Install 10' high x 120 lin. ft. ceramic tile for bathrooms.
2. Tape, texture and paint interior finishes.
3. Install four exterior doors with badge and palm reader hardware.
4. Install 2 interior doors with hardware.
5. Install eight 8' x 6' windows.
6. Install 125' x 40' flooring finish.

HVAC:

1. Install pad mounted interior HVAC unit gas fired heating with DX cooling.
2. Install ducted overhead ceiling supply with diffusers.
3. Install DDC controls package.

4. Install 50 gal. water heater.
5. Install two exhaust fans for bathrooms.

EXHAUST:

1. Install two bathroom exhaust fans.

PLUMBING:

1. Install two handicap water closets in bathroom.
2. Install two handicap lavatory in bathroom.
3. Install service sink in Janitor's closet.
4. Install four exterior wall hydrants.
5. Install waste and vent system.

PLUMBING SPECIALTIES:

1. Install 2 emergency showers.
2. Install 2 eye washes.

FIRE PROTECTION:

1. Install sprinkler riser and distribution system per LANL Standards.
2. Install fire alarm system per LANL Standards.

ELECTRICAL:

1. Install pad mounted transformer.
2. Install 480/277V panel board.
3. Install 480/277V- 120/208V transformer.
4. Install 277V fluorescent lighting system per LANL Standards.
5. Install 120V, 20 amp receptacle system per LANL Standards.
6. Install outdoor security lighting system.
7. Install lightning protection and grounding system per LANL Standards.

SECURITY:

1. Install badge and palm readers on exterior doors.

LANDSCAPING:

1. Install proper drainage per FWO-Utilities Standards.
2. Install Xeriscape landscaping on front of building.
3. Install erosion control before, during and post construction.

George Martinez
Project Leader, ENG-DECS
Ph: 665-5247
Cell: 699-1180
Pager: 664-4132

TA-48 HIGH HAZARD CHEMISTRY BUILDING
STATEMENT OF WORK

REMOVALS:

1. Remove existing security lighting (2) with concrete bases.
2. Remove approximately 140 lin. ft. of security fence.

SITEWORK:

1. Cut and fill 70' x 110' x 8 ' deep site for building.
2. Install two 4' high x 120' long concrete retaining walls.
3. Install 15' wide x 375' asphalt driveway with curbing.
4. Install two 24" x 30' culverts and swales for storm water drainage.

UTILITIES:

1. Trench and install 6" water line. Tie into existing 6" C.I. approx. 30'.
2. Trench and install 2" gas line. Tie into existing 2" P.E. approx. 200'.
3. Trench and install 6" sanitary sewer line. Tie into existing 6" approx. 40'.
4. Trench and install 6" conduit and wiring to new transformer. Tie into existing electrical manhole 48-150. Approx. 100'.
5. Trench and install two 4" telecommunication conduits. Tie into existing manhole approx. 75'.
6. Trench and install 6" Rad. liquid waste line. Tie into existing Rad. Liquid waste line approx. 50'.

CONCRETE:

1. Install 75' x 40' x 6" concrete pad with reinforcing.
2. Install 75' x 40' x 6" basement concrete pad with reinforcing.
3. Install 3 -'6" wide concrete stairs to basement.
4. Install 20' x 20' x 6" concrete pad for temporary storage.
5. Install 300' x 6' x 6" side walk with wire mesh.
6. Install 8' x 16' x 3' concrete pad for exhaust fan and stack.
7. Install 8' x 10' x 6" concrete pad for condensing unit.
8. Install 8' x 8' x 6" concrete pad for transformer.
9. Install concrete block walls 15' high x 230'.
10. Install high strength concrete block 8' high x 230'.
11. Install 75' x 40' x 4" concrete roof deck.

STRUCTURAL STEEL:

1. Install metal roof joists 48" on center.
2. Install 75' x 40' metal roof deck.
3. Install 10' high x 400 lin. ft'. wall joists.

ROOFING:

1. Install 75' x 40' x 4" roofing board insulation.
2. Install 75' x 40' x 45 mil. Hypalon roofing.

FINISHES:

1. Install 10' high x 600 lin. ft. x 5/8" drywall.
2. Install 10' high x 120 lin. ft. ceramic tile for bathrooms.
3. Tape, texture and paint interior finishes.
4. Install four exterior doors with badge and palm reader hardware.
5. Install sixteen interior doors with hardware.
6. Install eight 8' x 6' windows.
7. Install 75' x 40' flooring finish.

HVAC:

1. Install pad mounted interior HVAC unit gas fired heating with DX cooling.
2. Install ducted overhead ceiling supply with diffusers.
3. Install DDC controls package.
4. Install 50 gal. water heater.
5. Install one exhaust fan for bathroom.

EXHAUST:

1. Install pad mounted exhaust fans and stacks.
2. Install indoor scrubber and duct wash down system.
3. Install two 8' and eight 4' perchloric hoods with wash downs. Hoods supplied with electric, D.I. water and Rad. Drains.
4. Install eight 4' chemical hoods.
5. Install four 4' glove boxes taps on ductwork for future.

PLUMBING:

1. Install one handicap water closets in bathroom.
2. Install one handicap lavatory in bathroom.
3. Install service sink in Janitor's closet.
4. Install sump pump in basement.
5. Install four exterior wall hydrants.
6. Install waste and vent system.

PLUMBING SPECIALTIES:

1. Install five emergency showers.
2. Install four eye washes.
3. Install D.I. water system to hoods.
4. Install Rad. Liquid waste piping system.

FIRE PROTECTION:

1. Install sprinkler riser and distribution system per LANL Standards.
2. Install fire alarm system per LANL Standards.

ELECTRICAL:

1. Install pad mounted transformer.
2. Install 480/277V panel board.

3. Install 480/277V- 120/208V transformer.
4. Install 277V fluorescent lighting system per LANL Standards.
5. Install 120V, 20 amp receptacle system per LANL Standards.
6. Install outdoor security lighting system.
7. Install lightning protection and grounding system per LANL Standards.

SECURITY:

1. Install badge and palm readers on exterior doors.
2. Install ARGUS system in building.

LANDSCAPING:

1. Install proper drainage per FWO-Utilities Standards.
2. Install Xeroscape landscaping on front of building.
3. Install erosion control before, during and post construction.

George Martinez
Project Leader, ENG-DECS
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TA-48 LIGHT LAB BUILDING
STATEMENT OF WORK

SITEWORK:

1. Cut and fill 75' x 150' x 8 ' deep site for building.
2. Install 15' wide x 750' asphalt driveway with curbing.
3. Install two 24" x 30' culverts and swales for storm water drainage.

UTILITIES:

1. Trench and install 6" water line. Tie into existing 6" C.I. approx. 100'.
2. Trench and install 2" gas line. Tie into existing 2" P.E. approx. 100'.
3. Trench and install 6" sanitary sewer line. Tie into existing 6" approx. 10'.
4. Trench and install 6" conduit and wiring to new transformer. Tie into existing electrical manhole. Approx. 100'.
5. Trench and install two 4" telecommunication conduits. Tie into existing manhole approx. 100'.

CONCRETE:

1. Install 50' x 100' x 6" concrete pad with reinforcing.
2. Install 50' x 100' x 6" basement concrete pad with reinforcing.
3. Install 6 -'6" wide concrete stairs to basement..
4. Install 300' x 6' x 6" side walk with wire mesh.
5. Install 8' x 16' x 3' concrete pad for exhaust fan and stack.
6. Install 8' x 20' x 6" concrete pad for condensing unit.
7. Install 8' x 8' x 6" concrete pad for transformer.
8. Install concrete block walls 15' high x 300'.
9. Install high strength concrete block 8' high x 300'.
10. Install 50' x 100' x 4" concrete roof deck.

STRUCTURAL STEEL:

1. Install metal roof joists 48" on center.
2. Install 50' x 100' metal roof deck.
3. Install 10' high x 2800 lin. ft'. wall joists.

ROOFING:

1. Install 50' x 100' x 4" roofing board insulation.
2. Install 50' x 100' x 45 mil. Hypalon roofing.

FINISHES:

1. Install 10' high x 4200 lin. ft. x 5/8" drywall.
2. Install 10' high x 480 lin. ft. ceramic tile for bathrooms.
3. Tape, texture and paint interior finishes.
4. Install four exterior doors with badge and palm reader hardware.
5. Install 112 interior doors with hardware.
6. Install 56 windows.

7. Install 100' x 200' flooring finish.

HVAC:

1. Install pad mounted interior HVAC unit gas fired heating with DX cooling.
2. Install ducted overhead ceiling supply with diffusers.
3. Install DDC controls package.
4. Install 100 gal. water heater.
5. Install 4 exhaust fans for bathrooms.

EXHAUST:

1. Install pad mounted exhaust fans and stacks.

PLUMBING:

1. Install 4 handicap water closets in bathroom.
2. Install 4 handicap lavatory in bathroom.
3. Install 2 service sinks in Janitor's closets.
4. Install sump pump in basement.
5. Install four exterior wall hydrants.
6. Install waste and vent system.

PLUMBING SPECIALTIES:

1. Install five emergency showers.
2. Install four eye washes.

FIRE PROTECTION:

1. Install sprinkler riser and distribution system per LANL Standards.
2. Install fire alarm system per LANL Standards.

ELECTRICAL:

1. Install pad mounted transformer.
2. Install 480/277V panel board.
3. Install 480/277V- 120/208V transformer.
4. Install 277V fluorescent lighting system per LANL Standards.
5. Install 120V, 20 amp receptacle system per LANL Standards.
6. Install outdoor security lighting system.
7. Install lightning protection and grounding system per LANL Standards.

SECURITY:

1. Install badge and palm readers on exterior doors.

LANDSCAPING:

1. Install proper drainage per FWO-Utilities Standards.
2. Install Xeroscape landscaping on front of building.
3. Install erosion control before, during and post construction.

George Martinez

Project Leader, ENG-DECS
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Cell: 699-1180
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TA-48 HIGH BAY BUILDING
STATEMENT OF WORK

SITEWORK:

1. Install 15' wide x 750' asphalt driveway with curbing.
2. Install two 24" x 30' culverts and swales for storm water drainage.

UTILITIES:

1. Trench and install 6" water line. Tie into existing 6" C.I. approx. 100'.
2. Trench and install 2" gas line. Tie into existing 2" P.E. approx. 100'.
3. Trench and install 6" sanitary sewer line. Tie into existing 6" approx.100'.
4. Trench and install 6" conduit and wiring to new transformer. Tie into existing electrical manhole 48-150. Approx. 100'.
5. Trench and install two 4" telecommunication conduits. Tie into existing manhole approx. 100'.

CONCRETE:

1. Install 100' x 200' x 12" concrete pad with reinforcing.
2. Install 600' x 6' x 6" side walk with wire mesh.
3. Install 8' x 16' x 3' concrete pad for exhaust fan and stack.
4. Install 8' x 10' x 6" concrete pad for condensing unit.
5. Install 8' x 8' x 6" concrete pad for transformer.
6. Install concrete block walls 20' high x 600'.
7. Install 100' x 200' x 4" concrete roof deck.

STRUCTURAL STEEL:

1. Install metal roof joists 48" on center.
2. Install 100' x 200' metal roof deck.
3. Install 20' high x 1200 lin. ft'. wall joists.
4. Install 100' long 14x10 structural steel I beam for over head crane.
5. Install 2- 16' high 14x10 structural steel I beams to support over head crane.

ROOFING:

1. Install 100' x 200' x 4" roofing board insulation.
2. Install 100' x 200' x 45 mil. Hypalon roofing.

FINISHES:

1. Install 20' high x 1000 lin. ft. x 5/8" drywall.
2. Install 10' high x 1600 lin. ft. ceramic tile for bathrooms.
3. Tape, texture and paint interior finishes.
4. Install four exterior doors with badge and palm reader hardware.
5. Install 48 interior doors with hardware.
6. Install twenty four 8' x 6' windows.
7. Install 100' x 200' flooring finish.

HVAC:

1. Install pad mounted interior HVAC unit gas fired heating with DX cooling.
2. Install ducted overhead ceiling supply with diffusers.
3. Install DDC controls package.
4. Install 100 gal. water heater.
5. Install 4 exhaust fans for bathroom.

EXHAUST:

1. Install pad mounted exhaust fans and stacks.

PLUMBING:

1. Install 4 handicap water closets in bathroom.
2. Install 4 handicap lavatory in bathroom.
3. Install 2 service sinks in Janitor's closets.
4. Install four exterior wall hydrants.
5. Install waste and vent system.

PLUMBING SPECIALTIES:

1. Install fifteen emergency showers.
2. Install twelve eye washes.

FIRE PROTECTION:

1. Install sprinkler riser and distribution system per LANL Standards.
2. Install fire alarm system per LANL Standards.

ELECTRICAL:

1. Install pad mounted transformer.
2. Install 480/277V panel board.
3. Install 480/277V- 120/208V transformer.
4. Install 277V fluorescent lighting system per LANL Standards.
5. Install 120V, 20 amp receptacle system per LANL Standards.
6. Install outdoor security lighting system.
7. Install lightning protection and grounding system per LANL Standards.

SECURITY:

1. Install badge and palm readers on exterior doors.
2. Install ARGUS system in building.

LANDSCAPING:

1. Install proper drainage per FWO-Utilities Standards.
2. Install Xeroscape landscaping on front of building.
3. Install erosion control before, during and post construction.

George Martinez
Project Leader, ENG-DECS
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Cell: 699-1180
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Table 2-1. Environmental Permits or Approvals under Which the Laboratory Operated during 2001 (Cont.)

Category	Approved Activity	Issue Date	Expiration Date	Administering Agency
CWA Sections 404/401 Permits (Cont.)	TA-9 to TA-15 Natural Gas Line Replacement	June 17, 1999	June 17, 2001	COE/NMED
	TA-48 Wetlands Improvement	July 9, 1999	July 9, 2001	COE/NMED
	TA-72 Firing Range Maintenance	July 13, 1999	July 13, 2001	COE/NMED
	Gas Line Leak Repair-LA Canyon	July 16, 1999	When repair completed	COE/NMED
	Cañon de Valle Filtration Weir	June 25, 1999	June 25, 2001	COE/NMED
	Gaging Station Clean-Outs	February 22, 2000	February 22, 2002	COE/NMED
	PRV Installation near TA-2	February 23, 2000	February 23, 2002	COE/NMED
	R-7 Well Access Road	March 24, 2000	March 24, 2002	COE/NMED
	TA-11 Erosion Control/Fire Road Project	April 11, 2000	April 11, 2002	COE/NMED
	Sandia Canyon Wetland Characterization	April 13, 2000	April 13, 2002	COE/NMED
	Organic Biocontaminants Study	May 26, 2000	May 26, 2002	COE/NMED
	Cerro Grande Emergency Operations	June 23, 2000	June 23, 2002	COE/NMED
	COE Projects	July 20, 2000	July 20, 2002	COE/NMED
	Pajarito Flood Retention Structure	July 18, 2000	July 18, 2002	COE/NMED
	Los Alamos/Pueblo Low Head Weirs	July 23, 2000	July 23, 2002	COE/NMED
	Gas Line Replacement in Los Alamos Canyon	September 18, 2000	September 18, 2002	COE/NMED
	Martin Spring Filtration Weir	October 31, 2000	October 31, 2002	COE/NMED
	PRS 3-056 (c), PCB Cleanup	November 17, 2000	November 17, 2002	COE/NMED
	PRS 16-020 Photo Processing Cleanup	November 22, 2000	November 22, 2002	COE/NMED
Groundwater Discharge Plan, Fenton Hill	Discharge to groundwater	June 5, 2000	June 5, 2005	NMOCD[d]
Groundwater Discharge Plan, TA-46 SWS Facility[e]	Discharge to groundwater	January 7, 1998	January 7, 2003	NMED
Groundwater Discharge Plan, Sanitary Sewage Sludge Land Application	Land application of dry sanitary sewage sludge	June 30, 1995	June 30, 2000**	NMED
Groundwater Discharge Plan, TA-50, Radioactive Liquid Waste Treatment Facility	Discharge to groundwater	submitted August 20, 1996 approval pending		NMED

State of New Mexico
ENVIRONMENT DEPARTMENT
Surface Water Quality Bureau
Harold Runnels Building
1190 St. Francis Drive, P.O. Box 26110
Santa Fe, New Mexico 87502
(505) 827-0187

GARY E. JOHNSON
GOVERNOR

MARK E. WEIDLER
SECRETARY

EDGAR T. THORNTON, III
DEPUTY SECRETARY

February 10, 1997

Lieutenant Colonel Lloyd E. Wagner
Albuquerque District, U.S. Army Corps of Engineers
4101 Jefferson Plaza NE
Albuquerque, NM 87109

Re: State of New Mexico Section 401 Water Quality Certification of Nationwide Section 404 permits

Dear Lt. Col. Wagner:

Under authority delegated by the New Mexico Water Quality Control Commission, the New Mexico Environment Department (NMED) has reviewed the Nationwide Permits (NWP) final rule in the Federal Register dated December 13, 1996. This letter updates NMED's January 24, 1992 letter to your office regarding State of New Mexico Section 401 water quality certification of the Section 404 Nationwide permits as proposed in the Federal Register on June 17, 1996.

NMED agrees with your staff that the following permits do not apply in New Mexico: 1 (aids to navigation), 2 (structures in artificial canals), 8 (oil and gas structures), 9 (structures in fleeting and anchorage areas), 10 (mooring buoys) 11 (temporary recreational structures), and 24 (state administered Section 404 programs). The State therefore waives its right to certification for these NWPs only. The State finds that all other proposed NWPs should be subject to State water quality certification under Section 401 of the Clean Water Act.

NMED hereby issues unconditional section 401 certification for the following NWPs: 20 (oil spill cleanup), 22 (vessel removal), 27 (wetland restoration), 30 (moist soil management for wildlife), and 38 (hazardous and toxic waste cleanup). In addition, the State issues unconditional certification for incidental discharges authorized under NWP 18 (minor discharges). "Incidental" is defined in this certification as any activity that causes the placement or dislodging of rock or soil in a manner that is not meant to be the discharge of dredged or fill material. Such amounts typically are extremely small in nature (1/10 cubic yard or less). Actions such as rock skipping, driving across a stream at a low water crossing, or the accidental dislodging of stream substrate during activities such as hiking or fishing are examples of incidental discharges.

NMED finds that discharges permitted under the following permits could adversely affect the State's waters to an extent which would negatively affect designated uses: 3 (maintenance), 4 (fish and wildlife harvesting, enhancement, and attraction devices and activities), 5 (scientific measurement devices, 6 (survey activities), 7 (outfall structures) 12 (utility line backfill and bedding), 13 (bank stabilization) 14 (road crossings), 15 (U.S. Coast Guard approved bridges), 16 (return water from upland contained disposal areas), 17 (hydropower projects), 18 (minor discharges), 19 (25 cubic yard dredging), 21 (surface coal mining), 23 (approved categorical exclusions), 25 (structural discharges), 26 (headwaters and isolated waters discharges). 28 (modifications of existing marinas), 29 (single family housing), 31 (maintenance of existing flood control projects), 32 (completed enforcement activities), 33 (temporary construction and access), 34 (cranberry production), 35 (maintenance dredging of existing basins), 36 (boat ramps), 37 (emergency watershed protection), and 40 (farm buildings). To prevent such impacts, the following conditions are specifically included in the certification for the permits listed above.

1. Fill material placed in a watercourse or in a location and manner where a reasonable probability exists that the material will be moved to the watercourse shall be free of toxic materials or materials which may decompose to become a toxic material.

2. No work shall be performed in or near any perennial surface water or perennial reach of an interrupted or intermittent surface water of the State under any of the conditioned Nationwide Permits until the permittee has notified the Surface Water Quality Bureau of the NMED and has received NMED approval of plans and specifications detailing how water quality standards will be attained.

3. No work shall be done under any of the conditioned Nationwide permits in any wetland of the State (as defined in the New Mexico Water Quality Control Commission's *Water Quality Standards for Interstate and Intrastate Streams in New Mexico*) greater than 1/3 acre in size until the permittee has notified the Surface Water Quality Bureau of the NMED and has received NMED approval of plans and specifications detailing how water quality standards will be attained.

The following conditions apply to NWP 12 only:

1. All utility lines must be installed perpendicular or as close as possible to perpendicular to a channel to minimize disturbance.

2. Applicants must justify the need to cross wetlands or streams. Certification shall not be issued until all reasonable alternatives have been explored that avoid construction or maintenance in waters of the State.

3. The project must be restored to pre-construction contours and stabilized with native vegetation.

Los Alamos
NATIONAL LABORATORY

Los Alamos National Laboratory
Los Alamos, New Mexico 87545

Date: September 7, 1999
In Reply Refer To: ESH-18/WQ&H:99-0328
Mail Stop: K497
Telephone: (505) 665-8135

Ms. Sandra Maes
Surface Water Quality Bureau
N.M. Environment Department
P.O. Box 26110
Santa Fe, NM 87502

Mr. Andrew Rosenau
Regulatory Branch
Albuquerque District Corps of Engineers
4191 Jefferson Plaza NE
Albuquerque, NM 87109

SUBJECT: 404/401 APPLICATION FOR THE TA-48 WETLAND IMPROVEMENT PROJECT

Dear Ms. Maes and Mr. Rosenau:

Enclosed is a copy of the joint 404/401 Application and supplemental information for the Los Alamos National Laboratory's "TA-48 Wetland Improvement Project". The goal of this project is to redirect stormwater into the main part of the TA-48 wetland and reduce the rate of erosion downstream.

If you have any questions regarding this matter, please contact me at (505) 665-8135, or Mike Saladen at (505) 665-6085.

Sincerely,

Marc Bailey
Water Quality and Hydrology Group

MB/rm

Attachments: a/s

Cy: Joe Vozella, w/o att., DOE/LAAO, MS A316
Bob Enz, w/o att., DOE/LAAO, MS A316
Steve Yanicak, w/att., DOE/OB, MS J993
Mike Alexander, w/att., ESH-18, MS K497
Steven Rae, w/o att., ESH-18, MS K497
Bob Beers, w/o att., ESH-18, MS K497
WQ&H File, w/att., MS K497
CIC-10, w/att., MS A150

JOINT APPLICATION FOR DEPARTMENT OF THE ARMY PERMIT AND NM WATER QUALITY CERTIFICATION
(33 CFR 325) (33 CFR 325.2.6)

OMB APPROVAL NO. 0710-003
Expires October 1998

...reporting burden for this collection of information is estimated to average 5 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data ne... ...mpleting and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Departme... ...Defense, Washington Headquarters Service Directorate of Information Operations and Reports, 1215 Jefferson Davis Highway, Suite 1204, Arlington, VA 22202-4302; and to the Office of Management and Budget, Paperw... ...Reduction Project (-710-0003), Washington, DC 20503. Please DO NOT RETURN your form to either of those addresses. Completed applications must be submitted to the District Engineer having jurisdiction over the locatic... of the proposed activity.

PRIVACY ACT STATEMENT

Authority: 33 USC 401, Section 10; 1413, Section 404, Principle Purpose: These laws require permits authorizing activities in, or affecting, navigable waters of the United States, the discharge of dredged or fill material into Waters of the United States, and the transportation of dredged material for the purpose of dumping it into ocean waters. Routing Uses: Information provided on this form will be used in evaluating the application for a permit. Disclosure: Disclosure of requested information is voluntary. If information is not provided, however, the permit application cannot be processed nor can a permit be issued.

One set of original drawings or good reproducible copies which show the location and character of the proposed activity must be attached to this application (see sample drawings and instructions) and be submitted to the Distri... Engineer having jurisdiction over the location of the proposed activity. An application that is not completed in full will be returned.

(ITEMS 1 THRU 4 TO BE FILLED BY THE CORPS)

1. APPLICATION NO.	2. FIELD OFFICE CODE	3. DATE RECEIVED	4. DATE APPLICATION COMPLETED

(ITEMS BELOW TO BE FILLED BY APPLICANT)

5. APPLICANTS NAME
Los Alamos National Laboratory

6. APPLICANTS ADDRESS
MS K497, P.O. Box 1663, Los Alamos, NM 87545

7. APPLICANTS PHONE NOS. W/AREA CODE
a. Residence N/A
b. Business (505) 665-8135

8. AUTHORIZED AGENTS NAME AND TITLE (an agent is not required)
N/A

9. AGENTS ADDRESS
N/A

10. AGENTS PHONE NOS. W/AREA CODE
a. Residence N/A
b. Business N/A

11.

STATEMENT OF AUTHORIZATION

I hereby authorize, _____ To act in my behalf as my agent in the processing of this application and to furnish, upon request, supplemental information in support of this permit application.
N/A

APPLICANTS SIGNATURE DATE

NAME, LOCATION, AND DESCRIPTION OF PROJECT OR ACTIVITY

12. PROJECT NAME OR TITLE (see instructions)
TA-48 Wetland Improvement Project

13. NAME OF WATERBODY, IF KNOWN (if applicable)
TA-48 Wetland

14. PROJECT STREET ADDRESS (if applicable)
N/A

15. LOCATION OF PROJECT
Los Alamos (COUNTY) NM (STATE)
Section 21
Township 19N
Range 6E

16. OTHER LOCATION DESCRIPTIONS, IF KNOWN (see instructions)
Wetland is located just east of theTA-48 eastern most parking area.

17. DIRECTIONS TO THE SITE
West on State Rd. NM501 to Diamond Dr. South on Diamond Dr. to Pajarito Rd. East on Pajarito Rd. to 1st traffic light. Turn north at light and head east past main parking area for TA-48. Turn north at next intersection.

18. Nature if Activity (Description of project, include all features)
Install Gabion (3 ft. high X 6 ft. long) diversion structure and excavate a shallow ditch (3 ft. wide X 1-2 ft. deep X 20 ft. long) to divert stormwater into main part of wetland.

19. Project Purpose (Describe the reason or purpose of the project, see instructions)
Stormwater currently skirts the north edge of the wetland and is causing erosion problems down-gradient. Redirecting the stormwater into the upper end of the wetland will reduce the velocity of the runoff while providing additonal water to the wetland.

USE BLOCKS 20-23 IF DREDGED AND/OR FILL MATERIAL IS TO BE DISCHARGED

...edule

Start Date * End Date 12/31/99

*No excavation will take place until Permit/Certification have been issued.

...3 FORM 4345, Feb 94 EDITION OF SEP 91 IS OBSOLETE (Proponent: CECW-OR)

21. Reason(s) for Discharge

N/A

22. Type(s) of Material Being Discharged and the Amount of Each Type in Cubic Yards

N/A

23. Surface Area in Acres of Wetlands or Other Waters Filled (see instructions)

N/A

24. Is Any Portion of the Work Already Complete? Yes _____ No X IF YES, DESCRIBE THE COMPLETED WORK

25. Addresses of Adjoining Property Owners, Lessees, Etc., Whose Property Adjoins the Waterbody (if more than can be entered here, please attach a supplemental list).

All property adjacent to the wetland is owned by the DOE.
Bandelier National Monument boundary is approximately 3.5 miles due south.
Santa Fe National Forest boundary is approximately 3.0 miles due west.
San Ildefonso Indian Reservation boudary is approximately 1.75 miles southeast.

26. Describe any adverse water quality impacts that may result from the proposed activity such as increased turbidity or erosion. How long will such impacts occur?

The first runoff event after installation of the Gabion and excavation of the shallow ditch will carry additional sediment into the wetlar

27. Describe methods to be used to prevent water quality impacts which could interfere with attainment of State designated fishery, recreation, irrigation, water supply or other uses.

By diverting stormwater into the active filtering wetlands system, the quality of the water moving past the wetland will be improved.

28. List of Other Certifications or Approvals/Denials Received from other Federal, State or Local Agencies for Work Described in This Application.

AGENCY	TYPE APPROVAL*	IDENTIFICATION NUMBER	DATE APPLIED	DATE APPROVED	DATE DENIED
N/A					

*Would include but is not restricted to zoning, building and flood plain permits.

29. Application is hereby made for a permit or permits to authorize the work described in this application. I certify that the information in this application is complete and accurate. I further certify that I possess the authority to undertake the work described herein or am acting as the duly authorized agent of the applicant.

SIGNATURE OF APPLICANT — DATE: 8/5/1999

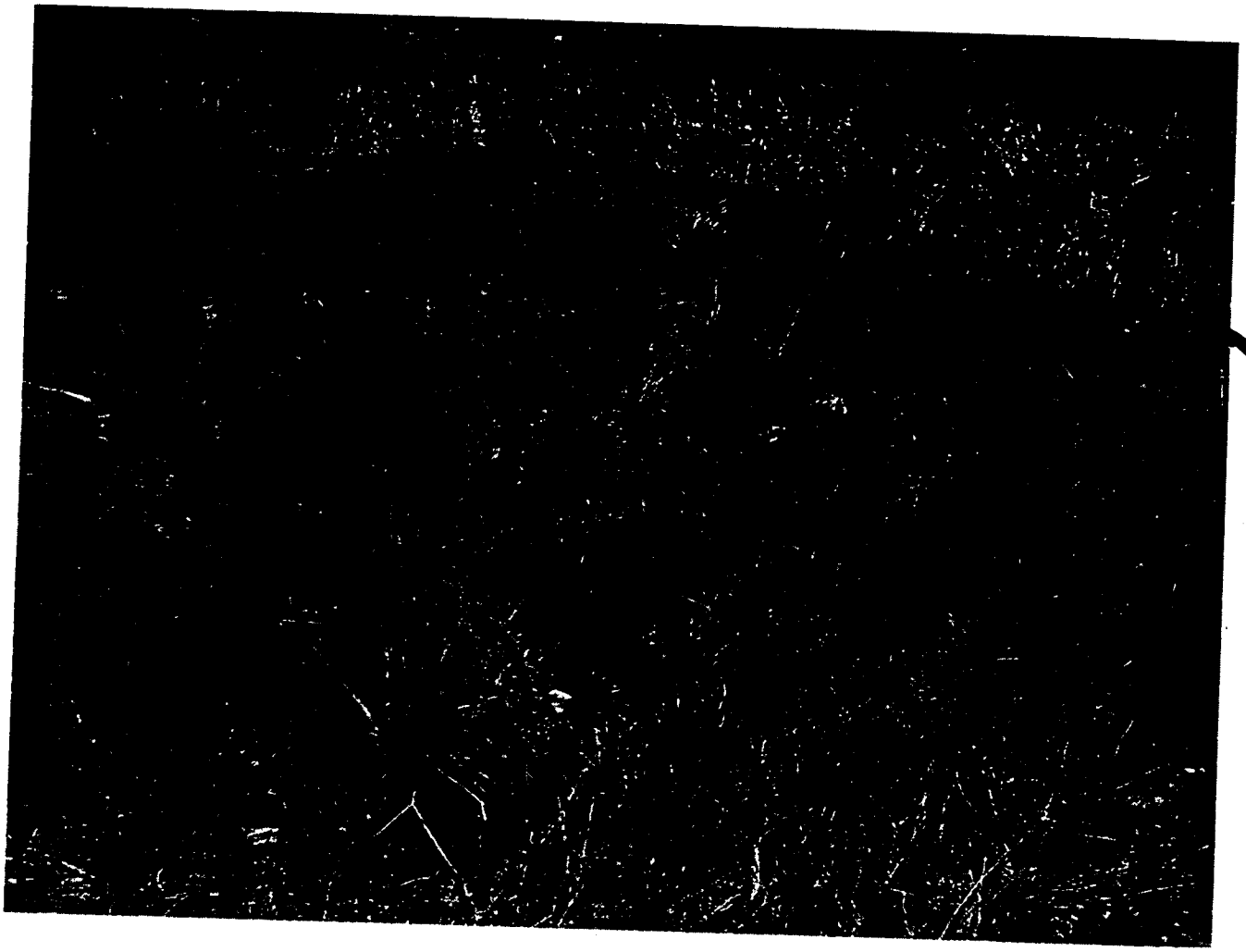
SIGNATURE OF AGENT — DATE

The application must be signed by the person who desires to undertake the proposed activity (applicant) or it may be signed by a duly authorized agent if the statement in block 11 has been filled out and signed.

Section 1001 provides that: Whoever, in any manner within the jurisdiction of any department or agency of the United States knowingly and willfully falsifies, conceals, or covers up any trick, scheme, or disg... A or makes any false, fictitious or fraudulent statements or representations or makes or uses any false writing or document knowing same to contain any false, fictitious or fraudulent statements or entry, shall be fined not more than $10,000 or imprisoned not more than five years or both.

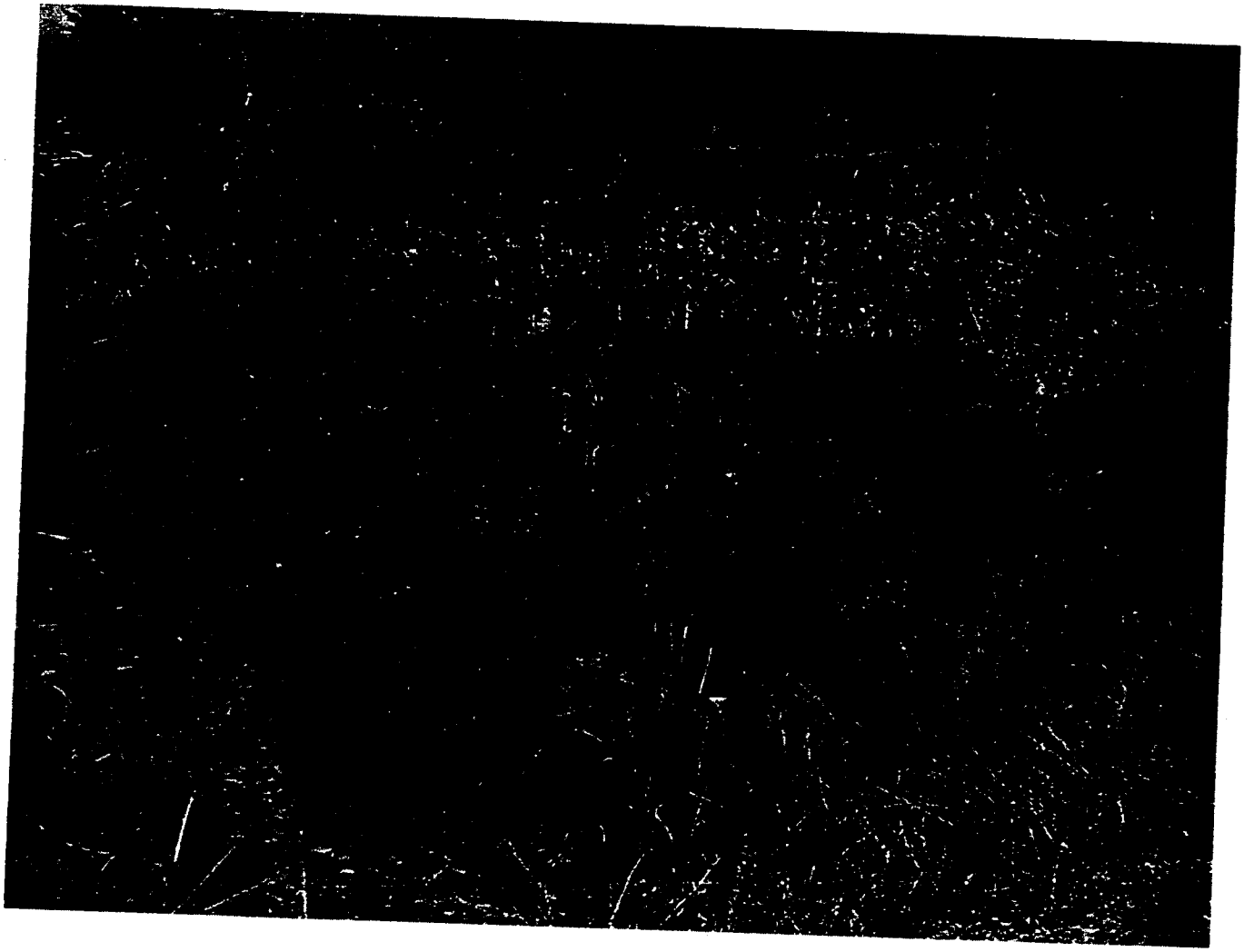
U.S.GPO: 1994-520-478/83018

TA48 Wetlands Improvement Project



Looking east from roadway above stormwater culvert and NPDES outfall. Stormwater discharge on the north side currently bypasses the upper wetland and is causing erosion problems further down-gradient.

TA48 Wetlands Improvement Project



Looking east from roadway above stormwater culvert.
Flow will be diverted by Gabion through a shallow trench into upper wetland.

DEPARTMENT OF THE ARMY
ALBUQUERQUE DISTRICT, CORPS OF ENGINEERS
4101 JEFFERSON PLAZA NE
ALBUQUERQUE, NEW MEXICO 87109-3435
FAX (505) 342-3498

REPLY TO
ATTENTION OF:
Operations Division
Regulatory Branch

September 9, 1999

Mr. Marc Bailey
Los Alamos National Laboratory
ESH-18/WQ&H:99-0328
MS K497
P.O. Box 1663
Los Alamos, New Mexico 87545-1663

Dear Mr. Bailey:

This replies to your September 7, 1999, Section 404 application and letter for a proposed gabion and ditch diversion for wetland improvement in a wetland at TA-48 in Los Alamos, Los Alamos County, New Mexico (Action No. 1999 00301).

The Corps of Engineers has published Nationwide Permits pursuant to Section 404 of the Clean Water Act (33 CFR 330). Nationwide Permit No. 27 authorizes discharges of dredged or fill materials for activities in waters of the United States, including wetlands, for restoration of altered and degraded wetlands and creation of wetlands. A summary of Nationwide Permit No. 27 is enclosed for your information.

The described project includes enhancement of wetlands on federal lands. The permittee must insure compliance with all terms and conditions of the permit, including submittal of the enclosed Compliance Certification required by General Condition No. 14. Notification is required (see General Condition Nos. 13 and 15) if you combine this nationwide permit with another nationwide permit No. 12 through 40 as part of a single complete project.

Water quality certification for use of this nationwide permit was issued by the New Mexico Environment Department on February 10, 1997 (copy enclosed).

General Condition No. 11 requires that no activity is authorized under any Nationwide Permit which is likely to jeopardize the continued existence of a listed or proposed threatened or endangered species, as identified under the Federal Endangered Species Act, or which is likely to destroy or adversely modify the critical habitat of such species. We have

determined that your proposed work, as described, will have no affect on any listed or proposed endangered or threatened species or its critical habitat.

This verification will be valid for 2 years unless the nationwide permit is modified, reissued or revoked. The verification will remain valid if, during that time, the nationwide permit is reissued without modification or the activity complies with any subsequent modification of the nationwide permit authorization. If the nationwide permit authorization expires, is suspended, revoked, or modified such that the activity would no longer comply with the terms and conditions of the nationwide permit, the provisions of 33 CFR 330.6(b) will apply.

If you have any questions regarding these regulations, please feel free to contact me at (505) 342-3216, or by e-mail at jean.e.manger@usace.army.mil. At your convenience, please complete and return the attached Customer Service Survey.

Sincerely,

Jean E. Manger

Jean E. Manger
Regulatory Project Manager

4 Enclosures
1. Nationwide Permit Summary
2. Compliance Certification form
3. Water quality certification
4. Customer Service Survey

Nationwide Permit Summary

U.S. Army Corps of Engineers
Albuquerque District

No. 27, WETLAND AND RIPARIAN RESTORATION AND CREATION ACTIVITIES
(NWP Final Notice, 61 FR 65917, para. 27)

Activities in waters of the United States associated with the restoration of former non-tidal wetlands and riparian areas, the enhancement of degraded wetlands and riparian areas, and creation of wetlands and riparian areas;

(i) On non-Federal public lands and private lands, in accordance with the terms and conditions of a binding wetland restoration or creation agreement between the landowner and the U.S. Fish and Wildlife Service or the Natural Resources Conservation Service (NRCS) or voluntary wetland restoration, enhancement, and creation actions documented by the NRCS pursuant to NRCS regulations; or

(ii) on any Federal land; or

(iii) on reclaimed surface coal mined lands, in accordance with a Surface Mining Control and Reclamation Act permit issued by the Office of Surface Mining or the applicable state agency. (The future reversion does not apply to wetlands created, restored or enhanced as mitigation for the mining impacts, nor naturally due to hydrologic or topographic features, nor for a mitigation bank.); or

(iv) on any public or private land, provided the permittee notifies the District Engineer in accordance with the "Notification" general condition.

Such activities include, but are not limited to: Installation and maintenance of small water control structures, dikes, and berms; backfilling of existing drainage ditches; removal of existing drainage structures; construction of small nesting islands; plowing or discing for seed bed preparation; and other related activities. This NWP applies to restoration projects that serve the purpose of restoring "natural" wetland hydrology, vegetation, and function to altered and degraded non-tidal wetlands and "natural" functions of riparian areas. This NWP does not authorize the conversion of natural wetlands to another aquatic use, such as creation of waterfowl impoundments where a forested wetland previously existed.

Reversion: For restoration, enhancement and creation projects conducted under paragraghs (ii) and (iv), this NWP does not authorize any future discharge of dredged or fill material associated with the reversion of the area to its prior condition. In such cases a separate permit at that time would be required for any reversion. For restoration, enhancement and creation projects conducted under paragraghs (i) and (iii), this NWP also authorizes any future discharge of dredged or fill material associated with the reversion of the area to its documented prior condition and use (i.e., prior to the restoration, enhancement, or creation activities) within five years after expiration of a limited term wetland restoration or creation agreement or permit, even if the discharge occurs after this NWP expires. The five year reversion limit does not apply to agreements without time limits reached under paragraph (i). The prior condition will be documented in the original agreement or permit, and the determination of return to prior conditions will be made by the Federal agency or appropriate state agency executing the agreement or permit. Prior to any reversion activity the permittee or the appropriate Federal or state agency must notify the District Engineer and include the documentation of the prior condition. Once an area has reverted back to its prior physical condition, it will be subject to whatever the Corps regulatory requirements will be at that future date. (Sections 10 and 404)

NATIONWIDE PERMIT CONDITIONS

General Conditions: The following general conditions must be followed in order for any authorization by a NWP to be valid:

1. **Navigation.** No activity may cause more than a minimal adverse effect on navigation.

2. **Proper Maintenance.** Any structure or fill authorized shall be properly maintained, including maintenance to ensure public safety.

3. **Erosion and Siltation Controls.** Appropriate erosion and siltation controls must be used and maintained in effective operating condition during construction, and all exposed soil and other fills, as well as any work below the ordinary high water mark or high tide line, must be permanently stabilized at the earliest practicable date.

4. **Aquatic Life Movements.** No activity may substantially disrupt the movement of those species of aquatic life indigenous to the waterbody, including those species which normally migrate through the area, unless the activity's primary purpose is to impound water.

5. **Equipment.** Heavy equipment working in wetlands must be placed on mats, or other measures must be taken to minimize soil disturbance.

6. **Regional and Case-by-Case Conditions.** The activity must comply with any regional conditions which may have been added by the Division Engineer (see 33 CFR 330.4(e)) and with any case specific conditions

modified, suspended, or revoked only in accordance with the procedure set forth in 33 CFR 330.5(d)(2).

(b) ***Contents of Notification.*** The notification must be in writing and include the following information:

(1) Name, address and telephone numbers of the prospective permittee;

(2) Location of the proposed project;

(3) Brief description of the proposed project; the project's purpose; direct and indirect adverse environmental effects the project would cause; any other NWP(s), regional general permit(s) or individual permit(s) used or intended to be used to authorize any part of the proposed project or any related activity; and

(4) For NWPs 14, 18, 21, 26, 29, 34, and 38, the PCN must also include a delineation of affected special aquatic sites, including wetlands (see paragraph 13(f));

(5) For NWP 21--Surface Coal Mining Activities, the PCN must include an OSM or state approved mitigation plan.

(6) For NWP 29--Single-Family Housing, the PCN must also include:

(i) Any past use of this NWP by the individual permittee and/or the permittee's spouse;

(ii) A statement that the single-family housing activity is for a personal residence of the permittee;

(iii) A description of the entire parcel, including its size, and a delineation of wetlands. For the purpose of this NWP, parcels of land measuring 0.5 acre or less will not require a formal on-site delineation. However, the applicant shall provide an indication of where the wetlands are and the amount of wetlands that exists on the property. For parcels greater than 0.5 acre in size, a formal wetland delineation must be prepared in accordance with the current method required by the Corps. (See paragraph 13(f));

(iv) A written description of all land (including, if available, legal descriptions) owned by the prospective permittee and/or the prospective permittee's spouse, within a one mile radius of the parcel, in any form of ownership (including any land owned as a partner, corporation, joint tenant, co-tenant, or as a tenant-by-the-entirety) and any land on which a purchase and sale agreement or other contract for sale or purchase has been executed;

(7) For NWP 31--Maintenance of Existing Flood Control Projects, the prospective permittee must either notify the District Engineer with a Pre-Construction Notification (PCN) prior to each maintenance activity or submit a five year (or less) maintenance plan. In addition, the PCN must include all of the following:

(i) Sufficient baseline information so as to identify the approved channel depths and configurations and existing facilities. Minor deviations are authorized, provided that the approved flood control protection or drainage is not increased;

(ii) A delineation of any affected special aquatic sites, including wetlands; and,

(iii) Location of the dredged material disposal site.

(8) For NWP 33--Temporary Construction, Access, and Dewatering, the PCN must also include a restoration plan of reasonable measures to avoid and minimize adverse effects to aquatic resources.

(c) ***Form of Notification.*** The standard individual permit application form (Form ENG 4345) may be used as the notification but must clearly indicate that it is a PCN and must include all of the information required in (b) (1)-(7) of General Condition 13. A letter may also be used.

(d) ***District Engineer's Decision.*** In reviewing the pre-construction notification for the proposed activity, the District Engineer will determine whether the activity authorized by the NWP will result in more than minimal individual or cumulative adverse environmental effects or may be contrary to the public interest. The prospective permittee may, optionally, submit a proposed mitigation plan with the pre-construction notification to expedite the process and the District Engineer will consider any optional mitigation the applicant has included in the proposal in determining whether the net adverse environmental effects of the proposed work are minimal. If the District Engineer determines that the activity complies with the terms and conditions of the NWP and that the adverse effects are minimal, the District Engineer will notify the permittee and include any conditions the DE deems necessary.

Any mitigation proposal must be approved by the District Engineer prior to commencing work. If the prospective permittee elects to submit a mitigation plan, the District Engineer will expeditiously review the proposed mitigation plan, but will not commence a second 30-day (or 45-day for NWP 26) notification procedure. If the net adverse effects of the project (with the mitigation proposal) are determined by the District Engineer to be minimal, the District Engineer will provide a timely written response to the applicant stating that the project can proceed under the terms and conditions of the nationwide permit.

If the District Engineer determines that the adverse effects of the proposed work are more than minimal, then he will notify the applicant either: (1) That the project does not qualify for authorization under the NWP and instruct the applicant on the procedures to seek authorization under an individual permit; (2) that the project is authorized under the NWP subject to the applicant's submitting a mitigation proposal that would reduce the adverse effects to the minimal level; or (3) that the project is authorized

more beneficial to the environment than on-site minimization or avoidance measures.

5. **Spawning Areas.** Discharges in spawning areas during spawning seasons must be avoided to the maximum extent practicable.

6. **Obstruction of High Flows.** To the maximum extent practicable, discharges must not permanently restrict or impede the passage of normal or expected high flows or cause the relocation of the water (unless the primary purpose of the fill is to impound waters).

7. **Adverse Effects From Impoundments.** If the discharge creates an impoundment of water, adverse effects on the aquatic system caused by the accelerated passage of water and/or the restriction of its flow shall be minimized to the maximum extent practicable.

8. **Waterfowl Breeding Areas.** Discharges into breeding areas for migratory waterfowl must be avoided to the maximum extent practicable.

9. **Removal of Temporary Fills.** Any temporary fills must be removed in their entirety and the affected areas returned to their preexisting elevation.

[Excerpted from the December 13, 1996 Federal Register, Final Notice of Issuance, Reissuance, and Modification of Nationwide Permits (61 FR 65874)].

CONDITIONS, LIMITATIONS, AND RESTRICTIONS
(Information from 33 CFR 330.4)

1. **General.** A prospective permittee must satisfy all terms and conditions of an NWP for a valid authorization to occur. Some conditions identify a "threshold" that, if met, requires additional procedures or provisions contained in other paragraphs in this section. It is important to remember that the NWP's only authorize activities from the perspective of the Corps regulatory authorities and that other Federal, state, and local permits, approvals, or authorizations may also be required.

2. **Further Information:**

(a) District Engineers have authority to determine if an activity complies with the terms and conditions of a NWP.

(b) NWP's do not obviate the need to obtain other Federal, state, or local permits, approvals, or authorization required by law.

(c) NWP's do not grant any property rights or exclusive privileges.

(d) NWP's do not authorize any injury to the property or rights of others.

(e) NWP's do not authorize interference with any existing or proposed Federal project.

ADDITIONAL INFORMATION

For additional information concerning the nationwide permits or for a written determination regarding a specific project, please contact the office below:

In New Mexico:
Chief, Regulatory Branch
Albuquerque District, US Army Corps of Engineers
4101 Jefferson Plaza, N.E.
Albuquerque, NM 87109-3435
Telephone: (505) 342-3283
E-Mail: cespa-od-r@usace.army.mil

In southeastern Colorado:
Southern Colorado Project Office
720 North Main Street, Room 205
Pueblo, Colorado 81003-3046
Telephone: (719) 543-9459

In southern New Mexico and western Texas:
El Paso Regulatory Office
P.O. Box 6096
Ft. Bliss, Texas 79906-0096
Telephone: (915) 568-1359

Information about the U.S. Army Corps of Engineers regulatory program, including nationwide permits, may also be accessed on our Internet page:
http://www.spa.usace.army.mil/reg/

This nationwide permit is effective February 11, 1997 and expires on February 11, 2002, unless sooner modified, suspended, or revoked.
Summary Version: 4/17/98

WATER QUALITY CERTIFICATION INFORMATION SUMMARY FOR NATIONWIDE PERMIT USE IN THE ALBUQUERQUE DISTRICT

Section 401 water quality certification for nationwide permits (NWPs) in the Albuquerque District has been variously issued, waived, denied, or conditioned by certifying agencies. Review the following list to determine the status of water quality certification for the type of NWP and area of use. This list is a summary of information received from the certifying agencies; the specific requirements are available in each agency's water quality certification. You must obtain any required individual water quality certification from the appropriate water quality certification authority for your project area prior to construction under the specified NWPs:

State of Colorado. Water quality certification for all nationwide permits is issued by State of Colorado statute.

State of New Mexico. Issued unconditional certification for NWPs 20, 22, 27, 30, 38, and "incidental" discharges under NWP 18 (e.g., *de minimus* discharges). Conditional certification is issued for NWPs 3-7, 12-19, 21, 23, 25-26, 28-29, 31-37, and 40. If your project is in or near a perennial surface water, perennial reach of an interrupted or intermittent surface water, or wetland greater than 1/3 acre, you must obtain individual water quality certification from the New Mexico Environment Department to use these conditionally certified NWPs. Any use of NWP 18 exceeding 1/10 cu yd will require an individual water quality certification. NWP 12 is further conditioned requiring all utility lines to be installed perpendicular or as close to perpendicular as possible to a channel to minimize disturbance; any crossing of wetlands or streams must be justified and alternatives explored to avoid construction or maintenance in waters of the State; and the project must be restored to pre-construction contours and stabilized with native vegetation. Contact:

New Mexico Environment Department
Surface Water Quality Bureau
Harold Runnels Building, 1190 St. Francis Drive
P.O. Box 26110
Santa Fe, New Mexico 87502 Phone: (505) 827-0106

State of Texas. Issued conditional water quality certification (Standard Provisions) for all NWP use in Texas. Additional Conditions are included for NWPs 3, 7, 13, 16, 19, 26, 31, and 35. Copies of the conditions may be obtained from the Albuquerque District or from the Texas Natural Resource Conservation Commission. Contact:

Texas Natural Resource Conservation Commission
P.O. Box 13087
Au[illegible] Texas 78711-3087 Phone: (512) 239-1000

Pueblo of Sandia lands. Requires individual water quality certification for use of any nationwide permit on tribal lands. Contact:

Environmental Director
Pueblo of Sandia
Box 6008
Bernalillo, New Mexico 87004 Phone: (505) 867-4533

Santa Clara Pueblo lands. Water quality certification is denied without prejudice for NWPs 6-7, 12-14, 18-19, 23, 25-26, 29, 30, 33, 36, and 40. You must obtain an individual water quality certification for your project to use these NWPs on Pueblo lands. Contact:

Santa Clara Pueblo - Office of Environmental Affairs
Surface Water Division
P.O. Box 580
Espanola, New Mexico 87532 Phone: (505)753-7326, ext. 232

Picuris Pueblo lands. Requires individual water quality certification for use of any nationwide permit on Pueblo lands. Contact:

Environment Department
Picuris Pueblo
P.O. Box 127
Penasco, New Mexico 87553 Phone: (505) 587-2519

San Juan Pueblo lands. Requires individual water quality certification for use of any nationwide permit on Pueblo lands. Contact:

Office of Environmental Affairs
San Juan Pueblo
P.O. Box 1099
San Juan Pueblo, New Mexico 87566 Phone: (505) 852-4212

Pueblo of Isleta lands. Water quality certification for all NWPs is denied. You must obtain an individual water quality certification to use any NWP on Pueblo lands. Contact:

Water Quality Program
Pueblo of Isleta
P.O. Box 1270
Isleta, New Mexico 87022 Phone: (505) 869-2710

Nambe Pueblo lands. Water quality certification for all NWPs is denied. You must obtain an individual water quality certification to use any NWP on Pueblo lands. Contact:

Nambe Pueblo Department of Environment and Natural Resources
Route 1, P.O. Box 117BB
Nambe Pueblo, New Mexico 87501 Phone: (505) [illegible]55-2036

GARY E. JOHNSON
GOVERNOR

State of New Mexico
ENVIRONMENT DEPARTMENT
Surface Water Quality Bureau
Harold Runnels Building
1190 St. Francis Drive, P.O. Box 26110
Santa Fe, New Mexico 87502
Telephone (505) 827-0187
Fax (505) 827-0160

PETER MAGGIORE
SECRETARY

PAUL R. RITZMA
DEPUTY SECRETARY

19 January 2000

File Number: 99-073

Marc Bailey
Los Alamos National Laboratory
ESH 18/WQ&H:99-0328
Mailstop K497
Los Alamos, New Mexico 87545

Dear Mr. Bailey:

The Surface Water Quality Bureau (Bureau) of the New Mexico Environment Department has reviewed your application for water quality approval to work in an unnamed wetland, Los Alamos County, New Mexico (Section 21, Township 19 North, Range 6 East NMPM). We have assigned file number 99-073 to your application. The proposed activities include the installation of a gabion diversion structure 3 ft high x 6 ft. long, and excavation of a shallow ditch, 3 ft. wide x 1-2 ft. deep x 20 ft. long, to divert stormwater into the main part of an existing wetland east of TA-48.

Isolated wetlands in the project area are protected by the State's general water quality standards. Please be aware that you are subject to Section 1102 of the *State of New Mexico Standards for Interstate and Intrastate Streams.* The following standards apply from Section 1102: Subsections A. Stream Bottom Deposits, B. Floating Solids, Oil, and Grease, F. Hazardous Substances, and J. Turbidity. These standards can be accessed via the Internet at:
http://www.nmenv.state.nm.us/NMED_reg/swqb/20nmac6_1.html

The Bureau can be reasonably assured that work will not adversely affect attainment of State water quality standards if all permit conditions are met and the following minimum recommended Best Management Practices (BMPs) are employed:

1. Work is conducted in such a manner that all permit conditions of the U.S. Army Corps of Engineers Section 404 permit are attained.

2. A copy of this certification must be kept at the project site during all phases of construction. If contractors, subcontractors are hired for this project, a copy of the water quality certification must be provided prior to commencement of activities.

3. All heavy equipment used in the project area shall be steam cleaned before the start of the project and inspected daily for leaks. No leaking equipment may be used in or near surface water. (1102 General Standards, B. Floating Solids, Oil and Grease.)

4. Fuel, oil, hydraulic fluid, or like substances of this nature shall not be stored within the normal floodplain and must have a secondary containment system to prevent spills if the primary storage container leaks. Refueling of equipment must not take place within 100 feet of any watercourse. (1102 General Standards, B. Floating Solids, Oil and Grease.)

5. The application states that by redirecting stormwater into the upper end of the wetland, velocities will be reduced. The Bureau suggests the addition of flow dissipators or plunge pools in the excavated trench to allow for dispersion of flow energy as well as ground seepage to aid in the control of velocity. This would address channeling in the wetland that may occur during high storm events. By placing additional plunge pools at the wetland outlet, erosion may be alleviated and therefore contribute towards water quality..

6. The construction area must not have water flowing through it. If any work is done below the water level, flow must be diverted away from the work area with nonerodible materials. Suggested methods include, but are not limited to, the use of water bladders/barriers, boards, or concrete slabs. (1102 General Standards, F. Toxic Substances, H. Pathogens, J. Turbidity.)

7. All Areas disturbed by construction activities must be restored to pre-construction contours, stabilized, and vegetated areas replanted.

8. The construction area must be protected such that a run off event will not move any soil or other contaminant to surface water. These measures must be in place prior to commencement of activities and inspected daily. (1102 General Standards, F. Toxic Substances, H. Pathogens, J. Turbidity.)

9. You may not remove rock from within the project area to fill the gabion baskets; rock must come from an approved, upland source. The rock may not contain sulfide ores or other mine waste which could release acid or heavy metals to surface water. (1102 General Standards, F. Toxic Substances, H. Pathogens, J. Turbidity.)

10. If concrete is to be poured, it must be fully contained in mortar-tight forms to prevent accidental releases to the river. No discharge of any concrete to surface water or ground water may occur. (1102 General Standards, F. Toxic Substances, H. Pathogens, J. Turbidity.)

11. Report all spills immediately to this office as required by the New Mexico Water Quality Control Commission regulations. (20 NMAC 6.2, Section 1203.)

12. The Bureau must be notified at least 7-days before you start work. If the Bureau is not notified prior to commencement of activities, you must submit pre and post construction photo documentation.

Violations of State water quality standards could lead to penalties under the New Mexico Water Quality Act. Section 74-6-10.1 B of the Act states, "Any person who violates any provision of the New Mexico Water Quality Act other than Section 74-6-5 NMSA 1978 or any person who violates any regulation, water quality standard, or compliance order adopted pursuant to that act shall be assessed civil penalties up to the amount of ten thousand dollars ($10,000) per day for each violation."

The Surface Water Quality Bureau specifically reserves the right to amend or revoke this certification at any time to ensure the maintenance of water quality standards. Thank you for your application. If you have any questions regarding this approval and for 7-day notification requirements, please contact Sandra Maes at (505) 827-0106.

Sincerely,

James H. Davis, Ph.D., Chief
Surface Water Quality Bureau

JHD/sm

xc: Benito Garcia, Manager, District II, Environment Department
District Engineer, U.S. Army Corps of Engineers, Attn: Regulatory Branch
James Ratterree, Wetlands, Region 6, USEPA
Tod Stevenson, NM Department of Game and Fish
Jennifer Fowler-Propst, U.S. Fish and Wildlife Service

Attachment 33 MRSC

Note: mass (lbs) cited is the amount of material needed to reach a TEEL-3 threshold at a specific distance (meters), for example it takes 1.10E+5 lbs of Acenaphthene to cause a TEEL-3 exposure 200 meters from the site boundary.

83-32-9	Acenaphthene; (1,3-Acenaphthalene)	S	3.87E+04	1.10E+05	3.12E+05	5.74E+05	8.84E+05	1.24E+06
208-96-8	Acenaphthylene	S	7.73E+04	2.20E+05	6.23E+05	1.15E+06	1.77E+06	2.47E+06
75-07-0	Acetaldehyde	L	1.04E+03	2.50E+03	2.50E+03	2.50E+03	2.50E+03	2.50E+03
60-35-5	Acetamide	S	7.73E+04	2.20E+05	6.23E+05	1.15E+06	1.77E+06	2.47E+06
64-19-7	Acetic acid	L	1.32E+03	3.75E+03	1.06E+04	1.96E+04	3.02E+04	4.22E+04
591-87-7	Acetic acid, 2-propenyl ester	L	5.86E+02	1.66E+03	4.72E+03	8.69E+03	1.34E+04	1.87E+04
108-24-7	Acetic Anhydride	L	7.80E+03	2.21E+04	6.28E+04	1.16E+05	1.78E+05	2.50E+05
67-64-1	Acetone	L	1.63E+04	4.61E+04	1.31E+05	2.41E+05	3.72E+05	5.20E+05
1752-30-3	Acetone thiosemicarbazide	Pwd	1.55E+03	4.39E+03	1.25E+04	2.29E+04	3.54E+04	4.95E+04
1752-30-3	Acetone thiosemicarbazide	S	1.55E+04	4.39E+04	1.25E+05	2.29E+05	3.54E+05	4.95E+05
75-05-8	Acetonitrile	L	1.42E+03	4.03E+03	1.14E+04	2.11E+04	3.25E+04	4.55E+04
98-86-2	Acetophenone	L	1.27E+05	3.59E+05	1.02E+06	1.88E+06	2.89E+06	4.05E+06
900-95-8	Acetoxytriphenylstannane	Pwd	7.73E+02	2.20E+03	6.23E+03	1.15E+04	1.77E+04	2.47E+04
900-95-8	Acetoxytriphenylstannane	S	7.73E+03	2.20E+04	6.23E+04	1.15E+05	1.77E+05	2.47E+05
506-96-7	Acetyl bromide	L	9.97E+01	2.83E+02	8.03E+02	1.48E+03	2.28E+03	3.19E+03
75-36-5	Acetyl chloride	L	3.05E+02	8.65E+02	2.46E+03	4.52E+03	6.97E+03	9.75E+03
3096-50-2	Acetylaminofluorenone, 2-	S	1.16E+04	3.29E+04	9.35E+04	1.72E+05	2.65E+05	3.71E+05
53-96-3	Acetylaminofluorine, 2-	Pwd	4.64E+02	1.32E+03	3.74E+03	6.88E+03	1.06E+04	1.48E+04
74-86-2	Acetylene	G	9.88E+02	2.80E+03	7.96E+03	1.47E+04	2.26E+04	3.16E+04
107-02-8	Acrolein	L	3.91E+00	1.11E+01	3.15E+01	3.15E+01	8.95E+01	1.25E+02
79-06-1	Acrylamide	S	9.28E+03	2.63E+04	7.48E+04	1.38E+05	2.12E+05	2.97E+05
79-06-1	Acrylamide	Pwd	9.28E+02	2.63E+03	7.48E+03	1.38E+04	2.12E+04	2.97E+04
79-10-7	Acrylic acid	L	7.79E+04	2.21E+05	6.27E+05	1.15E+06	1.78E+06	2.49E+06
9003-01-4	Acrylic acid polymers; (Acrylic polymer or resin)	Pwd	7.73E+03	2.20E+04	6.23E+04	1.15E+05	1.77E+05	2.47E+05
z-0125	Acrylic latex	L	4.88E+03	1.38E+04	3.93E+04	7.24E+04	1.12E+05	1.56E+05
107-13-1	Acrylonitrile	L	2.11E+02	5.98E+02	1.70E+03	3.12E+03	4.82E+03	6.74E+03
814-68-6	Acrylyl chloride; (Acryloyl chloride)	L	1.56E+01	4.43E+01	1.26E+02	1.26E+02	2.50E+02	2.50E+02
64365-11-3	Activated charcoal	S	3.87E+04	1.10E+05	3.12E+05	5.74E+05	8.84E+05	1.24E+06
64365-11-3	Activated charcoal	Pwd	3.87E+03	1.10E+04	3.12E+04	5.74E+04	8.84E+04	1.24E+05
various	Adhesive; 3M Super 77 Spray	L	3.24E+03	9.19E+03	2.61E+04	4.80E+04	7.40E+04	1.04E+05
124-04-9	Adipic acid	Pwd	1.93E+03	5.49E+03	1.56E+04	2.87E+04	4.42E+04	6.19E+04
111-69-3	Adiponitrile	L	7.50E+07	2.13E+08	6.04E+08	1.11E+09	1.71E+09	2.40E+09
63393-96-4	Adogen 464; (Aliquat 336; Quaternary ammonium compounds, tri(C8-10)-alkylmethyl-, chlorides)	L	7.48E+03	2.12E+04	6.02E+04	1.11E+05	1.71E+05	2.39E+05
9002-18-0	Agar	Pwd	7.73E+03	2.20E+04	6.23E+04	1.15E+05	1.77E+05	2.47E+05

9012-36-6	Agarose	S	7.73E+04	2.20E+05	6.23E+05	1.15E+06	1.77E+06	2.47E+06
68603-15-6	Alcohols, C6-C12 (N.O.S.)	L	1.47E+06	4.18E+06	1.19E+07	2.19E+07	3.37E+07	4.72E+07
116-06-3	Aldecarb; (Carbanolate (propanal,-); (Methyl-2-(methylthio) propanalde-hyde oxime, 2-)	Pwd	4.64E+00	1.32E+01	3.74E+01	6.88E+01	1.06E+02	1.48E+02
116-06-3	Aldecarb; (Carbanolate (propanal,-); (Methyl-2-(methylthio) propanalde-hyde oxime, 2-)	S	4.64E+01	1.32E+02	3.74E+02	6.88E+02	1.06E+03	1.48E+03
5137-55-3	Aliquat 336 (Tri-n-octylmethylammonium chloride)	L	1.37E+04	3.89E+04	1.10E+05	2.03E+05	3.13E+05	4.39E+05
z-0001	Alkenyl dimethylethyl ammonium bromide; (Aliphatic hydrocarbon)	S	3.09E+04	8.78E+04	2.49E+05	4.59E+05	7.08E+05	9.90E+05
66070-62-0	Alkyd resins	S	3.87E+04	1.10E+05	3.12E+05	5.74E+05	8.84E+05	1.24E+06
2246493	Alkyd Rosin	S	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
68515-28-3	Alkyl benzenes (C8-C9)	S	3.87E+04	1.10E+05	3.12E+05	5.74E+05	8.84E+05	1.24E+06
63231-48-1	Alkylamines (includes nitrogen mustard, triethylmelamine, etc.)	S	3.87E+04	1.10E+05	3.12E+05	5.74E+05	8.84E+05	1.24E+06
68648-87-3	Alkylbenzene (C10-C16)	L	1.20E+04	3.39E+04	9.63E+04	1.77E+05	2.73E+05	3.83E+05
463-49-0	Allene; (1,2-Propadiene)	G	1.01E+03	2.88E+03	8.16E+03	1.50E+04	2.32E+04	3.24E+04
7790-98-9	Alluminized Ammonia Perchlorate	S	3.87E+03	7.50E+03	7.50E+03	7.50E+03	7.50E+03	7.50E+03
107-18-6	Allyl alcohol	L	2.86E+02	8.12E+02	2.30E+03	4.24E+03	6.54E+03	9.15E+03
106-95-6	Allyl Bromide; (3-Bropmopropene)	L	1.58E+03	4.49E+03	1.27E+04	2.35E+04	3.62E+04	5.06E+04
107-05-1	Allyl chloride	L	3.73E+02	1.00E+03	1.00E+03	1.00E+03	1.00E+03	1.00E+03
107-11-9	Allylamine	L	3.22E+01	9.14E+01	2.60E+02	2.60E+02	7.37E+02	1.00E+03
80-56-8	Alpha-Pinene	L	5.14E-01	1.46E+00	4.14E+00	7.62E+00	1.17E+01	1.64E+01
z-0126	Alumination 301	L	4.88E+03	1.38E+04	3.93E+04	7.24E+04	1.12E+05	1.56E+05
569-58-4	Aluminon	Pwd	7.73E+03	2.20E+04	6.23E+04	1.15E+05	1.77E+05	2.47E+05
7429-90-5	Aluminum (powder)	Pwd	3.87E+03	1.10E+04	3.12E+04	5.74E+04	8.84E+04	1.24E+05
7446-70-0	Aluminum chloride	Pwd	7.73E+03	2.20E+04	6.23E+04	1.15E+05	1.77E+05	2.47E+05
7784-18-1	Aluminum fluoride (as Al)	Pwd	6.19E+02	1.76E+03	4.99E+03	9.18E+03	1.42E+04	1.98E+04
7784-18-1	Aluminum fluoride (as Al)	S	6.19E+03	1.76E+04	4.99E+04	9.18E+04	1.42E+05	1.98E+05
21645-51-2	Aluminum hydroxide	Pwd	1.93E+03	5.49E+03	1.56E+04	2.87E+04	4.42E+04	6.19E+04
1344-28-1	Aluminum oxide	S	3.87E+03	1.10E+04	3.12E+04	5.74E+04	8.84E+04	1.24E+05
1344-28-1	Aluminum oxide	Pwd	3.87E+02	1.10E+03	3.12E+03	5.74E+03	8.84E+03	1.24E+04
7784-30-7	Aluminum phosphate; (Phosphoric acid, aluminum salt (1:1),solution)	L	8.86E+06	2.52E+07	7.14E+07	1.31E+08	2.03E+08	2.84E+08
20859-73-8	Aluminum phosphide	S	3.09E+03	8.78E+03	2.49E+04	4.59E+04	7.08E+04	9.90E+04
10043-67-1	Aluminum potassium sulfate	S	7.73E+04	2.20E+05	6.23E+05	1.15E+06	1.77E+06	2.47E+06
10043-67-1	Aluminum potassium sulfate	Pwd	7.73E+03	2.20E+04	6.23E+04	1.15E+05	1.77E+05	2.47E+05
10043-01-3	Aluminum sulfate (Soluble salt, as Al)	S	7.73E+04	2.20E+05	6.23E+05	1.15E+06	1.77E+06	2.47E+06
10043-01-3	Aluminum sulfate (Soluble salt, as Al)	Pwd	7.73E+03	2.20E+04	6.23E+04	1.15E+05	1.77E+05	2.47E+05
13473-90-0	Aluminum(III) nitrate (1:3)	Cry Pwd	7.73E+03	2.20E+04	6.23E+04	1.15E+05	1.77E+05	2.47E+05
7784-27-2	Aluminum(III) nitrate nonahydrate	S	7.73E+04	2.20E+05	6.23E+05	1.15E+06	1.77E+06	2.47E+06
1302-76-7	Aluminum(III)silicate (2:1); (Oil-dri)	Pwd	2.32E+03	6.59E+03	1.87E+04	3.44E+04	5.31E+04	7.42E+04
86-65-7	Amino-1,3-naphthalenedisulfonic acid, 7-	Pwd	7.73E+03	2.20E+04	6.23E+04	1.15E+05	1.77E+05	2.47E+05

6393-42-6	Amino-2,6-dinitrotoluene, 4-; (4-Amino-3,5-dinitrotoluene)	Pwd	3.87E+03	1.10E+04	3.12E+04	5.74E+04	8.84E+04	1.24E+05
2854-16-2	Amino-2-methyl-2-propanol, 1-	L	3.02E+07	8.56E+07	2.43E+08	4.47E+08	6.90E+08	9.65E+08
35572-78-2	Amino-4,6-dinitrotoluene, 2-	Pwd	7.73E+03	2.20E+04	6.23E+04	1.15E+05	1.77E+05	2.47E+05
117-79-3	Aminoanthraquinone, 2-	L	4.49E+15	1.27E+16	3.61E+16	6.65E+16	1.03E+17	1.44E+17
117-79-3	Aminoanthraquinone, 2-	Cry Pwd	7.73E+03	2.20E+04	6.23E+04	1.15E+05	1.77E+05	2.47E+05
3037-72-7	Aminobutyl)diethoxymethylsilane, (4-	L	3.27E+05	9.28E+05	2.63E+06	4.85E+06	7.48E+06	1.05E+07
92-67-1	Aminodiphenyl, p-	S	3.09E+04	8.78E+04	2.49E+05	4.59E+05	7.08E+05	9.90E+05
140-31-8	Aminoethylpiperazine, n-	L	2.41E+06	6.85E+06	1.94E+07	3.58E+07	5.52E+07	7.72E+07
28292-42-4	Aminoheptane, 3-; (3-Heptylamine)	L	1.02E+02	2.91E+02	8.25E+02	1.52E+03	2.34E+03	3.28E+03
70-69-9	Aminopropiophenone, 4-	S	1.16E+04	3.29E+04	9.35E+04	1.72E+05	2.65E+05	3.71E+05
70-69-9	Aminopropiophenone, 4-	Pwd	1.16E+03	3.29E+03	9.35E+03	1.72E+04	2.65E+04	3.71E+04
54-62-6	Aminopterin; (Aminopteridine)	L	7.99E+02	2.27E+03	6.44E+03	1.18E+04	1.83E+04	2.56E+04
54-62-6	Aminopterin; (Aminopteridine)	S	3.87E+03	1.10E+04	3.12E+04	5.74E+04	8.84E+04	1.24E+05
54-62-6	Aminopterin; (Aminopteridine)	Pwd	3.87E+02	1.10E+03	3.12E+03	5.74E+03	8.84E+03	1.24E+04
5049-61-6	Aminopyrazine	Pwd	3.00E+02	8.52E+02	2.42E+03	4.45E+03	6.87E+03	9.61E+03
504-24-5	Aminopyridine, 4-; (4-Pyridinamine, Avitrol)	S	3.09E+03	8.78E+03	2.49E+04	4.59E+04	7.08E+04	9.90E+04
504-24-5	Aminopyridine, 4-; (4-Pyridinamine, Avitrol)	Pwd	3.09E+02	8.78E+02	2.49E+03	4.59E+03	7.08E+03	9.90E+03
pwd	Amiton oxalate	Cry Pwd	4.64E+01	1.32E+02	3.74E+02	6.88E+02	1.06E+03	1.48E+03
78-53-5	Amiton; (O,O-Diethyl-S-(2-diethylaminoethyl) thiophosphate)	L	1.87E+05	5.29E+05	1.50E+06	2.77E+06	4.27E+06	5.97E+06
61-82-5	Amitrole	S	7.73E+04	2.20E+05	6.23E+05	1.15E+06	1.77E+06	2.47E+06
7664-41-7	Ammonia [2 L = ~1 kg] (anhydrous)	G	8.08E+01	2.29E+02	6.51E+02	6.51E+02	1.85E+03	2.59E+03
LANL-00-10	Ammonia <10% helium 90%	G	2.36E+02	6.69E+02	1.90E+03	3.50E+03	5.39E+03	7.55E+03
7664-41-7	Ammonia Liquid (between 20% and 44%)	L	1.48E+03	4.20E+03	1.19E+04	2.00E+04	2.00E+04	2.00E+04
7664-41-7	Ammonia Liquid (greater than 44%)	L	1.48E+03	4.20E+03	1.19E+04	1.50E+04	1.50E+04	1.50E+04
7664-41-7	Ammonia Liquid (less than 20%)	L	1.48E+03	4.20E+03	1.19E+04	2.20E+04	3.39E+04	4.74E+04
631-61-8	Ammonium acetate	S	3.87E+04	1.10E+05	3.12E+05	5.74E+05	8.84E+05	1.24E+06
7784-19-2	Ammonium aluminum fluoride; (Triammonium hexafluoroaluminate)	Pwd	2.32E+02	6.59E+02	1.87E+03	3.44E+03	5.31E+03	7.42E+03
1863-63-4	Ammonium benzoate	Pwd	5.41E+03	1.54E+04	4.36E+04	8.03E+04	1.24E+05	1.73E+05
1066-33-7	Ammonium bicarbonate	Pwd	3.09E+03	8.78E+03	2.49E+04	4.59E+04	7.08E+04	9.90E+04
7803-63-6	Ammonium bisulfate; (Ammonium hydrogen sulfate)	S	1.55E+03	4.39E+03	1.25E+04	2.29E+04	3.54E+04	4.95E+04
10192-30-0	Ammonium bisulfite; (Ammonium sulfite)	S	1.55E+03	4.39E+03	1.25E+04	2.29E+04	3.54E+04	4.95E+04
10192-30-0	Ammonium bisulfite; (Ammonium sulfite) <45% solution	L	1.94E+02	5.52E+02	1.57E+03	2.88E+03	4.45E+03	6.22E+03
1111-78-0	Ammonium carbamate; (Carbamic Acid, Ammonium Salt)	Cry Pwd	5.41E+02	1.54E+03	4.36E+03	8.03E+03	1.24E+04	1.73E+04
12125-02-9	Ammonium chloride	S	7.73E+04	2.20E+05	6.23E+05	1.15E+06	1.77E+06	2.47E+06
12125-02-9	Ammonium chloride	Pwd	7.73E+03	2.20E+04	6.23E+04	1.15E+05	1.77E+05	2.47E+05
7788-98-9	Ammonium chromate	S	2.32E+03	6.59E+03	1.87E+04	3.44E+04	5.31E+04	7.42E+04

7632-50-0	Ammonium citrate	S	2.32E+04	6.59E+04	1.87E+05	3.44E+05	5.31E+05	7.42E+05
3012-65-5	Ammonium citrate, dibasic	Pwd	1.55E+02	4.39E+02	1.25E+03	2.29E+03	3.54E+03	4.95E+03
7789-09-5	Ammonium dichromate (as Cr(VI))	S	5.41E+03	1.54E+04	4.36E+04	8.03E+04	1.24E+05	1.73E+05
1341-49-7	Ammonium dihydrogen fluoride; (Ammonium bifluoride)	S	5.41E+02	1.54E+03	4.36E+03	8.03E+03	1.24E+04	1.73E+04
7722-76-1	Ammonium dihydrogen phosphate; (Monoammonium phosphate)	S	7.73E+04	2.20E+05	6.23E+05	1.15E+06	1.77E+06	2.47E+06
21265-50-9	Ammonium ethylenedinitrotetraacetoferrate(III)	Pwd	3.87E+03	1.10E+04	3.12E+04	5.74E+04	8.84E+04	1.24E+05
21265-50-9	Ammonium ethylenedinitrotetraacetoferrate(III)	Pwd	3.87E+03	1.10E+04	3.12E+04	5.74E+04	8.84E+04	1.24E+05
21265-50-9	Ammonium ethylenedinitrotetraacetoferrate(III)	S	3.87E+04	1.10E+05	3.12E+05	5.74E+05	8.84E+05	1.24E+06
7783-85-9	Ammonium ferrous sulfate	L	1.50E+04	4.25E+04	1.21E+05	2.22E+05	3.42E+05	4.79E+05
7783-85-9	Ammonium ferrous sulfate	S	7.73E+04	2.20E+05	6.23E+05	1.15E+06	1.77E+06	2.47E+06
13826-83-0	Ammonium fluoborate	S	3.09E+03	8.78E+03	2.49E+04	4.59E+04	7.08E+04	9.90E+04
12125-01-8	Ammonium fluoride	S	1.93E+03	5.49E+03	1.56E+04	2.87E+04	4.42E+04	6.19E+04
540-69-2	Ammonium formate	S	7.73E+04	2.20E+05	6.23E+05	1.15E+06	1.77E+06	2.47E+06
z-0002	Ammonium hexachlorohydrate (III)	S	3.87E+04	1.10E+05	3.12E+05	5.74E+05	8.84E+05	1.24E+06
16919-19-0	Ammonium hexafluorosilicate; (Ammonium silicofluoride)	Pwd	4.64E+02	1.32E+03	3.74E+03	6.88E+03	1.06E+04	1.48E+04
1336-21-6	Ammonium hydroxide (as NH3)	L	4.04E+02	1.15E+03	3.25E+03	5.99E+03	9.23E+03	1.29E+04
12027-06-4	Ammonium iodide	Pwd	2.32E+03	6.59E+03	1.87E+04	3.44E+04	5.31E+04	7.42E+04
12027-06-4	Ammonium iodide	S	2.32E+04	6.59E+04	1.87E+05	3.44E+05	5.31E+05	7.42E+05
515-98-0	Ammonium lactate	S	3.87E+04	1.10E+05	3.12E+05	5.74E+05	8.84E+05	1.24E+06
8061-53-8	Ammonium lignin sulfonate	Pwd	3.87E+03	1.10E+04	3.12E+04	5.74E+04	8.84E+04	1.24E+05
8061-53-8	Ammonium lignin sulfonate Liquid	L	1.05E+04	2.98E+04	8.46E+04	1.56E+05	2.40E+05	3.36E+05
13106-76-8	Ammonium molybdate	S	2.32E+04	6.59E+04	1.87E+05	3.44E+05	5.31E+05	7.42E+05
z-0004	Ammonium molybdophosphate	Pwd	3.09E+03	8.78E+03	2.49E+04	4.59E+04	7.08E+04	9.90E+04
15699-18-0	Ammonium nickel sulfate	S	7.73E+03	2.20E+04	6.23E+04	1.15E+05	1.77E+05	2.47E+05
6484-52-2	Ammonium nitrate	S	7.73E+04	2.20E+05	6.23E+05	1.15E+06	1.77E+06	2.47E+06
6484-52-2	Ammonium nitrate	Cry Pwd	7.73E+03	2.20E+04	6.23E+04	1.15E+05	1.77E+05	2.47E+05
5972-73-6	Ammonium oxalate monohydrate	Cry Pwd	2.32E+03	6.59E+03	1.87E+04	3.44E+04	5.31E+04	7.42E+04
6009-70-7	Ammonium oxalate; (Ammonium oxalate hydrate)	Cry Pwd	2.32E+03	6.59E+03	1.87E+04	3.44E+04	5.31E+04	7.42E+04
1113-38-8	Ammonium oxalate; (Ethanediodic acid, ammonium salt)	S	3.09E+03	8.78E+03	2.49E+04	4.59E+04	7.08E+04	9.90E+04
12007-89-5	Ammonium pentaborate	S	3.87E+04	1.10E+05	3.12E+05	5.74E+05	8.84E+05	1.24E+06
7790-98-9	Ammonium Perchlorate	S	7.50E+03	7.50E+03	7.50E+03	7.50E+03	7.50E+03	7.50E+03
13446-10-1	Ammonium permanganate	S	7.73E+04	2.20E+05	6.23E+05	1.15E+06	1.77E+06	2.47E+06
7727-54-0	Ammonium persulfate	S	1.55E+04	4.39E+04	1.25E+05	2.29E+05	3.54E+05	4.95E+05
7783-28-0	Ammonium phosphate dibasic	Pwd	3.87E+03	1.10E+04	3.12E+04	5.74E+04	8.84E+04	1.24E+05
7783-28-0	Ammonium phosphate dibasic	S	3.87E+04	1.10E+05	3.12E+05	5.74E+05	8.84E+05	1.24E+06
131-74-8	Ammonium picrate	S	3.87E+04	1.10E+05	3.12E+05	5.74E+05	8.84E+05	1.24E+06
7773-06-0	Ammonium sulfamate	S	7.73E+04	2.20E+05	6.23E+05	1.15E+06	1.77E+06	2.47E+06
7783-20-2	Ammonium sulfate	Pwd	7.73E+03	2.20E+04	6.23E+04	1.15E+05	1.77E+05	2.47E+05

7783-20-2	Ammonium sulfate	S	7.73E+04	2.20E+05	6.23E+05	1.15E+06	1.77E+06	2.47E+06
12135-76-1	Ammonium sulfide	Cry Pwd	6.46E+02	1.83E+03	5.21E+03	9.58E+03	1.48E+04	2.07E+04
12135-76-1	Ammonium sulfide 20% solution	L	1.65E+01	4.68E+01	1.33E+02	2.45E+02	3.77E+02	5.27E+02
10196-04-0	Ammonium sulfite	Cry Pwd	1.55E+02	4.39E+02	1.25E+03	2.29E+03	3.54E+03	4.95E+03
14307-43-8	Ammonium tartrate	Cry Pwd	1.55E+02	4.39E+02	1.25E+03	2.29E+03	3.54E+03	4.95E+03
3164-29-2	Ammonium tartrate; (Diammonium tartrate)	Cry Pwd	3.09E+03	8.78E+03	2.49E+04	4.59E+04	7.08E+04	9.90E+04
1762-95-4	Ammonium thiocyanate	S	3.09E+04	8.78E+04	2.49E+05	4.59E+05	7.08E+05	9.90E+05
7783-18-8	Ammonium thiosulfate; (Ammonium hyposulfite)	S	7.73E+04	2.20E+05	6.23E+05	1.15E+06	1.77E+06	2.47E+06
7803-55-6	Ammonium vanadate; (Ammonium vanadium oxide; Ammonium metavanadate)	Pwd	5.41E+01	1.54E+02	4.36E+02	8.03E+02	1.24E+03	1.73E+03
7803-55-6	Ammonium vanadate; (Ammonium vanadium oxide; Ammonium metavanadate)	Cry Pwd	5.41E+01	1.54E+02	4.36E+02	8.03E+02	1.24E+03	1.73E+03
57-09-0	Ammonium, hexadecyltrimethyl bromide; (Hexadecyltrimethylammonium bromide)	S	2.32E+04	6.59E+04	1.87E+05	3.44E+05	5.31E+05	7.42E+05
12172-73-5	Amosite	S	1.93E+03	5.49E+03	1.56E+04	2.87E+04	4.42E+04	6.19E+04
300-62-9	Amphetamine; (Benzedrine)	L	2.89E+04	8.21E+04	2.33E+05	4.29E+05	6.62E+05	9.26E+05
628-63-7	Amyl acetate	L	6.77E+04	1.92E+05	5.45E+05	1.00E+06	1.55E+06	2.17E+06
53496-15-4	Amyl acetate, sec-; (Amy acetate) (CAS 628637)	L	6.77E+04	1.92E+05	5.46E+05	1.00E+06	1.55E+06	2.17E+06
71-41-0	Amyl alcohol mixed isomers; (1-Pentanol)	L	4.73E+04	1.34E+05	3.81E+05	7.01E+05	1.08E+06	1.51E+06
110-58-7	Amylamine, n-; (1-Pentylamine)	L	2.67E+02	7.59E+02	2.15E+03	3.97E+03	6.12E+03	8.56E+03
10034-81-8	Anhydrone; (Magnesium perchlorate)	Pwd	7.73E+03	2.20E+04	6.23E+04	1.15E+05	1.77E+05	2.47E+05
10034-81-8	Anhydrone; (Magnesium perchlorate)	S	7.73E+04	2.20E+05	6.23E+05	1.15E+06	1.77E+06	2.47E+06
10034-81-8	Anhydrone; (Magnesium perchlorate)	Pwd	7.73E+03	2.20E+04	6.23E+04	1.15E+05	1.77E+05	2.47E+05
10034-81-8	Anhydrone; (Magnesium perchlorate)	S	7.73E+04	2.20E+05	6.23E+05	1.15E+06	1.77E+06	2.47E+06
62-53-3	Aniline	L	5.60E+04	1.59E+05	4.51E+05	8.31E+05	1.28E+06	1.79E+06
90-04-0	Anisidine, o-	L	1.98E+05	5.63E+05	1.60E+06	2.94E+06	4.54E+06	6.35E+06
104-94-9	Anisidine, p-	S	7.73E+03	2.20E+04	6.23E+04	1.15E+05	1.77E+05	2.47E+05
100-66-3	Anisole; (Anisole anhydrous; Methoxybenzene)	L	2.27E+04	6.45E+04	1.83E+05	3.37E+05	5.20E+05	7.27E+05
120-12-7	Anthracene	S	2.32E+04	6.59E+04	1.87E+05	3.44E+05	5.31E+05	7.42E+05
84-65-1	Anthraquinone dye; (sans dye, see Hawley)	S	7.73E+04	2.20E+05	6.23E+05	1.15E+06	1.77E+06	2.47E+06
7440-36-0	Antimony	S	7.73E+03	2.20E+04	6.23E+04	1.15E+05	1.77E+05	2.47E+05
7440-36-0	Antimony	Pwd	7.73E+02	2.20E+03	6.23E+03	1.15E+04	1.77E+04	2.47E+04
7803-52-3	Antimony Hydride (Stibine, hydrogen antimomide)	G	1.18E+00	3.36E+00	9.54E+00	9.54E+00	2.71E+01	3.79E+01
1309-64-4	Antimony oxide (Antimony trioxide)	Cry Pwd	9.28E+02	2.63E+03	7.48E+03	1.38E+04	2.12E+04	2.97E+04
7647-18-9	Antimony pentachloride	L	1.43E+05	4.07E+05	1.15E+06	2.12E+06	3.28E+06	4.58E+06
7783-70-2	Antimony pentafluoride	L	1.00E+04	2.84E+04	8.07E+04	1.49E+05	2.29E+05	3.21E+05
1315-04-4	Antimony pentasulfide	Pwd	1.16E+03	3.29E+03	9.35E+03	1.72E+04	2.65E+04	3.71E+04
28300-74-5	Antimony potassium tartrate trihydrate; (sans trihydrate)	Pwd	1.93E+03	5.49E+03	1.56E+04	2.87E+04	4.42E+04	6.19E+04
28300-74-5	Antimony potassium tartrate trihydrate; (sans trihydrate)	S	1.93E+04	5.49E+04	1.56E+05	2.87E+05	4.42E+05	6.19E+05
10025-91-9	Antimony trichloride	Cry Pwd	1.16E+03	3.29E+03	9.35E+03	1.72E+04	2.65E+04	3.71E+04

10025-91-9	Antimony trichloride	S	1.16E+04	3.29E+04	9.35E+04	1.72E+05	2.65E+05	3.71E+05
7783-56-4	Antimony trifluoride	Pwd	1.16E+03	3.29E+03	9.35E+03	1.72E+04	2.65E+04	3.71E+04
1397-94-0	Antimycin A	S	1.93E+03	5.49E+03	1.56E+04	2.87E+04	4.42E+04	6.19E+04
1397-94-0	Antimycin A	Pwd	1.93E+02	5.49E+02	1.56E+03	2.87E+03	4.42E+03	6.19E+03
61373-87-3	Antioxidant G-16 (most toxic antiox)	L	3.70E+03	1.05E+04	2.98E+04	5.49E+04	8.47E+04	1.18E+05
8007-56-5	Aqua regia (75% hydrochloric + 25% nitric acid)	L	2.92E+03	8.29E+03	2.35E+04	4.33E+04	6.68E+04	9.34E+04
74-79-3	Arginine, L-	Pwd	3.87E+03	1.10E+04	3.12E+04	5.74E+04	8.84E+04	1.24E+05
74-79-3	Arginine, L-	S	3.87E+04	1.10E+05	3.12E+05	5.74E+05	8.84E+05	1.24E+06
7440-37-1	Argon	G	1.26E+05	3.58E+05	1.02E+06	1.87E+06	2.89E+06	4.04E+06
7440-37-1	Argon (cryogenic)	G	1.26E+05	3.58E+05	1.02E+06	1.87E+06	2.89E+06	4.04E+06
LANL-00-11	Argon 10% nitrogen 90%	G	9.23E+04	2.62E+05	7.44E+05	1.37E+06	2.11E+06	2.95E+06
LANL-00-38	Argon 75% Carbon dioxide 25%	G	3.34E+04	9.48E+04	2.69E+05	4.95E+05	7.64E+05	1.07E+06
LANL-00-26	Argon 75% helium 25%	G	9.78E+04	2.78E+05	7.88E+05	1.45E+06	2.24E+06	3.13E+06
64742-95-6	Aromatic hydrocarbon solvents; (High flash naphtha distillates; Solvent naphtha [petroleum], light aromatic)	L	5.52E+04	1.57E+05	4.44E+05	8.18E+05	1.26E+06	1.77E+06
7440-38-2	Arsenic (organic compounds as As)	Pwd	5.41E+03	1.54E+04	4.36E+04	8.03E+04	1.24E+05	1.73E+05
7440-38-2	Arsenic (Standard Solution)	L	5.02E+04	1.43E+05	4.05E+05	7.45E+05	1.15E+06	1.61E+06
1327-52-2	Arsenic acid	Cry Pwd	7.73E+02	2.20E+03	6.23E+03	1.15E+04	1.77E+04	2.47E+04
7778-39-4	Arsenic acid; (o-arsenic acid)	S	1.16E+03	3.29E+03	9.35E+03	1.72E+04	2.65E+04	3.71E+04
1303-28-2	Arsenic pentoxide	S	1.16E+03	3.29E+03	9.35E+03	1.72E+04	2.65E+04	3.71E+04
1303-28-2	Arsenic pentoxide	Pwd	1.16E+02	3.29E+02	9.35E+02	1.72E+03	2.65E+03	3.71E+03
1327-53-3	Arsenic Trioxide	Cry Pwd	7.73E+01	2.20E+02	6.23E+02	1.15E+03	1.77E+03	2.47E+03
1327-53-3	Arsenic Trioxide	Pwd	7.73E+01	2.20E+02	6.23E+02	1.15E+03	1.77E+03	2.47E+03
1327-53-3	Arsenic Trioxide	S	7.73E+02	2.20E+03	6.23E+03	1.15E+04	1.77E+04	2.47E+04
13464-58-9	Arsenious acid	S	1.16E+03	3.29E+03	9.35E+03	1.72E+04	2.65E+04	3.71E+04
7784-34-1	Arsenous trichloride	L	1.13E+03	3.20E+03	9.07E+03	1.50E+04	1.50E+04	1.50E+04
7784-42-1	Arsine	G	7.39E-01	2.10E+00	5.96E+00	5.96E+00	1.69E+01	2.37E+01
1332-21-4	Asbestos	S	3.87E+02	1.10E+03	3.12E+03	5.74E+03	8.84E+03	1.24E+04
12001-29-5	Asbestos (Chrysotile)	S	3.87E+04	1.10E+05	3.12E+05	5.74E+05	8.84E+05	1.24E+06
12172-73-5	Asbestos Amosite	S	1.93E+01	5.49E+01	1.56E+02	2.87E+02	4.42E+02	6.19E+02
12001-28-4	Asbestos Crocidolite	S	7.73E+04	2.20E+05	6.23E+05	1.15E+06	1.77E+06	2.47E+06
512-85-6	Ascaridole	L	1.76E+03	4.99E+03	1.42E+04	2.61E+04	4.02E+04	5.62E+04
50-81-7	Ascorbic acid	Cry Pwd	7.73E+03	2.20E+04	6.23E+04	1.15E+05	1.77E+05	2.47E+05
50-81-7	Ascorbic acid	S	7.73E+04	2.20E+05	6.23E+05	1.15E+06	1.77E+06	2.47E+06
8052-42-4	Asphalt; (Bitumen; see also Petroleum asphalt)	S	3.87E+04	1.10E+05	3.12E+05	5.74E+05	8.84E+05	1.24E+06
2465-27-2	Auramine; (4.4-[Imidocarbonyl]bis[n.n-dimethylamine])	Pwd	9.28E+02	2.63E+03	7.48E+03	1.38E+04	2.12E+04	2.97E+04
2465-27-2	Auramine; (4.4-[Imidocarbonyl]bis[n.n-dimethylamine])	S	9.28E+03	2.63E+04	7.48E+04	1.38E+05	2.12E+05	2.97E+05
115-02-6	Azaserine; (L-Serine,diazoacetate (ester))	Cry Pwd	1.16E+03	3.29E+03	9.35E+03	1.72E+04	2.65E+04	3.71E+04
2642-71-9	Azinphos ethyl; (Ethyl guthion)	S	2.32E+04	6.59E+04	1.87E+05	3.44E+05	5.31E+05	7.42E+05

2642-71-9	Azinphos ethyl; (Ethyl guthion)	Pwd	2.32E+03	6.59E+03	1.87E+04	3.44E+04	5.31E+04	7.42E+04
86-50-0	Azinphos methyl	S	1.55E+03	4.39E+03	1.25E+04	2.29E+04	3.54E+04	4.95E+04
86-50-0	Azinphos methyl	Pwd	1.55E+02	4.39E+02	1.25E+03	2.29E+03	3.54E+03	4.95E+03
123-77-3	Azodicarbamide; (Azodicarbonamide)	Cry Pwd	3.09E+03	8.78E+03	2.49E+04	4.59E+04	7.08E+04	9.90E+04
67-52-7	Barbituric acid	S	3.09E+04	8.78E+04	2.49E+05	4.59E+05	7.08E+05	9.90E+05
7440-39-3	Barium	S	1.93E+04	5.49E+04	1.56E+05	2.87E+05	4.42E+05	6.19E+05
7440-39-3	Barium (Standard Solution)	L	6.00E+03	1.70E+04	4.83E+04	8.89E+04	1.37E+05	1.92E+05
513-77-9	Barium carbonate	Pwd	7.73E+03	2.20E+04	6.23E+04	1.15E+05	1.77E+05	2.47E+05
10361-37-2	Barium chloride	S	7.73E+03	2.20E+04	6.23E+04	1.15E+05	1.77E+05	2.47E+05
10361-37-2	Barium chloride Solution <3%	L	1.09E+03	3.08E+03	8.75E+03	1.61E+04	2.49E+04	3.48E+04
10294-40-3	Barium chromate	Pwd	1.16E+03	3.29E+03	9.35E+03	1.72E+04	2.65E+04	3.71E+04
542-62-1	Barium cyanide	Cry Pwd	9.28E+02	2.63E+03	7.48E+03	1.38E+04	2.12E+04	2.97E+04
1304-29-6	Barium dioxide; (Barium peroxide)	Pwd	1.16E+02	3.29E+02	9.35E+02	1.72E+03	2.65E+03	3.71E+03
6211-24-1	Barium diphenylamine sulfonate	S	3.09E+04	8.78E+04	2.49E+05	4.59E+05	7.08E+05	9.90E+05
6211-24-1	Barium diphenylamine sulfonate	Pwd	3.09E+03	8.78E+03	2.49E+04	4.59E+04	7.08E+04	9.90E+04
7787-32-8	Barium fluoride	S	1.55E+04	4.39E+04	1.25E+05	2.29E+05	3.54E+05	4.95E+05
7787-32-8	Barium fluoride	Pwd	1.55E+03	4.39E+03	1.25E+04	2.29E+04	3.54E+04	4.95E+04
10048-98-3	Barium hydrogen phosphate; (Barium phosphate dibasic)	Pwd	3.09E+02	8.78E+02	2.49E+03	4.59E+03	7.08E+03	9.90E+03
17194-00-2	Barium hydroxide	Pwd	1.55E+03	4.39E+03	1.25E+04	2.29E+04	3.54E+04	4.95E+04
17194-00-2	Barium hydroxide solution (<2%)	L	2.91E+03	8.26E+03	2.34E+04	4.32E+04	6.65E+04	9.31E+04
13701-59-2	Barium metaborate	S	7.73E+04	2.20E+05	6.23E+05	1.15E+06	1.77E+06	2.47E+06
10022-31-8	Barium nitrate	S	1.16E+04	3.29E+04	9.35E+04	1.72E+05	2.65E+05	3.71E+05
13465-94-6	Barium nitrite	Cry Pwd	3.09E+02	8.78E+02	2.49E+03	4.59E+03	7.08E+03	9.90E+03
115216-77-8	Barium nitrite hydrate	Cry Pwd	1.16E+03	3.29E+03	9.35E+03	1.72E+04	2.65E+04	3.71E+04
7787-38-4	Barium nitrite monohydrate	Cry Pwd	1.16E+03	3.29E+03	9.35E+03	1.72E+04	2.65E+04	3.71E+04
1304-28-5	Barium oxide	Pwd	7.73E+02	2.20E+03	6.23E+03	1.15E+04	1.77E+04	2.47E+04
7787-36-2	Barium permanganate	S	7.50E+03	7.50E+03	7.50E+03	7.50E+03	7.50E+03	7.50E+03
13466-20-1	Barium phosphate, Mono	S	3.09E+03	8.78E+03	2.49E+04	4.59E+04	7.08E+04	9.90E+04
7727-43-7	Barium sulfate	Pwd	3.87E+03	1.10E+04	3.12E+04	5.74E+04	8.84E+04	1.24E+05
66-71-7	Bathophenanthroline; (Use 1,10-o-Phenanthroline)	Pwd	4.64E+02	1.32E+03	3.74E+03	6.88E+03	1.06E+04	1.48E+04
66-71-7	Bathophenanthroline; (Use 1,10-o-Phenanthroline)	S	4.64E+03	1.32E+04	3.74E+04	6.88E+04	1.06E+05	1.48E+05
162-01-7	Bathophenanthroline; (Use 1,10-o-Phenanthroline)	Pwd	4.64E+02	1.32E+03	3.74E+03	6.88E+03	1.06E+04	1.48E+04
205-99-2	Benz(e)acephenanthrylene; (Benz(b)fluoroanthene)	Cry Pwd	3.09E+02	8.78E+02	2.49E+03	4.59E+03	7.08E+03	9.90E+03
98-87-3	Benzal chloride	L	2.69E+05	7.62E+05	2.16E+06	3.98E+06	6.14E+06	8.59E+06
100-52-7	Benzaldehyde	L	1.83E+05	5.19E+05	1.47E+06	2.71E+06	4.18E+06	5.86E+06
55-21-0	Benzamide	Cry Pwd	5.41E+03	1.54E+04	4.36E+04	8.03E+04	1.24E+05	1.73E+05
71-43-2	Benzene	L	3.84E+03	1.09E+04	3.09E+04	5.69E+04	8.77E+04	1.23E+05

1076-43-3	Benzene D6	L	4.54E+03	1.29E+04	3.66E+04	6.73E+04	1.04E+05	1.45E+05
608-73-1	Benzene hexachloride	Pwd	6.19E+02	1.76E+03	4.99E+03	9.18E+03	1.42E+04	1.98E+04
319-85-7	Benzene hexachloride, beta; (trans-alpha-); (Hexachlorocyclohexane, 1,2,3,4,5,6-, beta isomer)	S	7.73E+04	2.20E+05	6.23E+05	1.15E+06	1.77E+06	2.47E+06
100-14-1	Benzene, 1-(chloromethyl)-4-nitro-; (p-Nitrobenzyl chloride)	Pwd	1.93E+03	5.49E+03	1.56E+04	2.87E+04	4.42E+04	6.19E+04
100-14-1	Benzene, 1-(chloromethyl)-4-nitro-; (p-Nitrobenzyl chloride)	S	1.93E+04	5.49E+04	1.56E+05	2.87E+05	4.42E+05	6.19E+05
98-05-5	Benzenearsonic acid; (Phenylarsonic acid)	Pwd	4.18E+00	1.19E+01	3.37E+01	6.19E+01	9.55E+01	1.34E+02
98-05-5	Benzenearsonic acid; (Phenylarsonic acid)	S	4.18E+01	1.19E+02	3.37E+02	6.19E+02	9.55E+02	1.34E+03
98-09-9	Benzenesulfonic acid chloride; (Benzenesulfonyl chloride)	L	1.69E+06	4.79E+06	1.36E+07	2.50E+07	3.86E+07	5.40E+07
108-98-5	Benzenethiol; (Thiophenol; Phenyl mercaptan)	L	8.52E+02	2.42E+03	6.87E+03	1.26E+04	1.95E+04	2.73E+04
92-87-5	Benzidene	Pwd	1.93E+03	5.49E+03	1.56E+04	2.87E+04	4.42E+04	6.19E+04
92-87-5	Benzidene	S	1.93E+04	5.49E+04	1.56E+05	2.87E+05	4.42E+05	6.19E+05
56-55-3	Benzo(a)anthracene	S	2.32E+03	6.59E+03	1.87E+04	3.44E+04	5.31E+04	7.42E+04
50-32-8	Benzo(a)pyrene; (Coal tar pitch volatiles)	S	1.24E+04	3.51E+04	9.97E+04	1.84E+05	2.83E+05	3.96E+05
191-24-2	Benzo(ghi)perylene	S	3.87E+04	1.10E+05	3.12E+05	5.74E+05	8.84E+05	1.24E+06
207-08-9	Benzo(k)fluoranthene	Cry Pwd	3.09E+02	8.78E+02	2.49E+03	4.59E+03	7.08E+03	9.90E+03
65-85-0	Benzoic acid	Pwd	6.19E+03	1.76E+04	4.99E+04	9.18E+04	1.42E+05	1.98E+05
100-47-0	Benzonitrile	L	1.31E+05	3.72E+05	1.06E+06	1.94E+06	3.00E+06	4.19E+06
106-51-4	Benzoquinone, p-; (Quinone)	S	1.54E+04	4.38E+04	1.24E+05	2.29E+05	3.53E+05	4.94E+05
106-51-4	Benzoquinone, p-; (Quinone)	S	1.54E+04	4.38E+04	1.24E+05	2.29E+05	3.53E+05	4.94E+05
98-08-8	Benzotrifluoride	L	6.16E+03	1.75E+04	4.96E+04	9.13E+04	1.41E+05	1.97E+05
98-88-4	Benzoyl chloride	L	2.88E+04	8.18E+04	2.32E+05	4.27E+05	6.59E+05	9.22E+05
94-36-0	Benzoyl peroxide	S	7.50E+03	7.50E+03	7.50E+03	7.50E+03	7.50E+03	7.50E+03
94-36-0	Benzoyl peroxide	Pwd	7.50E+03	7.50E+03	7.50E+03	7.50E+03	7.50E+03	7.50E+03
100-51-6	Benzyl alcohol	L	8.22E+04	2.33E+05	6.62E+05	1.22E+06	1.88E+06	2.63E+06
100-44-7	Benzyl chloride	L	1.02E+04	2.90E+04	8.22E+04	1.51E+05	2.33E+05	3.26E+05
140-29-4	Benzyl cyanide; (Phenylacetonitrile)	L	1.24E+04	3.52E+04	9.98E+04	1.84E+05	2.83E+05	3.96E+05
122-19-0	Benzyl dimethyl ammonium chloride; (Dimethyloctadecylbenzylammonium chloride)	S	7.73E+04	2.20E+05	6.23E+05	1.15E+06	1.77E+06	2.47E+06
98-07-7	Benzyl trichloride; (Trichloromethylbenzene)	L	7.27E+04	2.06E+05	5.86E+05	1.08E+06	1.66E+06	2.33E+06
85-68-7	Benzylbutylester phthalic acid; (Benzyl butyl phthalate)	L	3.20E+10	9.08E+10	2.58E+11	4.74E+11	7.31E+11	1.02E+12
7440-41-7	Beryllium	Pwd	1.55E+00	4.39E+00	1.25E+01	2.29E+01	3.54E+01	4.95E+01
7440-41-7	Beryllium (standard solution) (<1%)	L	5.53E-01	1.57E+00	4.46E+00	8.20E+00	1.26E+01	1.77E+01
7787-47-5	Beryllium chloride	S	5.41E+03	1.54E+04	4.36E+04	8.03E+04	1.24E+05	1.73E+05
7787-49-7	Beryllium fluoride	Cry Pwd	3.09E+02	8.78E+02	2.49E+03	4.59E+03	7.08E+03	9.90E+03
13327-32-7	Beryllium hydroxide	S	3.09E+03	8.78E+03	2.49E+04	4.59E+04	7.08E+04	9.90E+04
13327-32-7	Beryllium hydroxide	Pwd	3.09E+02	8.78E+02	2.49E+03	4.59E+03	7.08E+03	9.90E+03

13597-99-4	Beryllium nitrate	S	9.28E+03	2.63E+04	7.48E+04	1.38E+05	2.12E+05	2.97E+05
13597-99-4	Beryllium nitrate <35%	L	9.72E+02	2.76E+03	7.83E+03	1.44E+04	2.22E+04	3.11E+04
1304-56-9	Beryllium oxide	Pwd	1.55E+02	4.39E+02	1.25E+03	2.29E+03	3.54E+03	4.95E+03
15271-41-7	Bicyclo[2.2.1]heptane-2-carbonitrile, 5-chloro-6-((((methylamino)carbonyl)oxy)imino)-, (1s-(1-alpha,2-beta,4-alpha,5-alpha,6E))-.	Pwd	2.94E+02	8.34E+02	2.37E+03	4.36E+03	6.72E+03	9.40E+03
15271-41-7	Bicyclo[2.2.1]heptane-2-carbonitrile, 5-chloro-6-((((methylamino)carbonyl)oxy)imino)-, (1s-(1-alpha,2-beta,4-alpha,5-alpha,6E))-.	S	2.94E+03	8.34E+03	2.37E+04	4.36E+04	6.72E+04	9.40E+04
1464-53-5	Bioxirane, 2,2-; (1,2:3,4-Diepoxybutane)	L	2.29E+02	6.51E+02	1.85E+03	3.40E+03	5.25E+03	7.34E+03
132-27-4	Biphenolol, sodium salt, 2-;	S	4.64E+04	1.32E+05	3.74E+05	6.88E+05	1.06E+06	1.48E+06
4130-42-1	Bis(1,1-dimethylethyl)-4-ethylphenol, 2,6-	Pwd	6.19E+03	1.76E+04	4.99E+04	9.18E+04	1.42E+05	1.98E+05
128-37-0	Bis(1,1-dimethylethyl)-4-methylphenol, 2,6-; (BHT [food grade]; 2,6-Di-tert-butyl-p-cresol))	Pwd	6.19E+03	1.76E+04	4.99E+04	9.18E+04	1.42E+05	1.98E+05
25321-09-9	Bis(1-methylethyl) benzene; (Diisopropylbenzene)	L	5.15E+05	1.46E+06	4.15E+06	7.63E+06	1.18E+07	1.65E+07
100-18-5	Bis(1-methylethyl)benzene, 1-4; (p- or 1,4-Diisopropylbenzene)	L	6.79E+05	1.93E+06	5.47E+06	1.01E+07	1.55E+07	2.17E+07
112-36-7	Bis(2-ethoxyethyl) ether; (Diethyl carbitol)	L	3.39E+05	9.62E+05	2.73E+06	5.03E+06	7.75E+06	1.08E+07
298-07-7	Bis(2-ethyl hexyl) hydrogen phosphate	L	2.13E+10	6.03E+10	1.71E+11	3.15E+11	4.86E+11	6.80E+11
120-40-1	Bis(2-hydroxyethyl)dodecan amide, N,N-; [LAURAMIDE DEA]	S	1.82E+05	5.16E+05	1.46E+06	2.70E+06	4.16E+06	5.82E+06
96-69-5	Bis(3-tert-butyl-4-hydroxy-6-methyl-phenyl) sulfide	Cry Pwd	7.73E+03	2.20E+04	6.23E+04	1.15E+05	1.77E+05	2.47E+05
534-07-6	Bis(chloromethyl)ketone; (1,3-Dichloroacetone)	Pwd	3.09E+01	8.78E+01	2.49E+02	4.59E+02	7.08E+02	9.90E+02
534-07-6	Bis(chloromethyl)ketone; (1,3-Dichloroacetone)	S	3.09E+02	8.78E+02	2.49E+03	4.59E+03	7.08E+03	9.90E+03
78-71-7	bis(Chloromethyl)oxetane, 3,3-	L	7.71E+04	2.19E+05	6.22E+05	1.14E+06	1.76E+06	2.47E+06
13280-61-0	Bis(o-methylstyryl) benzene, p-; (1,4-bis[2-[2-methylphenyl]ethenyl]-benzene)	Pwd	3.87E+03	1.10E+04	3.12E+04	5.74E+04	8.84E+04	1.24E+05
63918-89-8	Bis[2(2-chlorethyl-thio)ester]; (2-2'-Di(3-chloroethylthio)diethyl ether	L	8.08E+02	2.29E+03	6.51E+03	1.20E+04	1.85E+04	2.58E+04
39472-40-7	Bis[2-chloroethyl]sulfide; (HD vesicant; Mustard gas)	L	2.78E+04	7.89E+04	2.24E+05	4.12E+05	6.36E+05	8.89E+05
68157-62-0	Bis[2-chloroethyl]sulfide; (HD vesicant; Mustard gas)	L	2.78E+04	7.89E+04	2.24E+05	4.12E+05	6.36E+05	8.89E+05
505-60-2	Bis[2-chloroethyl]sulfide; (HD vesicant; Mustard gas)	L	2.31E+04	6.54E+04	1.86E+05	3.42E+05	5.27E+05	7.38E+05
126-15-8	Bisbutenylenetetrahydrofurfural; (2,3,4,5-bis(2-butylene)tetrahydro-2-furaldehyde)	L	1.40E+04	3.98E+04	1.13E+05	2.08E+05	3.20E+05	4.48E+05
7440-69-9	Bismuth	Pwd	3.09E+03	8.78E+03	2.49E+04	4.59E+04	7.08E+04	9.90E+04
7440-69-9	Bismuth	S	3.09E+04	8.78E+04	2.49E+05	4.59E+05	7.08E+05	9.90E+05
7440-69-9	Bismuth (standard Solution) (<1%)	L	6.24E+03	1.77E+04	5.03E+04	9.26E+04	1.43E+05	2.00E+05

12233-73-7	Bismuth germanate	S	3.09E+04	8.78E+04	2.49E+05	4.59E+05	7.08E+05	9.90E+05
10361-43-0	Bismuth hydroxide	S	1.55E+04	4.39E+04	1.25E+05	2.29E+05	3.54E+05	4.95E+05
1304-85-4	Bismuth hydroxide nitrate oxide; (White paint)	Pwd	7.73E+03	2.20E+04	6.23E+04	1.15E+05	1.77E+05	2.47E+05
10361-44-1	Bismuth nitrate	S	7.73E+04	2.20E+05	6.23E+05	1.15E+06	1.77E+06	2.47E+06
1304-76-3	Bismuth oxide	Pwd	7.73E+03	2.20E+04	6.23E+04	1.15E+05	1.77E+05	2.47E+05
7787-59-9	Bismuth oxychloride	Pwd	7.73E+03	2.20E+04	6.23E+04	1.15E+05	1.77E+05	2.47E+05
80-05-7	Bisphenol A	S	7.73E+04	2.20E+05	6.23E+05	1.15E+06	1.77E+06	2.47E+06
80-05-7	Bisphenol A	Pwd	7.73E+03	2.20E+04	6.23E+04	1.15E+05	1.77E+05	2.47E+05
1675-54-3	Bisphenol A diglycidyl ether	L	2.04E+02	5.79E+02	1.64E+03	3.03E+03	4.67E+03	6.53E+03
4044-65-9	Bitoscanate; (1,4-Phenylenediisothiocyanic acid)	Pwd	3.09E+02	8.78E+02	2.49E+03	4.59E+03	7.08E+03	9.90E+03
4044-65-9	Bitoscanate; (1,4-Phenylenediisothiocyanic acid)	S	3.09E+03	8.78E+03	2.49E+04	4.59E+04	7.08E+04	9.90E+04
14044-65-6	Borane-tetrahydrofuran	L	2.14E+03	6.08E+03	1.73E+04	3.18E+04	4.90E+04	6.86E+04
6569-51-3	Borazine (Triboron Nitride)	L	7.53E+02	2.14E+03	6.07E+03	1.12E+04	1.72E+04	2.41E+04
10043-35-3	Boric acid	S	1.93E+04	5.49E+04	1.56E+05	2.87E+05	4.42E+05	6.19E+05
10043-35-3	Boric acid <4%	L	5.16E+09	1.46E+10	4.15E+10	7.65E+10	1.18E+11	1.65E+11
7440-42-8	Boron	Pwd	3.87E+03	1.10E+04	3.12E+04	5.74E+04	8.84E+04	1.24E+05
12069-32-8	Boron carbide	Pwd	3.87E+03	1.10E+04	3.12E+04	5.74E+04	8.84E+04	1.24E+05
10043-11-5	Boron Nitride	Pwd	1.39E+04	3.95E+04	1.12E+05	2.06E+05	3.18E+05	4.45E+05
1303-86-2	Boron oxide	S	7.73E+04	2.20E+05	6.23E+05	1.15E+06	1.77E+06	2.47E+06
10294-33-4	Boron tribromide	L	1.49E+02	4.22E+02	1.20E+03	2.20E+03	3.40E+03	4.75E+03
10294-34-5	Boron trichloride	L	9.93E-01	2.82E+00	8.00E+00	8.00E+00	2.27E+01	3.18E+01
10294-34-5	Boron trichloride (TrichloroBorane)	G	1.85E+00	5.26E+00	1.49E+01	1.49E+01	4.24E+01	5.93E+01
7637-07-2	Boron trifluoride [5L = ~3kg]	G	1.55E+01	4.39E+01	1.25E+02	1.25E+02	2.50E+02	2.50E+02
109-63-7	Boron trifluoride etherate	L	6.21E+04	1.76E+05	5.01E+05	9.21E+05	1.42E+06	1.99E+06
353-42-4	Boron trifluoride-dimethyl ether	L	1.69E+02	4.79E+02	1.36E+03	2.50E+03	3.86E+03	5.40E+03
28772-56-7	Bromadiolone	Pwd	1.55E+01	4.39E+01	1.25E+02	2.29E+02	3.54E+02	4.95E+02
28772-56-7	Bromadiolone	S	1.55E+02	4.39E+02	1.25E+03	2.29E+03	3.54E+03	4.95E+03
7726-95-6	Bromide (Standard Solution) (<1% Bromine)	L	1.29E+01	3.67E+01	1.04E+02	1.92E+02	2.96E+02	4.14E+02
7726-95-6	Bromine	L	3.81E+01	1.08E+02	3.07E+02	3.07E+02	8.70E+02	1.22E+03
13863-41-7	Bromine chloride	L	8.74E+01	2.48E+02	7.04E+02	7.04E+02	1.50E+03	1.50E+03
13863-41-7	Bromine chloride	G	3.87E+01	1.10E+02	3.12E+02	3.12E+02	8.84E+02	1.24E+03
7789-30-2	Bromine pentafluoride	L	1.40E+02	3.97E+02	1.13E+03	1.13E+03	2.50E+03	2.50E+03
7787-71-5	Bromine trifluoride	L	1.50E+04	1.50E+04	1.50E+04	1.50E+04	1.50E+04	1.50E+04
126-06-7	Bromo-1-chloro-5,5-dimethylhydantoin, 3-; (Bromochlorodimethylimidazokidinedione)	Pwd	3.87E+03	1.10E+04	3.12E+04	5.74E+04	8.84E+04	1.24E+05
32718-18-6	Bromo-3-chloro-5,5-dimethylhydantoin, 1-	Pwd	1.55E+02	4.39E+02	1.25E+03	2.29E+03	3.54E+03	4.95E+03
598-31-2	Bromoacetone	G	6.50E+00	1.84E+01	5.23E+01	9.63E+01	1.49E+02	2.08E+02
108-86-1	Bromobenzene; (Phenyl bromide)	L	2.21E+04	6.27E+04	1.78E+05	3.28E+05	5.06E+05	7.07E+05
108-37-2	Bromochlorobenzene, m-	L	3.94E+05	1.12E+06	3.17E+06	5.84E+06	9.00E+06	1.26E+07
106-39-8	Bromochlorobenzene, p-	L	6.73E+05	1.91E+06	5.42E+06	9.98E+06	1.54E+07	2.15E+07
106-39-8	Bromochlorobenzene, p-	Cry Pwd	3.87E+03	1.10E+04	3.12E+04	5.74E+04	8.84E+04	1.24E+05

74-97-5	Bromochloromethane	L	1.32E+04	3.74E+04	1.06E+05	1.95E+05	3.01E+05	4.21E+05
76-60-8	Bromocresol green	L	1.16E+04	3.29E+04	9.35E+04	1.72E+05	2.65E+05	3.71E+05
76-60-8	Bromocresol green	Pwd	3.87E+03	1.10E+04	3.12E+04	5.74E+04	8.84E+04	1.24E+05
76-60-8	Bromocresol green	S	3.87E+04	1.10E+05	3.12E+05	5.74E+05	8.84E+05	1.24E+06
115-40-2	Bromocresol purple	L	1.07E+04	3.02E+04	8.58E+04	1.58E+05	2.44E+05	3.41E+05
115-40-2	Bromocresol purple	S	3.87E+04	1.10E+05	3.12E+05	5.74E+05	8.84E+05	1.24E+06
16536-57-5	Bromocyclohexanol, Cis-2-	S	4.53E+04	1.29E+05	3.65E+05	6.72E+05	1.04E+06	1.45E+06
75-27-4	Bromodichloromethane	L	2.43E+03	6.90E+03	1.96E+04	3.61E+04	5.56E+04	7.78E+04
75-25-2	Bromoform; (Tribromomethane)	L	2.26E+05	6.42E+05	1.82E+06	3.35E+06	5.17E+06	7.24E+06
90-11-9	Bromonaphthalene	L	2.73E+05	7.76E+05	2.20E+06	4.05E+06	6.25E+06	8.74E+06
101-55-3	Bromophenyl phenyl ether, 4-	L	9.81E+07	2.78E+08	7.90E+08	1.45E+09	2.24E+09	3.14E+09
106-94-5	Bromopropane, 1-	L	1.09E+04	3.10E+04	8.81E+04	1.62E+05	2.50E+05	3.50E+05
598-73-2	Bromotrifluoroethylene	G	1.27E+02	3.61E+02	1.02E+03	1.89E+03	2.91E+03	4.07E+03
75-63-8	Bromotrifluoromethane; (Trifluorobromomethane)	G	3.77E+04	1.07E+05	3.03E+05	5.59E+05	8.61E+05	1.21E+06
357-57-3	Brucine (as srychnine)	S	6.19E+03	1.76E+04	4.99E+04	9.18E+04	1.42E+05	1.98E+05
various	Buffer solution 10	L	5.61E+03	1.59E+04	4.52E+04	8.32E+04	1.28E+05	1.79E+05
various	Buffer solution Ph 5.0	L	1.04E+05	2.97E+05	8.42E+05	1.55E+06	2.39E+06	3.34E+06
various	Buffer solution Ph 6.0	L	1.04E+05	2.94E+05	8.35E+05	1.54E+06	2.37E+06	3.32E+06
7732-18-5	Buffer solution, aequeous	L	4.11E+03	1.17E+04	3.31E+04	6.09E+04	9.39E+04	1.31E+05
106-99-0	Butadiene,1,3-	G	1.71E+03	4.85E+03	1.38E+04	2.54E+04	3.91E+04	5.47E+04
106-97-8	Butane	G	6.98E+03	1.98E+04	5.63E+04	1.04E+05	1.60E+05	2.23E+05
123-25-1	Butanedioic acid, diethyl ester; (Succinic acid, diethyl ester)	L	2.18E+05	6.19E+05	1.76E+06	3.23E+06	4.99E+06	6.98E+06
106-65-0	Butanedioic acid, dimethyl ester; (Succinic acid, dimethyl ester)	L	5.00E+05	1.42E+06	4.03E+06	7.42E+06	1.14E+07	1.60E+07
106-65-0	Butanedioic acid, dimethyl ester; (Succinic acid, dimethyl ester)	S	3.23E+05	9.18E+05	2.61E+06	4.80E+06	7.40E+06	1.03E+07
3457-91-8	Butanediol dinitrate, 1,4-	S	3.41E+03	9.69E+03	2.75E+04	5.06E+04	7.81E+04	1.09E+05
110-63-4	Butanediol, 1,4-; (1,4-Tetramethylene glycol; TMA)	L	2.68E+05	7.62E+05	2.16E+06	3.98E+06	6.14E+06	8.59E+06
109-74-0	Butanenitrile; (Butyronitrile)	L	6.27E+02	1.78E+03	5.05E+03	9.30E+03	1.43E+04	2.01E+04
109-79-5	Butanethiol; (n-Butyl mercaptan)	L	1.84E+03	5.22E+03	1.48E+04	2.73E+04	4.20E+04	5.88E+04
109-21-7	Butanoic acid, butyl ester; (n-Butyl n-butanoate)	L	4.33E+03	1.23E+04	3.48E+04	6.41E+04	9.89E+04	1.38E+05
78-93-3	Butanone, 2-; (MEK)	L	1.08E+04	3.07E+04	8.72E+04	1.60E+05	2.47E+05	3.46E+05
25167-67-3	Butene	G	1.78E+05	5.04E+05	1.43E+06	2.63E+06	4.06E+06	5.68E+06
106-98-9	Butene, 1-; (Butylene) [19L = ~11kg]	G	1.77E+05	5.03E+05	1.43E+06	2.63E+06	4.06E+06	5.68E+06
107-01-7	Butene, 2-	G	1.06E+02	3.02E+02	8.57E+02	1.58E+03	2.43E+03	3.41E+03
590-18-1	Butene, cis-2-; (cis-1,2-Dimethylethylene) [1L= 540g]	G	6.03E+03	1.71E+04	4.86E+04	8.94E+04	1.38E+05	1.93E+05
624-64-6	Butene-trans, 2-; (trans-1,2-Dimethylethylene) [0.5L = 200g]	G	8.87E+03	2.52E+04	7.15E+04	1.32E+05	2.03E+05	2.84E+05

112-56-1	Butoxy ethoxy)ethyl thiocyanate, 2-(2-; (LETHANE 384)	L	2.70E+07	7.66E+07	2.17E+08	4.00E+08	6.17E+08	8.64E+08
112-07-2	Butoxyethanol acetate; 2- (Ethylene glycol monobutyl ether acetate)	L	1.86E+05	5.28E+05	1.50E+06	2.76E+06	4.25E+06	5.95E+06
78-51-3	Butoxyethanol phosphate, 2-	L	1.05E+07	2.99E+07	8.48E+07	1.56E+08	2.41E+08	3.37E+08
111-76-2	Butoxyethanol, 2-; (Glycol ether EB) (BUTYL CELLOSOLVE)	L	2.81E+05	7.99E+05	2.27E+06	4.17E+06	6.43E+06	9.00E+06
112-34-5	Butoxyethoxy)-ethanol, 2-(2-; (Diethylene glycol monobutyl ether)	L	9.47E+06	2.69E+07	7.63E+07	1.40E+08	2.16E+08	3.03E+08
9003-13-8	Butoxypolypropylene glycol	L	4.95E+07	1.40E+08	3.99E+08	7.34E+08	1.13E+09	1.58E+09
123-86-4	Butyl acetate, n-	L	6.41E+04	1.82E+05	5.16E+05	9.51E+05	1.47E+06	2.05E+06
105-46-4	Butyl acetate, sec-	L	2.73E+04	7.76E+04	2.20E+05	4.05E+05	6.25E+05	8.75E+05
540-88-5	Butyl acetate, tert-	L	1.02E+04	2.90E+04	8.22E+04	1.51E+05	2.33E+05	3.26E+05
141-32-2	Butyl acrylate, n-	L	2.55E+04	7.25E+04	2.06E+05	3.79E+05	5.84E+05	8.17E+05
71-36-3	Butyl alcohol, n-	L	6.32E+04	1.79E+05	5.09E+05	9.37E+05	1.44E+06	2.02E+06
15892-23-6	Butyl alcohol, sec-; (2-Butanol)	L	3.98E+04	1.13E+05	3.21E+05	5.91E+05	9.11E+05	1.27E+06
78-92-2	Butyl alcohol, sec-; (2-Butanol)	L	4.94E+07	1.40E+08	3.98E+08	7.32E+08	1.13E+09	1.58E+09
78-92-2	Butyl alcohol, sec-; (sec-butanol)	L	4.97E+04	1.41E+05	4.00E+05	7.37E+05	1.14E+06	1.59E+06
z-0007	Butyl bis(2-ethylhexyl)phosphate	S	1.79E+03	5.09E+03	1.45E+04	2.66E+04	4.10E+04	5.74E+04
142-96-1	Butyl ether, n-; (Dibutyl ether)	L	2.37E+04	6.73E+04	1.91E+05	3.51E+05	5.42E+05	7.58E+05
2426-08-6	Butyl glycidyl ether, n-	L	2.67E+04	7.59E+04	2.15E+05	3.97E+05	6.12E+05	8.56E+05
111-36-4	Butyl isocyanate, n-	L	1.78E+01	5.07E+01	1.44E+02	2.65E+02	4.08E+02	5.71E+02
109-72-8	Butyl lithium	L	1.34E+08	3.79E+08	1.08E+09	1.98E+09	3.05E+09	4.27E+09
614-45-9	Butyl perbenzoate, tert-	L	7.50E+03	7.50E+03	7.50E+03	7.50E+03	7.50E+03	7.50E+03
590-01-2	Butyl propanoate; (Propanoic acid, butyl ester)	L	3.79E+04	1.08E+05	3.06E+05	5.63E+05	8.68E+05	1.21E+06
55406-53-6	Butyl-3-iodo-propnyl ester carbamic acid	S	3.87E+04	1.10E+05	3.12E+05	5.74E+05	8.84E+05	1.24E+06
513-49-5	Butylamine, (S)-sec-	L	2.14E+02	6.09E+02	1.73E+03	3.18E+03	4.90E+03	6.86E+03
109-73-9	Butylamine, n-	L	7.79E+02	2.21E+03	6.28E+03	1.16E+04	1.78E+04	2.49E+04
13952-84-6	Butylamine, sec-	L	2.86E+01	8.11E+01	2.30E+02	4.24E+02	6.54E+02	9.15E+02
75-64-9	Butylamine, tert-	L	9.92E+01	2.82E+02	7.99E+02	1.47E+03	2.27E+03	3.17E+03
104-51-8	Butylbenzene, n-; (1-Phenylbutane)	L	4.20E+05	1.19E+06	3.38E+06	6.22E+06	9.60E+06	1.34E+07
135-98-8	Butylbenzene, sec-; (2-Phenylbutane)	L	4.79E+04	1.36E+05	3.86E+05	7.10E+05	1.10E+06	1.53E+06
98-06-6	Butylbenzene, tert-	L	2.36E+05	6.70E+05	1.90E+06	3.50E+06	5.39E+06	7.55E+06
1678-93-9	Butylcyclohexane; (1-Cyclohexylbutane)	L	2.21E+04	6.28E+04	1.78E+05	3.28E+05	5.06E+05	7.08E+05
98-53-3	Butylcyclohexanone, p-tert-	S	7.73E+04	2.20E+05	6.23E+05	1.15E+06	1.77E+06	2.47E+06
109-72-8	ButylLithium (in Hexane)	L	7.92E+09	2.25E+10	6.38E+10	1.17E+11	1.81E+11	2.53E+11
98-29-3	Butylpyrocatechol, 4-tert-; (4-tert-Butylcatechol)	Cry Pwd	7.73E+03	2.20E+04	6.23E+04	1.15E+05	1.77E+05	2.47E+05
110-65-6	Butyne-1,4-diol, 2-; (1,4-Butynediol)	S	4.64E+03	1.32E+04	3.74E+04	6.88E+04	1.06E+05	1.48E+05
123-72-8	Butyraldehyde	L	5.31E+04	1.51E+05	4.28E+05	7.88E+05	1.22E+06	1.70E+06
107-92-6	Butyric acid	L	1.80E+05	5.12E+05	1.45E+06	2.68E+06	4.12E+06	5.77E+06
569-64-2	C.I. Basic Green 4; (Aizen malachite green)	Cry Pwd	5.41E+02	1.54E+03	4.36E+03	8.03E+03	1.24E+04	1.73E+04
989-38-8	C.I. Basic Red 1; (Rhodamine 6G extra base)	Cry Pwd	3.87E+01	1.10E+02	3.12E+02	5.74E+02	8.84E+02	1.24E+03

1937-37-7	C.I. Direct Black 38; (Apomine black GX)	Pwd	7.73E+03	2.20E+04	6.23E+04	1.15E+05	1.77E+05	2.47E+05
81-88-9	C.I. Food Red 15; (FD&C Red No. 19)	Pwd	7.73E+02	2.20E+03	6.23E+03	1.15E+04	1.77E+04	2.47E+04
14302-13-7	C.I. pigment green 36	S	7.73E+04	2.20E+05	6.23E+05	1.15E+06	1.77E+06	2.47E+06
14302-13-7	C.I. pigment green 36	Pwd	7.73E+03	2.20E+04	6.23E+04	1.15E+05	1.77E+05	2.47E+05
5102-83-0	C.I. pigment yellow 13; Butanamide, 2,2'-((3,3'-dichloro(1,1'-biphenyl)-4,4'-diyl)bis(azo)biz(N-(2,4-dimethylphenyl)-3-oxo-	S	7.73E+04	2.20E+05	6.23E+05	1.15E+06	1.77E+06	2.47E+06
5468-75-7	C.I. pigment yellow 14	S	7.73E+04	2.20E+05	6.23E+05	1.15E+06	1.77E+06	2.47E+06
5468-75-7	C.I. pigment yellow 14	Pwd	7.73E+03	2.20E+04	6.23E+04	1.15E+05	1.77E+05	2.47E+05
13530-65-9	C.I. pigment yellow 36; (Zinc chromate)	Pwd	7.73E+02	2.20E+03	6.23E+03	1.15E+04	1.77E+04	2.47E+04
13530-65-9	C.I. pigment yellow 36; (Zinc chromate)	S	7.73E+03	2.20E+04	6.23E+04	1.15E+05	1.77E+05	2.47E+05
13530-65-9	C.I. pigment yellow 36; (Zinc chromate)	S	7.73E+03	2.20E+04	6.23E+04	1.15E+05	1.77E+05	2.47E+05
13530-65-9	C.I. pigment yellow 36; (Zinc chromate)	Pwd	7.73E+02	2.20E+03	6.23E+03	1.15E+04	1.77E+04	2.47E+04
97-56-3	C.I. Solvent Yellow 3	L	3.15E+11	8.93E+11	2.54E+12	4.67E+12	7.20E+12	1.01E+13
97-56-3	C.I. Solvent Yellow 3		0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
68410-23-1	C-18 Unsarturated Fatty Acid Dimer (Epoxys); [Versamid 140 polyamide resin; Versamid 125)	L	4.87E+03	1.38E+04	3.92E+04	7.22E+04	1.11E+05	1.56E+05
z-0008	C8 Alkane	Cry Pwd	1.44E+05	4.09E+05	1.16E+06	2.14E+06	3.30E+06	4.61E+06
75-60-5	Cacodylic acid (as inorganic As)	Cry Pwd	7.73E+01	2.20E+02	6.23E+02	1.15E+03	1.77E+03	2.47E+03
7440-43-9	Cadmium & compounds	S	1.16E+03	3.29E+03	9.35E+03	1.72E+04	2.65E+04	3.71E+04
7440-43-9	Cadmium & compounds	Pwd	1.16E+02	3.29E+02	9.35E+02	1.72E+03	2.65E+03	3.71E+03
543-90-8	Cadmium (II) acetate	Cry Pwd	1.16E+02	3.29E+02	9.35E+02	1.72E+03	2.65E+03	3.71E+03
543-90-8	Cadmium (II) acetate	S	1.16E+03	3.29E+03	9.35E+03	1.72E+04	2.65E+04	3.71E+04
7440-43-9	Cadmium (Standard Solution) (<1%)	L	9.61E+01	2.73E+02	7.75E+02	1.43E+03	2.20E+03	3.08E+03
7789-42-6	Cadmium bromide	Pwd	3.09E+02	8.78E+02	2.49E+03	4.59E+03	7.08E+03	9.90E+03
7789-42-6	Cadmium bromide	S	3.09E+03	8.78E+03	2.49E+04	4.59E+04	7.08E+04	9.90E+04
513-78-0	Cadmium carbonate	Pwd	1.93E+02	5.49E+02	1.56E+03	2.87E+03	4.42E+03	6.19E+03
10108-64-2	Cadmium chloride	S	2.32E+03	6.59E+03	1.87E+04	3.44E+04	5.31E+04	7.42E+04
7790-79-6	Cadmium fluoride	Pwd	1.93E+02	5.49E+02	1.56E+03	2.87E+03	4.42E+03	6.19E+03
7790-79-6	Cadmium fluoride	S	1.93E+03	5.49E+03	1.56E+04	2.87E+04	4.42E+04	6.19E+04
21041-95-2	Cadmium hydroxide	S	1.55E+03	4.39E+03	1.25E+04	2.29E+04	3.54E+04	4.95E+04
21041-95-2	Cadmium hydroxide	Pwd	1.55E+02	4.39E+02	1.25E+03	2.29E+03	3.54E+03	4.95E+03
10325-94-7	Cadmium nitrate	S	2.32E+03	6.59E+03	1.87E+04	3.44E+04	5.31E+04	7.42E+04
10022-68-1	Cadmium nitrate tetrahydrate	S	3.87E+03	1.10E+04	3.12E+04	5.74E+04	8.84E+04	1.24E+05
z-0009	Cadmium nitrite	S	2.32E+03	6.59E+03	1.87E+04	3.44E+04	5.31E+04	7.42E+04
1306-19-0	Cadmium oxide	Pwd	1.55E+02	4.39E+02	1.25E+03	2.29E+03	3.54E+03	4.95E+03
1306-19-0	Cadmium oxide	S	1.55E+03	4.39E+03	1.25E+04	2.29E+04	3.54E+04	4.95E+04
2223-93-0	Cadmium stearate; (Octadecanoic acid, cadmium salt)	Pwd	7.73E+02	2.20E+03	6.23E+03	1.15E+04	1.77E+04	2.47E+04
2223-93-0	Cadmium stearate; (Octadecanoic acid, cadmium salt)	S	7.73E+03	2.20E+04	6.23E+04	1.15E+05	1.77E+05	2.47E+05
10124-36-4	Cadmium sulfate	S	2.32E+03	6.59E+03	1.87E+04	3.44E+04	5.31E+04	7.42E+04

10124-36-4	Cadmium sulfate	Cry Pwd	2.32E+02	6.59E+02	1.87E+03	3.44E+03	5.31E+03	7.42E+03
7790-85-4	Cadmium tungstate	S	4.64E+03	1.32E+04	3.74E+04	6.88E+04	1.06E+05	1.48E+05
7440-70-2	Calcium	S	3.87E+04	1.10E+05	3.12E+05	5.74E+05	8.84E+05	1.24E+06
7778-44-1	Calcium Arsenate	Pwd	1.55E+02	4.39E+02	1.25E+03	2.29E+03	3.54E+03	4.95E+03
7778-44-1	Calcium Arsenate	S	1.55E+03	4.39E+03	1.25E+04	2.29E+04	3.54E+04	4.95E+04
75-20-7	Calcium carbide	Cry Pwd	3.87E+03	1.10E+04	3.12E+04	5.74E+04	8.84E+04	1.24E+05
1317-65-3	Calcium carbonate; (Dolomite, Limestone)	Cry Pwd	2.32E+02	6.59E+02	1.87E+03	3.44E+03	5.31E+03	7.42E+03
1317-65-3	Calcium carbonate; (Dolomite, Limestone)	S	2.32E+03	6.59E+03	1.87E+04	3.44E+04	5.31E+04	7.42E+04
10043-52-4	Calcium chloride	L	8.77E+03	2.49E+04	7.07E+04	1.30E+05	2.01E+05	2.81E+05
10043-52-4	Calcium chloride	Pwd	6.19E+03	1.76E+04	4.99E+04	9.18E+04	1.42E+05	1.98E+05
10043-52-4	Calcium chloride	S	6.19E+04	1.76E+05	4.99E+05	9.18E+05	1.42E+06	1.98E+06
10035-04-8	Calcium chloride dihydrate	Cry Pwd	7.73E+03	2.20E+04	6.23E+04	1.15E+05	1.77E+05	2.47E+05
10035-04-8	Calcium chloride dihydrate	S	7.73E+04	2.20E+05	6.23E+05	1.15E+06	1.77E+06	2.47E+06
13765-19-0	Calcium chromate	Pwd	2.32E+03	6.59E+03	1.87E+04	3.44E+04	5.31E+04	7.42E+04
156-62-7	Calcium cyanamide	Pwd	7.73E+03	2.20E+04	6.23E+04	1.15E+05	1.77E+05	2.47E+05
156-62-7	Calcium cyanamide	S	7.73E+04	2.20E+05	6.23E+05	1.15E+06	1.77E+06	2.47E+06
7789-75-5	Calcium fluoride	S	7.73E+04	2.20E+05	6.23E+05	1.15E+06	1.77E+06	2.47E+06
7789-75-5	Calcium fluoride	Pwd	7.73E+03	2.20E+04	6.23E+04	1.15E+05	1.77E+05	2.47E+05
544-17-2	Calcium formate	Cry Pwd	7.73E+03	2.20E+04	6.23E+04	1.15E+05	1.77E+05	2.47E+05
544-17-2	Calcium formate	S	7.73E+04	2.20E+05	6.23E+05	1.15E+06	1.77E+06	2.47E+06
7789-78-8	Calcium hydride	S	1.16E+04	3.29E+04	9.35E+04	1.72E+05	2.65E+05	3.71E+05
1305-62-0	Calcium hydroxide	Pwd	7.73E+03	2.20E+04	6.23E+04	1.15E+05	1.77E+05	2.47E+05
1305-62-0	Calcium hydroxide	Cry Pwd	7.73E+03	2.20E+04	6.23E+04	1.15E+05	1.77E+05	2.47E+05
1306-06-5	Calcium hydroxyapatite	S	7.73E+04	2.20E+05	6.23E+05	1.15E+06	1.77E+06	2.47E+06
1306-06-5	Calcium hydroxyapatite	Cry Pwd	7.73E+03	2.20E+04	6.23E+04	1.15E+05	1.77E+05	2.47E+05
1306-06-5	Calcium hydroxyapatite	Pwd	7.73E+03	2.20E+04	6.23E+04	1.15E+05	1.77E+05	2.47E+05
7778-54-3	Calcium hypochlorite; (Calcium oxychloride)	gran Pwd	5.41E+03	1.54E+04	4.36E+04	8.03E+04	1.24E+05	1.73E+05
7778-54-3	Calcium hypochlorite; (Calcium oxychloride)	S	5.41E+04	1.54E+05	4.36E+05	8.03E+05	1.24E+06	1.73E+06
13780-06-8	Calcium nitrite	Cry Pwd	7.73E+02	2.20E+03	6.23E+03	1.15E+04	1.77E+04	2.47E+04
563-72-4	Calcium oxalate	Pwd	7.73E+02	2.20E+03	6.23E+03	1.15E+04	1.77E+04	2.47E+04
1305-78-8	Calcium oxide (Lime)	S	3.87E+03	1.10E+04	3.12E+04	5.74E+04	8.84E+04	1.24E+05
1305-78-8	Calcium oxide (Lime)	Pwd	3.87E+02	1.10E+03	3.12E+03	5.74E+03	8.84E+03	1.24E+04
10103-46-5	Calcium phosphate; (Tricalcium phosphate)	S	5.41E+04	1.54E+05	4.36E+05	8.03E+05	1.24E+06	1.73E+06
7778-18-9	Calcium sulfate (DRIERITE)	S	3.87E+04	1.10E+05	3.12E+05	5.74E+05	8.84E+05	1.24E+06
7778-18-9	Calcium sulfate (DRIERITE)	Pwd	3.87E+03	1.10E+04	3.12E+04	5.74E+04	8.84E+04	1.24E+05
10124-37-5	Calcium(II) nitrate	S	1.93E+04	5.49E+04	1.56E+05	2.87E+05	4.42E+05	6.19E+05
13477-34-4	Calcium(II) nitrate tetrahydrate (1:2:4)	S	7.73E+04	2.20E+05	6.23E+05	1.15E+06	1.77E+06	2.47E+06
76-22-2	Camphor	S	3.09E+04	8.78E+04	2.49E+05	4.59E+05	7.08E+05	9.90E+05
56-25-7	Cantharidin	L	4.37E+00	1.24E+01	3.52E+01	6.48E+01	9.99E+01	1.40E+02
56-25-7	Cantharidin	Pwd	6.65E+01	1.89E+02	5.36E+02	9.87E+02	1.52E+03	2.13E+03
56-25-7	Cantharidin	S	6.65E+02	1.89E+03	5.36E+03	9.87E+03	1.52E+04	2.13E+04
105-60-2	Caprolactam (dust)	Pwd	3.09E+02	8.78E+02	2.49E+03	4.59E+03	7.08E+03	9.90E+03

105-60-2	Caprolactam (dust)	S	3.09E+03	8.78E+03	2.49E+04	4.59E+04	7.08E+04	9.90E+04
111-64-8	Caprylyl chloride; (Octanoyl chloride)	L	1.52E+03	4.30E+03	1.22E+04	2.25E+04	3.47E+04	4.85E+04
133-06-2	Captan	Pwd	7.73E+03	2.20E+04	6.23E+04	1.15E+05	1.77E+05	2.47E+05
133-06-2	Captan	S	7.73E+04	2.20E+05	6.23E+05	1.15E+06	1.77E+06	2.47E+06
51-83-2	Carbachol Chloride	Pwd	2.32E+02	6.59E+02	1.87E+03	3.44E+03	5.31E+03	7.42E+03
51-83-2	Carbachol Chloride	S	2.32E+03	6.59E+03	1.87E+04	3.44E+04	5.31E+04	7.42E+04
63-25-2	Carbaryl	S	1.55E+04	4.39E+04	1.25E+05	2.29E+05	3.54E+05	4.95E+05
86-74-8	Carbazole	S	1.16E+04	3.29E+04	9.35E+04	1.72E+05	2.65E+05	3.71E+05
1563-66-2	Carbofuran	S	7.73E+01	2.20E+02	6.23E+02	1.15E+03	1.77E+03	2.47E+03
1563-66-2	Carbofuran	Pwd	7.73E+00	2.20E+01	6.23E+01	1.15E+02	1.77E+02	2.47E+02
1333-86-4	Carbon black	Pwd	7.73E+03	2.20E+04	6.23E+04	1.15E+05	1.77E+05	2.47E+05
124-38-9	Carbon dioxide	L	7.54E+02	2.14E+03	6.08E+03	1.12E+04	1.72E+04	2.41E+04
124-38-9	Carbon dioxide		0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
124-38-9	Carbon dioxide	G	1.11E+04	3.16E+04	8.97E+04	1.65E+05	2.55E+05	3.56E+05
LANL-00-46	Carbon dioxide <0.25% in nitrogen	G	8.52E+04	2.42E+05	6.86E+05	1.26E+06	1.95E+06	2.72E+06
LANL-00-45	Carbon dioxide 15% Oxygen 36% in Helium	G	4.42E+04	1.25E+05	3.56E+05	6.55E+05	1.01E+06	1.41E+06
LANL-00-21	Carbon dioxide 20% methane 40%	G	1.01E+04	2.87E+04	8.15E+04	1.50E+05	2.31E+05	3.24E+05
LANL-00-47	Carbon dioxide 25-40% in Argon	G	2.31E+04	6.56E+04	1.86E+05	3.43E+05	5.28E+05	7.39E+05
LANL-00-51	Carbon Dioxide 25-55% in Helium	G	1.12E+04	3.19E+04	9.04E+04	1.66E+05	2.57E+05	3.59E+05
75-15-0	Carbon disulfide	L	8.50E+02	2.41E+03	6.85E+03	1.26E+04	1.94E+04	2.00E+04
LANL-00-52	Carbon Disulfide 1000ppm in nitrogen	G	4.44E+04	1.26E+05	3.58E+05	6.58E+05	1.01E+06	1.42E+06
630-08-0	Carbon monoxide (cryogenic)	L	9.30E+00	2.64E+01	7.49E+01	1.38E+02	2.13E+02	2.97E+02
630-08-0	Carbon monoxide [10L = ~3kg)	G	8.85E+01	2.51E+02	7.13E+02	1.31E+03	2.02E+03	2.83E+03
LANL-00-53	Carbon Monoxide 10% in helium	G	1.99E+02	5.64E+02	1.60E+03	2.94E+03	4.54E+03	6.35E+03
LANL-00-54	Carbon Monoxide 10%, hydrogen 40% in nitrogen	G	5.23E+02	1.49E+03	4.22E+03	7.76E+03	1.20E+04	1.67E+04
56-23-5	Carbon tetrachloride	L	5.58E+03	1.58E+04	4.49E+04	8.27E+04	1.28E+05	1.78E+05
7440-44-0	Carbon; (Graphite, CASRN 7782-42-5) (Activated Carbon)	S	7.73E+04	2.20E+05	6.23E+05	1.15E+06	1.77E+06	2.47E+06
7440-44-0	Carbon; (Graphite, CASRN 7782-42-5) (Activated Carbon)	Pwd	7.73E+03	2.20E+04	6.23E+04	1.15E+05	1.77E+05	2.47E+05
471-34-1	Carbonic acid, calcium salt	S	7.73E+04	2.20E+05	6.23E+05	1.15E+06	1.77E+06	2.47E+06
471-34-1	Carbonic acid, calcium salt	Pwd	7.73E+03	2.20E+04	6.23E+04	1.15E+05	1.77E+05	2.47E+05
353-50-4	Carbonyl fluoride	G	8.35E+00	2.37E+01	6.73E+01	6.73E+01	1.91E+02	2.67E+02
1871-24-5	Carbonyl MonoFluoride (as CAS 353-50-4)	G	5.95E+00	1.69E+01	4.79E+01	8.82E+01	1.36E+02	1.90E+02
463-58-1	Carbonyl sulfide	L	4.90E+00	1.39E+01	3.95E+01	7.27E+01	1.12E+02	1.57E+02
463-58-1	Carbonyl sulfide	G	4.76E+01	1.35E+02	3.83E+02	7.06E+02	1.09E+03	1.52E+03
786-19-6	Carbophenothion; (Trithion)	L	1.49E+10	4.22E+10	1.20E+11	2.21E+11	3.40E+11	4.76E+11
16550-39-3	Carboxylic acid sodium salt	Pwd	1.55E+00	4.39E+00	1.25E+01	2.29E+01	3.54E+01	4.95E+01
16550-39-3	Carboxylic acid sodium salt	S	1.55E+01	4.39E+01	1.25E+02	2.29E+02	3.54E+02	4.95E+02
8001-79-4	Castor oil	L	2.62E+07	7.45E+07	2.11E+08	3.89E+08	6.00E+08	8.39E+08
120-80-9	Catechol	S	1.74E+04	4.94E+04	1.40E+05	2.58E+05	3.98E+05	5.57E+05

9004-34-6	Cellulose	Cry Pwd	7.73E+03	2.20E+04	6.23E+04	1.15E+05	1.77E+05	2.47E+05
9004-34-6	Cellulose	S	7.73E+04	2.20E+05	6.23E+05	1.15E+06	1.77E+06	2.47E+06
9004-34-6	Cellulose	Pwd	7.73E+03	2.20E+04	6.23E+04	1.15E+05	1.77E+05	2.47E+05
16774-21-3	Ceric ammonium nitrate	S	7.73E+04	2.20E+05	6.23E+05	1.15E+06	1.77E+06	2.47E+06
16774-21-3	Ceric ammonium nitrate	Pwd	7.73E+03	2.20E+04	6.23E+04	1.15E+05	1.77E+05	2.47E+05
16774-21-3	Ceric ammonium nitrate	Cry Pwd	7.73E+03	2.20E+04	6.23E+04	1.15E+05	1.77E+05	2.47E+05
16774-21-3	Ceric ammonium nitrate <3%	L	3.54E+09	1.00E+10	2.85E+10	5.25E+10	8.09E+10	1.13E+11
7637-03-8	Ceric ammonium sulfate	Cry Pwd	7.73E+03	2.20E+04	6.23E+04	1.15E+05	1.77E+05	2.47E+05
10378-47-9	Ceric Ammonium Sulfate Dihydrate; (Ce compounds)	Cry Pwd	7.73E+03	2.20E+04	6.23E+04	1.15E+05	1.77E+05	2.47E+05
1306-38-3	Ceric oxide	Cry Pwd	7.73E+03	2.20E+04	6.23E+04	1.15E+05	1.77E+05	2.47E+05
1306-38-3	Ceric oxide	Pwd	7.73E+03	2.20E+04	6.23E+04	1.15E+05	1.77E+05	2.47E+05
7440-45-1	Cerium	S	3.87E+04	1.10E+05	3.12E+05	5.74E+05	8.84E+05	1.24E+06
7790-86-5	Cerium chloride	Pwd	7.73E+03	2.20E+04	6.23E+04	1.15E+05	1.77E+05	2.47E+05
7790-86-5	Cerium chloride	S	7.73E+04	2.20E+05	6.23E+05	1.15E+06	1.77E+06	2.47E+06
7758-88-5	Cerium fluoride	Cry Pwd	7.73E+03	2.20E+04	6.23E+04	1.15E+05	1.77E+05	2.47E+05
7758-88-5	Cerium fluoride	Pwd	7.73E+03	2.20E+04	6.23E+04	1.15E+05	1.77E+05	2.47E+05
15785-09-8	Cerium hydroxide	Pwd	1.16E+03	3.29E+03	9.35E+03	1.72E+04	2.65E+04	3.71E+04
10294-41-4	Cerium nitrate hexahydrate	S	7.73E+04	2.20E+05	6.23E+05	1.15E+06	1.77E+06	2.47E+06
15750-47-7	Cerium oxalate	S	3.87E+04	1.10E+05	3.12E+05	5.74E+05	8.84E+05	1.24E+06
13266-83-6	Cerium oxalate	S	3.87E+04	1.10E+05	3.12E+05	5.74E+05	8.84E+05	1.24E+06
13590-82-4	Cerium sulfate	L	3.17E+03	8.99E+03	2.55E+04	4.70E+04	7.25E+04	1.01E+05
13590-82-4	Cerium sulfate	Cry Pwd	1.55E+03	4.39E+03	1.25E+04	2.29E+04	3.54E+04	4.95E+04
1345-13-7	Cerium trioxide	Pwd	3.09E+03	8.78E+03	2.49E+04	4.59E+04	7.08E+04	9.90E+04
10108-73-3	Cerous nitrate; (Cerium(III) nitrate)	S	7.73E+04	2.20E+05	6.23E+05	1.15E+06	1.77E+06	2.47E+06
z-0011	Cerous nitrite	S	1.16E+04	3.29E+04	9.35E+04	1.72E+05	2.65E+05	3.71E+05
7440-46-2	Cesium	S	7.73E+04	2.20E+05	6.23E+05	1.15E+06	1.77E+06	2.47E+06
534-17-8	Cesium carbonate	Cry Pwd	7.73E+03	2.20E+04	6.23E+04	1.15E+05	1.77E+05	2.47E+05
7647-17-8	Cesium chloride	Cry Pwd	7.73E+03	2.20E+04	6.23E+04	1.15E+05	1.77E+05	2.47E+05
7647-17-8	Cesium chloride	S	7.73E+04	2.20E+05	6.23E+05	1.15E+06	1.77E+06	2.47E+06
7647-17-8	Cesium Chloride (Reference 15-20%)	L	1.13E+04	3.22E+04	9.13E+04	1.68E+05	2.59E+05	3.62E+05
13400-13-0	Cesium fluoride	Pwd	7.73E+03	2.20E+04	6.23E+04	1.15E+05	1.77E+05	2.47E+05
13400-13-0	Cesium fluoride	S	7.73E+04	2.20E+05	6.23E+05	1.15E+06	1.77E+06	2.47E+06
21351-79-1	Cesium hydroxide	Cry Pwd	3.87E+03	1.10E+04	3.12E+04	5.74E+04	8.84E+04	1.24E+05
21351-79-1	Cesium hydroxide 50% wt	L	8.98E+03	2.55E+04	7.24E+04	1.33E+05	2.05E+05	2.87E+05
7789-17-5	Cesium iodide	Cry Pwd	7.73E+03	2.20E+04	6.23E+04	1.15E+05	1.77E+05	2.47E+05
7789-17-5	Cesium iodide	S	7.73E+04	2.20E+05	6.23E+05	1.15E+06	1.77E+06	2.47E+06
7789-18-6	Cesium nitrate	Pwd	7.73E+03	2.20E+04	6.23E+04	1.15E+05	1.77E+05	2.47E+05
z-0012	Cesium nitrite	S	9.28E+03	2.63E+04	7.48E+04	1.38E+05	2.12E+05	2.97E+05
133-90-4	Chloramben; (3-Amino-2,5-dichlorobenzoic acid)	L	1.06E+03	3.00E+03	8.53E+03	1.57E+04	2.42E+04	3.39E+04
133-90-4	Chloramben; (3-Amino-2,5-dichlorobenzoic acid)	S	7.73E+04	2.20E+05	6.23E+05	1.15E+06	1.77E+06	2.47E+06
57-74-9	Chlordane	L	8.78E+09	2.49E+10	7.07E+10	1.30E+11	2.01E+11	2.81E+11

470-90-6	Chlorfenvinfos	L	1.76E+09	4.99E+09	1.42E+10	2.60E+10	4.02E+10	5.62E+10
108-90-7	Chlorinated benzene; (Chlorobenzene)	L	3.33E+04	9.44E+04	2.68E+05	4.93E+05	7.61E+05	1.06E+06
68410-99-1	Chlorinated polyolefins	S	3.87E+04	1.10E+05	3.12E+05	5.74E+05	8.84E+05	1.24E+06
68410-99-1	Chlorinated polyolefins <40%	L	8.81E+03	2.50E+04	7.10E+04	1.31E+05	2.01E+05	2.82E+05
7782-50-5	Chlorine	L	4.42E+02	1.26E+03	1.50E+03	1.50E+03	1.50E+03	1.50E+03
7782-50-5	Chlorine [2L= ~2kg]	G	8.97E+00	2.54E+01	7.22E+01	7.22E+01	2.05E+02	2.87E+02
10049-04-4	Chlorine dioxide	G	1.28E+00	3.63E+00	1.03E+01	1.03E+01	2.93E+01	4.09E+01
z-0013	Chlorine Hi dry granular (as Cl)	S	4.48E+03	1.27E+04	3.61E+04	6.65E+04	1.03E+05	1.43E+05
7791-21-1	Chlorine Monoxide	G	1.65E+00	4.68E+00	1.33E+01	2.45E+01	3.77E+01	5.28E+01
13637-63-3	Chlorine pentafluoride	G	4.95E+01	1.40E+02	3.99E+02	3.99E+02	1.00E+03	1.00E+03
7790-91-2	Chlorine trifluoride	G	5.85E+00	1.66E+01	4.71E+01	4.71E+01	1.34E+02	1.87E+02
24934-91-6	Chlormephos	L	3.65E+06	1.04E+07	2.94E+07	5.41E+07	8.35E+07	1.17E+08
999-81-5	Chlormequat Chloride; (Choline dichloride)	S	1.16E+03	3.29E+03	9.35E+03	1.72E+04	2.65E+04	3.71E+04
999-81-5	Chlormequat Chloride; (Choline dichloride)	Pwd	1.16E+02	3.29E+02	9.35E+02	1.72E+03	2.65E+03	3.71E+03
999-81-5	Chlormequat Chloride; (Choline dichloride) <12%	L	4.01E+10	1.14E+11	3.23E+11	5.94E+11	9.16E+11	1.28E+12
75-68-3	Chloro-1,1-difluoroethane, 1-; (HCFC-142b)	G	1.59E+04	4.51E+04	1.28E+05	2.36E+05	3.63E+05	5.08E+05
97-00-7	Chloro-2,4-dinitrobenzene, 1-	S	5.00E+03	5.00E+03	5.00E+03	5.00E+03	5.00E+03	5.00E+03
563-47-3	Chloro-2-methyl-1-propene, 3-	L	8.42E+01	2.39E+02	6.78E+02	1.25E+03	1.92E+03	2.69E+03
107-20-0	Chloroacetaldehyde	L	1.79E+02	5.07E+02	1.44E+03	2.65E+03	4.09E+03	5.72E+03
79-11-8	Chloroacetic acid	S	1.16E+04	3.29E+04	9.35E+04	1.72E+05	2.65E+05	3.71E+05
79-11-8	Chloroacetic acid	pwd	1.16E+03	3.29E+03	9.35E+03	1.72E+04	2.65E+04	3.71E+04
78-95-5	Chloroacetone	L	1.38E+02	3.92E+02	1.11E+03	2.05E+03	3.16E+03	4.42E+03
79-04-9	Chloroacetyl chloride	L	2.80E+02	7.94E+02	2.26E+03	4.15E+03	6.40E+03	8.96E+03
4080-31-3	Chloroallyl)-3,5,7-triaza-1-azoniaadamantane chloride, 1-(3-	Pwd	3.09E+03	8.78E+03	2.49E+04	4.59E+04	7.08E+04	9.90E+04
106-47-8	Chloroaniline, p-	S	4.64E+04	1.32E+05	3.74E+05	6.88E+05	1.06E+06	1.48E+06
510-15-6	Chlorobenzylate; (4,4'-Dichloro-benzilic acid ethyl ester)	L	8.73E+10	2.48E+11	7.03E+11	1.29E+12	2.00E+12	2.79E+12
2698-41-1	Chlorobenzylidene malononitrile, o-	S	3.09E+02	8.78E+02	2.49E+03	4.59E+03	7.08E+03	9.90E+03
2698-41-1	Chlorobenzylidene malononitrile, o-	Cry Pwd	3.09E+01	8.78E+01	2.49E+02	4.59E+02	7.08E+02	9.90E+02
109-69-3	Chlorobutane, 1-; (Butyl chloride)	L	3.43E+03	9.72E+03	2.76E+04	5.08E+04	7.83E+04	1.10E+05
6628-80-4	Chlorocyclohexanol, trans-2-	S	6.19E+04	1.76E+05	4.99E+05	9.18E+05	1.42E+06	1.98E+06
930-65-4	Chlorocyclohexene; (4-Chlorocyclohexene)	L	5.13E+04	1.46E+05	4.13E+05	7.61E+05	1.17E+06	1.64E+06
96-10-6	Chlorodiethylaluminum; (Diethylaluminum chloride)	L	5.00E+03	5.00E+03	5.00E+03	5.00E+03	5.00E+03	5.00E+03
75-45-6	Chlorodifluoromethane	G	4.10E+03	1.16E+04	3.30E+04	6.08E+04	9.38E+04	1.31E+05
53469-21-9	Chlorodiphenyl (42% Cl); (Arochlor 1242)	L	3.31E+06	9.41E+06	2.67E+07	4.92E+07	7.58E+07	1.06E+08
12672-29-6	Chlorodiphenyl (48%); (Aroclor 1248)	L	3.50E+07	9.95E+07	2.82E+08	5.20E+08	8.01E+08	1.12E+09
11097-69-1	Chlorodiphenyl (54% Cl); (Arochlor 1254)	L	3.76E+07	1.07E+08	3.03E+08	5.58E+08	8.61E+08	1.20E+09
1622-32-8	Chloroethanesulfonyl chloride, 2-	L	7.58E+03	2.15E+04	6.11E+04	1.12E+05	1.73E+05	2.43E+05
627-11-2	Chloroethyl Chloroformate	L	8.96E+02	2.54E+03	7.22E+03	1.33E+04	2.05E+04	2.87E+04
110-75-8	Chloroethyl vinyl ether, 2-; (Ethene, 2-chloroethoxy-)	L	3.13E+02	8.88E+02	2.52E+03	4.64E+03	7.15E+03	1.00E+04

67-66-3	Chloroform	L	1.86E+04	2.00E+04	2.00E+04	2.00E+04	2.00E+04	2.00E+04
865-49-6	Chloroform-D	L	1.60E+04	4.55E+04	1.29E+05	2.38E+05	3.66E+05	5.13E+05
59-50-7	Chloro-m-cresol, 4-	S	7.73E+04	2.20E+05	6.23E+05	1.15E+06	1.77E+06	2.47E+06
107-30-2	Chloromethyl methyl ether	L	3.00E+01	8.52E+01	2.42E+02	2.42E+02	5.00E+02	5.00E+02
1558-25-4	Chloromethyl(trichloro)silane	L	1.00E+02	1.00E+02	1.00E+02	1.00E+02	1.00E+02	1.00E+02
90-13-1	Chloronaphthalene, 1- (alpha)	L	8.16E+06	2.32E+07	6.58E+07	1.21E+08	1.87E+08	2.61E+08
91-58-7	Chloronapthalene,2- (beta)	S	7.73E+04	2.20E+05	6.23E+05	1.15E+06	1.77E+06	2.47E+06
100-00-5	Chloronitrobenzene, p- ; (p-nitrochlrobenzene)	S	1.55E+04	4.39E+04	1.25E+05	2.29E+05	3.54E+05	4.95E+05
619-08-9	Chloronitrophenol, 2-	Pwd	5.49E+03	1.56E+04	4.42E+04	8.14E+04	1.25E+05	1.76E+05
937-14-4	Chloroperoxybenzoic acid, 3-	S	6.19E+03	1.76E+04	4.99E+04	9.18E+04	1.42E+05	1.98E+05
937-14-4	Chloroperoxybenzoic acid, 3-	Pwd	6.19E+02	1.76E+03	4.99E+03	9.18E+03	1.42E+04	1.98E+04
3691-35-8	Chlorophacinone	Pwd	1.55E+01	4.39E+01	1.25E+02	2.29E+02	3.54E+02	4.95E+02
3691-35-8	Chlorophacinone	S	1.55E+02	4.39E+02	1.25E+03	2.29E+03	3.54E+03	4.95E+03
108-43-0	Chlorophenol, m-	S	3.87E+04	1.10E+05	3.12E+05	5.74E+05	8.84E+05	1.24E+06
95-57-8	Chlorophenol, o-	L	2.25E+04	6.40E+04	1.82E+05	3.34E+05	5.15E+05	7.21E+05
7005-72-3	Chlorophenyl phenyl ether, 4-	L	4.85E+04	1.38E+05	3.91E+05	7.19E+05	1.11E+06	1.55E+06
5344-82-1	Chlorophenyl thiourea, 2-	Pwd	7.12E+01	2.02E+02	5.73E+02	1.06E+03	1.63E+03	2.28E+03
5344-82-1	Chlorophenyl thiourea, 2-	S	7.12E+02	2.02E+03	5.73E+03	1.06E+04	1.63E+04	2.28E+04
z-0014	Chloropicrin/Methyl bromide mixture	L	1.19E+03	3.38E+03	9.58E+03	1.76E+04	2.72E+04	3.81E+04
z-0015	Chloropicrin/Methyl chloride mixture	L	5.54E+02	1.57E+03	4.47E+03	8.22E+03	1.27E+04	1.77E+04
76-06-2	Chloropicrin; (Trichloronitromethane)	L	5.12E+01	1.45E+02	4.12E+02	5.00E+02	5.00E+02	5.00E+02
126-99-8	Chloroprene; (Neoprene)	L	5.64E+02	1.60E+03	4.54E+03	8.36E+03	1.29E+04	1.80E+04
590-21-6	Chloropropene, 1-	G	1.69E+01	4.81E+01	1.37E+02	2.51E+02	3.88E+02	5.42E+02
542-76-7	Chloropropionitrile, 3-	L	1.88E+03	5.34E+03	1.52E+04	2.79E+04	4.30E+04	6.02E+04
557-98-2	Chloropropylene, 2-	L	1.21E+04	3.43E+04	9.74E+04	1.79E+05	2.77E+05	3.87E+05
557-98-2	Chloropropylene, 2-	G	1.69E+04	4.81E+04	1.36E+05	2.51E+05	3.87E+05	5.42E+05
3569-57-1	Chloropropyl-n-octylsulfoxide, 3-	L	1.15E+10	3.25E+10	9.23E+10	1.70E+11	2.62E+11	3.67E+11
127-65-1	Chloro-p-toluenesulfonamide, sodium salt, n-; (Chloramine T) (see also SFV550)	S	3.87E+04	1.10E+05	3.12E+05	5.74E+05	8.84E+05	1.24E+06
127-65-1	Chloro-p-toluenesulfonamide, sodium salt, n-; (Chloramine T) (see also SFV550)	Cry Pwd	3.87E+03	1.10E+04	3.12E+04	5.74E+04	8.84E+04	1.24E+05
127-65-1	Chloro-p-toluenesulfonamide, sodium salt, n-; (Chloramine T) (see also SFV550)	Pwd	3.87E+03	1.10E+04	3.12E+04	5.74E+04	8.84E+04	1.24E+05
7790-94-5	Chlorosulfonic acid; (Chlorosulfuric acid)	L	1.96E+04	5.57E+04	1.58E+05	2.91E+05	4.49E+05	6.28E+05
64902-72-3	Chlorosulfuran	S	7.73E+04	2.20E+05	6.23E+05	1.15E+06	1.77E+06	2.47E+06
95-49-8	Chlorotoluene, 2-; (o-Chlorotoluene)	L	6.40E+04	1.82E+05	5.16E+05	9.50E+05	1.46E+06	2.05E+06
106-43-4	Chlorotoluene, 4-; (p-Tolyl chloride)	L	2.03E+05	5.77E+05	1.64E+06	3.01E+06	4.65E+06	6.50E+06
79-38-9	Chlorotrifluoroethylene	G	2.21E+02	6.27E+02	1.78E+03	1.78E+03	5.05E+03	7.07E+03
75-72-9	Chlorotrifluoromethane, (CFC-13)	G	1.65E+04	4.69E+04	1.33E+05	2.45E+05	3.78E+05	5.28E+05
1982-47-4	Chloroxuron	Pwd	7.73E+03	2.20E+04	6.23E+04	1.15E+05	1.77E+05	2.47E+05
1982-47-4	Chloroxuron	S	7.73E+04	2.20E+05	6.23E+05	1.15E+06	1.77E+06	2.47E+06
2921-88-2	Chlorpyrifos; (dursban)	S	1.16E+04	3.29E+04	9.35E+04	1.72E+05	2.65E+05	3.71E+05

21923-23-9	Chlorthiophos	L	1.71E+09	4.85E+09	1.38E+10	2.54E+10	3.91E+10	5.47E+10
21923-23-9	Chlorthiophos	L/Cry	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
13907-45-4	Chromates	Cry Pwd	2.32E+02	6.59E+02	1.87E+03	3.44E+03	5.31E+03	7.42E+03
1066-30-4	Chromic acetate; (Chromium[III] acetate)	S	1.55E+04	4.39E+04	1.25E+05	2.29E+05	3.54E+05	4.95E+05
1066-30-4	Chromic acetate; (Chromium[III] acetate)	Pwd	1.55E+03	4.39E+03	1.25E+04	2.29E+04	3.54E+04	4.95E+04
10025-73-7	Chromic chloride solution <45%	L	2.38E+03	6.77E+03	1.92E+04	3.54E+04	5.45E+04	7.63E+04
10025-73-7	Chromic chloride; (Chromium(III) chloride)	S	1.16E+04	3.29E+04	9.35E+04	1.72E+05	2.65E+05	3.71E+05
10025-73-7	Chromic chloride; (Chromium(III) chloride)	Pwd	1.16E+03	3.29E+03	9.35E+03	1.72E+04	2.65E+04	3.71E+04
1308-38-9	Chromic oxide (Chromium(III) oxide, chromium sesquioxide)	S	5.41E+03	1.54E+04	4.36E+04	8.03E+04	1.24E+05	1.73E+05
1308-38-9	Chromic oxide (Chromium(III) oxide, chromium sesquioxide)	Pwd	5.41E+02	1.54E+03	4.36E+03	8.03E+03	1.24E+04	1.73E+04
10101-53-8	Chromic sulfate; (Chromium(III) sulfate (2:3)	S	1.16E+04	3.29E+04	9.35E+04	1.72E+05	2.65E+05	3.71E+05
10101-53-8	Chromic sulfate; (Chromium(III) sulfate (2:3)	Cry Pwd	1.16E+03	3.29E+03	9.35E+03	1.72E+04	2.65E+04	3.71E+04
10101-53-8	Chromic sulfate; (Chromium(III) sulfate (2:3)	Pwd	1.16E+03	3.29E+03	9.35E+03	1.72E+04	2.65E+04	3.71E+04
1308-14-1	Chromic trihydroxide; (Chromic(III) acid)	S	7.73E+03	2.20E+04	6.23E+04	1.15E+05	1.77E+05	2.47E+05
1308-14-1	Chromic trihydroxide; (Chromic(III) acid) <5%	L	1.03E+03	2.93E+03	8.32E+03	1.53E+04	2.36E+04	3.30E+04
1333-82-0	Chromic trioxide; (Chromium(VI) oxide (1:3))	L	8.90E+02	2.53E+03	7.17E+03	1.32E+04	2.04E+04	2.85E+04
1333-82-0	Chromic trioxide; (Chromium(VI) oxide (1:3))	Pwd	4.64E+02	1.32E+03	3.74E+03	6.88E+03	1.06E+04	1.48E+04
1333-82-0	Chromic trioxide; (Chromium(VI) oxide (1:3))	S	4.64E+03	1.32E+04	3.74E+04	6.88E+04	1.06E+05	1.48E+05
7738-94-5	Chromic(VI) acid	Pwd	5.41E+02	1.54E+03	4.36E+03	8.03E+03	1.24E+04	1.73E+04
7738-94-5	Chromic(VI) acid	S	5.41E+03	1.54E+04	4.36E+04	8.03E+04	1.24E+05	1.73E+05
7738-94-5	Chromic(VI) acid (10% Solution)	L	9.00E+02	2.55E+03	7.25E+03	1.33E+04	2.06E+04	2.88E+04
1308-31-2	Chromite; (Chromite [mineral])	S	7.73E+04	2.20E+05	6.23E+05	1.15E+06	1.77E+06	2.47E+06
7440-47-3	Chromium	S	3.87E+04	1.10E+05	3.12E+05	5.74E+05	8.84E+05	1.24E+06
7789-02-8	Chromium nitrate nonahydrate	S	3.09E+04	8.78E+04	2.49E+05	4.59E+05	7.08E+05	9.90E+05
7440-47-3	Chromium Standard Solution (<1%)	L	2.48E+03	7.04E+03	2.00E+04	3.68E+04	5.67E+04	7.93E+04
13548-38-4	Chromium(III) nitrate	L	3.25E+03	9.21E+03	2.62E+04	4.81E+04	7.42E+04	1.04E+05
13548-38-4	Chromium(III) nitrate	S	1.55E+04	4.39E+04	1.25E+05	2.29E+05	3.54E+05	4.95E+05
z-0016	Chromium(III) oxide hydroxide; (Chromium oxyhydroxide)	S	6.19E+03	1.76E+04	4.99E+04	9.18E+04	1.42E+05	1.98E+05
z-0017	Chromium(VI) hydroxide	Cry Pwd	2.32E+02	6.59E+02	1.87E+03	3.44E+03	5.31E+03	7.42E+03
10049-05-5	Chromous chloride; (Chromium[II] chloride[1:2])	S	7.73E+04	2.20E+05	6.23E+05	1.15E+06	1.77E+06	2.47E+06
218-01-9	Chrysene (coal tar volatile)	S	1.24E+04	3.51E+04	9.97E+04	1.84E+05	2.83E+05	3.96E+05
218-01-9	Chrysene (coal tar volatile)	Pwd	1.24E+03	3.51E+03	9.97E+03	1.84E+04	2.83E+04	3.96E+04
10061-01-5	Cis-1,3-dichloropropene; (Mixture of cis and trans, CASRN 542-75-6)	L	1.30E+02	3.68E+02	1.04E+03	1.92E+03	2.96E+03	4.15E+03
77-92-9	Citric acid	L	4.36E+06	1.24E+07	3.52E+07	6.47E+07	9.98E+07	1.40E+08
77-92-9	Citric acid	S	7.73E+04	2.20E+05	6.23E+05	1.15E+06	1.77E+06	2.47E+06
5949-29-1	Citric acid monohydrate	Cry Pwd	2.32E+03	6.59E+03	1.87E+04	3.44E+04	5.31E+04	7.42E+04
1302-78-9	Clay absorbent: (Bentonite)	S	7.73E+03	2.20E+04	6.23E+04	1.15E+05	1.77E+05	2.47E+05
1302-78-9	Clay absorbent: (Bentonite)	Pwd	7.73E+02	2.20E+03	6.23E+03	1.15E+04	1.77E+04	2.47E+04

65996-93-2	Coal tar pitch volatiles; (Particulate polycyclic aromatic hydrocarbons)	L	3.27E+08	9.27E+08	2.63E+09	4.85E+09	7.47E+09	1.05E+10
65996-93-2	Coal tar pitch volatiles; (Particulate polycyclic aromatic hydrocarbons)	S	1.24E+04	3.51E+04	9.97E+04	1.84E+05	2.83E+05	3.96E+05
8007-45-2	Coal tar, aerosol	Cry Pwd	6.19E+02	1.76E+03	4.99E+03	9.18E+03	1.42E+04	1.98E+04
8007-45-2	Coal tar; (Coal tar volatiles)	L	3.27E+08	9.27E+08	2.63E+09	4.85E+09	7.47E+09	1.05E+10
7440-48-4	Cobalt	Pwd	3.09E+02	8.78E+02	2.49E+03	4.59E+03	7.08E+03	9.90E+03
7440-48-4	Cobalt	S	3.09E+03	8.78E+03	2.49E+04	4.59E+04	7.08E+04	9.90E+04
10210-68-1	Cobalt carbonyl	S	9.28E+03	2.63E+04	7.48E+04	1.38E+05	2.12E+05	2.97E+05
7646-79-9	Cobalt chloride	S	5.41E+03	1.54E+04	4.36E+04	8.03E+04	1.24E+05	1.73E+05
7646-79-9	Cobalt chloride	Pwd	5.41E+02	1.54E+03	4.36E+03	8.03E+03	1.24E+04	1.73E+04
21041-93-0	Cobalt hydroxide	Pwd	1.16E+01	3.29E+01	9.35E+01	1.72E+02	2.65E+02	3.71E+02
10141-05-6	Cobalt nitrate; (Cobalt(II) nitrate)	Pwd	2.32E+03	6.59E+03	1.87E+04	3.44E+04	5.31E+04	7.42E+04
z-0018	Cobalt nitrite	S	1.93E+02	5.49E+02	1.56E+03	2.87E+03	4.42E+03	6.19E+03
1308-06-1	Cobalt oxide	Cry Pwd	7.73E+03	2.20E+04	6.23E+04	1.15E+05	1.77E+05	2.47E+05
1308-06-1	Cobalt oxide	Pwd	7.73E+03	2.20E+04	6.23E+04	1.15E+05	1.77E+05	2.47E+05
1308-06-1	Cobalt oxide	S	7.73E+04	2.20E+05	6.23E+05	1.15E+06	1.77E+06	2.47E+06
7440-48-4	Cobalt Standard Solution (<1%)	L	2.07E+02	5.87E+02	1.67E+03	3.07E+03	4.73E+03	6.62E+03
14172-90-8	Cobalt tetraphenylporphine	Cry Pwd	3.87E+03	1.10E+04	3.12E+04	5.74E+04	8.84E+04	1.24E+05
1307-96-6	Cobalt(II) oxide	S	1.16E+04	3.29E+04	9.35E+04	1.72E+05	2.65E+05	3.71E+05
1307-96-6	Cobalt(II) oxide	Pwd	1.16E+03	3.29E+03	9.35E+03	1.72E+04	2.65E+04	3.71E+04
62207-76-5	Cobalt, ((2,2'-(1,2-Ethanediylbis (Nitrilomethylidyne)) Bis(6-Fluorophenolato))(2-)-N,N',O,O')-	Pwd	2.32E+02	6.59E+02	1.87E+03	3.44E+03	5.31E+03	7.42E+03
62207-76-5	Cobalt, ((2,2'-(1,2-Ethanediylbis (Nitrilomethylidyne)) Bis(6-Fluorophenolato))(2-)-N,N',O,O')-	S	2.32E+03	6.59E+03	1.87E+04	3.44E+04	5.31E+04	7.42E+04
7789-43-7	Cobaltous bromide; (Cobalt[II] bromide)	S	2.32E+04	6.59E+04	1.87E+05	3.44E+05	5.31E+05	7.42E+05
7789-43-7	Cobaltous bromide; (Cobalt[II] bromide)	Cry Pwd	2.32E+03	6.59E+03	1.87E+04	3.44E+04	5.31E+04	7.42E+04
513-79-1	Cobaltous carbonate	Pwd	3.87E+03	1.10E+04	3.12E+04	5.74E+04	8.84E+04	1.24E+05
513-79-1	Cobaltous carbonate	S	3.87E+04	1.10E+05	3.12E+05	5.74E+05	8.84E+05	1.24E+06
64-86-8	Colchicine	S	1.39E+02	3.95E+02	1.12E+03	2.06E+03	3.18E+03	4.45E+03
64-86-8	Colchicine	Pwd	1.39E+01	3.95E+01	1.12E+02	2.06E+02	3.18E+02	4.45E+02
7440-50-8	Copper	Pwd	1.55E+03	4.39E+03	1.25E+04	2.29E+04	3.54E+04	4.95E+04
7440-50-8	Copper	S	1.55E+04	4.39E+04	1.25E+05	2.29E+05	3.54E+05	4.95E+05
544-92-3	Copper cyanide	S	3.87E+03	1.10E+04	3.12E+04	5.74E+04	8.84E+04	1.24E+05
20427-59-2	Copper hydroxide, Insoluble	Pwd	6.19E+03	1.76E+04	4.99E+04	9.18E+04	1.42E+05	1.98E+05
3251-23-8	Copper nitrate; (Cupric nitrate)	S	4.64E+04	1.32E+05	3.74E+05	6.88E+05	1.06E+06	1.48E+06
3251-23-8	Copper nitrate; (Cupric nitrate)	Pwd	4.64E+03	1.32E+04	3.74E+04	6.88E+04	1.06E+05	1.48E+05
3251-23-8	Copper nitrate; (Cupric nitrate) <20%	L	4.56E+03	1.29E+04	3.67E+04	6.76E+04	1.04E+05	1.46E+05
1317-39-1	Copper oxide	Pwd	1.55E+03	4.39E+03	1.25E+04	2.29E+04	3.54E+04	4.95E+04
1317-39-1	Copper oxide	S	1.55E+04	4.39E+04	1.25E+05	2.29E+05	3.54E+05	4.95E+05

7758-98-7	Copper sulfate	S	6.19E+03	1.76E+04	4.99E+04	9.18E+04	1.42E+05	1.98E+05
7758-98-7	Copper sulfate	Pwd	6.19E+02	1.76E+03	4.99E+03	9.18E+03	1.42E+04	1.98E+04
7758-98-7	Copper Sulfate; Cupric Sulfate (<8%)	L	1.14E+03	3.23E+03	9.16E+03	1.69E+04	2.60E+04	3.64E+04
7758-89-6	Copper(I) chloride; (Cuprous chloride)	Cry Pwd	9.28E+02	2.63E+03	7.48E+03	1.38E+04	2.12E+04	2.97E+04
7758-89-6	Copper(I) chloride; (Cuprous chloride)	Pwd	9.28E+02	2.63E+03	7.48E+03	1.38E+04	2.12E+04	2.97E+04
7447-39-4	Copper(II) chloride (1:2); (Cupric chloride)	Cry Pwd	1.55E+02	4.39E+02	1.25E+03	2.29E+03	3.54E+03	4.95E+03
7447-39-4	Copper(II) chloride (1:2); (Cupric chloride) (<14%)	L	3.15E+02	8.94E+02	2.54E+03	4.67E+03	7.20E+03	1.01E+04
7758-99-8	Copper(II) sulfate pentahydrate	Pwd	3.09E+03	8.78E+03	2.49E+04	4.59E+04	7.08E+04	9.90E+04
7758-99-8	Copper(II) sulfate pentahydrate	S	3.09E+04	8.78E+04	2.49E+05	4.59E+05	7.08E+05	9.90E+05
7758-99-8	Copper(II) sulfate pentahydrate [copper std sol]	L	6.63E+03	1.88E+04	5.34E+04	9.83E+04	1.52E+05	2.12E+05
56-72-4	Coumaphos	S	1.93E+04	5.49E+04	1.56E+05	2.87E+05	4.42E+05	6.19E+05
56-72-4	Coumaphos	Pwd	1.93E+03	5.49E+03	1.56E+04	2.87E+04	4.42E+04	6.19E+04
5836-29-3	Coumatetralyl; (Endrocide)	Pwd	2.55E+02	7.25E+02	2.06E+03	3.79E+03	5.84E+03	8.17E+03
5836-29-3	Coumatetralyl; (Endrocide)	S	2.55E+03	7.25E+03	2.06E+04	3.79E+04	5.84E+04	8.17E+04
8001-58-9	Creosote (coal tar)	L	7.32E+02	2.08E+03	5.90E+03	1.09E+04	1.67E+04	2.34E+04
1319-77-3	Cresols	L	2.24E+06	6.35E+06	1.80E+07	3.32E+07	5.12E+07	7.16E+07
535-89-7	Crimidine; (Castrix)	S	1.86E+02	5.27E+02	1.50E+03	2.75E+03	4.25E+03	5.94E+03
535-89-7	Crimidine; (Castrix)	Pwd	1.86E+01	5.27E+01	1.50E+02	2.75E+02	4.25E+02	5.94E+02
14464-46-1	Cristobalite	Pwd	3.87E+02	1.10E+03	3.12E+03	5.74E+03	8.84E+03	1.24E+04
14464-46-1	Cristobalite	S	3.87E+03	1.10E+04	3.12E+04	5.74E+04	8.84E+04	1.24E+05
12001-28-4	Crocidolite	S	3.87E+04	1.10E+05	3.12E+05	5.74E+05	8.84E+05	1.24E+06
4170-30-3	Crotonaldehyde	L	6.81E+02	1.93E+03	5.49E+03	1.01E+04	1.56E+04	2.00E+04
123-73-9	Crotonaldehyde, (E)-	L	4.35E+02	1.23E+03	3.50E+03	6.45E+03	9.94E+03	1.39E+04
3724-65-0	Crotonic Acid	Cry Pwd	6.19E+03	1.76E+04	4.99E+04	9.18E+04	1.42E+05	1.98E+05
80-15-9	Cumene hydroperoxide; (Isopropylbenzene hydroperoxide)	L	4.44E+03	5.00E+03	5.00E+03	5.00E+03	5.00E+03	5.00E+03
98-82-8	Cumene; (Isopropyl benzene)	L	2.98E+04	8.46E+04	2.40E+05	4.42E+05	6.82E+05	9.54E+05
64-00-6	Cumenol methylcarbamate, m-; (Phenol, 3-[1-methylethyl]-, methylcarbamate)	S	2.48E+03	7.03E+03	1.99E+04	3.67E+04	5.66E+04	7.92E+04
64-00-6	Cumenol methylcarbamate, m-; (Phenol, 3-[1-methylethyl]-, methylcarbamate)	Pwd	2.48E+02	7.03E+02	1.99E+03	3.67E+03	5.66E+03	7.92E+03
135-20-6	Cupferron; (Ammonium-n-nitrosophenylhydroxylamine)	Pwd	1.16E+03	3.29E+03	9.35E+03	1.72E+04	2.65E+04	3.71E+04
135-20-6	Cupferron; (Ammonium-n-nitrosophenylhydroxylamine)	Cry Pwd	1.16E+03	3.29E+03	9.35E+03	1.72E+04	2.65E+04	3.71E+04
135-20-6	Cupferron; (Ammonium-n-nitrosophenylhydroxylamine)	S	1.16E+04	3.29E+04	9.35E+04	1.72E+05	2.65E+05	3.71E+05
142-71-2	Cupric acetate, anhydrous; (Copper acetate)	Cry Pwd	3.09E+03	8.78E+03	2.49E+04	4.59E+04	7.08E+04	9.90E+04
142-71-2	Cupric acetate, anhydrous; (Copper acetate)	Pwd	3.09E+03	8.78E+03	2.49E+04	4.59E+04	7.08E+04	9.90E+04
19004-19-4	Cupric nitrate hemipentahydrate (as Cu)	S	5.41E+04	1.54E+05	4.36E+05	8.03E+05	1.24E+06	1.73E+06
14984-71-5	Cupric nitrite	S	9.28E+03	2.63E+04	7.48E+04	1.38E+05	2.12E+05	2.97E+05

1317-38-0	Cupric oxide	Pwd	1.93E+03	5.49E+03	1.56E+04	2.87E+04	4.42E+04	6.19E+04
1317-38-0	Cupric oxide	S	1.93E+04	5.49E+04	1.56E+05	2.87E+05	4.42E+05	6.19E+05
420-04-2	Cyanamide	L	6.90E+02	1.96E+03	5.56E+03	1.02E+04	1.58E+04	2.21E+04
420-04-2	Cyanamide	S	5.41E+03	1.54E+04	4.36E+04	8.03E+04	1.24E+05	1.73E+05
57-12-5	Cyanide (and cyanides)	Pwd	3.87E+02	1.10E+03	3.12E+03	5.74E+03	8.84E+03	1.24E+04
57-12-5	Cyanide (and cyanides)	S	3.87E+03	1.10E+04	3.12E+04	5.74E+04	8.84E+04	1.24E+05
57-12-5	Cyanide Solution <5%	L	3.97E+02	1.13E+03	3.20E+03	5.89E+03	9.08E+03	1.27E+04
107-91-5	Cyanoacetamide	Pwd	7.73E+03	2.20E+04	6.23E+04	1.15E+05	1.77E+05	2.47E+05
107-91-5	Cyanoacetamide	S	7.73E+04	2.20E+05	6.23E+05	1.15E+06	1.77E+06	2.47E+06
460-19-5	Cyanogen	G	4.94E+00	1.40E+01	3.98E+01	3.98E+01	1.13E+02	1.58E+02
506-68-3	Cyanogen bromide	L	2.45E+02	6.96E+02	1.98E+03	3.64E+03	5.61E+03	7.85E+03
506-68-3	Cyanogen bromide	Pwd	6.81E+02	1.93E+03	5.48E+03	1.01E+04	1.56E+04	2.18E+04
506-68-3	Cyanogen bromide	S	6.81E+03	1.93E+04	5.48E+04	1.01E+05	1.56E+05	2.18E+05
506-77-4	Cyanogen chloride	L	1.38E+00	3.93E+00	1.11E+01	1.11E+01	3.16E+01	4.43E+01
506-77-4	Cyanogen chloride	G	1.55E+00	4.41E+00	1.25E+01	1.25E+01	3.56E+01	4.97E+01
506-78-5	Cyanogen iodide	Pwd	2.78E+03	7.90E+03	2.24E+04	4.13E+04	6.37E+04	8.91E+04
506-78-5	Cyanogen iodide	S	2.78E+04	7.90E+04	2.24E+05	4.13E+05	6.37E+05	8.91E+05
2636-26-2	Cyanophos	L	1.78E+07	5.05E+07	1.43E+08	2.64E+08	4.07E+08	5.69E+08
675-14-9	Cyanuric fluoride; (2,4,6-Trifluoro-s-triazine)	L	1.00E+02	1.00E+02	1.00E+02	1.00E+02	1.00E+02	1.00E+02
110-82-7	Cyclohexane	L	3.91E+03	1.11E+04	3.15E+04	5.80E+04	8.94E+04	1.25E+05
108-93-0	Cyclohexanol	L	1.28E+05	3.64E+05	1.03E+06	1.90E+06	2.93E+06	4.10E+06
108-94-1	Cyclohexanone; (Ketohexamethylene)	L	2.38E+04	6.76E+04	1.92E+05	3.53E+05	5.44E+05	7.62E+05
74051-80-2	Cyclohexen-1-one..., 2- ; (Sethoxydim; Checkmate)	L	1.77E+12	5.03E+12	1.43E+13	2.63E+13	4.05E+13	5.67E+13
110-83-8	Cyclohexene	L	8.00E+03	2.27E+04	6.44E+04	1.19E+05	1.83E+05	2.56E+05
66-81-9	Cycloheximide	Pwd	3.09E+01	8.78E+01	2.49E+02	4.59E+02	7.08E+02	9.90E+02
66-81-9	Cycloheximide	S	3.09E+02	8.78E+02	2.49E+03	4.59E+03	7.08E+03	9.90E+03
108-91-8	Cyclohexylamine	L	5.94E+03	1.50E+04	1.50E+04	1.50E+04	1.50E+04	1.50E+04
111-78-4	Cyclooctadiene, 1,5-	L	4.59E+05	1.30E+06	3.70E+06	6.81E+06	1.05E+07	1.47E+07
629-20-9	Cyclooctatetraene, 1,3,5,7-	L	2.04E+07	5.78E+07	1.64E+08	3.02E+08	4.66E+08	6.52E+08
287-92-3	Cyclopentane	L	1.38E+04	3.92E+04	1.11E+05	2.05E+05	3.16E+05	4.42E+05
75-19-4	Cyclopropane	G	1.60E+04	4.53E+04	1.29E+05	2.37E+05	3.65E+05	5.11E+05
2691-41-0	CYCLOTETRAMETHYLENETETRANITRAMINE	S	7.73E+04	2.20E+05	6.23E+05	1.15E+06	1.77E+06	2.47E+06
2691-41-0	CYCLOTETRAMETHYLENETETRANITRAMINE	Pwd	7.73E+03	2.20E+04	6.23E+04	1.15E+05	1.77E+05	2.47E+05
z-0020	Cyclotol; (RDX-TNT mixture)	S	3.87E+04	1.10E+05	3.12E+05	5.74E+05	8.84E+05	1.24E+06
121-82-4	Cyclotrinitraminemethylene; (RDX or Cyclonite)	S	6.19E+03	1.76E+04	4.99E+04	9.18E+04	1.42E+05	1.98E+05
72-54-8	DDD (1,1-bis(4-Chlorophenyl)-2,2-dichloroethane)	S	7.73E+03	2.20E+04	6.23E+04	1.15E+05	1.77E+05	2.47E+05
72-54-8	DDD (1,1-bis(4-Chlorophenyl)-2,2-dichloroethane)	Pwd	7.73E+02	2.20E+03	6.23E+03	1.15E+04	1.77E+04	2.47E+04
72-55-9	DDE (2.2-bis(p-Chlorophenyl)-1,1-dichloroethylene)	L	2.45E+03	6.96E+03	1.98E+04	3.64E+04	5.61E+04	7.84E+04

72-55-9	DDE (2.2-bis(p-Chlorophenyl)-1,1-dichloroethylene)	S	6.19E+04	1.76E+05	4.99E+05	9.18E+05	1.42E+06	1.98E+06
50-29-3	DDT (Dichlorodiphenyltrichloroethane)	S	7.73E+04	2.20E+05	6.23E+05	1.15E+06	1.77E+06	2.47E+06
50-29-3	DDT (Dichlorodiphenyltrichloroethane)	Pwd	7.73E+03	2.20E+04	6.23E+04	1.15E+05	1.77E+05	2.47E+05
62610-50-8	DEAE SEPHAROSE CL-6B	L	4.99E+03	1.42E+04	4.02E+04	7.40E+04	1.14E+05	1.60E+05
17702-41-9	Decaborane	S	2.32E+03	6.59E+03	1.87E+04	3.44E+04	5.31E+04	7.42E+04
17702-41-9	Decaborane	Pwd	2.32E+02	6.59E+02	1.87E+03	3.44E+03	5.31E+03	7.42E+03
493-02-7	Decahydronaphthalene, cis-; (Decalin)	L	1.12E+04	3.17E+04	9.01E+04	1.66E+05	2.56E+05	3.58E+05
91-17-8	Decahydronaphthalene, trans-; (Decalin; cis- and trans-)	L	2.78E+03	7.88E+03	2.24E+04	4.12E+04	6.35E+04	8.89E+04
112-31-2	Decanal	L	8.02E+05	2.28E+06	6.46E+06	1.19E+07	1.83E+07	2.57E+07
124-18-5	Decane	L	1.37E+06	3.88E+06	1.10E+07	2.03E+07	3.13E+07	4.38E+07
68037-01-4	Decene, 1-, homopolymer, hydrogenated	L	7.93E+04	2.25E+05	6.39E+05	1.18E+06	1.81E+06	2.54E+06
112-30-1	Decyl alcohol; (1-Decanol)	L	1.63E+05	4.64E+05	1.32E+06	2.42E+06	3.73E+06	5.23E+06
8065-48-3	Demeton	L	2.65E+07	7.53E+07	2.14E+08	3.93E+08	6.06E+08	8.48E+08
919-86-8	Demeton-s-methyl	L	3.59E+08	1.02E+09	2.89E+09	5.33E+09	8.22E+09	1.15E+10
7789-20-0	Deuterium oxide; (Heavy water)	L	2.19E+06	6.22E+06	1.77E+07	3.25E+07	5.01E+07	7.02E+07
7782-39-0	Deuturium	G	1.27E+03	3.62E+03	1.03E+04	1.89E+04	2.91E+04	4.08E+04
Mixture	Developer Replenisher PART C (Kodak Industrex)	L	4.23E+03	1.20E+04	3.41E+04	6.28E+04	9.68E+04	1.35E+05
9004-54-0	Dextran	L	6.77E+04	1.92E+05	5.45E+05	1.00E+06	1.55E+06	2.17E+06
9004-54-0	Dextran	S	7.73E+04	2.20E+05	6.23E+05	1.15E+06	1.77E+06	2.47E+06
103-23-1	Di-2-ethylhexyl adipate	L	1.50E+05	4.26E+05	1.21E+06	2.23E+06	3.44E+06	4.81E+06
628-68-2	Diacetate-1,1'-oxybis-ethanol; (Diethylene glycol diacetate)	S	7.73E+04	2.20E+05	6.23E+05	1.15E+06	1.77E+06	2.47E+06
110-22-5	Diacetyl peroxide; (Acetyl peroxide)	L	5.00E+03	5.00E+03	5.00E+03	5.00E+03	5.00E+03	5.00E+03
110-22-5	Diacetyl peroxide; (Acetyl peroxide)	Pwd	7.73E+02	2.20E+03	5.00E+03	5.00E+03	5.00E+03	5.00E+03
10311-84-9	Dialifor	S	7.73E+02	2.20E+03	6.23E+03	1.15E+04	1.77E+04	2.47E+04
10311-84-9	Dialifor	Pwd	7.73E+01	2.20E+02	6.23E+02	1.15E+03	1.77E+03	2.47E+03
131-17-9	Diallyl phthalate	L	9.22E+04	2.62E+05	7.43E+05	1.37E+06	2.11E+06	2.95E+06
26062-79-3	Diallylmethylammonium chloride polymer	L	1.18E+04	3.36E+04	9.53E+04	1.75E+05	2.70E+05	3.78E+05
101-80-4	Diaminodiphenyl ether, 4,4'-; (4,4'-Oxydianiline)	L	2.46E+04	6.99E+04	1.98E+05	3.65E+05	5.63E+05	7.88E+05
101-80-4	Diaminodiphenyl ether, 4,4'-; (4,4'-Oxydianiline)	S	4.64E+04	1.32E+05	3.74E+05	6.88E+05	1.06E+06	1.48E+06
101-80-4	Diaminodiphenyl ether, 4,4'-; (4,4'-Oxydianiline)	Cry Pwd	4.64E+03	1.32E+04	3.74E+04	6.88E+04	1.06E+05	1.48E+05
101-80-4	Diaminodiphenyl ether, 4,4'-; (4,4'-Oxydianiline)	Pwd	4.64E+03	1.32E+04	3.74E+04	6.88E+04	1.06E+05	1.48E+05
80-08-0	Diaminodiphenylsulfone	L	1.09E+04	3.09E+04	8.76E+04	1.61E+05	2.49E+05	3.48E+05
506-87-6	Diammonium carbonate	S	1.16E+04	3.29E+04	9.35E+04	1.72E+05	2.65E+05	3.71E+05
20325-40-0	Dianisidine dihydrochloride, o-; (3,3'-Dimethoxybenzidine dihydrochloride)	S	1.16E+03	3.29E+03	9.35E+03	1.72E+04	2.65E+04	3.71E+04
68855-54-9	Diatamaceous Silica (filter Aid)	S	7.73E+03	2.20E+04	6.23E+04	1.15E+05	1.77E+05	2.47E+05
334-88-3	Diazomethane	G	5.32E-01	1.51E+00	4.28E+00	4.28E+00	1.22E+01	1.70E+01
53-70-3	Dibenza(a,h)anthracene	S	7.73E+03	2.20E+04	6.23E+04	1.15E+05	1.77E+05	2.47E+05
53-70-3	Dibenza(a,h)anthracene	Cry Pwd	7.73E+02	2.20E+03	6.23E+03	1.15E+04	1.77E+04	2.47E+04

192-65-4	Dibenzo(a,e)pyrene; (Naphtho(1,2,3,4-def)chrysene)	S	5.41E+02	1.54E+03	4.36E+03	8.03E+03	1.24E+04	1.73E+04
132-64-9	Dibenzofuran	Cry Pwd	3.87E+03	1.10E+04	3.12E+04	5.74E+04	8.84E+04	1.24E+05
132-64-9	Dibenzofuran	S	3.87E+04	1.10E+05	3.12E+05	5.74E+05	8.84E+05	1.24E+06
262-12-4	Dibenzo-p-dioxin	Cry Pwd	7.73E+03	2.20E+04	6.23E+04	1.15E+05	1.77E+05	2.47E+05
19287-45-7	Diborane	G	5.25E-01	1.49E+00	4.23E+00	4.23E+00	1.20E+01	1.68E+01
96-12-8	Dibromo-3-chloropropane, 1,2-; (DBCP)	L	1.73E+04	4.92E+04	1.40E+05	2.57E+05	3.96E+05	5.55E+05
99-28-5	Dibromo-4-nitrophenol, 2,6-	Cry Pwd	7.51E+02	2.13E+03	6.05E+03	1.11E+04	1.72E+04	2.40E+04
124-48-1	Dibromochloromethane; (Chlorodibromomethane)	L	3.33E+03	9.45E+03	2.68E+04	4.94E+04	7.62E+04	1.07E+05
74-95-3	Dibromomethane	L	1.48E+04	4.20E+04	1.19E+05	2.19E+05	3.38E+05	4.73E+05
74-95-3	Dibromomethane (methylene bromide)	L	1.50E+04	4.26E+04	1.21E+05	2.22E+05	3.43E+05	4.80E+05
608-33-3	Dibromophenol, 2,6-	Cry Pwd	3.87E+01	1.10E+02	3.12E+02	5.74E+02	8.84E+02	1.24E+03
608-33-3	Dibromophenol, 2,6-	S	3.87E+02	1.10E+03	3.12E+03	5.74E+03	8.84E+03	1.24E+04
109-64-8	Dibromopropane, 1,3-	L	8.56E+04	2.43E+05	6.89E+05	1.27E+06	1.96E+06	2.74E+06
124-73-2	Dibromotetrafluoroethane; (Halon 2402)	L	6.70E+04	1.90E+05	5.39E+05	9.93E+05	1.53E+06	2.14E+06
z-0021	Dibutyl (2-ethylhexyl)phosphate	S	1.43E+03	4.05E+03	1.15E+04	2.12E+04	3.26E+04	4.57E+04
78-46-6	Dibutyl butylphosphonate	L	1.25E+02	3.56E+02	1.01E+03	1.86E+03	2.87E+03	4.01E+03
110-05-4	Dibutyl peroxide, tert-	L	4.99E+03	5.00E+03	5.00E+03	5.00E+03	5.00E+03	5.00E+03
107-66-4	Dibutyl phosphate; (TBP)	L	1.43E+04	4.05E+04	1.15E+05	2.11E+05	3.26E+05	4.56E+05
1809-19-4	Dibutyl phosphite	L	2.61E+05	7.40E+05	2.10E+06	3.87E+06	5.96E+06	8.34E+06
84-74-2	Dibutyl phthalate	L	3.57E+05	1.01E+06	2.88E+06	5.30E+06	8.17E+06	1.14E+07
4835-11-4	Dibutylhexamethylenediamine, N,N'-	L	6.62E+03	1.88E+04	5.34E+04	9.82E+04	1.51E+05	2.12E+05
99-30-9	Dichloran; (2,6-Dichloro-4-nitroaniline; Resisan)	Cry Pwd	7.73E+03	2.20E+04	6.23E+04	1.15E+05	1.77E+05	2.47E+05
99-30-9	Dichloran; (2,6-Dichloro-4-nitroaniline; Resisan)	Pwd	7.73E+03	2.20E+04	6.23E+04	1.15E+05	1.77E+05	2.47E+05
58270-08-9	Dichloro(4,4-dimethylzinc -5((((methylamino)carbonyl) oxy)imino)pentanenitrile), (trans-4)-; (Ethienocarb)	S	1.39E+03	3.95E+03	1.12E+04	2.06E+04	3.18E+04	4.45E+04
58270-08-9	Dichloro(4,4-dimethylzinc -5((((methylamino)carbonyl) oxy)imino)pentanenitrile), (trans-4)-; (Ethienocarb)	Pwd	1.39E+02	3.95E+02	1.12E+03	2.06E+03	3.18E+03	4.45E+03
1717-00-6	Dichloro-1-fluoroethane, 1,1-; (HCFC-141b; Freon 141)	L	5.40E+04	1.53E+05	4.35E+05	8.00E+05	1.23E+06	1.73E+06
1717-00-6	Dichloro-1-fluoroethane, 1,1-; (HCFC-141b; Freon 141)	G	2.59E+04	7.35E+04	2.09E+05	3.84E+05	5.92E+05	8.28E+05
764-41-0	Dichloro-2-butene 1,4-	L	1.83E+04	5.18E+04	1.47E+05	2.71E+05	4.17E+05	5.84E+05
3615-21-2	Dichloro-2-trifluoromethylbenzimidazole, 4,5-; (Chloroflurazole)	S	2.01E+03	5.71E+03	1.62E+04	2.98E+04	4.60E+04	6.43E+04
3615-21-2	Dichloro-2-trifluoromethylbenzimidazole, 4,5-; (Chloroflurazole)	Pwd	2.01E+02	5.71E+02	1.62E+03	2.98E+03	4.60E+03	6.43E+03
7572-29-4	Dichloroacetylene	L	9.66E+01	2.50E+02	2.50E+02	2.50E+02	2.50E+02	2.50E+02

3400-09-7	Dichloroamine; (Chlorimide)	L	6.67E+02	1.89E+03	5.38E+03	9.90E+03	1.53E+04	2.14E+04
541-73-1	Dichlorobenzene, m-	L	3.60E+04	1.02E+05	2.90E+05	5.35E+05	8.24E+05	1.15E+06
95-50-1	Dichlorobenzene, o-	L	1.00E+05	2.85E+05	8.08E+05	1.49E+06	2.29E+06	3.21E+06
106-46-7	Dichlorobenzene, p-	S	1.39E+05	3.96E+05	1.12E+06	2.07E+06	3.19E+06	4.46E+06
91-94-1	Dichlorobenzidene 3,3'-	S	3.20E+05	9.09E+05	2.58E+06	4.75E+06	7.32E+06	1.02E+07
2108-92-1	Dichlorocyclohexane, 1,1-	Pwd	2.90E+03	8.24E+03	2.34E+04	4.31E+04	6.64E+04	9.29E+04
822-86-6	Dichlorocyclohexane, trans-1,2-	L	1.74E+05	4.95E+05	1.41E+06	2.59E+06	3.99E+06	5.58E+06
75-71-8	Dichlorodifluoromethane; (Freon 12, CFC 12)	G	1.15E+04	3.25E+04	9.24E+04	1.70E+05	2.62E+05	3.67E+05
10140-87-1	Dichloroethanol acetate, 1,2-	L	5.73E+02	1.63E+03	4.61E+03	8.49E+03	1.31E+04	1.83E+04
156-59-2	Dichloroethene, cis-1,2	L	3.18E+03	9.02E+03	2.56E+04	4.71E+04	7.26E+04	1.02E+05
156-60-5	Dichloroethene, trans-1,2; (trans-Acetylene dichloride)	L	6.26E+03	1.78E+04	5.04E+04	9.28E+04	1.43E+05	2.00E+05
111-44-4	Dichloroethyl ether; (Oxybis(2-chloro-ethane), 1-1'-)	L	6.64E+04	1.88E+05	5.35E+05	9.84E+05	1.52E+06	2.12E+06
563-43-9	Dichloroethylaluminum; (example of Alkylaluminums)	L	7.63E+02	2.17E+03	6.15E+03	1.13E+04	1.74E+04	2.44E+04
563-43-9	Dichloroethylaluminum; (example of Alkylaluminums)	S	1.16E+03	3.29E+03	9.35E+03	1.72E+04	2.65E+04	3.71E+04
1331-29-9	Dichloroethylbenzene; (Ethyldichlorobenzene)	L	1.42E+04	4.03E+04	1.14E+05	2.11E+05	3.25E+05	4.54E+05
540-59-0	Dichloroethylene, 1,2-	L	2.28E+03	6.47E+03	1.84E+04	3.38E+04	5.21E+04	7.30E+04
75-43-4	Dichlorofluoromethane; (Freon 21, CFC 21)	G	3.25E+03	9.24E+03	2.62E+04	4.83E+04	7.44E+04	1.04E+05
2162-92-7	Dichlorohexane, 1,2-	L	7.76E+03	2.20E+04	6.25E+04	1.15E+05	1.77E+05	2.48E+05
2163-00-0	Dichlorohexane, 1,6-	L	7.76E+03	2.20E+04	6.25E+04	1.15E+05	1.77E+05	2.48E+05
13275-18-8	Dichlorohexane, 2,5-	L	7.76E+03	2.20E+04	6.25E+04	1.15E+05	1.77E+05	2.48E+05
108-60-1	Dichloroisopropyl ether	L	1.57E+06	4.45E+06	1.26E+07	2.32E+07	3.58E+07	5.01E+07
111-91-1	Dichloromethoxy ethane; (bis(2-Chloroethoxy) methane)	L	3.00E+04	8.51E+04	2.42E+05	4.45E+05	6.86E+05	9.59E+05
542-88-1	Dichloromethyl ether; (bis[Chloromethyl]ether]	L	1.00E+02	1.00E+02	1.00E+02	1.00E+02	1.00E+02	1.00E+02
149-74-6	Dichloromethylphenylsilane	L	9.88E+03	2.81E+04	7.96E+04	1.47E+05	2.26E+05	3.16E+05
676-83-5	Dichloromethylphosphine; (Methylphosphonous dichloride)	L	2.06E+02	5.85E+02	1.66E+03	3.06E+03	4.72E+03	6.60E+03
97-23-4	Dichlorophene	S	7.73E+04	2.20E+05	6.23E+05	1.15E+06	1.77E+06	2.47E+06
97-23-4	Dichlorophene	Pwd	7.73E+03	2.20E+04	6.23E+04	1.15E+05	1.77E+05	2.47E+05
120-83-2	Dichlorophenol, 2,4-	S	3.87E+04	1.10E+05	3.12E+05	5.74E+05	8.84E+05	1.24E+06
87-65-0	Dichlorophenol, 2,6-	S	2.32E+04	6.59E+04	1.87E+05	3.44E+05	5.31E+05	7.42E+05
94-75-7	Dichlorophenoxy acetic acid, 2,4-; (2,4- D salts and esters)	S	1.55E+04	4.39E+04	1.25E+05	2.29E+05	3.54E+05	4.95E+05
94-75-7	Dichlorophenoxy acetic acid, 2,4-; (2,4- D salts and esters)	Cry Pwd	1.55E+03	4.39E+03	1.25E+04	2.29E+04	3.54E+04	4.95E+04
26638-19-7	Dichloropropane	L	3.20E+03	9.09E+03	2.58E+04	4.75E+04	7.32E+04	1.02E+05
78-99-9	Dichloropropane, 1,1-	L	2.57E+03	7.28E+03	2.07E+04	3.81E+04	5.87E+04	8.21E+04
78-87-5	Dichloropropane, 1,2-; (Propylene dichloride)	L	4.18E+03	1.19E+04	3.37E+04	6.21E+04	9.57E+04	1.34E+05

142-28-9	Dichloropropane, 1,3-	L	9.94E+03	2.82E+04	8.01E+04	1.48E+05	2.27E+05	3.18E+05
594-20-7	Dichloropropane, 2,2-	L	3.96E+03	1.12E+04	3.19E+04	5.87E+04	9.05E+04	1.27E+05
563-58-6	Dichloropropene, 1,1-	L	9.72E+02	2.76E+03	7.83E+03	1.44E+04	2.22E+04	3.11E+04
542-75-6	Dichloropropene, 1,3-	L	7.78E+02	2.21E+03	6.27E+03	1.15E+04	1.78E+04	2.49E+04
78-88-6	Dichloropropene, 2,3-	L	4.20E+02	1.19E+03	3.39E+03	6.23E+03	9.61E+03	1.34E+04
6923-20-2	Dichloropropene, cis-1,2-; (Propylene dichloride; 1,2-dichloro-1-propene, [Z]-)	L	3.09E+04	8.78E+04	2.49E+05	4.59E+05	7.07E+05	9.90E+05
563-54-2	Dichloropropene, trans-1,2-; (Propylene dichloride; 1,2-dichloro-1-propene, [E]-)	L	6.27E+03	1.78E+04	5.06E+04	9.31E+04	1.43E+05	2.01E+05
10061-02-6	Dichloropropene, trans-1,3-	L	4.31E+03	1.22E+04	3.47E+04	6.39E+04	9.85E+04	1.38E+05
4109-96-0	Dichlorosilane [227g = lecture bottle]	G	4.79E+01	1.36E+02	3.86E+02	3.86E+02	1.10E+03	1.53E+03
76-14-2	Dichlorotetrafluoroethane; (Freon 114, CFC114)	G	1.62E+04	4.60E+04	1.31E+05	2.40E+05	3.71E+05	5.19E+05
62-73-7	Dichlorovos; (Dichlorvos)	L	5.18E+06	1.47E+07	4.17E+07	7.68E+07	1.18E+08	1.66E+08
141-66-2	Dicrotophos	L	2.54E+08	7.22E+08	2.05E+09	3.77E+09	5.82E+09	8.14E+09
16069-36-6	Dicyclohexano-18-crown-6	L	2.27E+03	6.43E+03	1.83E+04	3.36E+04	5.18E+04	7.25E+04
16069-36-6	Dicyclohexano-18-crown-6	S	1.16E+04	3.29E+04	9.35E+04	1.72E+05	2.65E+05	3.71E+05
77-73-6	Dicyclopentadiene	L	6.13E+02	1.74E+03	4.94E+03	9.09E+03	1.40E+04	1.96E+04
60-57-1	Dieldrin	Pwd	7.73E+02	2.20E+03	6.23E+03	1.15E+04	1.77E+04	2.47E+04
60-57-1	Dieldrin	S	7.73E+03	2.20E+04	6.23E+04	1.15E+05	1.77E+05	2.47E+05
68476-34-6	Diesel fuel marine; (Diesel fuel No. 4)	L	1.93E+07	5.48E+07	1.56E+08	2.86E+08	4.41E+08	6.18E+08
68476-30-2	Diesel fuel marine; (Fuel oil No.2)	L	4.45E+05	1.26E+06	3.58E+06	6.60E+06	1.02E+07	1.42E+07
68334-30-5	Diesel fuels (diesel fuel #1)	L	1.77E+06	5.02E+06	1.43E+07	2.62E+07	4.04E+07	5.66E+07
111-42-2	Diethanolamine	L	3.16E+04	8.97E+04	2.55E+05	4.69E+05	7.22E+05	1.01E+06
111-42-2	Diethanolamine	S	4.64E+04	1.32E+05	3.74E+05	6.88E+05	1.06E+06	1.48E+06
78-62-6	Diethoxydimethylsilane	L	1.62E+04	4.59E+04	1.30E+05	2.40E+05	3.70E+05	5.17E+05
814-49-3	Diethyl chlorophosphate	L	3.98E+04	1.13E+05	3.21E+05	5.91E+05	9.11E+05	1.27E+06
814-49-3	Diethyl chlorophosphate	S	1.24E+03	3.51E+03	9.97E+03	1.84E+04	2.83E+04	3.96E+04
78-38-6	Diethyl ethylphosphonate	L	5.33E+04	1.51E+05	4.30E+05	7.91E+05	1.22E+06	1.71E+06
627-44-1	Diethyl mercury	L	1.63E+02	4.61E+02	1.31E+03	2.41E+03	3.72E+03	5.20E+03
683-08-9	Diethyl methylphosphonate; (DEMP)	L	1.54E+07	4.38E+07	1.24E+08	2.29E+08	3.53E+08	4.94E+08
95-92-1	Diethyl oxalate	L	5.21E+04	1.48E+05	4.20E+05	7.73E+05	1.19E+06	1.67E+06
84-66-2	Diethyl phthalate; (Ethyl phthalate)	L	2.61E+04	7.41E+04	2.10E+05	3.87E+05	5.97E+05	8.36E+05
64-67-5	Diethyl sulfate	L	1.26E+04	3.57E+04	1.01E+05	1.86E+05	2.87E+05	4.02E+05
109-89-7	Diethylamine	L	1.58E+02	4.50E+02	1.28E+03	2.35E+03	3.62E+03	5.07E+03
1620-14-0	Diethylaminoacetone	L	8.83E+02	2.51E+03	7.11E+03	1.31E+04	2.02E+04	2.83E+04
91-66-7	Diethylaniline, n,n-	L	1.38E+05	3.93E+05	1.11E+06	2.05E+06	3.16E+06	4.42E+06
141-93-5	Diethylbenzene, m-	L	4.04E+03	1.15E+04	3.26E+04	6.00E+04	9.24E+04	1.29E+05
135-01-3	Diethylbenzene, o-	L	4.17E+03	1.18E+04	3.36E+04	6.18E+04	9.54E+04	1.33E+05
111-46-6	Diethylene glycol	L	5.54E+05	1.57E+06	4.46E+06	8.21E+06	1.27E+07	1.77E+07
4246-51-9	Diethylene glycol di(3-aminopropyl) ether; (Polyglycol diamine)	L	2.25E+05	6.38E+05	1.81E+06	3.33E+06	5.14E+06	7.19E+06

111-96-6	Diethylene glycol dimethyl ethyl; (Bis(2-methoxy ethyl)ether)	L	8.29E+04	2.35E+05	6.68E+05	1.23E+06	1.90E+06	2.65E+06
123-91-1	Diethyleneoxide, 1,4-; (1,4-Dioxane)	L	5.89E+03	1.67E+04	4.74E+04	8.73E+04	1.35E+05	1.88E+05
111-40-0	Diethylenetriamine	L	1.49E+05	4.22E+05	1.20E+06	2.20E+06	3.40E+06	4.75E+06
67-43-6	Diethylenetriaminepentaacetic acid	Cry Pwd	3.09E+03	8.78E+03	2.49E+04	4.59E+04	7.08E+04	9.90E+04
56-53-1	Diethylstilbestrol; (Phenol,4,4¢-(1,2-diethyl-1,2-ethenediyl) bis-,(E))	Cry Pwd	2.32E+02	6.59E+02	1.87E+03	3.44E+03	5.31E+03	7.42E+03
56-53-1	Diethylstilbestrol; (Phenol,4,4¢-(1,2-diethyl-1,2-ethenediyl) bis-,(E))	Pwd	2.32E+02	6.59E+02	1.87E+03	3.44E+03	5.31E+03	7.42E+03
105-55-5	Diethylthiourea, n,n'-	S	1.93E+04	5.49E+04	1.56E+05	2.87E+05	4.42E+05	6.19E+05
623-76-7	Diethylurea, 1,3-	Pwd	4.41E+04	1.25E+05	3.55E+05	6.54E+05	1.01E+06	1.41E+06
557-20-0	Diethylzinc [cyl = 100g]	L	2.13E+02	6.04E+02	1.72E+03	1.72E+03	4.87E+03	6.81E+03
75-37-6	Difluoroethane; (1,1-Difluoroethane)	L	4.95E+03	1.40E+04	3.98E+04	7.34E+04	1.13E+05	1.58E+05
75-37-6	Difluoroethane; (1,1-Difluoroethane) [152A]	G	3.13E+04	8.89E+04	2.52E+05	4.65E+05	7.16E+05	1.00E+06
71-63-6	Digitoxin	Pwd	3.87E+00	1.10E+01	3.12E+01	5.74E+01	8.84E+01	1.24E+02
71-63-6	Digitoxin	S	3.87E+01	1.10E+02	3.12E+02	5.74E+02	8.84E+02	1.24E+03
2238-07-5	Diglycidyl Ether	L	4.69E+04	1.33E+05	3.78E+05	6.95E+05	1.07E+06	1.50E+06
112-15-2	Diglycol monoethyl ether acetate; (Carbitol acetate)	L	4.12E+06	1.17E+07	3.32E+07	6.11E+07	9.42E+07	1.32E+08
20830-75-5	Digoxin	Pwd	7.73E+01	2.20E+02	6.23E+02	1.15E+03	1.77E+03	2.47E+03
20830-75-5	Digoxin	S	7.73E+02	2.20E+03	6.23E+03	1.15E+04	1.77E+04	2.47E+04
7369-66-6	Dihexyl-N,N-diethylcarbamoyl Methyl Phosphonate	S	6.19E+04	1.76E+05	4.99E+05	9.18E+05	1.42E+06	1.98E+06
96-48-0	Dihydro 2(3H)furanone; (4-Butanolide)	L	2.30E+05	6.54E+05	1.86E+06	3.42E+06	5.27E+06	7.37E+06
34314-83-5	Dihydro-4-methyl furan, 2,3-	L	1.57E+04	4.45E+04	1.26E+05	2.33E+05	3.59E+05	5.02E+05
16941-12-1	Dihydrogen hexachloroplatinum (IV); (Chloroplatanic acid)	S	1.16E+03	3.29E+03	9.35E+03	1.72E+04	2.65E+04	3.71E+04
16941-12-1	Dihydrogen hexachloroplatinum (IV); (Chloroplatanic acid) <8% solution	L	3.06E+02	8.69E+02	2.47E+03	4.54E+03	7.01E+03	9.80E+03
117-10-2	Dihydroxyanthraquinone, 1,8-	Cry Pwd	3.09E+03	8.78E+03	2.49E+04	4.59E+04	7.08E+04	9.90E+04
117-10-2	Dihydroxyanthraquinone, 1,8-	S	3.09E+04	8.78E+04	2.49E+05	4.59E+05	7.08E+05	9.90E+05
75-11-6	Diiodomethane; (Methylene iodide)	L	4.64E+04	1.32E+05	3.74E+05	6.88E+05	1.06E+06	1.49E+06
108-83-8	Diisobutyl ketone	L	3.62E+04	1.03E+05	2.92E+05	5.37E+05	8.28E+05	1.16E+06
110-96-3	Diisobutylamine	L	7.70E+02	2.18E+03	6.20E+03	1.14E+04	1.76E+04	2.46E+04
58264-04-3	Diisopropyl methylphosphonate	L	9.02E+03	2.56E+04	7.26E+04	1.34E+05	2.06E+05	2.88E+05
1445-75-6	Diisopropyl methylphosphonate	L	5.20E+05	1.47E+06	4.19E+06	7.71E+06	1.19E+07	1.66E+07
105-64-6	Diisopropyl peroxydicabonate	S	7.50E+03	7.50E+03	7.50E+03	7.50E+03	7.50E+03	7.50E+03
108-18-9	Diisopropylamine	L	8.49E+02	2.41E+03	6.84E+03	1.26E+04	1.94E+04	2.72E+04
4261-68-1	Diisopropylamino ethylchloride hydrogen chloride	S	1.93E+02	5.49E+02	1.56E+03	2.87E+03	4.42E+03	6.19E+03
96-80-0	Di-isopropylaminoethanol, 2-; (N,N-Diisopropylehanolamine)	L	1.02E+06	2.88E+06	8.18E+06	1.51E+07	2.32E+07	3.25E+07

55-91-4	Diisopropylfluorophosphate; (Phosphorofluoridic acid,bis(1-methylethyl) ester)	L	2.79E+03	7.93E+03	2.25E+04	4.14E+04	6.39E+04	8.94E+04
38640-62-9	Diisopropylnaphthalene; (Bis(isopropyl)naphthalene)	L	2.27E+05	6.44E+05	1.83E+06	3.36E+06	5.19E+06	7.26E+06
38640-62-9	Diisopropylnaphthalene; (Bis(isopropyl)naphthalene)	S	7.73E+04	2.20E+05	6.23E+05	1.15E+06	1.77E+06	2.47E+06
38640-62-9	Diisopropylnaphthalene; (Bis(isopropyl)naphthalene)	Pwd	7.73E+03	2.20E+04	6.23E+04	1.15E+05	1.77E+05	2.47E+05
674-82-8	Diketene; (Ketene dimer)	L	7.09E+02	2.01E+03	5.71E+03	1.05E+04	1.62E+04	2.27E+04
105-74-8	Dilauroyl peroxide, LAUROYL PEROXIDE	S	3.09E+02	8.78E+02	2.49E+03	2.49E+03	7.08E+03	7.50E+03
105-74-8	Dilauroyl peroxide, LAUROYL PEROXIDE	Pwd	3.09E+01	8.78E+01	2.49E+02	2.49E+02	7.08E+02	9.90E+02
115-26-4	Dimefox; (bis(Dimethylamido)fluoro phosphate)); (Phosphorodithioate)	L	3.95E+03	1.12E+04	3.18E+04	5.86E+04	9.03E+04	1.26E+05
309-00-2	Dimethanonaphthalene1,4,5,8-; (Aldrin)	Pwd	3.87E+02	1.10E+03	3.12E+03	5.74E+03	8.84E+03	1.24E+04
309-00-2	Dimethanonaphthalene1,4,5,8-; (Aldrin)	S	3.87E+03	1.10E+04	3.12E+04	5.74E+04	8.84E+04	1.24E+05
60-51-5	Dimethoate	S	4.64E+03	1.32E+04	3.74E+04	6.88E+04	1.06E+05	1.48E+05
60-51-5	Dimethoate	Pwd	4.64E+02	1.32E+03	3.74E+03	6.88E+03	1.06E+04	1.48E+04
119-90-4	Dimethoxybenzidene 3,3'-; (o-Dianisidine)	S	7.73E+04	2.20E+05	6.23E+05	1.15E+06	1.77E+06	2.47E+06
10143-66-5	Dimethoxybutane, 1,3-	L	1.55E+04	4.39E+04	1.25E+05	2.29E+05	3.54E+05	4.95E+05
3453-99-4	Dimethoxybutane, 2,2-	L	1.55E+04	4.39E+04	1.25E+05	2.29E+05	3.54E+05	4.95E+05
110-71-4	Dimethoxyethane	L	4.71E+03	1.34E+04	3.80E+04	6.99E+04	1.08E+05	1.51E+05
95-45-4	Dimethyglyoxime; (Diacetyl dioxime)	S	3.09E+04	8.78E+04	2.49E+05	4.59E+05	7.08E+05	9.90E+05
95-45-4	Dimethyglyoxime; (Diacetyl dioxime)	Pwd	3.09E+03	8.78E+03	2.49E+04	4.59E+04	7.08E+04	9.90E+04
127-19-5	Dimethyl acetiminde, n,n-	L	7.14E+04	2.03E+05	5.75E+05	1.06E+06	1.63E+06	2.28E+06
75-83-2	Dimethyl butane, 2,2-; NEOHEXANE	L	1.89E+03	5.35E+03	1.52E+04	2.80E+04	4.31E+04	6.03E+04
79-44-7	Dimethyl carbamoyl chloride	L	2.37E+04	6.73E+04	1.91E+05	3.52E+05	5.43E+05	7.59E+05
624-92-0	Dimethyl disulfide	L	3.17E+03	8.99E+03	2.55E+04	4.70E+04	7.24E+04	1.01E+05
868-85-9	Dimethyl hydrogen phosphite	L	2.13E+05	6.04E+05	1.71E+06	3.15E+06	4.86E+06	6.80E+06
593-74-8	Dimethyl mercury	L	5.88E+01	1.67E+02	4.73E+02	8.72E+02	1.34E+03	1.88E+03
756-79-6	Dimethyl methylphosphonate; (DMMP)	L	1.78E+05	5.06E+05	1.44E+06	2.64E+06	4.08E+06	5.70E+06
2524-03-0	Dimethyl phosphorochloridothioate	L	2.10E+04	5.97E+04	1.69E+05	3.12E+05	4.81E+05	6.73E+05
63148-62-9	Dimethyl siloxane; (Syltherm; Silicone 360)	L	2.30E+04	6.53E+04	1.85E+05	3.41E+05	5.26E+05	7.36E+05
77-78-1	Dimethyl sulfate	L	6.80E+03	1.93E+04	5.48E+04	1.01E+05	1.55E+05	2.18E+05
75-18-3	Dimethyl sulfide; (2-Thiopropane)	L	1.21E+03	3.44E+03	9.78E+03	1.80E+04	2.77E+04	3.88E+04
67-68-5	Dimethyl sulfoxide; (DMSO)	L	4.07E+05	1.16E+06	3.28E+06	6.04E+06	9.31E+06	1.30E+07
40766-31-2	Dimethyl(1-phenylethyl)benzene, 1-	L	4.29E+05	1.22E+06	3.46E+06	6.36E+06	9.81E+06	1.37E+07
563-79-1	Dimethyl-2-Butene; 2,3-	G	3.87E+01	1.10E+02	3.12E+02	5.74E+02	8.84E+02	1.24E+03
4914-92-5	Dimethyl--2-pentene, (E)-3,4-	L	5.52E+02	1.57E+03	4.45E+03	8.19E+03	1.26E+04	1.77E+04
124-40-3	Dimethylamine	G	1.43E+02	4.05E+02	1.15E+03	1.15E+03	2.50E+03	2.50E+03
60-11-7	Dimethylaminoazobenzene, 4-	Pwd	1.16E+03	3.29E+03	9.35E+03	1.72E+04	2.65E+04	3.71E+04
60-11-7	Dimethylaminoazobenzene, 4-	S	1.16E+04	3.29E+04	9.35E+04	1.72E+05	2.65E+05	3.71E+05
100-10-7	Dimethylamino-benzaldehyde, p-	S	3.87E+04	1.10E+05	3.12E+05	5.74E+05	8.84E+05	1.24E+06

121-69-7	Dimethylaniline, N,N-	L	5.00E+04	1.42E+05	4.03E+05	7.41E+05	1.14E+06	1.60E+06
119-93-7	Dimethylbenzidene 3,3'-; (o-Tolidine)	L	6.47E+10	1.84E+11	5.21E+11	9.59E+11	1.48E+12	2.07E+12
119-93-7	Dimethylbenzidene 3,3'-; (o-Tolidine)	S	1.55E+04	4.39E+04	1.25E+05	2.29E+05	3.54E+05	4.95E+05
119-93-7	Dimethylbenzidene 3,3'-; (o-Tolidine)	Cry Pwd	1.55E+03	4.39E+03	1.25E+04	2.29E+04	3.54E+04	4.95E+04
624-29-3	Dimethylcyclohexane, cis-1,4-	L	6.51E+02	1.85E+03	5.24E+03	9.65E+03	1.49E+04	2.08E+04
17302-37-3	Dimethyldecane, 2,2-	S	1.35E+06	3.82E+06	1.08E+07	2.00E+07	3.08E+07	4.31E+07
75-78-5	Dimethyldichlorosilane	L	2.35E+02	6.68E+02	1.00E+03	1.00E+03	1.00E+03	1.00E+03
75-91-2	Dimethylethyl hydroperoxide, 1,1-; (tert-Butylhydroperoxide)							
68-12-2	Dimethylformamide	L	4.57E+03	5.00E+03	5.00E+03	5.00E+03	5.00E+03	5.00E+03
1071-26-7	Dimethylheptane, 2,2-	L	1.46E+04	4.16E+04	1.18E+05	2.17E+05	3.35E+05	4.69E+05
563-16-6	Dimethylhexane, 3,3-	L	3.70E+04	1.05E+05	2.98E+05	5.49E+05	8.47E+05	1.19E+06
57-14-7	Dimethylhydrazine, 1,1-	L	1.81E+04	5.15E+04	1.46E+05	2.69E+05	4.15E+05	5.81E+05
540-73-8	Dimethylhydrazine, 1,2-	L	2.42E+01	6.87E+01	1.95E+02	1.95E+02	5.53E+02	7.74E+02
17302-23-7	Dimethylnonane, 2,6-	L	4.49E+02	1.27E+03	3.62E+03	6.66E+03	1.03E+04	1.44E+04
15869-93-9	Dimethyloctane, 3,5-	L	5.66E+03	1.61E+04	4.56E+04	8.39E+04	1.29E+05	1.81E+05
105-67-9	Dimethylphenol, 2,4-; (2,4-Xylenol)	L	4.02E+04	1.14E+05	3.24E+05	5.96E+05	9.19E+05	1.29E+06
105-67-9	Dimethylphenol, 2,4-; (2,4-Xylenol)	L	1.73E+06	4.92E+06	1.40E+07	2.57E+07	3.97E+07	5.55E+07
576-26-1	Dimethylphenol, 2,6-; (2,6-Xylenol)	Cry Pwd	7.73E+03	2.20E+04	6.23E+04	1.15E+05	1.77E+05	2.47E+05
131-11-3	Dimethylphthalate	Cry Pwd	1.93E+03	5.49E+03	1.56E+04	2.87E+04	4.42E+04	6.19E+04
99-98-9	Dimethyl-p-phenylenediamine, N,N-	L	2.49E+07	7.06E+07	2.01E+08	3.69E+08	5.69E+08	7.96E+08
99-98-9	Dimethyl-p-phenylenediamine, N,N-	L	3.94E+06	1.12E+07	3.17E+07	5.84E+07	9.01E+07	1.26E+08
99-98-9	Dimethyl-p-phenylenediamine, N,N-	Pwd	1.55E+01	4.39E+01	1.25E+02	2.29E+02	3.54E+02	4.95E+02
463-82-1	Dimethylpropane, 2,2-; (Neopentane)	S	1.55E+02	4.39E+02	1.25E+03	2.29E+03	3.54E+03	4.95E+03
463-82-1	Dimethylpropane, 2,2-; (Neopentane)	L	7.31E+03	2.08E+04	5.89E+04	1.08E+05	1.67E+05	2.34E+05
108-47-4	Dimethylpyridine, 2,4-; (2,4-Lutidine)	G	2.28E+04	6.48E+04	1.84E+05	3.38E+05	5.22E+05	7.30E+05
544-97-8	DIMETHYLZINC	L	1.15E+03	3.27E+03	9.27E+03	1.71E+04	2.63E+04	3.68E+04
644-64-4	Dimetilan	L	1.43E+02	4.05E+02	1.15E+03	2.12E+03	3.26E+03	4.56E+03
644-64-4	Dimetilan	Pwd	3.87E+02	1.10E+03	3.12E+03	5.74E+03	8.84E+03	1.24E+04
111-92-2	Di-n-butylamine	S	3.87E+03	1.10E+04	3.12E+04	5.74E+04	8.84E+04	1.24E+05
3468-63-1	Dinitraniline; (Hansa orange RN)	L	7.00E+03	1.99E+04	5.64E+04	1.04E+05	1.60E+05	2.24E+05
97-02-9	Dinitroaniline, 2,4-	Pwd	3.87E+03	1.10E+04	3.12E+04	5.74E+04	8.84E+04	1.24E+05
99-65-0	Dinitrobenzene, m-	S	1.93E+03	5.00E+03	5.00E+03	5.00E+03	5.00E+03	5.00E+03
99-65-0	Dinitrobenzene, m-	Pwd	7.73E+02	2.20E+03	6.23E+03	1.15E+04	1.77E+04	2.47E+04
528-29-0	Dinitrobenzene, o-	S	7.73E+03	2.20E+04	6.23E+04	1.15E+05	1.77E+05	2.47E+05
100-25-4	Dinitrobenzene, p-; (Piperidine, 1-nitroso-)	Cry Pwd	7.73E+02	2.20E+03	6.23E+03	1.15E+04	1.77E+04	2.47E+04
534-52-1	Dinitro-o-cresol, 4,6- and salts	Cry Pwd	7.73E+02	2.20E+03	6.23E+03	1.15E+04	1.77E+04	2.47E+04
534-52-1	Dinitro-o-cresol, 4,6- and salts	Pwd	7.73E+01	2.20E+02	6.23E+02	1.15E+03	1.77E+03	2.47E+03
25550-58-7	Dinitrophenol	S	7.73E+02	2.20E+03	6.23E+03	1.15E+04	1.77E+04	2.47E+04
51-28-5	Dinitrophenol 2,4-	S	3.87E+03	1.10E+04	3.12E+04	5.74E+04	8.84E+04	1.24E+05
51-28-5	Dinitrophenol 2,4-	S	4.64E+03	1.32E+04	3.74E+04	6.88E+04	1.06E+05	1.48E+05
66-56-8	Dinitrophenol, 2,3-	Pwd	4.64E+02	1.32E+03	3.74E+03	6.88E+03	1.06E+04	1.48E+04
		S	1.16E+04	3.29E+04	9.35E+04	1.72E+05	2.65E+05	3.71E+05

573-56-8	Dinitrophenol, 2,6-	Pwd	2.32E+02	6.59E+02	1.87E+03	3.44E+03	5.31E+03	7.42E+03
140-79-4	Dinitrosopiperazine; (Piperazine, 1,4-dinitroso-)	S	9.28E+03	2.63E+04	7.48E+04	1.38E+05	2.12E+05	2.97E+05
25321-14-6	Dinitrotoluene	S	7.73E+03	2.20E+04	6.23E+04	1.15E+05	1.77E+05	2.47E+05
121-14-2	Dinitrotoluene 2,4-	S	7.73E+03	2.20E+04	6.23E+04	1.15E+05	1.77E+05	2.47E+05
606-20-2	Dinitrotoluene 2,6-	S	7.73E+03	2.20E+04	6.23E+04	1.15E+05	1.77E+05	2.47E+05
610-39-9	Dinitrotoluene, 3,4-	Cry Pwd	7.73E+02	2.20E+03	6.23E+03	1.15E+04	1.77E+04	2.47E+04
88-85-7	Dinoseb; (2-sec-Butyl-4,6-dinitrophenol)	S	1.55E+03	4.39E+03	1.25E+04	2.29E+04	3.54E+04	4.95E+04
88-85-7	Dinoseb; (2-sec-Butyl-4,6-dinitrophenol)	Pwd	1.55E+02	4.39E+02	1.25E+03	2.29E+03	3.54E+03	4.95E+03
1420-07-1	Dinoterb; (2-[1,1-Dimethylethyl]-4,6-dinitrophenol)	Pwd	3.87E+02	1.10E+03	3.12E+03	5.74E+03	8.84E+03	1.24E+04
1420-07-1	Dinoterb; (2-[1,1-Dimethylethyl]-4,6-dinitrophenol)	S	3.87E+03	1.10E+04	3.12E+04	5.74E+04	8.84E+04	1.24E+05
117-84-0	Dioctyl phthalate, n-;	L	1.80E+06	5.12E+06	1.45E+07	2.68E+07	4.13E+07	5.77E+07
117-84-0	Dioctyl phthalate, n-;	Pwd	7.73E+03	2.20E+04	6.23E+04	1.15E+05	1.77E+05	2.47E+05
122-62-3	Dioctyl sebacate; (Bis(2-ethylhexyl) sebacate)	L	3.13E+05	8.88E+05	2.52E+06	4.64E+06	7.15E+06	1.00E+07
577-11-7	Dioctyl sodium sulfosuccinate; (Di-[2-ethylhexyl] sodium sulfosuccinate)	S	7.73E+04	2.20E+05	6.23E+05	1.15E+06	1.77E+06	2.47E+06
577-11-7	Dioctyl sodium sulfosuccinate; (Di-[2-ethylhexyl] sodium sulfosuccinate) 40% volitile	L	1.12E+05	3.17E+05	9.00E+05	1.66E+06	2.55E+06	3.57E+06
78-34-2	Dioxathion	L	6.00E+03	1.70E+04	4.83E+04	8.89E+04	1.37E+05	1.92E+05
1746-01-6	Dioxine; (TCDD; 2,3,6,7-tetrachlorodibenzo-p-dioxin)	Pwd	1.16E-01	3.29E-01	9.35E-01	1.72E+00	2.65E+00	3.71E+00
1746-01-6	Dioxine; (TCDD; 2,3,6,7-tetrachlorodibenzo-p-dioxin)	S	1.16E+00	3.29E+00	9.35E+00	1.72E+01	2.65E+01	3.71E+01
646-06-0	Dioxolane, 1,3-	L	1.18E+04	3.36E+04	9.53E+04	1.75E+05	2.70E+05	3.78E+05
6418-56-0	Dipentyl pentylphosphonate	Pwd	7.73E+03	2.20E+04	6.23E+04	1.15E+05	1.77E+05	2.47E+05
6418-56-0	Dipentyl pentylphosphonate	S	7.73E+04	2.20E+05	6.23E+05	1.15E+06	1.77E+06	2.47E+06
82-66-6	Diphacinone; (Diphenadione)	Pwd	7.73E+03	2.20E+04	6.23E+04	1.15E+05	1.77E+05	2.47E+05
82-66-6	Diphacinone; (Diphenadione)	S	7.73E+04	2.20E+05	6.23E+05	1.15E+06	1.77E+06	2.47E+06
587-85-9	Diphenyl mercury (aryl compound)	S	1.55E+03	4.39E+03	1.25E+04	2.29E+04	3.54E+04	4.95E+04
587-85-9	Diphenyl mercury (aryl compound)	Pwd	1.55E+02	4.39E+02	1.25E+03	2.29E+03	3.54E+03	4.95E+03
92-52-4	Diphenyl; (Biphenyl)	S	1.55E+04	4.39E+04	1.25E+05	2.29E+05	3.54E+05	4.95E+05
122-39-4	Diphenylamine	S	1.93E+04	5.49E+04	1.56E+05	2.87E+05	4.42E+05	6.19E+05
102-06-7	Diphenylguanidine, 1,3-	S	1.93E+04	5.49E+04	1.56E+05	2.87E+05	4.42E+05	6.19E+05
102-06-7	Diphenylguanidine, 1,3-	Pwd	1.93E+03	5.49E+03	1.56E+04	2.87E+04	4.42E+04	6.19E+04
122-66-7	Diphenylhydrazine, 1,2,3-	S	1.93E+04	5.49E+04	1.56E+05	2.87E+05	4.42E+05	6.19E+05
122-66-7	Diphenylhydrazine, 1,2,3-	cry Pwd	1.93E+03	5.49E+03	1.56E+04	2.87E+04	4.42E+04	6.19E+04
86-30-6	Diphenylnitrosamine	S	7.73E+04	2.20E+05	6.23E+05	1.15E+06	1.77E+06	2.47E+06
92-71-7	Diphenyloxazole, 2,5-	S	4.64E+04	1.32E+05	3.74E+05	6.88E+05	1.06E+06	1.48E+06
92-71-7	Diphenyloxazole, 2,5-	Pwd	4.64E+03	1.32E+04	3.74E+04	6.88E+04	1.06E+05	1.48E+05
z-0023	Dipotassium cadmium oxide (X)	S	2.32E+03	6.59E+03	1.87E+04	3.44E+04	5.31E+04	7.42E+04
z-0024	Dipotassium dihydrogen silicate	S	3.87E+04	1.10E+05	3.12E+05	5.74E+05	8.84E+05	1.24E+06
10006-28-7	Dipotassium metasilicate	S	7.73E+04	2.20E+05	6.23E+05	1.15E+06	1.77E+06	2.47E+06
7778-80-5	Dipotassium Sulfate	S	7.73E+04	2.20E+05	6.23E+05	1.15E+06	1.77E+06	2.47E+06

z-0025	Dipotassium zirconium oxide (X)	S	1.93E+04	5.49E+04	1.56E+05	2.87E+05	4.42E+05	6.19E+05
123-19-3	Dipropyl ketone; (4-Heptanone)	L	1.94E+04	5.51E+04	1.56E+05	2.88E+05	4.44E+05	6.21E+05
142-84-7	Dipropylamine	L	5.79E+03	1.64E+04	4.66E+04	8.58E+04	1.32E+05	1.85E+05
34590-94-8	Dipropylene glycol methyl ether	L	3.67E+05	1.04E+06	2.96E+06	5.45E+06	8.40E+06	1.17E+07
117-81-7	Di-sec-octylphthalate	L	3.20E+05	9.09E+05	2.58E+06	4.75E+06	7.32E+06	1.02E+07
z-0026	Disodium (2-ethylhexyl)phosphate	S	3.09E+02	8.78E+02	2.49E+03	4.59E+03	7.08E+03	9.90E+03
12786-93-1	Disodium butylphosphate	S	3.09E+02	8.78E+02	2.49E+03	4.59E+03	7.08E+03	9.90E+03
3321-64-0	Disodium butylphosphonate	Cry Pwd	3.09E+01	8.78E+01	2.49E+02	4.59E+02	7.08E+02	9.90E+02
z-0027	Disodium cadmium oxide (X)	S	2.32E+03	6.59E+03	1.87E+04	3.44E+04	5.31E+04	7.42E+04
z-0028	Disodium dihydrogen silicate	S	3.87E+04	1.10E+05	3.12E+05	5.74E+05	8.84E+05	1.24E+06
38011-25-5	Disodium ethylenediaminediacetate (S and U isomers)	S	6.19E+04	1.76E+05	4.99E+05	9.18E+05	1.42E+06	1.98E+06
928-72-3	Disodium iminodiacetate (IDA)	S	5.60E+05	1.59E+06	4.51E+06	8.30E+06	1.28E+07	1.79E+07
z-0029	Disodium zirconium oxide (X)	S	1.55E+04	4.39E+04	1.25E+05	2.29E+05	3.54E+05	4.95E+05
129-67-9	Disodium-3,6-endoxohexahydrophthalate	S	3.09E+03	8.78E+03	2.49E+04	4.59E+04	7.08E+04	9.90E+04
97-77-8	Disulfiram	Cry Pwd	1.93E+03	5.49E+03	1.56E+04	2.87E+04	4.42E+04	6.19E+04
298-04-4	Disulfoton	L	7.50E+08	2.13E+09	6.04E+09	1.11E+10	1.72E+10	2.40E+10
298-04-4	Disulfoton	Pwd	1.16E+03	3.29E+03	9.35E+03	1.72E+04	2.65E+04	3.71E+04
514-73-8	Dithiazanine iodide; (3,3'-Diethylpentamethinethiacyanne iodide)	S	3.09E+03	8.78E+03	2.49E+04	4.59E+04	7.08E+04	9.90E+04
514-73-8	Dithiazanine iodide; (3,3'-Diethylpentamethinethiacyanne iodide)	Pwd	3.09E+02	8.78E+02	2.49E+03	4.59E+03	7.08E+03	9.90E+03
541-53-7	Dithiobiuret	Pwd	7.73E+01	2.20E+02	6.23E+02	1.15E+03	1.77E+03	2.47E+03
541-53-7	Dithiobiuret	S	7.73E+02	2.20E+03	6.23E+03	1.15E+04	1.77E+04	2.47E+04
108-57-6	Divinylbenzene, m-; (m-Vinylstyrene)	L	2.65E+04	7.51E+04	2.13E+05	3.93E+05	6.05E+05	8.47E+05
1321-74-0	Divynylbenzene, mixed isomers; (Vinylstyrene)	L	2.82E+05	7.99E+05	2.27E+06	4.18E+06	6.44E+06	9.01E+06
540-97-6	Dodecamethylcyclohexasiloxane	L	1.21E+07	3.44E+07	9.77E+07	1.80E+08	2.77E+08	3.88E+08
540-97-6	Dodecamethylcyclohexasiloxane	S	7.73E+04	2.20E+05	6.23E+05	1.15E+06	1.77E+06	2.47E+06
112-40-3	Dodecane	L	1.26E+05	3.57E+05	1.01E+06	1.86E+06	2.88E+06	4.02E+06
25377-73-5	Dodecenylsuccinic anhydride	L	2.35E+05	6.66E+05	1.89E+06	3.48E+06	5.36E+06	7.50E+06
112-53-8	Dodecyl alcohol, LAURYL ALCOHOL	S	7.73E+04	2.20E+05	6.23E+05	1.15E+06	1.77E+06	2.47E+06
27176-87-0	Dodecylbenzene sulfonic acid; (Laurylbenzenesulfonic acid)	L	1.60E+15	4.55E+15	1.29E+16	2.38E+16	3.67E+16	5.13E+16
69011-20-7	DOWEX-50-X8 resin	S	3.87E+04	1.10E+05	3.12E+05	5.74E+05	8.84E+05	1.24E+06
z-0127	DPD free chlorine reagent	Pwd	3.09E+00	8.78E+00	2.49E+01	4.59E+01	7.08E+01	9.90E+01
6892-68-8	DTE (Dithioerytheitol)	Cry Pwd	2.63E+02	7.46E+02	2.12E+03	3.90E+03	6.01E+03	8.41E+03
6892-68-8	DTE (Dithioerytheitol)	Pwd	2.63E+02	7.46E+02	2.12E+03	3.90E+03	6.01E+03	8.41E+03
12175-27-8	Dysprosium nickelide (as Dy)	S	3.87E+04	1.10E+05	3.12E+05	5.74E+05	8.84E+05	1.24E+06
1308-87-8	Dysprosium oxide	Pwd	7.73E+03	2.20E+04	6.23E+04	1.15E+05	1.77E+05	2.47E+05
10143-38-1	Dysprosium Trinitrate	S	7.73E+04	2.20E+05	6.23E+05	1.15E+06	1.77E+06	2.47E+06
10031-49-9	DYSPROSIUM(III) NITRATE PENTAHYDRATE	S	1.31E+04	3.73E+04	1.06E+05	1.95E+05	3.01E+05	4.21E+05
z-0030	Ecolite	Pwd	7.73E+03	2.20E+04	6.23E+04	1.15E+05	1.77E+05	2.47E+05

6381-92-6	EDTA (Ethylene Diamine Tetra Acetic Acid)	cry Pwd	2.32E+03	6.59E+03	1.87E+04	3.44E+04	5.31E+04	7.42E+04
6381-92-6	EDTA (Ethylene Diamine Tetra Acetic Acid) <5% solution	L	8.08E+10	2.29E+11	6.51E+11	1.20E+12	1.85E+12	2.58E+12
10378-23-1	EDTA, Tetrasodium salt	cry Pwd	2.32E+03	6.59E+03	1.87E+04	3.44E+04	5.31E+04	7.42E+04
316-42-7	Emetine dihydrochloride, 1-	Pwd	3.87E+00	1.10E+01	3.12E+01	5.74E+01	8.84E+01	1.24E+02
316-42-7	Emetine dihydrochloride, 1-	S	3.87E+01	1.10E+02	3.12E+02	5.74E+02	8.84E+02	1.24E+03
115-29-7	Endosulfan	S	5.41E+03	1.54E+04	4.36E+04	8.03E+04	1.24E+05	1.73E+05
115-29-7	Endosulfan	Pwd	5.41E+02	1.54E+03	4.36E+03	8.03E+03	1.24E+04	1.73E+04
2778-04-3	Endothion	Pwd	2.63E+02	7.46E+02	2.12E+03	3.90E+03	6.01E+03	8.41E+03
2778-04-3	Endothion	S	2.63E+03	7.46E+03	2.12E+04	3.90E+04	6.01E+04	8.41E+04
72-20-8	Endrin	S	3.09E+02	8.78E+02	2.49E+03	4.59E+03	7.08E+03	9.90E+03
72-20-8	Endrin	Pwd	3.09E+01	8.78E+01	2.49E+02	4.59E+02	7.08E+02	9.90E+02
z-0031	Epibatadine (nicotine-like)	L	7.85E-01	2.23E+00	6.33E+00	1.16E+01	1.80E+01	2.51E+01
106-89-8	Epichlorohydrin	L	3.00E+03	8.51E+03	2.00E+04	2.00E+04	2.00E+04	2.00E+04
51-43-4	Epinephrine; (Vasotonin; 1,2-Benzenediol, 4-[1-hydroxy-2-(methylamino) ethyl]-)	L	1.44E+08	4.08E+08	1.16E+09	2.13E+09	3.29E+09	4.60E+09
51-43-4	Epinephrine; (Vasotonin; 1,2-Benzenediol, 4-[1-hydroxy-2-(methylamino) ethyl]-)	cry Pwd	3.87E+00	1.10E+01	3.12E+01	5.74E+01	8.84E+01	1.24E+02
2104-64-5	EPN; (0-Ethyl-0-[4-nitrophenyl] phenyl-thiophosphorate)	L	3.40E+09	9.66E+09	2.74E+10	5.05E+10	7.78E+10	1.09E+11
2104-64-5	EPN; (0-Ethyl-0-[4-nitrophenyl] phenyl-thiophosphorate)	Pwd	7.73E+01	2.20E+02	6.23E+02	1.15E+03	1.77E+03	2.47E+03
2104-64-5	EPN; (0-Ethyl-0-[4-nitrophenyl] phenyl-thiophosphorate)	S	7.73E+02	2.20E+03	6.23E+03	1.15E+04	1.77E+04	2.47E+04
25928-94-3	Epoxy resin; (Epichlorhydrin + diethylene glycol)	L	1.65E+02	4.68E+02	1.33E+03	2.45E+03	3.77E+03	5.28E+03
25928-94-3	Epoxy resin; (Epichlorhydrin + diethylene glycol)	S	9.28E+02	2.63E+03	7.48E+03	1.38E+04	2.12E+04	2.97E+04
25068-38-6	Epoxy resin (EPON 1001)	L	1.41E+04	4.01E+04	1.14E+05	2.09E+05	3.23E+05	4.52E+05
25068-38-6	Epoxy resin (EPON 1007)	S	7.73E+04	2.20E+05	6.23E+05	1.15E+06	1.77E+06	2.47E+06
25068-38-6	Epoxy resin (EPON 820)	S	7.73E+04	2.20E+05	6.23E+05	1.15E+06	1.77E+06	2.47E+06
25068-38-6	Epoxy resin ERL-2795	S	7.73E+04	2.20E+05	6.23E+05	1.15E+06	1.77E+06	2.47E+06
30583-72-3	Epoxy resin, cured	L	9.99E+03	2.84E+04	8.05E+04	1.48E+05	2.29E+05	3.20E+05
30583-72-3	Epoxy resin, cured	S	3.87E+04	1.10E+05	3.12E+05	5.74E+05	8.84E+05	1.24E+06
106-88-7	Epoxybutane, 1,2- ; (1,2-Butylene oxide)	L	7.94E+02	2.25E+03	6.40E+03	1.18E+04	1.82E+04	2.54E+04
10031-51-3	Erbium nitrate pentahydrate	S	3.87E+04	1.10E+05	3.12E+05	5.74E+05	8.84E+05	1.24E+06
12061-16-4	Erbium oxide	Pwd	7.73E+03	2.20E+04	6.23E+04	1.15E+05	1.77E+05	2.47E+05
10168-80-6	Erbium(III) nitrate	S	3.87E+03	1.10E+04	3.12E+04	5.74E+04	8.84E+04	1.24E+05
13476-05-6	Erbium(III) nitrate hexahydrate	Pwd	1.55E+03	4.39E+03	1.25E+04	2.29E+04	3.54E+04	4.95E+04
50-14-6	Ergocalciferol; (Vitamin D2)	L	1.45E+03	4.11E+03	1.17E+04	2.15E+04	3.31E+04	4.63E+04
50-14-6	Ergocalciferol; (Vitamin D2)	S	6.19E+03	1.76E+04	4.99E+04	9.18E+04	1.42E+05	1.98E+05
50-14-6	Ergocalciferol; (Vitamin D2)	Pwd	6.19E+02	1.76E+03	4.99E+03	9.18E+03	1.42E+04	1.98E+04
379-79-3	Ergotamine tartrate	S	9.28E+03	2.63E+04	7.48E+04	1.38E+05	2.12E+05	2.97E+05
379-79-3	Ergotamine tartrate	Pwd	9.28E+02	2.63E+03	7.48E+03	1.38E+04	2.12E+04	2.97E+04

74-84-0	Ethane (Ethyl Hydride) [1L = ~300g]	G	5.71E+03	1.62E+04	4.60E+04	8.46E+04	1.30E+05	1.83E+05
103-29-7	Ethanediyl)bis-benzene, 1,1'- (1,2-; (Bibenzyl)	S	7.73E+04	2.20E+05	6.23E+05	1.15E+06	1.77E+06	2.47E+06
75-08-1	Ethanethiol; (Ethyl mercaptan)	L	4.10E+02	1.16E+03	3.30E+03	6.08E+03	9.38E+03	1.31E+04
LANL-00-05	Ethanol 0.038-2% in Nitrogen	G	2.24E+04	6.35E+04	1.80E+05	3.32E+05	5.12E+05	7.16E+05
141-43-5	Ethanolamine	L	2.17E+04	6.17E+04	1.75E+05	3.22E+05	4.97E+05	6.95E+05
1239-45-8	Ethidium bromide <1% solution	L	4.70E+02	1.34E+03	3.79E+03	6.98E+03	1.08E+04	1.50E+04
1239-45-8	Ethidium bromide; (2,7-Diamino-10-ethyl-9-phenylphenanthridinium bromide)	S	3.09E+03	8.78E+03	2.49E+04	4.59E+04	7.08E+04	9.90E+04
1239-45-8	Ethidium bromide; (2,7-Diamino-10-ethyl-9-phenylphenanthridinium bromide)	Pwd	3.09E+02	8.78E+02	2.49E+03	4.59E+03	7.08E+03	9.90E+03
563-12-2	Ethion	L	1.64E+11	4.66E+11	1.32E+12	2.44E+12	3.76E+12	5.25E+12
110-80-5	Ethoxyethanol, 2-	L	1.33E+05	3.78E+05	1.07E+06	1.98E+06	3.05E+06	4.26E+06
111-90-0	Ethoxyethoxy-)ethanol, 2-(2-; (Carbitol cellosolve; Glycol ether DE)	L	1.15E+06	3.26E+06	9.25E+06	1.70E+07	2.63E+07	3.67E+07
111-15-9	Ethoxyethylacetate, 2-	L	1.50E+05	4.27E+05	1.21E+06	2.23E+06	3.44E+06	4.81E+06
68991-48-0	Ethoxylated alcohols, C7-C21	L	6.38E+03	1.81E+04	5.14E+04	9.46E+04	1.46E+05	2.04E+05
68991-48-0	Ethoxylated alcohols, C7-C21	S	1.55E+03	4.39E+03	1.25E+04	2.29E+04	3.54E+04	4.95E+04
9016-45-9	Ethoxylated p-nonylphenol; (Nonyl phenyl polyethylene glycol ether)	L	3.36E+05	9.53E+05	2.70E+06	4.98E+06	7.67E+06	1.07E+07
9016-45-9	Ethoxylated p-nonylphenol; (Nonyl phenyl polyethylene glycol ether)	S	7.73E+04	2.20E+05	6.23E+05	1.15E+06	1.77E+06	2.47E+06
765-38-8	Ethyl (or dimethyl) pyrrolidine	L	8.10E+03	2.30E+04	6.53E+04	1.20E+05	1.85E+05	2.59E+05
141-78-6	Ethyl acetate	L	6.34E+03	1.80E+04	5.11E+04	9.41E+04	1.45E+05	2.03E+05
107-00-6	Ethyl Aceteylene, (1-Butyne)	G	8.21E+04	2.33E+05	6.62E+05	1.22E+06	1.88E+06	2.63E+06
140-88-5	Ethyl acrylate	L	3.23E+03	9.18E+03	2.60E+04	4.80E+04	7.39E+04	1.03E+05
64-17-5	Ethyl alcohol; (ethanol)	L	1.63E+04	4.61E+04	1.31E+05	2.41E+05	3.72E+05	5.20E+05
106-68-3	Ethyl amyl ketone; (3-Octanone)	L	1.51E+04	4.28E+04	1.22E+05	2.24E+05	3.45E+05	4.83E+05
100-41-4	Ethyl benzene	L	2.45E+04	6.95E+04	1.97E+05	3.63E+05	5.60E+05	7.84E+05
106-35-4	Ethyl butyl ketone; (3-Heptanone)	L	2.07E+05	5.87E+05	1.66E+06	3.06E+06	4.73E+06	6.61E+06
75-00-3	Ethyl chloride, (CHLOROETHANE) [2L = ~1.6kg)	G	1.55E+03	4.40E+03	1.25E+04	2.30E+04	3.54E+04	4.96E+04
75-00-3	Ethyl chloride, (CHLOROETHANE) Liquid	L	8.89E+02	2.52E+03	7.16E+03	1.32E+04	2.03E+04	2.84E+04
541-41-3	Ethyl chloroformate	L	7.76E+01	2.20E+02	6.25E+02	1.15E+03	1.77E+03	2.48E+03
541-41-3	Ethyl chloroformate	S	6.86E+03	1.95E+04	5.53E+04	1.02E+05	1.57E+05	2.20E+05
77-81-6	Ethyl dimethylamidocyanophosphate; (Tabun; GA)	L	1.85E+04	5.26E+04	1.49E+05	2.75E+05	4.24E+05	5.93E+05
60-29-7	Ethyl ether	L	1.40E+03	3.98E+03	1.13E+04	2.08E+04	3.21E+04	4.49E+04
149-57-5	Ethyl hexanoic acid, 2-; (Butyl ethyl acetic acid)	L	5.74E+06	1.63E+07	4.62E+07	8.51E+07	1.31E+08	1.84E+08
109-90-0	Ethyl Isocyanate	L	1.21E+01	3.43E+01	9.73E+01	1.79E+02	2.76E+02	3.86E+02
107-27-7	Ethyl mercury chloride; (Chloroethyl mercury)	S	3.87E+02	1.10E+03	3.12E+03	5.74E+03	8.84E+03	1.24E+04
97-63-2	Ethyl methacrylate, (2-Methyl-2-propenoic acid, ethyl ester)	L	1.19E+04	3.37E+04	9.55E+04	1.76E+05	2.71E+05	3.79E+05

109-95-5	Ethyl nitrite	L	5.49E+01	1.56E+02	4.42E+02	4.42E+02	1.25E+03	1.76E+03
105-37-3	Ethyl propionate	L	5.98E+03	1.70E+04	4.82E+04	8.87E+04	1.37E+05	1.91E+05
104-76-7	Ethyl-1-hexanol, 2-	L	7.68E+05	2.18E+06	6.19E+06	1.14E+07	1.76E+07	2.46E+07
14676-29-0	Ethyl-2-methyl heptane, 3-	L	2.41E+04	6.85E+04	1.94E+05	3.58E+05	5.52E+05	7.72E+05
z-0033	Ethyl-2-methyloctane, 6-	L	7.92E+02	2.25E+03	6.38E+03	1.17E+04	1.81E+04	2.53E+04
52896-90-9	Ethyl-5-methylheptane, 3-	L	8.08E+04	2.29E+05	6.51E+05	1.20E+06	1.85E+06	2.59E+06
75-04-7	Ethylamine; (Monoethylamine; Ethylamine anhydrous)	L	3.65E+02	1.04E+03	2.94E+03	2.94E+03	7.50E+03	7.50E+03
4748-78-1	Ethyl-benzaldehyde	L	2.11E+04	5.98E+04	1.70E+05	3.12E+05	4.81E+05	6.74E+05
53951-50-1	Ethyl-benzaldehyde	L	2.11E+04	5.98E+04	1.70E+05	3.12E+05	4.81E+05	6.74E+05
22927-13-5	Ethyl-benzaldehyde	S	8.48E+05	2.41E+06	6.83E+06	1.26E+07	1.94E+07	2.71E+07
538-07-8	Ethylbis(2-chloroethyl)amine; (Bis(2-chloroethyl)ethylamine)	L	5.36E+04	1.52E+05	4.32E+05	7.94E+05	1.22E+06	1.71E+06
74-85-1	Ethylene [1L ~300g]	G	2.66E+03	7.55E+03	2.14E+04	3.95E+04	6.09E+04	8.51E+04
107-07-3	Ethylene chlorohydrin	L	2.74E+02	7.78E+02	2.21E+03	4.06E+03	6.26E+03	8.77E+03
106-93-4	Ethylene dibromide	L	7.61E+03	2.16E+04	6.13E+04	1.13E+05	1.74E+05	2.44E+05
107-06-2	Ethylene dichloride; (1,2-Dichloroethane)	L	2.07E+03	5.87E+03	1.67E+04	3.07E+04	4.73E+04	6.62E+04
371-62-0	Ethylene fluorohydrin; (2-Fluoroethanol)	L	1.95E+01	5.53E+01	1.00E+02	1.00E+02	1.00E+02	1.00E+02
107-21-1	Ethylene glycol	L	3.84E+05	1.09E+06	3.10E+06	5.70E+06	8.79E+06	1.23E+07
109-86-4	Ethylene glycol monomethyl ether; (Methyl Cellosolve(R))	L	8.19E+04	2.33E+05	6.60E+05	1.21E+06	1.87E+06	2.62E+06
2807-30-9	Ethylene glycol monopropyl ether; (Propyl cellosolve, Ektasolve EP)	L	9.81E+04	2.79E+05	7.91E+05	1.46E+06	2.24E+06	3.14E+06
7795-91-7	Ethylene glycol mono-sec-butyl ether	L	7.22E+03	2.05E+04	5.81E+04	1.07E+05	1.65E+05	2.31E+05
7795-91-7	Ethylene glycol mono-sec-butyl ether	S	5.41E+04	1.54E+05	4.36E+05	8.03E+05	1.24E+06	1.73E+06
75-21-8	Ethylene oxide; (Oxirane) [2L ~ 1.5 kg]	G	1.39E+02	3.95E+02	1.12E+03	1.12E+03	3.19E+03	4.46E+03
74-85-1	Ethylene Refridgerated	L	7.59E+01	2.15E+02	6.12E+02	1.13E+03	1.74E+03	2.43E+03
107-15-3	Ethylenediamine, 1,2-	L	2.00E+04	2.00E+04	2.00E+04	2.00E+04	2.00E+04	2.00E+04
139-33-3	Ethylenediaminetetraacetic acid, disodium salt	L	1.50E+04	4.27E+04	1.21E+05	2.23E+05	3.44E+05	4.81E+05
139-33-3	Ethylenediaminetetraacetic acid, disodium salt	Cry Pwd	7.73E+03	2.20E+04	6.23E+04	1.15E+05	1.77E+05	2.47E+05
64-02-8	Ethylenediaminetetraacetic acid; (Tetrasodium EDTA)	S	2.32E+04	6.59E+04	1.87E+05	3.44E+05	5.31E+05	7.42E+05
60-00-4	Ethylenediaminetetraacetic acid; (Tetrasodium EDTA)	Pwd	2.32E+03	6.59E+03	1.87E+04	3.44E+04	5.31E+04	7.42E+04
60-00-4	Ethylenediaminetetraacetic acid; (Tetrasodium EDTA)	S	2.32E+04	6.59E+04	1.87E+05	3.44E+05	5.31E+05	7.42E+05
151-56-4	Ethyleneimine	L	1.49E+02	4.22E+02	1.00E+03	1.00E+03	1.00E+03	1.00E+03
96-45-7	Ethylenethiourea; (2-Imidazolidinethione)	Cry Pwd	7.73E+03	2.20E+04	6.23E+04	1.15E+05	1.77E+05	2.47E+05
2216-32-2	Ethylheptane, 4-	L	5.37E+03	1.52E+04	4.33E+04	7.96E+04	1.23E+05	1.72E+05
103-11-7	Ethylhexyl acrolate, 2-; (Acrylic acid-2-ethylhexyl ester)	L	4.05E+03	1.15E+04	3.26E+04	6.00E+04	9.26E+04	1.30E+05

75-34-3	Ethylidene chloride, 1,1-; (1,1-Dichloroethane)	L	7.44E+03	2.11E+04	5.99E+04	1.10E+05	1.70E+05	2.38E+05
16219-75-3	Ethylidene Norbornene	L	3.91E+03	1.11E+04	3.15E+04	5.80E+04	8.94E+04	1.25E+05
50782-69-9	Ethyl-s-dimethylaminoethyl methylphosphonothiolate; (VX nerve agent)	L	1.03E+04	2.92E+04	8.29E+04	1.53E+05	2.35E+05	3.29E+05
542-90-5	Ethylthiocyanate	L	8.38E+03	2.38E+04	6.75E+04	1.24E+05	1.92E+05	2.68E+05
611-14-3	Ethyltoluene, o-	L	3.86E+03	1.10E+04	3.11E+04	5.72E+04	8.82E+04	1.23E+05
622-96-8	Ethyltoluene, p-	L	2.53E+04	7.19E+04	2.04E+05	3.75E+05	5.79E+05	8.10E+05
7440-53-1	Europium	S	3.87E+04	1.10E+05	3.12E+05	5.74E+05	8.84E+05	1.24E+06
10138-01-9	Europium nitrate; (Europium trinitrate)	Pwd	7.73E+03	2.20E+04	6.23E+04	1.15E+05	1.77E+05	2.47E+05
10138-01-9	Europium nitrate; (Europium trinitrate)	S	7.73E+04	2.20E+05	6.23E+05	1.15E+06	1.77E+06	2.47E+06
22224-92-6	Fenamiphos	Pwd	6.19E+02	1.76E+03	4.99E+03	9.18E+03	1.42E+04	1.98E+04
22224-92-6	Fenamiphos	S	6.19E+03	1.76E+04	4.99E+04	9.18E+04	1.42E+05	1.98E+05
115-90-2	Fensulfothion	L	1.50E+08	4.26E+08	1.21E+09	2.22E+09	3.43E+09	4.80E+09
1185-57-5	Ferric ammonium citrate	cry Pwd	7.73E+03	2.20E+04	6.23E+04	1.15E+05	1.77E+05	2.47E+05
10138-04-2	Ferric ammonium sulfate	S	3.87E+03	1.10E+04	3.12E+04	5.74E+04	8.84E+04	1.24E+05
7705-08-0	Ferric chloride	S	3.09E+04	8.78E+04	2.49E+05	4.59E+05	7.08E+05	9.90E+05
7705-08-0	Ferric Chloride (<75%)	L	8.18E+03	2.32E+04	6.59E+04	1.21E+05	1.87E+05	2.62E+05
10025-77-1	Ferric chloride hexahydrate	Pwd	1.55E+03	4.39E+03	1.25E+04	2.29E+04	3.54E+04	4.95E+04
10025-77-1	Ferric chloride hexahydrate	S	1.55E+04	4.39E+04	1.25E+05	2.29E+05	3.54E+05	4.95E+05
7783-50-8	Ferric fluoride	cry Pwd	7.73E+03	2.20E+04	6.23E+04	1.15E+05	1.77E+05	2.47E+05
1309-33-7	Ferric hydroxide	S	6.19E+04	1.76E+05	4.99E+05	9.18E+05	1.42E+06	1.98E+06
10421-48-4	Ferric nitrate; (Iron salts, soluble)	S	1.55E+04	4.39E+04	1.25E+05	2.29E+05	3.54E+05	4.95E+05
7782-61-8	Ferric nitrate; (Iron(III) nitrate nonahydrate (1:3:9))	cry Pwd	7.73E+03	2.20E+04	6.23E+04	1.15E+05	1.77E+05	2.47E+05
10045-86-0	Ferric phosphate	Pwd	9.28E+02	2.63E+03	7.48E+03	1.38E+04	2.12E+04	2.97E+04
10028-22-5	Ferric sulfate; (Iron(III) sulfate)	Pwd	1.16E+03	3.29E+03	9.35E+03	1.72E+04	2.65E+04	3.71E+04
10028-22-5	Ferric sulfate; (Iron(III) sulfate)	S	1.16E+04	3.29E+04	9.35E+04	1.72E+05	2.65E+05	3.71E+05
10045-89-3	Ferrous ammonium sulfate	Cry Pwd	1.93E+03	5.49E+03	1.56E+04	2.87E+04	4.42E+04	6.19E+04
10045-89-3	Ferrous ammonium sulfate	S	1.93E+04	5.49E+04	1.56E+05	2.87E+05	4.42E+05	6.19E+05
7758-94-3	Ferrous chloride	S	3.09E+04	8.78E+04	2.49E+05	4.59E+05	7.08E+05	9.90E+05
18624-44-7	Ferrous hydroxide	S	6.19E+04	1.76E+05	4.99E+05	9.18E+05	1.42E+06	1.98E+06
14017-39-1	Ferrous sulfamate	S	3.87E+03	1.10E+04	3.12E+04	5.74E+04	8.84E+04	1.24E+05
14017-39-1	Ferrous Sulfamate 40%	L	1.34E+03	3.81E+03	1.08E+04	1.99E+04	3.07E+04	4.30E+04
7720-78-7	Ferrous sulfate	S	5.41E+04	1.54E+05	4.36E+05	8.03E+05	1.24E+06	1.73E+06
7720-78-7	Ferrous sulfate <16%	L	1.48E+04	4.21E+04	1.19E+05	2.20E+05	3.39E+05	4.74E+05
7782-63-0	Ferrous sulfate heptahydrate	S	7.73E+04	2.20E+05	6.23E+05	1.15E+06	1.77E+06	2.47E+06
12068-85-8	Ferrous sulfide; (Iron sulfide)	Cry Pwd	7.73E+02	2.20E+03	6.23E+03	1.15E+04	1.77E+04	2.47E+04
z-0035	Fiber glass	Cry Pwd	1.93E+03	5.49E+03	1.56E+04	2.87E+04	4.42E+04	6.19E+04
64742-65-0	Fisher Brand vacuum pump oil	L	3.18E+07	9.02E+07	2.56E+08	4.71E+08	7.27E+08	1.02E+09
4301-50-2	Fluenetil	Pwd	9.28E+01	2.63E+02	7.48E+02	1.38E+03	2.12E+03	2.97E+03
4301-50-2	Fluenetil	S	9.28E+02	2.63E+03	7.48E+03	1.38E+04	2.12E+04	2.97E+04
16872-11-0	Fluoboric acid; (Tetrafluoroboric acid)	L	3.41E+03	9.69E+03	2.75E+04	5.06E+04	7.81E+04	1.09E+05

206-44-0	Fluoranthene	S	7.73E+04	2.20E+05	6.23E+05	1.15E+06	1.77E+06	2.47E+06
86-73-7	Fluorene, 9H-	S	7.73E+04	2.20E+05	6.23E+05	1.15E+06	1.77E+06	2.47E+06
16984-48-8	Fluorides (as F)	L	3.50E+03	9.93E+03	2.82E+04	5.19E+04	8.00E+04	1.12E+05
16984-48-8	Fluorides (as F)	S	3.87E+04	1.10E+05	3.12E+05	5.74E+05	8.84E+05	1.24E+06
7782-41-4	Fluorine	G	4.81E+00	1.36E+01	3.87E+01	3.87E+01	1.10E+02	1.54E+02
LANL-00-75	Fluorine 5% in Neon	G	5.33E+01	1.51E+02	4.30E+02	7.91E+02	1.22E+03	1.71E+03
LANL-00-12	Fluorine 5-10% bal helium	G	9.37E+00	2.66E+01	7.55E+01	1.39E+02	2.14E+02	3.00E+02
86508-42-1	Fluorinert electronic liquid perfluoro compounds	L	5.17E+03	1.47E+04	4.16E+04	7.66E+04	1.18E+05	1.65E+05
403-19-0	Fluoro-4-nitrophenol, 2-	Cry Pwd	1.16E+03	3.29E+03	9.35E+03	1.72E+04	2.65E+04	3.71E+04
21571-34-6	Fluoro-4-nitrophenol, 2-	Cry Pwd	1.16E+03	3.29E+03	9.35E+03	1.72E+04	2.65E+04	3.71E+04
1526-17-6	Fluoro-6-nitrophenol, 2-	Cry Pwd	1.16E+03	3.29E+03	9.35E+03	1.72E+04	2.65E+04	3.71E+04
640-19-7	Fluoroacetamide	Pwd	8.97E+01	2.55E+02	7.23E+02	1.33E+03	2.05E+03	2.87E+03
640-19-7	Fluoroacetamide	S	8.97E+02	2.55E+03	7.23E+03	1.33E+04	2.05E+04	2.87E+04
62-74-8	Fluoroacetic acid,sodium salt; (Sodium fluoroacetate)	Pwd	3.87E+01	1.10E+02	3.12E+02	5.74E+02	8.84E+02	1.24E+03
62-74-8	Fluoroacetic acid,sodium salt; (Sodium fluoroacetate)	S	3.87E+02	1.10E+03	3.12E+03	5.74E+03	8.84E+03	1.24E+04
144-49-0	Fluoroacetic acid; (Fluoroethanoic acid)	S	3.09E+02	8.78E+02	2.49E+03	4.59E+03	7.08E+03	9.90E+03
144-49-0	Fluoroacetic acid; (Fluoroethanoic acid)	Pwd	3.09E+01	8.78E+01	2.49E+02	4.59E+02	7.08E+02	9.90E+02
359-06-8	Fluoroacetyl chloride	L	4.47E+01	1.27E+02	3.60E+02	6.63E+02	1.02E+03	1.43E+03
462-06-6	Fluorobenzene	L	2.96E+03	8.40E+03	2.39E+04	4.39E+04	6.77E+04	9.47E+04
z-0036	Fluoronitrophenol, 2-	S	1.16E+04	3.29E+04	9.35E+04	1.72E+05	2.65E+05	3.71E+05
420-56-4	Fluorotrimethylsilane [cyl = 100g]	L	3.76E+03	1.07E+04	3.03E+04	5.58E+04	8.60E+04	1.20E+05
51-21-8	Fluorouracil	L	3.86E+09	1.09E+10	3.11E+10	5.72E+10	8.82E+10	1.23E+11
51-21-8	Fluorouracil	S	1.55E+04	4.39E+04	1.25E+05	2.29E+05	3.54E+05	4.95E+05
51-21-8	Fluorouracil	Pwd	1.55E+03	4.39E+03	1.25E+04	2.29E+04	3.54E+04	4.95E+04
944-22-9	Fonofos	L	5.12E+08	1.45E+09	4.12E+09	7.59E+09	1.17E+10	1.64E+10
50-00-0	Formaldehyde (37% solution)	L	7.38E+01	2.09E+02	5.95E+02	1.00E+03	1.00E+03	1.00E+03
107-16-4	Formaldehyde cyanohydrin; (Hydroxyacetonitrile; Glycolonitrile)	L	6.97E+02	1.98E+03	5.61E+03	1.03E+04	1.59E+04	2.23E+04
75-12-7	Formamide	L	1.72E+04	4.88E+04	1.39E+05	2.55E+05	3.93E+05	5.50E+05
23422-53-9	Formetanate hydrochloride; (Diacetin)	Pwd	2.78E+02	7.90E+02	2.24E+03	4.13E+03	6.37E+03	8.91E+03
23422-53-9	Formetanate hydrochloride; (Diacetin)	S	2.78E+03	7.90E+03	2.24E+04	4.13E+04	6.37E+04	8.91E+04
64-18-6	Formic acid	L	2.79E+02	7.92E+02	2.25E+03	4.14E+03	6.38E+03	8.92E+03
1838-59-1	Formic acid, 2-propenyl ester; (Allyl formate)	L	7.04E+03	2.00E+04	5.67E+04	1.04E+05	1.61E+05	2.25E+05
592-84-7	Formic acid, butyl ester; (n-Butyl formate)	L	8.25E+03	2.34E+04	6.65E+04	1.22E+05	1.89E+05	2.64E+05
2540-82-1	Formothion	L	7.52E+08	2.14E+09	6.06E+09	1.12E+10	1.72E+10	2.41E+10
17702-57-7	Formparanate	Pwd	1.11E+02	3.16E+02	8.97E+02	1.65E+03	2.55E+03	3.56E+03
17702-57-7	Formparanate	S	1.11E+03	3.16E+03	8.97E+03	1.65E+04	2.55E+04	3.56E+04
21548-32-3	Fosthietan	L	4.32E+08	1.23E+09	3.48E+09	6.41E+09	9.89E+09	1.38E+10
3878-19-1	Fuberidazole	Pwd	1.93E+03	5.49E+03	1.56E+04	2.87E+04	4.42E+04	6.19E+04
3878-19-1	Fuberidazole	S	1.93E+04	5.49E+04	1.56E+05	2.87E+05	4.42E+05	6.19E+05

68476-33-5	Fuel oil (tank bottoms)	L	5.27E+06	1.50E+07	4.25E+07	7.82E+07	1.21E+08	1.69E+08
110-17-8	Fumaric acid	cry Pwd	7.73E+03	2.20E+04	6.23E+04	1.15E+05	1.77E+05	2.47E+05
110-00-9	Furan	L	7.02E+00	1.99E+01	5.65E+01	5.65E+01	1.61E+02	2.25E+02
98-01-1	Furancarboxyaldehyde, 2-; (Furfural)	L	3.85E+04	1.09E+05	3.10E+05	5.71E+05	8.81E+05	1.23E+06
614-99-3	Furancarboxylic acid, ethyl ester, 2-; (Ethyl furoate)	cry Pwd	2.22E+03	6.29E+03	1.78E+04	3.29E+04	5.07E+04	7.09E+04
98-00-0	Furfuryl alcohol	L	2.95E+04	8.39E+04	2.38E+05	4.38E+05	6.76E+05	9.45E+05
21259-20-1	Fusariotoxin T2; (T2-Trichothecene)	S	6.19E+01	1.76E+02	4.99E+02	9.18E+02	1.42E+03	1.98E+03
16469-18-4	Gadolinium hydroxide	Pwd	1.16E+03	3.29E+03	9.35E+03	1.72E+04	2.65E+04	3.71E+04
10168-81-7	Gadolinium nitrate, solid	S	7.73E+04	2.20E+05	6.23E+05	1.15E+06	1.77E+06	2.47E+06
z-0037	Gadolinium nitrite	S	1.16E+04	3.29E+04	9.35E+04	1.72E+05	2.65E+05	3.71E+05
12064-62-9	Gadolinium(III) oxide	Pwd	7.73E+03	2.20E+04	6.23E+04	1.15E+05	1.77E+05	2.47E+05
7440-55-3	Gallium	S	3.87E+04	1.10E+05	3.12E+05	5.74E+05	8.84E+05	1.24E+06
12024-21-4	Gallium oxide	Pwd	7.73E+03	2.20E+04	6.23E+04	1.15E+05	1.77E+05	2.47E+05
12024-21-4	Gallium oxide	Cry Pwd	7.73E+03	2.20E+04	6.23E+04	1.15E+05	1.77E+05	2.47E+05
7440-55-3	Gallium solution	L	1.80E+09	5.12E+09	1.45E+10	2.68E+10	4.13E+10	5.77E+10
13450-90-3	Gallium trichloride	L	1.10E+05	3.13E+05	8.88E+05	1.64E+06	2.52E+06	3.53E+06
13450-90-3	Gallium trichloride	Pwd	1.55E+03	4.39E+03	1.25E+04	2.29E+04	3.54E+04	4.95E+04
13450-90-3	Gallium trichloride	S	1.55E+04	4.39E+04	1.25E+05	2.29E+05	3.54E+05	4.95E+05
7783-51-9	Gallium trifluoride	Pwd	1.93E+03	5.49E+03	1.56E+04	2.87E+04	4.42E+04	6.19E+04
7783-51-9	Gallium trifluoride	S	1.93E+04	5.49E+04	1.56E+05	2.87E+05	4.42E+05	6.19E+05
8006-61-9	Gasoline	L	9.35E+04	2.65E+05	7.53E+05	1.39E+06	2.14E+06	2.99E+06
7782-65-2	Germane; (Germanium tetrahydride)	G	7.27E+01	2.06E+02	5.86E+02	1.08E+03	1.66E+03	2.33E+03
1310-53-8	Germanium oxide	Cry Pwd	7.73E+03	2.20E+04	6.23E+04	1.15E+05	1.77E+05	2.47E+05
1310-53-8	Germanium oxide	S	7.73E+04	2.20E+05	6.23E+05	1.15E+06	1.77E+06	2.47E+06
91310-53-8	Germanium Oxide	Cry Pwd	7.73E+03	2.20E+04	6.23E+04	1.15E+05	1.77E+05	2.47E+05
z-0038	Germanous acid	S	3.09E+04	8.78E+04	2.49E+05	4.59E+05	7.08E+05	9.90E+05
51811-82-6	Giemsa's stain; (... blood stain)	L	6.57E+03	1.87E+04	5.29E+04	9.75E+04	1.50E+05	2.10E+05
z-0039	Glass frit	S	1.93E+04	5.49E+04	1.56E+05	2.87E+05	4.42E+05	6.19E+05
50-99-7	Glucose, D- (Corn Sugar)	L	2.97E+09	8.43E+09	2.39E+10	4.40E+10	6.79E+10	9.50E+10
50-99-7	Glucose, D- (Corn Sugar)	S	7.27E+04	2.06E+05	5.86E+05	1.08E+06	1.66E+06	2.33E+06
111-30-8	Gluteraldehyde	L	2.17E+02	6.15E+02	1.75E+03	3.22E+03	4.96E+03	6.94E+03
56-81-5	Glycerine (mist); (Glycerol, glycerin)	L	9.12E+07	2.59E+08	7.35E+08	1.35E+09	2.08E+09	2.92E+09
31566-31-1	Glyceryl monostearate; (Octadecanoic acid with 1,2,3-propanetriol)	S	1.16E+04	3.29E+04	9.35E+04	1.72E+05	2.65E+05	3.71E+05
765-34-4	Glycidaldehyde	L	1.99E+02	5.66E+02	1.61E+03	2.96E+03	4.56E+03	6.38E+03
56-40-6	Glycine	Pwd	2.17E+03	6.15E+03	1.74E+04	3.21E+04	4.95E+04	6.93E+04
96-49-1	Glycol carbonate; (Ethylene carbonate)	L	2.14E+07	6.07E+07	1.72E+08	3.17E+08	4.89E+08	6.84E+08
79-14-1	Glycolic acid	S	1.16E+02	3.29E+02	9.35E+02	1.72E+03	2.65E+03	3.71E+03
26027-38-3	Glycols, polyethylene, mono(p-nonylphenyl) ether; (Nonoxynol-9)	L	2.95E+06	8.39E+06	2.38E+07	4.38E+07	6.76E+07	9.45E+07

26027-38-3	Glycols, polyethylene, mono(p-nonylphenyl) ether; (Nonoxynol-9)	S	9.28E+03	2.63E+04	7.48E+04	1.38E+05	2.12E+05	2.97E+05
107-22-2	Glyoxal	L	7.50E+00	2.13E+01	6.04E+01	1.11E+02	1.71E+02	2.40E+02
107-22-2	Glyoxal	L	1.02E+04	2.90E+04	8.23E+04	1.51E+05	2.34E+05	3.27E+05
107-22-2	Glyoxal	Cry Pwd	5.41E+01	1.54E+02	4.36E+02	8.03E+02	1.24E+03	1.73E+03
107-22-2	Glyoxal <40% solution	L	9.24E+01	2.62E+02	7.44E+02	1.37E+03	2.11E+03	2.96E+03
1310-14-1	Goethite; (Iron hydroxide oxide)	S	3.87E+04	1.10E+05	3.12E+05	5.74E+05	8.84E+05	1.24E+06
7440-57-5	Gold	S	1.55E+04	4.39E+04	1.25E+05	2.29E+05	3.54E+05	4.95E+05
7440-57-5	Gold	Pwd	1.55E+03	4.39E+03	1.25E+04	2.29E+04	3.54E+04	4.95E+04
7782-42-5	Graphite; (Carbon, CASRN 7440-44-0)	S	7.73E+04	2.20E+05	6.23E+05	1.15E+06	1.77E+06	2.47E+06
7782-42-5	Graphite; (Carbon, CASRN 7440-44-0)	Pwd	7.73E+03	2.20E+04	6.23E+04	1.15E+05	1.77E+05	2.47E+05
50-01-1	Guanidine Monohydrochloride	Cry Pwd	1.31E+02	3.73E+02	1.06E+03	1.95E+03	3.01E+03	4.21E+03
70-25-7	Guanidine, N-methyl-N'-nitro-N-nitroso-	Cry Pwd	6.19E+02	1.76E+03	4.99E+03	9.18E+03	1.42E+04	1.98E+04
7440-58-6	Hafnium metal	S	7.73E+03	2.20E+04	6.23E+04	1.15E+05	1.77E+05	2.47E+05
7440-58-6	Hafnium metal	Pwd	7.73E+02	2.20E+03	6.23E+03	1.15E+04	1.77E+04	2.47E+04
37230-85-6	Hafnium oxide	S	9.28E+03	2.63E+04	7.48E+04	1.38E+05	2.12E+05	2.97E+05
37230-85-6	Hafnium oxide	Pwd	9.28E+02	2.63E+03	7.48E+03	1.38E+04	2.12E+04	2.97E+04
12055-23-1	Hafnium(IV)oxide	cry Pwd	9.28E+02	2.63E+03	7.48E+03	1.38E+04	2.12E+04	2.97E+04
353-59-3	Halon 1211; (Bromochlorodifluoromethane)	L	4.87E+03	1.38E+04	3.92E+04	7.22E+04	1.11E+05	1.56E+05
353-59-3	Halon 1211; (Bromochlorodifluoromethane)	G	5.23E+03	1.48E+04	4.21E+04	7.75E+04	1.20E+05	1.67E+05
354-06-3	Halon 1301, (Trifluoro-1-bromo-2-chloroethane, (1,1,2-)	G	6.24E+03	1.77E+04	5.03E+04	9.26E+04	1.43E+05	2.00E+05
75-63-8	Halon 1301; (Bromotrifluoromethane)	G	6.24E+03	1.77E+04	5.03E+04	9.26E+04	1.43E+05	2.00E+05
13515-40-7	Hansa yellow	Pwd	3.87E+03	1.10E+04	3.12E+04	5.74E+04	8.84E+04	1.24E+05
505-60-2	HD vesicant; (Bis[2-chloroethyl]sulfide; Mustard gas)	L	2.31E+04	6.55E+04	1.86E+05	3.42E+05	5.28E+05	7.39E+05
7440-59-7	Helium	G	1.26E+04	3.59E+04	1.02E+05	1.88E+05	2.89E+05	4.05E+05
7440-59-7	Helium cryogenid liquid	L	8.76E+01	2.49E+02	7.06E+02	1.30E+03	2.00E+03	2.80E+03
517-28-2	Hematoxylin	L	1.26E+09	3.57E+09	1.01E+10	1.87E+10	2.88E+10	4.03E+10
517-28-2	Hematoxylin	S	3.87E+04	1.10E+05	3.12E+05	5.74E+05	8.84E+05	1.24E+06
517-28-2	Hematoxylin	Pwd	3.87E+03	1.10E+04	3.12E+04	5.74E+04	8.84E+04	1.24E+05
35822-46-9	HeptaCDD, 1,2,3,4,6,7,8-	L	5.50E+01	1.56E+02	4.44E+02	8.16E+02	1.26E+03	1.76E+03
35822-46-9	HeptaCDD, 1,2,3,4,6,7,8-	S	3.87E+02	1.10E+03	3.12E+03	5.74E+03	8.84E+03	1.24E+04
67562-39-4	HeptaCDF, 1,2,3,4,6,7,8-	S	9.28E+02	2.63E+03	7.48E+03	1.38E+04	2.12E+04	2.97E+04
55673-89-7	HeptaCDF, 1,2,3,4,7,8,9-	S	1.16E+03	3.29E+03	9.35E+03	1.72E+04	2.65E+04	3.71E+04
76-44-8	Heptachlor	S	5.41E+03	1.54E+04	4.36E+04	8.03E+04	1.24E+05	1.73E+05
1024-57-3	Heptachlor epoxide; (Epoxyheptachlor)	S	9.28E+02	2.63E+03	7.48E+03	1.38E+04	2.12E+04	2.97E+04
629-78-7	Heptadecane	L	6.98E+05	1.98E+06	5.62E+06	1.03E+07	1.60E+07	2.23E+07
629-78-7	Heptadecane	cry Pwd	2.28E+05	6.47E+05	1.84E+06	3.38E+06	5.22E+06	7.30E+06
335-36-4	Heptafluorotetrahydro-5-[nonafluorobutyl]-furan, 2,2,3,3,4,4,5-; (Fluorinert FC-75)	L	2.47E+03	7.01E+03	1.99E+04	3.66E+04	5.65E+04	7.90E+04
142-82-5	Heptane	L	4.48E+03	1.27E+04	3.61E+04	6.65E+04	1.02E+05	1.43E+05

111-70-6	Heptanol, 1-; (Heptyl alcohol)	L	6.87E+05	1.95E+06	5.54E+06	1.02E+07	1.57E+07	2.20E+07
13007-92-6	Hexacarbonylchromium; (Chromium hexacarbonyl)	S	1.93E+02	5.49E+02	1.56E+03	2.87E+03	4.42E+03	6.19E+03
39227-28-6	HexaCDD, 1,2,3,4,7,8-	L	8.81E+00	2.50E+01	7.10E+01	1.31E+02	2.01E+02	2.82E+02
39227-28-6	HexaCDD, 1,2,3,4,7,8-	S	6.19E+01	1.76E+02	4.99E+02	9.18E+02	1.42E+03	1.98E+03
19408-74-3	HexaCDD, 1,2,3,7,8,9- P-	S	7.73E+01	2.20E+02	6.23E+02	1.15E+03	1.77E+03	2.47E+03
72918-21-9	HexaCDF, 1,2,3,7,8,9-	S	6.19E+02	1.76E+03	4.99E+03	9.18E+03	1.42E+04	1.98E+04
118-74-1	Hexachlorobenzene	S	3.09E+04	8.78E+04	2.49E+05	4.59E+05	7.08E+05	9.90E+05
87-68-3	Hexachlorobutadiene	L	1.56E+05	4.43E+05	1.26E+06	2.32E+06	3.57E+06	5.00E+06
319-84-6	Hexachlorocyclohexane, alpha-; (alpha-Benzene hexachloride)	S	7.73E+04	2.20E+05	6.23E+05	1.15E+06	1.77E+06	2.47E+06
77-47-4	Hexachlorocylopentadiene	L	1.83E+02	5.19E+02	1.47E+03	2.71E+03	4.18E+03	5.85E+03
70648-26-9	Hexachlorodibenzofuran, 1,2,3,4,7,8-	L	6.33E+00	1.80E+01	5.10E+01	9.39E+01	1.45E+02	2.03E+02
70648-26-9	Hexachlorodibenzofuran, 1,2,3,4,7,8-	S	4.64E+01	1.32E+02	3.74E+02	6.88E+02	1.06E+03	1.48E+03
57117-44-9	Hexachlorodibenzofuran, 1,2,3,6,7,8-	S	1.16E+01	3.29E+01	9.35E+01	1.72E+02	2.65E+02	3.71E+02
60851-34-5	Hexachlorodibenzofuran, 2,3,4,6,7,8-	S	7.73E+00	2.20E+01	6.23E+01	1.15E+02	1.77E+02	2.47E+02
57653-85-7	Hexachlorodibenzo-p-dioxin, 1,2,3,4,7,8-	S	7.73E+01	2.20E+02	6.23E+02	1.15E+03	1.77E+03	2.47E+03
67-72-1	Hexachloroethane	Cry Pwd	4.49E+04	1.27E+05	3.62E+05	6.66E+05	1.03E+06	1.44E+06
67-72-1	Hexachloroethane	S	4.49E+05	1.27E+06	3.62E+06	6.66E+06	1.03E+07	1.44E+07
1335-87-1	Hexachloronaphthalene	S	3.09E+02	8.78E+02	2.49E+03	4.59E+03	7.08E+03	9.90E+03
70-30-4	Hexachlorophene	S	3.09E+04	8.78E+04	2.49E+05	4.59E+05	7.08E+05	9.90E+05
70-30-4	Hexachlorophene	Pwd	3.09E+03	8.78E+03	2.49E+04	4.59E+04	7.08E+04	9.90E+04
70-30-4	Hexachlorophene <3% solution or foam	L	4.58E+02	1.30E+03	3.69E+03	6.79E+03	1.05E+04	1.47E+04
1888-71-7	Hexachloropropene	L	5.03E+04	1.43E+05	4.05E+05	7.46E+05	1.15E+06	1.61E+06
544-76-3	Hexadecane	L	2.21E+05	6.28E+05	1.78E+06	3.28E+06	5.06E+06	7.08E+06
57-10-3	Hexadecanoic acid; (Palmitic acid)	S	7.73E+03	2.20E+04	6.23E+04	1.15E+05	1.77E+05	2.47E+05
36653-82-4	Hexadecanol, 1-	S	4.64E+04	1.32E+05	3.74E+05	6.88E+05	1.06E+06	1.48E+06
629-73-2	Hexadecene, 1-	L	8.62E+04	2.45E+05	6.95E+05	1.28E+06	1.97E+06	2.76E+06
684-16-2	Hexafluoroacetone	G	5.25E+01	1.49E+02	4.23E+02	4.23E+02	1.20E+03	1.68E+03
116-15-4	Hexafluoropropylene; (Hexafluoropropene)	G	4.74E+02	1.35E+03	3.82E+03	7.03E+03	1.08E+04	1.52E+04
541-05-9	Hexamethylcyclotrisiloxane	S	7.73E+04	2.20E+05	6.23E+05	1.15E+06	1.77E+06	2.47E+06
999-97-3	Hexamethyldisilazane	L	2.29E+04	6.51E+04	1.85E+05	3.40E+05	5.25E+05	7.34E+05
107-46-0	Hexamethyldisiloxane	L	2.25E+03	6.37E+03	1.81E+04	3.33E+04	5.13E+04	7.18E+04
28182-81-2	Hexamethylene diisocyanate polymer	L	2.29E+09	6.49E+09	1.84E+10	3.39E+10	5.23E+10	7.32E+10
28182-81-2	Hexamethylene diisocyanate polymer	S	7.73E+04	2.20E+05	6.23E+05	1.15E+06	1.77E+06	2.47E+06
822-06-0	Hexamethylene diisocyanate; (1,6-Diisocyanatohexane)	L	3.00E+04	8.51E+04	2.41E+05	4.45E+05	6.85E+05	9.59E+05
58713-21-6	Hexamethylenetetraamine hydrochloride (Dowcil)	S	3.87E+04	1.10E+05	3.12E+05	5.74E+05	8.84E+05	1.24E+06
58713-21-6	Hexamethylenetetraamine hydrochloride <0.1%	L	7.80E+03	2.21E+04	6.29E+04	1.16E+05	1.78E+05	2.50E+05
100-97-0	Hexamethylenetetraamine; (Methenamine)	S	7.73E+04	2.20E+05	6.23E+05	1.15E+06	1.77E+06	2.47E+06
100-97-0	Hexamethylenetetraamine; (Methenamine)	Cry Pwd	7.73E+03	2.20E+04	6.23E+04	1.15E+05	1.77E+05	2.47E+05
680-31-9	Hexamethylphosphoramide	L	9.14E+05	2.60E+06	7.37E+06	1.36E+07	2.09E+07	2.93E+07

66-25-1	Hexanal	L	5.10E+03	1.45E+04	4.11E+04	7.57E+04	1.17E+05	1.63E+05
110-54-3	Hexane	L	2.28E+03	6.47E+03	1.84E+04	3.38E+04	5.21E+04	7.30E+04
628-73-9	Hexanenitrile	L	4.83E+03	1.37E+04	3.89E+04	7.17E+04	1.10E+05	1.55E+05
142-62-1	Hexanoic acid (CAPROIC ACID)	L	9.16E+05	2.60E+06	7.38E+06	1.36E+07	2.09E+07	2.93E+07
111-27-3	Hexanol, n-; (n-Hexyl alcohol)	L	2.12E+04	6.03E+04	1.71E+05	3.15E+05	4.86E+05	6.79E+05
591-78-6	Hexanone, 2-; (Methyl n-butyl ketone)	L	4.80E+04	1.36E+05	3.87E+05	7.12E+05	1.10E+06	1.54E+06
589-38-8	Hexanone, 3-; (Ethyl propyl ketone)	L	1.09E+04	3.11E+04	8.81E+04	1.62E+05	2.50E+05	3.50E+05
592-41-6	Hexene, 1-	L	2.78E+01	7.89E+01	2.24E+02	4.12E+02	6.36E+02	8.89E+02
107-41-5	Hexylene glycol	L	2.31E+06	6.54E+06	1.86E+07	3.42E+07	5.27E+07	7.38E+07
2691-41-0	HMX ; (Cyclotetramethylene tetranitramine)	Cry Pwd	7.73E+03	2.20E+04	6.23E+04	1.15E+05	1.77E+05	2.47E+05
12055-62-8	Holmium trioxide	S	3.87E+04	1.10E+05	3.12E+05	5.74E+05	8.84E+05	1.24E+06
12055-62-8	Holmium trioxide	Pwd	3.87E+03	1.10E+04	3.12E+04	5.74E+04	8.84E+04	1.24E+05
z-0129	Hydranal coulomat / AG	L	2.83E+02	8.03E+02	2.28E+03	4.19E+03	6.47E+03	9.05E+03
302-01-2	Hydrazine	L	7.68E+02	2.18E+03	6.19E+03	1.14E+04	1.50E+04	1.50E+04
10217-52-4	Hydrazine hydrate, aequeous solutions	L	3.30E+00	9.38E+00	2.66E+01	4.90E+01	7.56E+01	1.06E+02
2644-70-4	Hydrazine hydrochloride; (Hydrazine monochloride)	S	7.73E+03	2.20E+04	6.23E+04	1.15E+05	1.77E+05	2.47E+05
7803-57-8	Hydrazine monohydrate	L	1.41E+03	4.00E+03	1.13E+04	2.09E+04	3.22E+04	4.50E+04
13464-97-6	Hydrazine nitrate; (Hydrazinium nitrate)	S	3.87E+03	1.10E+04	3.12E+04	5.74E+04	8.84E+04	1.24E+05
10034-93-2	Hydrazine sulfate	Cry Pwd	3.87E+03	1.10E+04	3.12E+04	5.74E+04	8.84E+04	1.24E+05
10034-93-2	Hydrazine sulfate	S	3.87E+04	1.10E+05	3.12E+05	5.74E+05	8.84E+05	1.24E+06
10034-93-2	Hydrazine sulfate	Pwd	3.87E+03	1.10E+04	3.12E+04	5.74E+04	8.84E+04	1.24E+05
10034-93-2	Hydrazine sulfate, 1% solution	L	2.17E+01	6.17E+01	1.75E+02	3.22E+02	4.97E+02	6.95E+02
10034-85-2	Hydriodic acid <70%	L	3.98E+02	1.13E+03	3.21E+03	5.90E+03	9.10E+03	1.27E+04
10034-85-2	Hydriodic acid 4 (as iodine), Hydrogen Iodide	G	4.04E+00	1.15E+01	3.26E+01	6.00E+01	9.25E+01	1.29E+02
10034-85-2	Hydriodic Acid 40-60%	L	3.17E+04	9.00E+04	2.55E+05	4.70E+05	7.25E+05	1.01E+06
10035-10-6	Hydrobromic acid; (Hydrogen bromide) [2L ~ 3.2kg]	G	1.53E+01	4.36E+01	1.24E+02	1.24E+02	3.51E+02	4.91E+02
68240-01-7	Hydrocarbon polymer	S	3.87E+04	1.10E+05	3.12E+05	5.74E+05	8.84E+05	1.24E+06
7647-01-0	Hydrochloric Acid; (greater than 37%)	L	3.03E+02	8.60E+02	2.44E+03	4.49E+03	6.92E+03	9.69E+03
7647-01-0	Hydrochloric Acid; (less than 37%)	L	3.03E+02	8.60E+02	2.44E+03	4.49E+03	6.92E+03	9.69E+03
69430-34-8	Hydrocount(R), LSC cocktail	L	4.46E+03	1.27E+04	3.59E+04	6.62E+04	1.02E+05	1.43E+05
69430-34-8	Hydrocount(R), LSC cocktail	S	3.87E+04	1.10E+05	3.12E+05	5.74E+05	8.84E+05	1.24E+06
1333-74-0	Hydrogen	G	5.24E+02	1.49E+03	4.22E+03	7.77E+03	1.20E+04	1.68E+04
LANL-00-41	hydrogen <6% bal Helium	G	7.34E+03	2.08E+04	5.92E+04	1.09E+05	1.68E+05	2.35E+05
LANL-00-34	hydrogen <6% bal nitrogen or argon	G	7.08E+04	2.01E+05	5.70E+05	1.05E+06	1.62E+06	2.26E+06
LANL-00-03	Hydrogen 0.075-20% , methane	G	4.00E+03	1.14E+04	3.22E+04	5.93E+04	9.15E+04	1.28E+05
LANL-00-57	Hydrogen 1.039, Oxygen 20.45, in nitrogen	G	1.01E+05	2.88E+05	8.16E+05	1.50E+06	2.32E+06	3.24E+06
10035-10-6	Hydrogen bromide Solution <65%	L	1.80E+03	5.00E+03	5.00E+03	5.00E+03	5.00E+03	5.00E+03
LANL-00-74	Hydrogen Chloride 5% in Neon	G	3.85E+02	1.09E+03	3.10E+03	5.71E+03	8.81E+03	1.23E+04
7647-01-0	Hydrogen chloride; (Hydrochloric acid) [2L ~1.5kg] (anhydrous)	G	3.46E+01	9.81E+01	2.79E+02	2.79E+02	7.91E+02	1.11E+03

1333-74-0	Hydrogen cryogenic liquid	L	2.17E-01	6.15E-01	1.74E+00	3.21E+00	4.95E+00	6.93E+00
74-90-8	Hydrogen cyanide, anhydrous	G	4.27E+00	1.21E+01	3.44E+01	3.44E+01	9.78E+01	1.37E+02
74-90-8	Hydrogen cyanide; (Hydrocyanic acid)	L	1.92E+01	5.44E+01	1.54E+02	1.54E+02	4.38E+02	6.13E+02
7664-39-3	Hydrogen fluoride; (Hydrofluoric acid) (50% and greater)	L	5.69E+02	1.00E+03	1.00E+03	1.00E+03	1.00E+03	1.00E+03
7664-39-3	Hydrogen fluoride; (Hydrofluoric acid) (anhydrous)	G	6.33E+00	1.80E+01	5.10E+01	5.10E+01	1.45E+02	2.02E+02
7664-39-3	Hydrogen fluoride; (Hydrofluoric acid) (less than 50%)	L	5.69E+02	1.62E+03	4.59E+03	8.44E+03	1.30E+04	1.82E+04
7722-84-1	Hydrogen peroxide (greater than 52% by wt)	L	7.14E+03	7.50E+03	7.50E+03	7.50E+03	7.50E+03	7.50E+03
7722-84-1	Hydrogen peroxide (less than 52% by wt)	L	7.14E+03	2.03E+04	5.75E+04	1.06E+05	1.63E+05	2.28E+05
7783-07-5	Hydrogen selenide	G	1.02E+00	2.91E+00	8.25E+00	8.25E+00	2.34E+01	3.28E+01
7783-06-4	Hydrogen sulfide	L	1.70E+00	4.83E+00	1.37E+01	1.37E+01	3.89E+01	5.45E+01
7783-06-4	Hydrogen sulfide [10L~6.8kg]	G	2.15E+01	6.12E+01	1.74E+02	1.74E+02	4.93E+02	6.89E+02
123-31-9	Hydroquinone	Pwd	7.73E+02	2.20E+03	6.23E+03	1.15E+04	1.77E+04	2.47E+04
123-31-9	Hydroquinone	S	7.73E+03	2.20E+04	6.23E+04	1.15E+05	1.77E+05	2.47E+05
64742-54-7	Hydrotreated (mild & severe) heavy paraffinic distillates	L	1.75E+08	4.98E+08	1.41E+09	2.60E+09	4.01E+09	5.61E+09
64742-46-7	Hydrotreated Middle Distillate (Petroleum base oil)	L	1.44E+10	4.09E+10	1.16E+11	2.14E+11	3.30E+11	4.61E+11
123-42-2	Hydroxy-4-methyl-2-pentanone, 4-; (Diacetone alcohol)	L	5.40E+05	1.53E+06	4.35E+06	8.01E+06	1.24E+07	1.73E+07
150-39-0	Hydroxyethylenediaminetriacetic acid, n-	S	2.32E+04	6.59E+04	1.87E+05	3.44E+05	5.31E+05	7.42E+05
2809-21-4	Hydroxyethylidine biphosphonic acid, 1-; (1-Hydroxyethylidene-1,1-diphosphonic acid)	S	7.73E+04	2.20E+05	6.23E+05	1.15E+06	1.77E+06	2.47E+06
2809-21-4	Hydroxyethylidine biphosphonic acid, 1-; (1-Hydroxyethylidene-1,1-diphosphonic acid) <15% solution	L	1.55E+04	4.40E+04	1.25E+05	2.30E+05	3.54E+05	4.96E+05
7803-49-8	Hydroxylamine	L	7.87E+02	2.23E+03	2.50E+03	2.50E+03	2.50E+03	2.50E+03
7803-49-8	Hydroxylamine	Pwd	3.87E+02	1.10E+03	2.50E+03	2.50E+03	2.50E+03	2.50E+03
5470-11-1	Hydroxylamine chloride (<0.2%)	L	6.55E+02	1.86E+03	5.28E+03	9.72E+03	1.50E+04	2.10E+04
5470-11-1	Hydroxylamine chloride; (Hydroxylamine hydrochloride)	S	9.28E+03	2.63E+04	7.48E+04	1.38E+05	2.12E+05	2.97E+05
5470-11-1	Hydroxylamine chloride; (Hydroxylamine hydrochloride)	Cry Pwd	9.28E+02	2.63E+03	7.48E+03	1.38E+04	2.12E+04	2.97E+04
13465-08-2	Hydroxylamine nitrate	S	2.32E+04	6.59E+04	1.87E+05	3.44E+05	5.31E+05	7.42E+05
13465-08-2	Hydroxylamine nitrate <24%	L	3.23E+03	9.16E+03	2.60E+04	4.79E+04	7.38E+04	1.03E+05
10039-54-0	Hydroxylamine sulfate; (Oxammonium sulfate)	Cry Pwd	6.19E+03	1.76E+04	4.99E+04	9.18E+04	1.42E+05	1.98E+05
10039-54-0	Hydroxylamine sulfate; (Oxammonium sulfate)	S	6.19E+04	1.76E+05	4.99E+05	9.18E+05	1.42E+06	1.98E+06
6303-21-5	Hypophosphorus acid; (Phosphinic acid)	Pwd	3.87E+03	1.10E+04	3.12E+04	5.74E+04	8.84E+04	1.24E+05
6303-21-5	Hypophosphorus Acid; (Phosphinic acid) [<50% solution]	L	3.98E+03	1.13E+04	3.21E+04	5.91E+04	9.11E+04	1.28E+05
9036-19-5	Iconol(R)	L	1.70E+05	4.83E+05	1.37E+06	2.52E+06	3.89E+06	5.44E+06

288-32-4	Imidazole	cry Pwd	6.19E+01	1.76E+02	4.99E+02	9.18E+02	1.42E+03	1.98E+03
142-73-4	Iminodiacetic acid	S	1.55E+04	4.39E+04	1.25E+05	2.29E+05	3.54E+05	4.95E+05
142-73-4	Iminodiacetic acid <10% solution	L	2.21E+03	6.27E+03	1.78E+04	3.27E+04	5.05E+04	7.06E+04
496-11-7	Indan	L	1.65E+04	4.68E+04	1.33E+05	2.44E+05	3.77E+05	5.27E+05
95-13-6	Indene	L	8.16E+04	2.32E+05	6.58E+05	1.21E+06	1.87E+06	2.61E+06
193-39-5	Indeno(1,2,3-cd)pyrene	cry Pwd	2.32E+02	6.59E+02	1.87E+03	3.44E+03	5.31E+03	7.42E+03
860-22-0	Indigo carmine; (FD&C blue No 2)	Pwd	1.16E+03	3.29E+03	9.35E+03	1.72E+04	2.65E+04	3.71E+04
860-22-0	Indigo carmine; (FD&C blue No 2)	S	1.16E+04	3.29E+04	9.35E+04	1.72E+05	2.65E+05	3.71E+05
7440-74-6	Indium	Cry Pwd	1.08E+00	3.07E+00	8.72E+00	1.61E+01	2.48E+01	3.46E+01
10025-82-8	Indium trichloride	S	1.55E+02	4.39E+02	1.25E+03	2.29E+03	3.54E+03	4.95E+03
1312-43-2	Indium(III) oxide	Cry Pwd	7.73E+03	2.20E+04	6.23E+04	1.15E+05	1.77E+05	2.47E+05
487-89-8	Indole-3-carboxaldehyde, iH-; (3-Formylindole)	Pwd	6.88E+03	1.95E+04	5.55E+04	1.02E+05	1.57E+05	2.20E+05
7782-68-5	Iodic acid (as iodine)	Cry Pwd	3.87E+01	1.10E+02	3.12E+02	5.74E+02	8.84E+02	1.24E+03
7553-56-2	Iodine	S	8.02E+03	2.28E+04	6.46E+04	1.19E+05	1.83E+05	2.57E+05
7553-56-2	Iodine	Pwd	8.02E+02	2.28E+03	6.46E+03	1.19E+04	1.83E+04	2.57E+04
17144-19-3	Iodine 125	L	1.36E+02	3.87E+02	1.10E+03	2.02E+03	3.12E+03	4.36E+03
7553-56-2	Iodine Liquid	L	3.72E+04	1.06E+05	3.00E+05	5.52E+05	8.51E+05	1.19E+06
25655-41-8	IODINE- POVIDINE	Pwd	1.93E+03	5.49E+03	1.56E+04	2.87E+04	4.42E+04	6.19E+04
25655-41-8	Iodine solutions; (Todine solutions) POVIDINE-IODINE	L	3.79E+04	1.07E+05	3.05E+05	5.61E+05	8.66E+05	1.21E+06
7439-89-6	Iron (Iron Carbonyl)	Pwd	7.73E+03	2.20E+04	6.23E+04	1.15E+05	1.77E+05	2.47E+05
7439-89-6	Iron (Iron Carbonyl)	S	7.73E+04	2.20E+05	6.23E+05	1.15E+06	1.77E+06	2.47E+06
12011-67-5	Iron carbide	S	1.93E+04	5.49E+04	1.56E+05	2.87E+05	4.42E+05	6.19E+05
20344-49-4	Iron hydroxide oxide	Cry Pwd	5.41E+03	1.54E+04	4.36E+04	8.03E+04	1.24E+05	1.73E+05
1309-37-1	Iron oxide; (Ferric oxide)	Cry Pwd	7.73E+03	2.20E+04	6.23E+04	1.15E+05	1.77E+05	2.47E+05
1309-37-1	Iron oxide; (Ferric oxide)	Pwd	7.73E+03	2.20E+04	6.23E+04	1.15E+05	1.77E+05	2.47E+05
13463-40-6	Iron pentacarbonyl	L	1.63E+01	4.62E+01	1.31E+02	1.31E+02	2.50E+02	2.50E+02
13463-40-6	Iron pentacarbonyl	L	7.30E+01	2.07E+02	2.50E+02	2.50E+02	2.50E+02	2.50E+02
13478-10-9	Iron(II) chloride tetrahydrate	Cry Pwd	6.19E+02	1.76E+03	4.99E+03	9.18E+03	1.42E+04	1.98E+04
123-92-2	Isoamyl acetate; (Isopentyl acetate)	L	5.88E+04	1.67E+05	4.74E+05	8.72E+05	1.34E+06	1.88E+06
123-51-3	Isoamyl alcohol (primary) (3-METHYL-1-BUTANOL)	L	4.78E+03	1.36E+04	3.85E+04	7.10E+04	1.09E+05	1.53E+05
584-02-1	Isoamyl alcohol (secondary) (3-PENTANOL)	L	1.32E+05	3.74E+05	1.06E+06	1.96E+06	3.02E+06	4.22E+06
110-46-3	Isoamylnitrite; (Isopentyl nitrite)	L	3.61E+03	1.02E+04	2.91E+04	5.35E+04	8.25E+04	1.15E+05
463-04-7	Isoamylnitrite; (Isopentyl nitrite)	L	1.17E+03	3.33E+03	9.45E+03	1.74E+04	2.68E+04	3.75E+04
297-78-9	Isobenzan	Pwd	3.09E+01	8.78E+01	2.49E+02	4.59E+02	7.08E+02	9.90E+02
297-78-9	Isobenzan	S	3.09E+02	8.78E+02	2.49E+03	4.59E+03	7.08E+03	9.90E+03
110-19-0	Isobutyl acetate	L	3.91E+04	1.11E+05	3.15E+05	5.79E+05	8.93E+05	1.25E+06
78-83-1	Isobutyl alcohol	L	4.37E+04	1.24E+05	3.52E+05	6.48E+05	9.99E+05	1.40E+06
97-85-8	Isobutyl isobutyrate	L	1.75E+04	4.97E+04	1.41E+05	2.60E+05	4.00E+05	5.60E+05
78-81-9	Isobutylamine	L	6.31E+01	1.79E+02	5.09E+02	9.36E+02	1.44E+03	2.02E+03
78-84-2	Isobutyraldehyde	L	2.40E+03	6.80E+03	1.93E+04	3.56E+04	5.48E+04	7.67E+04

79-31-2	Isobutyric acid	L	1.05E+04	2.99E+04	8.50E+04	1.56E+05	2.41E+05	3.37E+05
78-82-0	Isobutyronitrile	L	1.68E+03	4.76E+03	1.35E+04	2.00E+04	2.00E+04	2.00E+04
z-0040	Isocyanate-bearing waste (as CNs N.O.S.)	L	4.88E+02	1.38E+03	3.93E+03	7.24E+03	1.12E+04	1.56E+04
30674-80-7	Isocyanatoethyl methacrylate, 2-	L	1.00E+02	1.00E+02	1.00E+02	1.00E+02	1.00E+02	1.00E+02
102-36-3	Isocyanic acid-3,4-dichlorophenyl ester; (3,4-Dichlorophenyl isocyanate)	S	7.73E+04	2.20E+05	6.23E+05	1.15E+06	1.77E+06	2.47E+06
102-36-3	Isocyanic acid-3,4-dichlorophenyl ester; (3,4-Dichlorophenyl isocyanate)	Pwd	7.73E+03	2.20E+04	6.23E+04	1.15E+05	1.77E+05	2.47E+05
465-73-6	Isodrin	Pwd	1.08E+02	3.07E+02	8.72E+02	1.61E+03	2.48E+03	3.46E+03
465-73-6	Isodrin	S	1.08E+03	3.07E+03	8.72E+03	1.61E+04	2.48E+04	3.46E+04
540-84-1	Isooctane; (2,2,4-Trimethylpentane)	L	4.20E+03	1.19E+04	3.38E+04	6.23E+04	9.60E+04	1.34E+05
64047-30-9	Isooctane; (Trimethyl-2-oxepanone)	L	4.20E+03	1.19E+04	3.38E+04	6.23E+04	9.60E+04	1.34E+05
78-78-4	Isopentane; (Ethyldimethylmethane; 2-Methyl-butane)	L	1.23E+04	3.49E+04	9.90E+04	1.82E+05	2.81E+05	3.93E+05
78-59-1	Isophorone	L	7.37E+04	2.09E+05	5.93E+05	1.09E+06	1.68E+06	2.36E+06
4098-71-9	Isophorone diisocyanate	L	2.85E+08	8.10E+08	2.30E+09	4.23E+09	6.52E+09	9.13E+09
78-79-5	Isoprene	L	1.65E+04	4.69E+04	1.33E+05	2.45E+05	3.78E+05	5.29E+05
108-21-4	Isopropyl acetate	L	1.32E+04	3.75E+04	1.07E+05	1.96E+05	3.02E+05	4.23E+05
67-63-0	Isopropyl alcohol (PROPANOL-(2))	L	1.39E+04	3.93E+04	1.12E+05	2.06E+05	3.17E+05	4.43E+05
75-29-6	Isopropyl chloride; (2-Chloropropane)	L	1.32E+04	3.74E+04	1.06E+05	1.95E+05	3.01E+05	4.22E+05
108-23-6	Isopropyl chloroformate; (Isopropyl chlorocarbonate)	L	1.42E+02	4.04E+02	1.15E+03	2.11E+03	3.26E+03	4.56E+03
108-20-3	Isopropyl ether; (Diisopropyl ether)	L	2.89E+03	8.20E+03	2.33E+04	4.28E+04	6.60E+04	9.24E+04
107-44-8	Isopropyl methanefluorophosphonate; (Sarin; GB)	L	1.00E+02	1.00E+02	1.00E+02	1.00E+02	1.00E+02	1.00E+02
546-68-9	Isopropyl titanate(IV); (Titanium(IV) isopropoxide)	L	8.74E+03	2.48E+04	7.04E+04	1.30E+05	2.00E+05	2.80E+05
75-31-0	Isopropylamine; (2-Propanamine)	L	4.78E+02	1.36E+03	3.85E+03	5.00E+03	5.00E+03	5.00E+03
1068-55-9	Isopropylmagnesium chloride; (Chloro [1-methylethyl] magnesium)	L	1.69E+03	4.80E+03	1.36E+04	2.51E+04	3.87E+04	5.41E+04
119-38-0	Isopropylmethylpyrazolyl dimethylcarbamate; (Isolan)	L	2.64E+06	7.49E+06	2.12E+07	3.91E+07	6.03E+07	8.44E+07
8008-20-6	Jet fuels (JP-5 and JP-8) (as Kerosene)	L	5.60E+05	1.59E+06	4.51E+06	8.31E+06	1.28E+07	1.79E+07
143-50-0	Kepone; (Chlordecone)	S	6.19E+03	1.76E+04	4.99E+04	9.18E+04	1.42E+05	1.98E+05
8008-20-6	Kerosene	L	2.62E+04	7.43E+04	2.11E+05	3.88E+05	5.98E+05	8.37E+05
463-51-4	Ketene; (Carbomethene, Ethenone)	G	1.33E+00	3.77E+00	1.07E+01	1.07E+01	3.04E+01	4.25E+01
50-21-5	Lactic acid	L	1.15E+04	3.26E+04	9.27E+04	1.71E+05	2.63E+05	3.68E+05
78-97-7	Lactonitrile	L	3.80E+05	1.08E+06	3.06E+06	5.63E+06	8.68E+06	1.21E+07
7439-91-0	Lanthanum	S	3.87E+04	1.10E+05	3.12E+05	5.74E+05	8.84E+05	1.24E+06
z-0042	Lanthanum alizarin (as La)	S	3.87E+04	1.10E+05	3.12E+05	5.74E+05	8.84E+05	1.24E+06
6487394	Lanthanum carbonate	Cry Pwd	3.87E+03	1.10E+04	3.12E+04	5.74E+04	8.84E+04	1.24E+05
13709-38-1	Lanthanum fluoride	Pwd	3.87E+03	1.10E+04	3.12E+04	5.74E+04	8.84E+04	1.24E+05
14507-19-8	Lanthanum hydroxide	Cry Pwd	3.87E+01	1.10E+02	3.12E+02	5.74E+02	8.84E+02	1.24E+03

10099-59-9	Lanthanum nitrate	S	7.73E+04	2.20E+05	6.23E+05	1.15E+06	1.77E+06	2.47E+06
10099-59-9	Lanthanum nitrate <3% solution	L	2.74E+04	7.79E+04	2.21E+05	4.07E+05	6.27E+05	8.78E+05
1312-81-8	Lanthanum oxide	Pwd	7.73E+03	2.20E+04	6.23E+04	1.15E+05	1.77E+05	2.47E+05
14913-14-5	Lanthanum phosphate	Pwd	4.64E+01	1.32E+02	3.74E+02	6.88E+02	1.06E+03	1.48E+03
7439-92-1	Lead	S	1.55E+04	4.39E+04	1.25E+05	2.29E+05	3.54E+05	4.95E+05
7439-92-1	Lead	Pwd	1.55E+03	4.39E+03	1.25E+04	2.29E+04	3.54E+04	4.95E+04
1335-32-6	Lead acetate basic; (Lead subacetate)	Pwd	1.93E+03	5.49E+03	1.56E+04	2.87E+04	4.42E+04	6.19E+04
301-04-2	Lead acetate; (Lead diacetate)	Pwd	2.32E+03	6.59E+03	1.87E+04	3.44E+04	5.31E+04	7.42E+04
7784-40-9	Lead acid arsenate; (Dibasic lead arsenate)	S	2.32E+04	6.59E+04	1.87E+05	3.44E+05	5.31E+05	7.42E+05
3687-31-8	Lead arsenate	S	4.64E+03	1.32E+04	3.74E+04	6.88E+04	1.06E+05	1.48E+05
10102-48-4	Lead arsenate as Pb (ARSENIC ACID, LEAD(IV) SALT)	S	4.64E+03	1.32E+04	3.74E+04	6.88E+04	1.06E+05	1.48E+05
10031-22-8	Lead bromide	S	2.32E+04	6.59E+04	1.87E+05	3.44E+05	5.31E+05	7.42E+05
10031-22-8	Lead bromide	Pwd	2.32E+03	6.59E+03	1.87E+04	3.44E+04	5.31E+04	7.42E+04
598-63-0	Lead carbonate	Cry Pwd	7.73E+03	2.20E+04	6.23E+04	1.15E+05	1.77E+05	2.47E+05
7758-95-4	Lead chloride	S	1.93E+04	5.49E+04	1.56E+05	2.87E+05	4.42E+05	6.19E+05
7758-95-4	Lead chloride	Pwd	1.93E+03	5.49E+03	1.56E+04	2.87E+04	4.42E+04	6.19E+04
7758-97-6	Lead chromate	S	1.16E+04	3.29E+04	9.35E+04	1.72E+05	2.65E+05	3.71E+05
7758-97-6	Lead chromate	Pwd	1.16E+03	3.29E+03	9.35E+03	1.72E+04	2.65E+04	3.71E+04
1309-60-0	Lead dioxide	Cry Pwd	1.55E+03	4.39E+03	1.25E+04	2.29E+04	3.54E+04	4.95E+04
1309-60-0	Lead dioxide	S	1.55E+04	4.39E+04	1.25E+05	2.29E+05	3.54E+05	4.95E+05
13814-96-5	Lead fluoborate	Cry Pwd	2.32E+03	6.59E+03	1.87E+04	3.44E+04	5.31E+04	7.42E+04
13814-96-5	Lead fluoborate 50% solution	L	1.39E+04	3.95E+04	1.12E+05	2.06E+05	3.18E+05	4.45E+05
7783-46-2	Lead fluoride	Pwd	1.55E+03	4.39E+03	1.25E+04	2.29E+04	3.54E+04	4.95E+04
7783-46-2	Lead fluoride	S	1.55E+04	4.39E+04	1.25E+05	2.29E+05	3.54E+05	4.95E+05
19783-14-3	Lead hydroxide	Pwd	2.32E+01	6.59E+01	1.87E+02	3.44E+02	5.31E+02	7.42E+02
10101-63-0	Lead iodide	Pwd	3.09E+03	8.78E+03	2.49E+04	4.59E+04	7.08E+04	9.90E+04
10101-63-0	Lead iodide	S	3.09E+04	8.78E+04	2.49E+05	4.59E+05	7.08E+05	9.90E+05
10099-74-8	Lead nitrate	L	7.54E+08	2.14E+09	6.07E+09	1.12E+10	1.72E+10	2.41E+10
10099-74-8	Lead nitrate	S	2.32E+04	6.59E+04	1.87E+05	3.44E+05	5.31E+05	7.42E+05
13826-65-8	Lead nitrite	S	2.32E+02	6.59E+02	1.87E+03	3.44E+03	5.31E+03	7.42E+03
814-93-7	Lead oxalate	S	2.32E+02	6.59E+02	1.87E+03	3.44E+03	5.31E+03	7.42E+03
1317-36-8	Lead oxide; (Lead monoxide)	S	1.55E+04	4.39E+04	1.25E+05	2.29E+05	3.54E+05	4.95E+05
1317-36-8	Lead oxide; (Lead monoxide)	Pwd	1.55E+03	4.39E+03	1.25E+04	2.29E+04	3.54E+04	4.95E+04
7446-27-7	Lead phosphate	Cry Pwd	2.32E+03	6.59E+03	1.87E+04	3.44E+04	5.31E+04	7.42E+04
7446-14-2	Lead sulfate	S	2.32E+04	6.59E+04	1.87E+05	3.44E+05	5.31E+05	7.42E+05
7446-14-2	Lead sulfate	Pwd	2.32E+03	6.59E+03	1.87E+04	3.44E+04	5.31E+04	7.42E+04
1314-87-0	Lead sulfide	Cry Pwd	7.73E+03	2.20E+04	6.23E+04	1.15E+05	1.77E+05	2.47E+05
1314-41-6	Lead tetroxide	S	1.55E+04	4.39E+04	1.25E+05	2.29E+05	3.54E+05	4.95E+05
1314-41-6	Lead tetroxide	Pwd	1.55E+03	4.39E+03	1.25E+04	2.29E+04	3.54E+04	4.95E+04
10031-13-7	Lead(II) arsenite	S	1.93E+03	5.49E+03	1.56E+04	2.87E+04	4.42E+04	6.19E+04
6080-56-4	Lead,bis(acetato)trihydroxytri- (as Pb)	Pwd	2.32E+03	6.59E+03	1.87E+04	3.44E+04	5.31E+04	7.42E+04

6080-56-4	Lead,bis(acetato)trihydroxytri- (as Pb)	S	2.32E+04	6.59E+04	1.87E+05	3.44E+05	5.31E+05	7.42E+05
z-0133	Leco set 7007	L	4.70E+03	1.33E+04	3.79E+04	6.97E+04	1.07E+05	1.50E+05
21609-90-5	Leptophos	S	4.64E+03	1.32E+04	3.74E+04	6.88E+04	1.06E+05	1.48E+05
21609-90-5	Leptophos	Pwd	4.64E+02	1.32E+03	3.74E+03	6.88E+03	1.06E+04	1.48E+04
541-25-3	Lewisite; (Chlorovinylarsine dichloride)	L	9.54E+03	2.71E+04	7.69E+04	1.42E+05	2.18E+05	3.05E+05
8062-15-5	Lignosulfonate (aqueous)	L	1.46E+04	4.15E+04	1.18E+05	2.17E+05	3.35E+05	4.68E+05
138-86-3	Limonene (WEEL)	L	1.08E+05	3.06E+05	8.68E+05	1.60E+06	2.46E+06	3.45E+06
5989-27-5	Limonene, d-	L	1.08E+05	3.06E+05	8.68E+05	1.60E+06	2.46E+06	3.45E+06
58-89-9	Lindane; (gamma-benzenehexachloride)	S	7.73E+03	2.20E+04	6.23E+04	1.15E+05	1.77E+05	2.47E+05
58-89-9	Lindane; (gamma-benzenehexachloride)	Pwd	7.73E+02	2.20E+03	6.23E+03	1.15E+04	1.77E+04	2.47E+04
8001-26-1	Linseed oil	L	4.01E+07	1.14E+08	3.23E+08	5.95E+08	9.17E+08	1.28E+09
68476-85-7	Liquified petroleum gas; (L.P.G.)	G	5.38E+02	1.53E+03	4.34E+03	7.99E+03	1.23E+04	1.72E+04
7439-93-2	Lithium	S	6.19E+04	1.76E+05	4.99E+05	9.18E+05	1.42E+06	1.98E+06
7439-93-2	Lithium	Pwd	6.19E+03	1.76E+04	4.99E+04	9.18E+04	1.42E+05	1.98E+05
11089-89-7	Lithium aluminum oxide; (Lithium aluminate)	Pwd	3.87E+03	1.10E+04	3.12E+04	5.74E+04	8.84E+04	1.24E+05
12003-67-7	Lithium aluminum oxide; (Lithium aluminate)	S	3.87E+04	1.10E+05	3.12E+05	5.74E+05	8.84E+05	1.24E+06
12003-67-7	Lithium aluminum oxide; (Lithium aluminate)	Pwd	3.87E+03	1.10E+04	3.12E+04	5.74E+04	8.84E+04	1.24E+05
12068-40-5	Lithium aluminum silicate; (Spodumene (mineral))	S	7.73E+03	2.20E+04	6.23E+04	1.15E+05	1.77E+05	2.47E+05
1302-66-5	Lithium aluminum silicate; (Spodumene (mineral))	S	7.73E+03	2.20E+04	6.23E+04	1.15E+05	1.77E+05	2.47E+05
19597-69-4	Lithium azide	Pwd	1.55E+02	4.39E+02	1.25E+03	2.29E+03	3.54E+03	4.95E+03
19597-69-4	Lithium azide	S	1.55E+03	4.39E+03	1.25E+04	2.29E+04	3.54E+04	4.95E+04
19597-69-4	Lithium azide <20% solution	L	1.67E+02	4.75E+02	1.35E+03	2.48E+03	3.83E+03	5.35E+03
7550-35-8	Lithium bromide	S	7.73E+04	2.20E+05	6.23E+05	1.15E+06	1.77E+06	2.47E+06
7550-35-8	Lithium bromide	Pwd	7.73E+03	2.20E+04	6.23E+04	1.15E+05	1.77E+05	2.47E+05
7550-35-8	Lithium bromide <54% solution	L	8.80E+05	2.50E+06	7.09E+06	1.31E+07	2.01E+07	2.82E+07
554-13-2	Lithium carbonate	Cry Pwd	3.09E+03	8.78E+03	2.49E+04	4.59E+04	7.08E+04	9.90E+04
554-13-2	Lithium carbonate	Pwd	3.09E+03	8.78E+03	2.49E+04	4.59E+04	7.08E+04	9.90E+04
7447-41-8	Lithium Chloride	Cry Pwd	1.47E+02	4.17E+02	1.18E+03	2.18E+03	3.36E+03	4.70E+03
7447-41-8	Lithium Chloride <5%	L	1.74E+02	4.93E+02	1.40E+03	2.58E+03	3.97E+03	5.56E+03
14307-35-8	Lithium chromate	Cry Pwd	3.09E+02	8.78E+02	2.49E+03	4.59E+03	7.08E+03	9.90E+03
13587-16-1	Lithium deuteride	S	7.73E+01	2.20E+02	6.23E+02	1.15E+03	1.77E+03	2.47E+03
7789-24-4	Lithium fluoride	S	5.41E+04	1.54E+05	4.36E+05	8.03E+05	1.24E+06	1.73E+06
7789-24-4	Lithium fluoride	Pwd	5.41E+03	1.54E+04	4.36E+04	8.03E+04	1.24E+05	1.73E+05
7580-67-8	Lithium hydride	S	7.73E+01	2.20E+02	6.23E+02	1.15E+03	1.77E+03	2.47E+03
7580-67-8	Lithium hydride	Pwd	7.73E+00	2.20E+01	6.23E+01	1.15E+02	1.77E+02	2.47E+02
1310-65-2	Lithium hydroxide	Pwd	1.55E+03	4.39E+03	1.25E+04	2.29E+04	3.54E+04	4.95E+04
1310-65-2	Lithium hydroxide	S	1.55E+04	4.39E+04	1.25E+05	2.29E+05	3.54E+05	4.95E+05
13453-69-5	Lithium metaborate	Pwd	3.87E+03	1.10E+04	3.12E+04	5.74E+04	8.84E+04	1.24E+05
1303-94-2	Lithium metaborate, anhydrous	Pwd	3.87E+03	1.10E+04	3.12E+04	5.74E+04	8.84E+04	1.24E+05
z-0046	Lithium molybdate	Cry Pwd	3.09E+03	8.78E+03	2.49E+04	4.59E+04	7.08E+04	9.90E+04
12031-63-9	Lithium niobate oxide; (Lithium niobate)	Pwd	7.73E+03	2.20E+04	6.23E+04	1.15E+05	1.77E+05	2.47E+05
7790-69-4	Lithium nitrate	Pwd	1.55E+02	4.39E+02	1.25E+03	2.29E+03	3.54E+03	4.95E+03

7790-69-4	Lithium nitrate	S	1.55E+03	4.39E+03	1.25E+04	2.29E+04	3.54E+04	4.95E+04
26134-62-3	Lithium nitride	Pwd	1.55E+02	4.39E+02	1.25E+03	2.29E+03	3.54E+03	4.95E+03
26134-62-3	Lithium nitride	S	1.55E+03	4.39E+03	1.25E+04	2.29E+04	3.54E+04	4.95E+04
z-0047	Lithium nitrite	S	6.19E+03	1.76E+04	4.99E+04	9.18E+04	1.42E+05	1.98E+05
10377-48-7	Lithium sulfate	Pwd	7.73E+03	2.20E+04	6.23E+04	1.15E+05	1.77E+05	2.47E+05
10377-48-7	Lithium sulfate	S	7.73E+04	2.20E+05	6.23E+05	1.15E+06	1.77E+06	2.47E+06
10377-48-7	Lithium sulfate	Gran pwd	7.73E+03	2.20E+04	6.23E+04	1.15E+05	1.77E+05	2.47E+05
12007-60-2	Lithium tetraborate	Pwd	3.87E+03	1.10E+04	3.12E+04	5.74E+04	8.84E+04	1.24E+05
12007-60-2	Lithium tetraborate	Cry Pwd	3.87E+03	1.10E+04	3.12E+04	5.74E+04	8.84E+04	1.24E+05
12032-20-1	Lutetium oxide	Pwd	3.87E+03	1.10E+04	3.12E+04	5.74E+04	8.84E+04	1.24E+05
12032-20-1	Lutetium oxide	S	3.87E+04	1.10E+05	3.12E+05	5.74E+05	8.84E+05	1.24E+06
z-0134	Machine coolant 1	L	4.88E+03	1.38E+04	3.93E+04	7.24E+04	1.12E+05	1.56E+05
7439-95-4	Magnesium	Pwd	3.87E+03	1.10E+04	3.12E+04	5.74E+04	8.84E+04	1.24E+05
7439-95-4	Magnesium	S	3.87E+04	1.10E+05	3.12E+05	5.74E+05	8.84E+05	1.24E+06
546-93-0	Magnesium carbonate; (Magnesite)	Cry Pwd	3.87E+03	1.10E+04	3.12E+04	5.74E+04	8.84E+04	1.24E+05
7786-30-3	Magnesium chloride	L	1.29E+04	3.67E+04	1.04E+05	1.92E+05	2.95E+05	4.13E+05
7786-30-3	Magnesium chloride	S	7.73E+04	2.20E+05	6.23E+05	1.15E+06	1.77E+06	2.47E+06
7786-30-3	Magnesium chloride	Pwd	7.73E+03	2.20E+04	6.23E+04	1.15E+05	1.77E+05	2.47E+05
7791-18-6	Magnesium Chloride hexahydrate	Cry Pwd	7.73E+03	2.20E+04	6.23E+04	1.15E+05	1.77E+05	2.47E+05
7791-18-6	Magnesium Chloride hexahydrate <3% solution	L	1.54E+04	4.37E+04	1.24E+05	2.29E+05	3.52E+05	4.93E+05
7783-40-6	Magnesium fluoride	S	6.19E+04	1.76E+05	4.99E+05	9.18E+05	1.42E+06	1.98E+06
557-39-1	Magnesium formate	S	1.55E+03	4.39E+03	1.25E+04	2.29E+04	3.54E+04	4.95E+04
1309-42-8	Magnesium hydroxide	S	7.73E+04	2.20E+05	6.23E+05	1.15E+06	1.77E+06	2.47E+06
1309-42-8	Magnesium hydroxide	Pwd	7.73E+03	2.20E+04	6.23E+04	1.15E+05	1.77E+05	2.47E+05
10377-60-3	Magnesium nitrate; (Magnesium(II) nitrate (1:2))	S	3.87E+04	1.10E+05	3.12E+05	5.74E+05	8.84E+05	1.24E+06
1309-48-4	Magnesium oxide	Pwd	7.73E+03	2.20E+04	6.23E+04	1.15E+05	1.77E+05	2.47E+05
1309-48-4	Magnesium oxide	S	7.73E+04	2.20E+05	6.23E+05	1.15E+06	1.77E+06	2.47E+06
1343-90-4	Magnesium silicate (hydrate)	Pwd	3.87E+03	1.10E+04	3.12E+04	5.74E+04	8.84E+04	1.24E+05
7487-88-9	Magnesium sulfate	Cry Pwd	3.87E+03	1.10E+04	3.12E+04	5.74E+04	8.84E+04	1.24E+05
7487-88-9	Magnesium sulfate <3% solution	L	6.47E+03	1.84E+04	5.21E+04	9.60E+04	1.48E+05	2.07E+05
121-75-5	Malathion	L	3.86E+09	1.10E+10	3.11E+10	5.73E+10	8.83E+10	1.24E+11
110-16-7	Maleic acid	Cry Pwd	4.64E+03	1.32E+04	3.74E+04	6.88E+04	1.06E+05	1.48E+05
108-31-6	Maleic anhydride	S	1.55E+03	4.39E+03	1.25E+04	2.29E+04	3.54E+04	4.95E+04
123-33-1	Maleic hydrazide; (3,6-Pyridazinedione,1,2-dihydro-)	Cry Pwd	7.73E+03	2.20E+04	6.23E+04	1.15E+05	1.77E+05	2.47E+05
141-82-2	Malonic acid; (Carboxyacetic acid)	Cry Pwd	7.73E+03	2.20E+04	6.23E+04	1.15E+05	1.77E+05	2.47E+05
7439-96-5	Manganese	S	7.73E+04	2.20E+05	6.23E+05	1.15E+06	1.77E+06	2.47E+06
7439-96-5	Manganese	Pwd	7.73E+03	2.20E+04	6.23E+04	1.15E+05	1.77E+05	2.47E+05
598-62-9	Manganese carbonate	Pwd	7.73E+03	2.20E+04	6.23E+04	1.15E+05	1.77E+05	2.47E+05
1313-13-9	Manganese dioxide (as Mn)	Cry Pwd	7.73E+03	2.20E+04	6.23E+04	1.15E+05	1.77E+05	2.47E+05
1313-13-9	Manganese dioxide (as Mn)	Pwd	7.73E+03	2.20E+04	6.23E+04	1.15E+05	1.77E+05	2.47E+05
18933-05-6	Manganese hydroxide	S	7.73E+04	2.20E+05	6.23E+05	1.15E+06	1.77E+06	2.47E+06

z-0048	Manganese nitrite	S	7.73E+04	2.20E+05	6.23E+05	1.15E+06	1.77E+06	2.47E+06
640-67-5	Manganese oxalate	Cry Pwd	7.73E+03	2.20E+04	6.23E+04	1.15E+05	1.77E+05	2.47E+05
1317-35-7	Manganese oxide; (Manganese tetroxide)	Pwd	7.73E+03	2.20E+04	6.23E+04	1.15E+05	1.77E+05	2.47E+05
1317-35-7	Manganese oxide; (Manganese tetroxide)	S	7.73E+04	2.20E+05	6.23E+05	1.15E+06	1.77E+06	2.47E+06
18718-07-5	Manganese phosphate	L	1.66E+04	4.70E+04	1.33E+05	2.46E+05	3.79E+05	5.30E+05
18718-07-5	Manganese phosphate	S	7.73E+04	2.20E+05	6.23E+05	1.15E+06	1.77E+06	2.47E+06
10124-54-6	Manganese phosphate	Cry Pwd	7.73E+03	2.20E+04	6.23E+04	1.15E+05	1.77E+05	2.47E+05
7439-96-5	Manganese Std Solution <1%	L	1.00E+04	2.84E+04	8.06E+04	1.48E+05	2.29E+05	3.20E+05
12108-13-3	Manganese tricarbonyl methylcyclopentadienyl	L	9.69E+04	2.75E+05	7.80E+05	1.44E+06	2.22E+06	3.10E+06
12108-13-3	Manganese tricarbonyl methylcyclopentadienyl	L	1.16E+00	3.29E+00	9.35E+00	1.72E+01	2.65E+01	3.71E+01
7773-01-5	Manganese(II) chloride (1:2); (Manganous chloride)	L	2.63E+03	7.45E+03	2.12E+04	3.89E+04	6.00E+04	8.40E+04
7773-01-5	Manganese(II) chloride (1:2); (Manganous chloride)	S	1.55E+04	4.39E+04	1.25E+05	2.29E+05	3.54E+05	4.95E+05
10377-66-9	Manganese(II) nitrate	S	7.73E+04	2.20E+05	6.23E+05	1.15E+06	1.77E+06	2.47E+06
10377-66-9	Manganese(II) nitrate <50% solution	L	2.36E+04	6.70E+04	1.90E+05	3.50E+05	5.40E+05	7.56E+05
12057-92-0	Manganese(VII) oxide	L	7.50E+03	2.13E+04	6.04E+04	1.11E+05	1.72E+05	2.40E+05
1344-43-0	Manganous oxide; (Manganese[II] oxide)	S	2.32E+04	6.59E+04	1.87E+05	3.44E+05	5.31E+05	7.42E+05
7785-87-7	Manganous sulfate (as Mn)	S	7.73E+04	2.20E+05	6.23E+05	1.15E+06	1.77E+06	2.47E+06
7785-87-7	Manganous sulfate (as Mn)	Pwd	7.73E+03	2.20E+04	6.23E+04	1.15E+05	1.77E+05	2.47E+05
7785-87-7	Manganous sulfate (as Mn) <15% solution	L	1.39E+04	3.96E+04	1.12E+05	2.07E+05	3.19E+05	4.46E+05
10034-96-5	Manganous Sulfate Monohydrate	S	7.73E+04	2.20E+05	6.23E+05	1.15E+06	1.77E+06	2.47E+06
10034-96-5	Manganous Sulfate Monohydrate	L	7.73E+01	2.20E+02	6.23E+02	1.15E+03	1.77E+03	2.47E+03
10034-96-5	Manganous Sulfate Monohydrate	Pwd	7.73E+03	2.20E+04	6.23E+04	1.15E+05	1.77E+05	2.47E+05
10034-96-5	Manganous Sulfate Monohydrate Sol <40% (Winkler's solution)	L	1.58E+04	4.50E+04	1.28E+05	2.35E+05	3.62E+05	5.07E+05
18820-29-6	Manganous sulfide; (Manganese(II) sulfide)	Pwd	7.73E+03	2.20E+04	6.23E+04	1.15E+05	1.77E+05	2.47E+05
61789-92-2	Mastic (resin)	S	7.73E+04	2.20E+05	6.23E+05	1.15E+06	1.77E+06	2.47E+06
108-78-1	Melamine (2,4,6-TRIAMINO-1,3,5-TRIAZINE)	S	1.16E+04	3.29E+04	9.35E+04	1.72E+05	2.65E+05	3.71E+05
108-78-1	Melamine (2,4,6-TRIAMINO-1,3,5-TRIAZINE)	Pwd	1.16E+03	3.29E+03	9.35E+03	1.72E+04	2.65E+04	3.71E+04
950-10-7	Mephosfolan	L	6.61E+13	1.88E+14	5.32E+14	9.80E+14	1.51E+15	2.11E+15
950-10-7	Mephosfolan	Pwd	1.39E+02	3.95E+02	1.12E+03	2.06E+03	3.18E+03	4.45E+03
149-30-4	Mercaptobenzothiazole, 2-; (2-Benzothiazolthiol))	S	7.73E+04	2.20E+05	6.23E+05	1.15E+06	1.77E+06	2.47E+06
149-30-4	Mercaptobenzothiazole, 2-; (2-Benzothiazolthiol))	Pwd	7.73E+03	2.20E+04	6.23E+04	1.15E+05	1.77E+05	2.47E+05
60-24-2	Mercaptoethanol, 2-	L	6.95E+04	1.97E+05	5.60E+05	1.03E+06	1.59E+06	2.22E+06
1600-27-7	Mercuric acetate	Pwd	3.09E+01	8.78E+01	2.49E+02	4.59E+02	7.08E+02	9.90E+02
1600-27-7	Mercuric acetate	S	3.09E+02	8.78E+02	2.49E+03	4.59E+03	7.08E+03	9.90E+03
592-04-1	Mercuric cyanide	Pwd	1.55E+02	4.39E+02	1.25E+03	2.29E+03	3.54E+03	4.95E+03
592-04-1	Mercuric cyanide	Cry Pwd	1.55E+02	4.39E+02	1.25E+03	2.29E+03	3.54E+03	4.95E+03
7774-29-0	Mercuric iodide; (Mercury(II) iodide)	S	3.09E+03	8.78E+03	2.49E+04	4.59E+04	7.08E+04	9.90E+04
7774-29-0	Mercuric iodide; (Mercury(II) iodide)	Pwd	3.09E+02	8.78E+02	2.49E+03	4.59E+03	7.08E+03	9.90E+03
10045-94-0	MERCURIC NITRATE	Cry Pwd	1.93E+02	5.49E+02	1.56E+03	2.87E+03	4.42E+03	6.19E+03

10045-94-0	MERCURIC NITRATE <4% solution	L	4.50E+02	1.28E+03	3.63E+03	6.68E+03	1.03E+04	1.44E+04
7782-86-7	Mercuric nitrate monohydrate	Cry Pwd	1.93E+02	5.49E+02	1.56E+03	2.87E+03	4.42E+03	6.19E+03
7783-35-9	Mercuric sulfate; (Mercury (II) sulfate)	Cry Pwd	2.32E+02	6.59E+02	1.87E+03	3.44E+03	5.31E+03	7.42E+03
592-85-8	Mercuric Thiocyanate	L	6.56E+01	1.86E+02	5.28E+02	9.73E+02	1.50E+03	2.10E+03
592-85-8	Mercuric thiocyanate; (Mercuric sulfocyanate)	Pwd	2.32E+02	6.59E+02	1.87E+03	3.44E+03	5.31E+03	7.42E+03
12002-19-6	Mercurol; (Mercury nucleate)	Pwd	1.55E+02	4.39E+02	1.25E+03	2.29E+03	3.54E+03	4.95E+03
7546-30-7	Mercurous chloride (see also MCY300)	S	1.55E+03	4.39E+03	1.25E+04	2.29E+04	3.54E+04	4.95E+04
7546-30-7	Mercurous chloride (see also MCY300)	Pwd	1.55E+02	4.39E+02	1.25E+03	2.29E+03	3.54E+03	4.95E+03
10415-75-5	Mercurous nitrate; (Mercury[1] nitrate[1:1])	Cry Pwd	1.93E+02	5.49E+02	1.56E+03	2.87E+03	4.42E+03	6.19E+03
15829-53-5	Mercurous oxide	Pwd	1.55E+02	4.39E+02	1.25E+03	2.29E+03	3.54E+03	4.95E+03
7487-94-7	Mercury Chloride Std Sol	L	2.32E+03	6.57E+03	1.87E+04	3.44E+04	5.30E+04	7.41E+04
z-0050	Mercury hydroxide	S	1.55E+03	4.39E+03	1.25E+04	2.29E+04	3.54E+04	4.95E+04
10045-94-0	Mercury nitrate Solution	L	4.21E+02	1.20E+03	3.39E+03	6.24E+03	9.63E+03	1.35E+04
10045-94-0	Mercury nitrate; (Mercury[II] nitrate [1:2])	Cry Pwd	2.32E+02	6.59E+02	1.87E+03	3.44E+03	5.31E+03	7.42E+03
z-0051	Mercury nitrite	Pwd	2.32E+02	6.59E+02	1.87E+03	3.44E+03	5.31E+03	7.42E+03
7439-97-6	Mercury vapor	L	1.07E+07	3.03E+07	8.59E+07	1.58E+08	2.44E+08	3.41E+08
7487-94-7	Mercury(II) chloride (as Hg)	Cry Pwd	1.93E+02	5.49E+02	1.56E+03	2.87E+03	4.42E+03	6.19E+03
7487-94-7	Mercury(II) chloride (as Hg)	S	1.93E+03	5.49E+03	1.56E+04	2.87E+04	4.42E+04	6.19E+04
21908-53-2	Mercury(II) oxide; (Mercuric oxide)	S	1.55E+03	4.39E+03	1.25E+04	2.29E+04	3.54E+04	4.95E+04
21908-53-2	Mercury(II) oxide; (Mercuric oxide)	Pwd	1.55E+02	4.39E+02	1.25E+03	2.29E+03	3.54E+03	4.95E+03
108-67-8	Mesitylene; (1,3,5-Trimethyl benzene)	L	6.34E+04	1.80E+05	5.11E+05	9.40E+05	1.45E+06	2.03E+06
10476-95-6	Methacrolein diacetate; (Acetic acid-2-methyl-propene-1,1-diol diester)	L	5.43E+04	1.54E+05	4.38E+05	8.06E+05	1.24E+06	1.74E+06
78-85-3	Methacrylaldehyde (METHACROLEIN)	L	2.82E+01	8.00E+01	2.27E+02	2.27E+02	6.45E+02	9.02E+02
79-41-4	Methacrylic acid	L	4.15E+04	1.18E+05	3.34E+05	6.15E+05	9.48E+05	1.33E+06
760-93-0	Methacrylic anhydride	L	6.15E+06	1.75E+07	4.96E+07	9.12E+07	1.41E+08	1.97E+08
126-98-7	Methacrylonitrile; (Methylacrylonitrile)	L	2.03E+02	2.50E+02	2.50E+02	2.50E+02	2.50E+02	2.50E+02
920-46-7	Methacryloyl chloride	L	5.83E+01	1.50E+02	1.50E+02	1.50E+02	1.50E+02	1.50E+02
10265-92-6	Methamidophos	Pwd	9.28E+02	2.63E+03	7.48E+03	1.38E+04	2.12E+04	2.97E+04
10265-92-6	Methamidophos	S	9.28E+03	2.63E+04	7.48E+04	1.38E+05	2.12E+05	2.97E+05
74-82-8	Methane [0.5L ~32g]	G	5.07E+03	1.44E+04	4.09E+04	7.53E+04	1.16E+05	1.62E+05
LANL-00-61	Methane 10% in nitrogen or Argon	G	6.24E+04	1.77E+05	5.03E+05	9.26E+05	1.43E+06	2.00E+06
74-82-8	Methane cryogenic liquid	L	1.68E+01	4.76E+01	1.35E+02	2.49E+02	3.84E+02	5.37E+02
75-75-2	Methanesulfonic acid	L	2.39E+05	6.78E+05	1.93E+06	3.54E+06	5.47E+06	7.65E+06
75-75-2	Methanesulfonic acid	Pwd	6.19E+03	1.76E+04	4.99E+04	9.18E+04	1.42E+05	1.98E+05
62-50-0	Methanesulfonic acid, ethyl ester; (Ethyl methanesulfonate)	L	1.93E+05	5.48E+05	1.56E+06	2.86E+06	4.42E+06	6.18E+06
124-63-0	Methanesulfonyl chloride	L	1.68E+02	4.76E+02	1.35E+03	2.49E+03	3.84E+03	5.37E+03
558-25-8	Methanesulfonyl fluoride; (Methanesulfonyl fluoride)	L	1.71E+02	4.85E+02	1.38E+03	2.54E+03	3.91E+03	5.47E+03
950-37-8	Methidathion; (Dithiophosphate)	Pwd	6.19E+03	1.76E+04	4.99E+04	9.18E+04	1.42E+05	1.98E+05
950-37-8	Methidathion; (Dithiophosphate)	S	6.19E+04	1.76E+05	4.99E+05	9.18E+05	1.42E+06	1.98E+06

2032-65-7	Methiocarb; (Mercaptodimethur)	Pwd	2.32E+02	6.59E+02	1.87E+03	3.44E+03	5.31E+03	7.42E+03
2032-65-7	Methiocarb; (Mercaptodimethur)	S	2.32E+03	6.59E+03	1.87E+04	3.44E+04	5.31E+04	7.42E+04
16752-77-5	Methomyl	S	3.09E+04	8.78E+04	2.49E+05	4.59E+05	7.08E+05	9.90E+05
16752-77-5	Methomyl	Pwd	3.09E+03	8.78E+03	2.49E+04	4.59E+04	7.08E+04	9.90E+04
72-43-5	Methoxychlor	Pwd	7.73E+03	2.20E+04	6.23E+04	1.15E+05	1.77E+05	2.47E+05
72-43-5	Methoxychlor	S	7.73E+04	2.20E+05	6.23E+05	1.15E+06	1.77E+06	2.47E+06
111-77-3	Methoxyethoxy)-ethanol, 2-(2-; (Diethylene glycol monomethyl ether)	L	6.50E+02	1.84E+03	5.24E+03	9.64E+03	1.49E+04	2.08E+04
109-85-3	Methoxyethylamine	L	7.66E+02	2.17E+03	6.17E+03	1.14E+04	1.75E+04	2.45E+04
151-38-2	Methoxyethylmercuric acetate	S	4.64E+02	1.32E+03	3.74E+03	6.88E+03	1.06E+04	1.48E+04
151-38-2	Methoxyethylmercuric acetate	Pwd	4.64E+01	1.32E+02	3.74E+02	6.88E+02	1.06E+03	1.48E+03
5332-73-0	Methoxypropylamine, 3-; (3-MPA)	L	1.10E+03	3.12E+03	8.85E+03	1.63E+04	2.51E+04	3.52E+04
1825-61-2	Methoxytrimethylsilane	L	7.47E+01	2.12E+02	6.02E+02	1.11E+03	1.71E+03	2.39E+03
137-05-3	Methyl 2-cyanoacrylate; (Permabond 910 adhesive)	L	1.50E+04	4.27E+04	1.21E+05	2.23E+05	3.44E+05	4.81E+05
872-50-4	Methyl 2-pyrrolidinone, 1-; (n-Methylpyrrolidone)	L	2.84E+05	8.06E+05	2.29E+06	4.21E+06	6.49E+06	9.09E+06
74-99-7	Methyl acetylene (PROPYNE)	L	7.64E+01	2.17E+02	6.15E+02	1.13E+03	1.75E+03	2.44E+03
74-99-7	Methyl acetylene (PROPYNE)	G	4.31E+02	1.22E+03	3.47E+03	6.39E+03	9.85E+03	1.38E+04
59355-75-8	Methyl acetylene-propadiene mixture; (Mapp Gas)	L	3.12E+08	8.87E+08	2.52E+09	4.63E+09	7.14E+09	9.99E+09
59355-75-8	Methyl acetylene-propadiene mixture; (Mapp Gas)	G	8.97E+02	2.55E+03	7.23E+03	1.33E+04	2.05E+04	2.87E+04
96-33-3	Methyl acrylate	L	5.06E+02	1.44E+03	4.08E+03	7.50E+03	1.16E+04	1.62E+04
67-56-1	Methyl alcohol; (Methanol)	L	9.41E+03	2.67E+04	7.58E+04	1.40E+05	2.15E+05	3.01E+05
74-83-9	Methyl bromide; (Bromomethane)	L	3.90E+01	1.11E+02	3.15E+02	3.15E+02	8.93E+02	1.25E+03
74-83-9	Methyl bromide; (Bromomethane) [2L ~3 kg]	G	1.20E+02	3.41E+02	9.67E+02	9.67E+02	2.50E+03	2.50E+03
97-88-1	Methyl butylacrylate, 2-; (Butyl methacrylate)	L	3.43E+04	9.75E+04	2.77E+05	5.09E+05	7.85E+05	1.10E+06
74-87-3	Methyl chloride	L	5.27E+01	1.49E+02	4.24E+02	4.24E+02	1.20E+03	1.68E+03
74-87-3	Methyl chloride [2L ~ 1.6kg]	G	3.19E+02	9.06E+02	2.57E+03	2.57E+03	7.30E+03	1.00E+04
68937-17-7	Methyl chlorodisilane; (Chloromethyldisilane)	G	5.10E+00	1.45E+01	4.11E+01	7.57E+01	1.17E+02	1.63E+02
79-22-1	Methyl chloroformate; (Methyl chlorocarbonate)	L	1.66E+01	4.71E+01	1.34E+02	1.34E+02	3.80E+02	5.00E+02
68937-17-7	Methyl Chlorosilane	L	4.36E+02	1.24E+03	3.52E+03	6.47E+03	9.98E+03	1.40E+04
993-00-0	Methyl chlorosilane; (Chloromethylsilane)	L	4.36E+02	1.24E+03	3.51E+03	6.46E+03	9.96E+03	1.39E+04
993-00-0	Methyl chlorosilane; (Chloromethylsilane)	G	1.02E+01	2.89E+01	8.21E+01	1.51E+02	2.33E+02	3.26E+02
329-99-7	Methyl cyclohexylfluorophosphonate; (GF Agent)	L	1.23E+01	3.50E+01	9.93E+01	1.83E+02	2.82E+02	3.94E+02
2587-90-8	Methyl demeton methyl; (Phosphorothioic acid, O,O-dimethyl-s-[2-methylthio] ethyl ester)	L	4.58E+06	1.30E+07	3.69E+07	6.79E+07	1.05E+08	1.46E+08
676-99-3	Methyl difluorophosphite; (Methylphosphonic difluoride)	L	2.59E+03	7.36E+03	2.09E+04	3.85E+04	5.93E+04	8.30E+04
115-10-6	Methyl ether; (Dimethyl ether) [2L ~ 1.2kg]	G	1.75E+04	4.96E+04	1.41E+05	2.59E+05	4.00E+05	5.59E+05

1338-23-4	Methyl ethyl ketone peroxide (2-BUTANONE PEROXIDE)	L	5.00E+03	5.00E+03	5.00E+03	5.00E+03	5.00E+03	5.00E+03
1338-23-4	Methyl ethyl ketone peroxide (2-BUTANONE PEROXIDE)	L	5.00E+03	5.00E+03	5.00E+03	5.00E+03	5.00E+03	5.00E+03
593-53-3	Methyl fluoride; (Fluoromethane)	G	6.19E+01	1.76E+02	4.99E+02	9.18E+02	1.42E+03	1.98E+03
453-18-9	Methyl fluoroacetate	L	1.00E+02	1.00E+02	1.00E+02	1.00E+02	1.00E+02	1.00E+02
421-20-5	Methyl fluorosulfate	L	7.27E+00	2.06E+01	5.86E+01	1.00E+02	1.00E+02	1.00E+02
107-31-3	Methyl formate; (Formic acid, methyl ester)	L	3.08E+03	8.74E+03	2.48E+04	4.57E+04	7.04E+04	9.85E+04
74-88-4	Methyl iodide	L	4.31E+02	1.22E+03	3.48E+03	3.48E+03	7.50E+03	7.50E+03
108-10-1	Methyl isobutyl ketone; (Hexone)	L	8.54E+03	2.42E+04	6.88E+04	1.27E+05	1.95E+05	2.73E+05
624-83-9	Methyl isocyanate	L	2.50E+02	2.50E+02	2.50E+02	2.50E+02	2.50E+02	2.50E+02
563-80-4	Methyl isopropyl ketone; (3-Methyl-2-butanone)	L	1.49E+04	4.22E+04	1.20E+05	2.21E+05	3.40E+05	4.76E+05
556-61-6	Methyl isothiocyanate; (Isothiocyanatomethane)	L	8.66E+03	2.46E+04	6.98E+04	1.28E+05	1.98E+05	2.77E+05
556-61-6	Methyl isothiocyanate; (Isothiocyanatomethane)	P	7.73E+03	2.20E+04	6.23E+04	1.15E+05	1.77E+05	2.47E+05
917-54-4	Methyl lithium	L	8.50E+02	2.41E+03	6.85E+03	1.26E+04	1.94E+04	2.72E+04
74-93-1	Methyl mercaptan	L	1.50E+01	4.25E+01	1.21E+02	1.21E+02	3.43E+02	4.79E+02
74-93-1	Methyl mercaptan [250ml ~ 205g (max cyl 68kg)	G	3.04E+01	8.63E+01	2.45E+02	2.45E+02	6.96E+02	9.73E+02
22967-92-6	Methyl mercury	S	3.09E+01	8.78E+01	2.49E+02	4.59E+02	7.08E+02	9.90E+02
80-62-6	Methyl methacrylate	L	1.58E+05	4.49E+05	1.27E+06	2.35E+06	3.62E+06	5.06E+06
110-43-0	Methyl n-amyl ketone (2-HEPTANONE)	L	8.91E+04	2.53E+05	7.18E+05	1.32E+06	2.04E+06	2.85E+06
298-00-0	Methyl parathion	S	2.32E+03	6.59E+03	1.87E+04	3.44E+04	5.31E+04	7.42E+04
298-00-0	Methyl parathion	Pwd	2.32E+02	6.59E+02	1.87E+03	3.44E+03	5.31E+03	7.42E+03
107-83-5	Methyl pentane, 2- (Isohexane)	L	3.41E+03	9.69E+03	2.75E+04	5.06E+04	7.81E+04	1.09E+05
3735-23-7	Methyl phencapton	L	1.49E+10	4.22E+10	1.20E+11	2.20E+11	3.40E+11	4.76E+11
676-97-1	Methyl phosphonic dichloride	L	2.65E+01	7.53E+01	2.14E+02	3.93E+02	6.07E+02	8.49E+02
676-97-1	Methyl phosphonic dichloride	S	2.32E+03	6.59E+03	1.87E+04	3.44E+04	5.31E+04	7.42E+04
676-98-2	Methyl phosphonothioic dichloride	L	4.63E+03	1.31E+04	3.73E+04	6.86E+04	1.06E+05	1.48E+05
108-99-6	Methyl pyridine, 3-: (3-Picoline)	L	1.08E+05	3.07E+05	8.72E+05	1.61E+06	2.48E+06	3.46E+06
119-36-8	Methyl salicylate	L	6.41E+03	1.82E+04	5.17E+04	9.51E+04	1.47E+05	2.05E+05
2206-27-1	Methyl sulfoxide-D6; (Dimethyl-D6-sulfoxide)	L	4.52E+05	1.28E+06	3.64E+06	6.70E+06	1.03E+07	1.45E+07
556-64-9	Methyl thiocyanate	L	7.82E+02	2.22E+03	6.30E+03	1.16E+04	1.79E+04	2.00E+04
5137-55-3	Methyl trioctyl ammonium chloride (Aliquat 336)	L	4.75E+09	1.35E+10	3.83E+10	7.04E+10	1.09E+11	1.52E+11
598-32-3	Methyl vinyl carbinol; (3-Buten-2-ol)	L	3.63E+02	1.03E+03	2.93E+03	5.39E+03	8.31E+03	1.16E+04
78-94-4	Methyl vinyl ketone; (3-Buten-2-one)	L	7.81E-01	2.22E+00	6.29E+00	1.16E+01	1.79E+01	2.50E+01
137-05-3	Methyl, 2-cyanoacrylate (Super Glue)	L	5.70E+03	1.62E+04	4.59E+04	8.46E+04	1.30E+05	1.82E+05
563-46-2	Methyl-1-butene, 2-	L	9.69E+02	2.75E+03	7.81E+03	1.44E+04	2.22E+04	3.10E+04
563-45-1	Methyl-1-butene, 3-	G	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
29385-43-1	Methyl-1H-benzotriazole	S	4.64E+04	1.32E+05	3.74E+05	6.88E+05	1.06E+06	1.48E+06
89-25-8	Methyl-1-phenyl-2-pyrazolin-5-one, 3-	Pwd	7.73E+03	2.20E+04	6.23E+04	1.15E+05	1.77E+05	2.47E+05
124-68-5	METHYL-1-PROPANOL, 2-AMINO-2-; (Isobutanol-2-amine)	L	1.52E+05	4.31E+05	1.22E+06	2.25E+06	3.47E+06	4.85E+06

124-68-5	METHYL-1-PROPANOL, 2-AMINO-2-; (Isobutanol-2-amine)	S	7.73E+04	2.20E+05	6.23E+05	1.15E+06	1.77E+06	2.47E+06
598-26-5	Methyl-1-propene-1-one, 2-; (Dimethylketene)	L	7.54E-01	2.14E+00	6.07E+00	1.12E+01	1.72E+01	2.41E+01
80-63-7	Methyl-2-chloroacrylate	L	2.73E+02	7.76E+02	2.20E+03	4.06E+03	6.25E+03	8.75E+03
110-12-3	Methyl-2-hexanone, 5-: (Methyl isoamyl ketone)	L	9.59E+04	2.72E+05	7.72E+05	1.42E+06	2.19E+06	3.07E+06
141-79-7	Methyl-3-pentene-2-one, 4-; (Mesityl oxide)	L	4.12E+04	1.17E+05	3.32E+05	6.11E+05	9.41E+05	1.32E+06
3744-02-3	Methyl-4-pentene-2-one, 4-	L	2.68E+04	7.62E+04	2.16E+05	3.98E+05	6.14E+05	8.59E+05
99-55-8	Methyl-5-nitroaniline, 2-; (5-Nitro-o-toluidine; Benzenamine, 2-methyl-5-nitro-)	Cry Pwd	3.87E+03	1.10E+04	3.12E+04	5.74E+04	8.84E+04	1.24E+05
140-76-1	Methyl-5-vinyl-pyridine, 2-	L	3.26E+03	9.24E+03	2.62E+04	4.83E+04	7.45E+04	1.04E+05
109-87-5	Methylal; (Dimethoxymethane), (FORMALDEHYDE DIMETHYL ACETAL)	L	2.33E+03	6.61E+03	1.87E+04	3.45E+04	5.32E+04	7.45E+04
100-61-8	Methylaniline, n-	L	3.66E+04	1.04E+05	2.95E+05	5.43E+05	8.37E+05	1.17E+06
1072-44-2	Methylaziridine, 1-	L	1.23E+03	3.48E+03	9.87E+03	1.82E+04	2.80E+04	3.92E+04
541-46-8	Methylbutanamide, 3-; (Isovaleramide)	S	7.73E+04	2.20E+05	6.23E+05	1.15E+06	1.77E+06	2.47E+06
9004-67-5	Methylcellulose	L	8.95E+04	2.54E+05	7.21E+05	1.33E+06	2.05E+06	2.86E+06
9004-67-5	Methylcellulose	Pwd	7.73E+03	2.20E+04	6.23E+04	1.15E+05	1.77E+05	2.47E+05
9004-67-5	Methylcellulose	S	7.73E+04	2.20E+05	6.23E+05	1.15E+06	1.77E+06	2.47E+06
56-49-5	Methylcholanthrene 3-	S	1.16E+04	3.29E+04	9.35E+04	1.72E+05	2.65E+05	3.71E+05
108-87-2	Methylcyclohexane	L	8.18E+03	2.32E+04	6.59E+04	1.21E+05	1.87E+05	2.62E+05
1331-22-2	Methylcyclohexanone	L	3.19E+04	9.05E+04	2.57E+05	4.73E+05	7.30E+05	1.02E+06
583-60-8	Methylcyclohexanone, 2-; (o-Methylcyclohexanone)	L	1.94E+05	5.50E+05	1.56E+06	2.87E+06	4.43E+06	6.19E+06
31001-77-1	METHYLDIMETHOXYSILANE(3-MERCAPTOPROPYL)	L	3.56E+02	1.01E+03	2.87E+03	5.28E+03	8.15E+03	1.14E+04
101-14-4	Methylene bis(2-chloroaniline), 4,4'-; (MBOCA)	S	6.76E+04	1.92E+05	5.44E+05	1.00E+06	1.55E+06	2.16E+06
5124-30-1	Methylene bis(4-isocyanatocyclohexane), 1,1'-	L	7.59E+04	2.16E+05	6.12E+05	1.13E+06	1.74E+06	2.43E+06
75-09-2	Methylene chloride (DICHLOROMETHANE)	L	6.49E+03	1.84E+04	5.23E+04	9.62E+04	1.48E+05	2.08E+05
101-68-8	Methylene diphenyl diisocyanate (Diphenylmethane diisocyanate; MDI)	S	3.87E+03	1.10E+04	3.12E+04	5.74E+04	8.84E+04	1.24E+05
101-77-9	Methylenedianiline, 4,4'-	S	1.88E+04	5.34E+04	1.52E+05	2.79E+05	4.30E+05	6.02E+05
3031-75-2	Methylethyl hydroperoxide, 1-; (Isopropyl hydroperoxide)	S	9.28E+03	2.63E+04	7.48E+04	1.38E+05	2.12E+05	2.97E+05
534-22-5	Methylfuran, 2-	L	1.04E+02	2.95E+02	8.36E+02	1.54E+03	2.37E+03	3.32E+03
589-53-7	Methylheptane, 4-	L	3.12E+03	8.86E+03	2.52E+04	4.63E+04	7.14E+04	9.99E+04
616-47-7	Methylimidazole, 1-	L	4.08E+05	1.16E+06	3.29E+06	6.05E+06	9.33E+06	1.31E+07
80-55-7	Methyllactic acid, 2-; (Ethyl 2-hydroxyisobutyrate)	L	1.56E+04	4.42E+04	1.25E+05	2.31E+05	3.56E+05	4.98E+05
75-86-5	Methyllactonitrile 2-	L	7.45E+03	2.12E+04	6.00E+04	1.11E+05	1.70E+05	2.38E+05
502-39-6	Methylmercuric dicyanamide	S	4.64E+02	1.32E+03	3.74E+03	6.88E+03	1.06E+04	1.48E+04
502-39-6	Methylmercuric dicyanamide	Pwd	4.64E+01	1.32E+02	3.74E+02	6.88E+02	1.06E+03	1.48E+03
90-12-0	Methylnaphthalene, 1-	L	6.43E+03	1.83E+04	5.18E+04	9.54E+04	1.47E+05	2.06E+05

91-57-6	Methylnaphthalene, 2-	L	2.18E+05	6.18E+05	1.75E+06	3.23E+06	4.98E+06	6.97E+06
91-57-6	Methylnaphthalene, 2-	S	7.73E+04	2.20E+05	6.23E+05	1.15E+06	1.77E+06	2.47E+06
13603-07-1	Methylnitrosopiperidine, 3-; (Piperidine, 3-methyl-1-nitroso-)	L	3.52E+04	9.99E+04	2.84E+05	5.22E+05	8.05E+05	1.13E+06
95-48-7	Methylphenol, 2-; (o-Cresol)	L	9.66E+04	2.74E+05	7.78E+05	1.43E+06	2.21E+06	3.09E+06
95-48-7	Methylphenol, 2-; (o-Cresol)	S	1.71E+05	4.85E+05	1.38E+06	2.54E+06	3.91E+06	5.47E+06
95-48-7	Methylphenol, 2-; (o-Cresol)	Pwd	1.71E+04	4.85E+04	1.38E+05	2.54E+05	3.91E+05	5.47E+05
95-48-7	Methylphenol, 2-; (o-Cresol)	Pwd	1.71E+04	4.85E+04	1.38E+05	2.54E+05	3.91E+05	5.47E+05
95-48-7	Methylphenol, 2-; (o-Cresol)	S	1.71E+05	4.85E+05	1.38E+06	2.54E+06	3.91E+06	5.47E+06
108-39-4	Methylphenol, 3-; (m-Cresol)	L	9.99E+04	2.84E+05	8.05E+05	1.48E+06	2.28E+06	3.20E+06
106-44-5	Methylphenol, 4-; (p-Cresol)	S	1.71E+05	4.85E+05	1.38E+06	2.54E+06	3.91E+06	5.47E+06
614-78-8	Methylphenylthiourea, 2-; (o-Tolyl thiourea)	Pwd	7.73E+02	2.20E+03	6.23E+03	1.15E+04	1.77E+04	2.47E+04
614-78-8	Methylphenylthiourea, 2-; (o-Tolyl thiourea)	S	7.73E+03	2.20E+04	6.23E+04	1.15E+05	1.77E+05	2.47E+05
2665-30-7	Methylphosphonothioic acid-o-(4-nitrophenyl)-o-phenyl ester	L	4.00E+08	1.13E+09	3.22E+09	5.93E+09	9.14E+09	1.28E+10
2703-13-1	Methylphosphonothioic acid-o-ethyl o-(p-(methylthio)phenyl)ester.	L	4.73E+07	1.34E+08	3.81E+08	7.02E+08	1.08E+09	1.51E+09
75-28-5	Methylpropane, 2-; (Isobutane) [250ml ~ 140g]	G	5.51E+03	1.57E+04	4.44E+04	8.18E+04	1.26E+05	1.76E+05
594-61-6	METHYLPROPANOIC, 2-HYDROXY-2- ACID	Cry Pwd	7.73E+03	2.20E+04	6.23E+04	1.15E+05	1.77E+05	2.47E+05
115-11-7	Methyl-propene, 2- (Isobutene)	L	8.32E+03	2.36E+04	6.70E+04	1.23E+05	1.90E+05	2.66E+05
115-11-7	Methyl-propene, 2- (Isobutene) [250ml ~ 150g]	G	3.55E+04	1.01E+05	2.86E+05	5.26E+05	8.11E+05	1.14E+06
924-46-9	Methylpropylnitrosoamine: (1-Propanamine, N-methyl-N-nitroso-)	L	2.32E+03	6.60E+03	1.87E+04	3.45E+04	5.32E+04	7.44E+04
109-06-8	Methylpyridine, 2-; (2-Picoline)	L	8.59E+03	2.44E+04	6.92E+04	1.27E+05	1.96E+05	2.75E+05
1634-04-4	Methyl-tert-butyl ether	L	1.18E+04	3.35E+04	9.52E+04	1.75E+05	2.70E+05	3.78E+05
96-47-9	Methyltetrahydrofuran	L	1.63E+03	4.63E+03	1.31E+04	2.42E+04	3.73E+04	5.22E+04
4253-34-3	Methyltriacetoxysilane	L	3.59E+04	1.02E+05	2.89E+05	5.33E+05	8.21E+05	1.15E+06
4253-34-3	Methyltriacetoxysilane	S	7.73E+04	2.20E+05	6.23E+05	1.15E+06	1.77E+06	2.47E+06
75-79-6	Methyltrichlorosilane	L	3.31E+01	9.40E+01	2.67E+02	2.67E+02	5.00E+02	5.00E+02
333-27-7	Methyl-trifluoromethanesulfonate	L	1.72E+04	4.87E+04	1.38E+05	2.55E+05	3.93E+05	5.49E+05
1129-41-5	Metolcarb; (Methylcarbamic acid m-tolyl ester)	Pwd	3.09E+03	8.78E+03	2.49E+04	4.59E+04	7.08E+04	9.90E+04
1129-41-5	Metolcarb; (Methylcarbamic acid m-tolyl ester)	S	3.09E+04	8.78E+04	2.49E+05	4.59E+05	7.08E+05	9.90E+05
7786-34-7	Mevinphos; (Phosdrin(R))	L	7.36E+05	2.09E+06	5.93E+06	1.09E+07	1.68E+07	2.35E+07
7786-34-7	Mevinphos; (Phosdrin(R))	Pwd	6.19E+01	1.76E+02	4.99E+02	9.18E+02	1.42E+03	1.98E+03
315-18-4	Mexacarbate; (4-[Methylamine]-3,5-xylyl-n-methylcarbamate)	S	2.17E+03	6.15E+03	1.74E+04	3.21E+04	4.95E+04	6.93E+04
315-18-4	Mexacarbate; (4-[Methylamine]-3,5-xylyl-n-methylcarbamate)	Pwd	2.17E+02	6.15E+02	1.74E+03	3.21E+03	4.95E+03	6.93E+03
12001-26-2	Mica; (Silicates [SCM500])	S	1.16E+04	3.29E+04	9.35E+04	1.72E+05	2.65E+05	3.71E+05
90-94-8	Michler's ketone; (4,4'-bis(dimethylamino)-benzophenone)	L	1.78E+05	5.05E+05	1.43E+06	2.64E+06	4.07E+06	5.70E+06

90-94-8	Michler's ketone; (4,4'-bis(dimethylamino)-benzophenone)	Cry Pwd	6.19E+02	1.76E+03	4.99E+03	9.18E+03	1.42E+04	1.98E+04
65996-69-2	Mineral fibers, fine	S	3.87E+04	1.10E+05	3.12E+05	5.74E+05	8.84E+05	1.24E+06
8020-83-5	Mineral oil, heavy or light; (Paraffin oil; Deobase, deodorized)	L	1.52E+03	4.31E+03	1.22E+04	2.25E+04	3.47E+04	4.86E+04
64741-53-3	Mineral oil, petroleum distillates, heavy naphthenic	L	9.54E+03	2.71E+04	7.69E+04	1.41E+05	2.18E+05	3.05E+05
64741-88-4	Mineral oil, petroleum distillates, solvent-refined (mild) heavy paraffinic	L	2.11E+04	5.99E+04	1.70E+05	3.13E+05	4.83E+05	6.76E+05
8042-47-5	Mineral oil, white	L	1.99E+06	5.65E+06	1.60E+07	2.95E+07	4.55E+07	6.37E+07
8012-95-1	Mineral oil; (Oil mist [mineral])	L	3.57E+05	1.01E+06	2.88E+06	5.29E+06	8.16E+06	1.14E+07
8052-41-3	Mineral spirits (85% nonane+15% trimethyl benzene=Stoddard solvent)	L	6.10E+04	1.73E+05	4.92E+05	9.05E+05	1.40E+06	1.95E+06
2385-85-5	Mirex; (Perchloropentacyclodecane)	S	1.55E+04	4.39E+04	1.25E+05	2.29E+05	3.54E+05	4.95E+05
50-07-7	Mitomycin C	S	3.56E+03	1.01E+04	2.87E+04	5.28E+04	8.14E+04	1.14E+05
50-07-7	Mitomycin C	Pwd	3.56E+02	1.01E+03	2.87E+03	5.28E+03	8.14E+03	1.14E+04
12656-85-8	Molybdate orange	Pwd	7.73E+03	2.20E+04	6.23E+04	1.15E+05	1.77E+05	2.47E+05
7439-98-7	Molybdenum	Pwd	7.73E+03	2.20E+04	6.23E+04	1.15E+05	1.77E+05	2.47E+05
7439-98-7	Molybdenum	S	7.73E+04	2.20E+05	6.23E+05	1.15E+06	1.77E+06	2.47E+06
18868-43-4	Molybdenum dioxide	Pwd	9.28E+02	2.63E+03	7.48E+03	1.38E+04	2.12E+04	2.97E+04
1313-27-5	Molybdenum trioxide	Pwd	7.73E+03	2.20E+04	6.23E+04	1.15E+05	1.77E+05	2.47E+05
z-0053	Molybdic acid	Cry Pwd	7.73E+03	2.20E+04	6.23E+04	1.15E+05	1.77E+05	2.47E+05
7631-95-0	Molybdic acid, disodium salt	Pwd	7.73E+03	2.20E+04	6.23E+04	1.15E+05	1.77E+05	2.47E+05
12027-67-7	Molybdic acid, hexaammonium salt; (Ammonium heptamolybdate)	S	7.73E+04	2.20E+05	6.23E+05	1.15E+06	1.77E+06	2.47E+06
12027-67-7	Molybdic acid, hexaammonium salt; (Ammonium heptamolybdate)	Cry Pwd	7.73E+03	2.20E+04	6.23E+04	1.15E+05	1.77E+05	2.47E+05
16456-56-7	Monobutyl phosphite	L	1.09E+04	3.08E+04	8.75E+04	1.61E+05	2.48E+05	3.47E+05
10599-90-3	Monochloroamine; (Chloramide)	L	3.13E+02	8.87E+02	2.52E+03	4.64E+03	7.15E+03	1.00E+04
76-15-3	Monochloropentafluoroethane; (CFC-115)	G	2.93E+05	8.32E+05	2.36E+06	4.35E+06	6.70E+06	9.37E+06
6923-22-4	Monocrotophos	Pwd	3.87E+02	1.10E+03	3.12E+03	5.74E+03	8.84E+03	1.24E+04
6923-22-4	Monocrotophos	S	3.87E+03	1.10E+04	3.12E+04	5.74E+04	8.84E+04	1.24E+05
74-89-5	Monomethylamine; (Methylamine) [2L ~ 1.1 kg]	G	9.82E+01	2.79E+02	7.91E+02	1.00E+03	1.00E+03	1.00E+03
74-89-5	Monomethylamine; (Methylamine) <45% solution	L	4.59E+02	1.00E+03	1.00E+03	1.00E+03	1.00E+03	1.00E+03
60-34-4	Monomethylhydrazine; (Methyl hydrazine)	L	1.00E+02	1.00E+02	1.00E+02	1.00E+02	1.00E+02	1.00E+02
12034-36-5	Monosodium titanate	Pwd	3.87E+03	1.10E+04	3.12E+04	5.74E+04	8.84E+04	1.24E+05
12034-36-5	Monosodium titanate	S	3.87E+04	1.10E+05	3.12E+05	5.74E+05	8.84E+05	1.24E+06
60704-88-3	Monosodium titanate	Pwd	3.87E+03	1.10E+04	3.12E+04	5.74E+04	8.84E+04	1.24E+05
110-91-8	Morpholine	L	4.62E+04	1.31E+05	3.72E+05	6.85E+05	1.06E+06	1.48E+06
2763-96-4	Muscimol; (5-Aminomethyl-3-isoxyzole)	Pwd	3.09E+02	8.78E+02	2.49E+03	4.59E+03	7.08E+03	9.90E+03
2763-96-4	Muscimol; (5-Aminomethyl-3-isoxyzole)	S	3.09E+03	8.78E+03	2.49E+04	4.59E+04	7.08E+04	9.90E+04
110-36-1	Myristic acid (tetradecanoic acid), butyl ester	S	5.40E+05	1.53E+06	4.35E+06	8.00E+06	1.23E+07	1.73E+07

110-27-0	Myristic acid, isopropyl ester; (Tetradecanoic acid, isopropyl; Isopropyl myristate),	L	2.18E+09	6.19E+09	1.76E+10	3.23E+10	4.99E+10	6.98E+10
42924-53-8	Nabumetone; (Relafen, or 4-[6-methoxy-2-napthyl]-2-butanone)	S	7.73E+04	2.20E+05	6.23E+05	1.15E+06	1.77E+06	2.47E+06
25134-21-8	Nadic methyl anhydride	L	3.23E+04	9.16E+04	2.60E+05	4.79E+05	7.38E+05	1.03E+06
8030-30-6	Naphtha (coal tar)	S	6.95E+05	1.97E+06	5.60E+06	1.03E+07	1.59E+07	2.23E+07
8030-30-6	Naphtha (coal tar) Liquid	L	6.62E+03	1.88E+04	5.34E+04	9.82E+04	1.51E+05	2.12E+05
64742-89-8	Naphtha (Rubber solvent)	L	6.93E+03	1.97E+04	5.59E+04	1.03E+05	1.59E+05	2.22E+05
64742-48-9	Naphtha, hydrotreated heavy	L	6.48E+03	1.84E+04	5.22E+04	9.61E+04	1.48E+05	2.07E+05
134-32-7	Naphthalenamine, 1-; (1-Naphthylamine)	Pwd	5.41E+03	1.54E+04	4.36E+04	8.03E+04	1.24E+05	1.73E+05
91-20-3	Naphthalene	S	2.03E+05	5.75E+05	1.63E+06	3.01E+06	4.63E+06	6.48E+06
86-86-2	Naphthaleneacetamide, 1-	Pwd	7.73E+03	2.20E+04	6.23E+04	1.15E+05	1.77E+05	2.47E+05
61790-14-5	Naphthenic acid, lead salt	L	5.38E+03	1.53E+04	4.33E+04	7.97E+04	1.23E+05	1.72E+05
91-59-8	Naphthylamine, beta-	S	4.64E+04	1.32E+05	3.74E+05	6.88E+05	1.06E+06	1.48E+06
91-59-8	Naphthylamine, beta-	Pwd	4.64E+03	1.32E+04	3.74E+04	6.88E+04	1.06E+05	1.48E+05
86-88-4	Naphthylthiourea, alpha- (ANTU)	Pwd	1.55E+03	4.39E+03	1.25E+04	2.29E+04	3.54E+04	4.95E+04
86-88-4	Naphthylthiourea, alpha- (ANTU)	S	1.55E+04	4.39E+04	1.25E+05	2.29E+05	3.54E+05	4.95E+05
64741-54-4	Naptha (petoleum), heavy catalytic cracked	L	1.52E+04	4.30E+04	1.22E+05	2.25E+05	3.47E+05	4.85E+05
130-15-4	Napthoquinone, 1,4-	L	1.46E+08	4.15E+08	1.18E+09	2.17E+09	3.34E+09	4.68E+09
130-15-4	Napthoquinone, 1,4-	Pwd	1.16E+03	3.29E+03	9.35E+03	1.72E+04	2.65E+04	3.71E+04
26896-20-8	Neodecanoic acid	L	1.24E+04	3.51E+04	9.96E+04	1.83E+05	2.83E+05	3.96E+05
10024-93-8	Neodymium (III) chloride	L	1.65E+02	4.67E+02	1.33E+03	2.44E+03	3.76E+03	5.27E+03
10024-93-8	Neodymium (III) chloride	G	9.51E+00	2.70E+01	7.66E+01	1.41E+02	2.17E+02	3.04E+02
13536-80-6	Neodymium bromide	Pwd	3.87E+03	1.10E+04	3.12E+04	5.74E+04	8.84E+04	1.24E+05
13536-80-6	Neodymium bromide	S	3.87E+04	1.10E+05	3.12E+05	5.74E+05	8.84E+05	1.24E+06
13709-42-7	Neodymium fluoride	Pwd	3.87E+03	1.10E+04	3.12E+04	5.74E+04	8.84E+04	1.24E+05
16469-17-3	Neodymium hydroxide	S	1.16E+04	3.29E+04	9.35E+04	1.72E+05	2.65E+05	3.71E+05
10045-95-1	Neodymium nitrate	S	7.73E+04	2.20E+05	6.23E+05	1.15E+06	1.77E+06	2.47E+06
z-0054	Neodymium nitrite	S	1.16E+04	3.29E+04	9.35E+04	1.72E+05	2.65E+05	3.71E+05
1313-97-9	Neodymium(III) oxide	Pwd	7.73E+03	2.20E+04	6.23E+04	1.15E+05	1.77E+05	2.47E+05
2023453	Neon	G	6.38E+03	1.81E+04	5.14E+04	9.47E+04	1.46E+05	2.04E+05
7440-01-9	Neon cryogenic liquid	L	7.37E+02	2.09E+03	5.94E+03	1.09E+04	1.69E+04	2.36E+04
7440-02-0	Nickel	S	1.55E+03	4.39E+03	1.25E+04	2.29E+04	3.54E+04	4.95E+04
7440-02-0	Nickel	Pwd	1.55E+02	4.39E+02	1.25E+03	2.29E+03	3.54E+03	4.95E+03
13463-39-3	Nickel carbonyl	L	1.31E+01	3.71E+01	1.05E+02	1.50E+02	1.50E+02	1.50E+02
13463-39-3	Nickel carbonyl	G	6.48E+00	1.84E+01	5.22E+01	5.22E+01	1.48E+02	1.50E+02
7718-54-9	Nickel chloride; (Nickelous chloride)	Cry Pwd	3.09E+02	8.78E+02	2.49E+03	4.59E+03	7.08E+03	9.90E+03
557-19-7	Nickel cyanide	S	2.32E+03	6.59E+03	1.87E+04	3.44E+04	5.31E+04	7.42E+04
3349-06-2	Nickel formate	Pwd	4.64E+02	1.32E+03	3.74E+03	6.88E+03	1.06E+04	1.48E+04
11113-74-9	Nickel Hydroxide	Pwd	2.32E+02	6.59E+02	1.87E+03	3.44E+03	5.31E+03	7.42E+03
6018-94-6	Nickel oxalate (liquids)	L	5.54E+02	1.57E+03	4.46E+03	8.22E+03	1.27E+04	1.77E+04
6018-94-6	Nickel oxalate (solids)	Pwd	3.87E+02	1.10E+03	3.12E+03	5.74E+03	8.84E+03	1.24E+04

1313-99-1	Nickel oxide; (Nickel(II) oxide)	S	1.93E+03	5.49E+03	1.56E+04	2.87E+04	4.42E+04	6.19E+04
12125-56-3	Nickel oxy hydroxide (use Nickelic hydroxide); Nickel(III) hydroxide	Pwd	2.32E+02	6.59E+02	1.87E+03	3.44E+03	5.31E+03	7.42E+03
7440-02-0	Nickel Std Solution	L	1.03E+02	2.93E+02	8.32E+02	1.53E+03	2.36E+03	3.30E+03
13770-89-3	Nickel sulfamate; (Nickel(II) sulfamate)	L	1.84E+04	5.22E+04	1.48E+05	2.73E+05	4.21E+05	5.89E+05
10101-97-0	Nickel sulfate hexahydrate; (Nickel(II) sulfate hexahydrate)	S	6.19E+03	1.76E+04	4.99E+04	9.18E+04	1.42E+05	1.98E+05
7786-81-4	Nickel sulfate; (Nickel(II) sulfate)	S	3.87E+03	1.10E+04	3.12E+04	5.74E+04	8.84E+04	1.24E+05
7791-20-0	Nickel(II) chloride hexahydrate	S	6.19E+03	1.76E+04	4.99E+04	9.18E+04	1.42E+05	1.98E+05
12054-48-7	Nickel(II) hydroxide; (Nickelous hydroxide)	Pwd	2.32E+02	6.59E+02	1.87E+03	3.44E+03	5.31E+03	7.42E+03
12054-48-7	Nickel(II) hydroxide; (Nickelous hydroxide)	S	2.32E+03	6.59E+03	1.87E+04	3.44E+04	5.31E+04	7.42E+04
13478-00-7	Nickel(II) nitrate hexahydrate	L	3.56E+03	1.01E+04	2.87E+04	5.28E+04	8.13E+04	1.14E+05
13138-45-9	Nickel(II) nitrate; (Nickelous nitrate)	L	8.92E+02	2.53E+03	7.18E+03	1.32E+04	2.04E+04	2.85E+04
13138-45-9	Nickel(II) nitrate; (Nickelous nitrate)	S	4.64E+03	1.32E+04	3.74E+04	6.88E+04	1.06E+05	1.48E+05
13478-00-7	Nickel(II) nitratehexahydrate (soluble salts, as Ni)	S	7.73E+03	2.20E+04	6.23E+04	1.15E+05	1.77E+05	2.47E+05
17861-62-0	Nickel(II) nitrite	S	1.55E+03	4.39E+03	1.25E+04	2.29E+04	3.54E+04	4.95E+04
10381-36-9	Nickel(II) phosphate	S	1.55E+03	4.39E+03	1.25E+04	2.29E+04	3.54E+04	4.95E+04
12125-56-3	Nickel(III) hydroxide; (Nickelic hydroxide)	Pwd	2.32E+02	6.59E+02	1.87E+03	3.44E+03	5.31E+03	7.42E+03
22083-74-5	Nicotine salts; (d1-beta-Nicotine; DL-Nicotine)	L	1.10E+06	3.12E+06	8.87E+06	1.63E+07	2.52E+07	3.52E+07
22083-74-5	Nicotine salts; (d1-beta-Nicotine; DL-Nicotine)	Pwd	1.16E+03	3.29E+03	9.35E+03	1.72E+04	2.65E+04	3.71E+04
65-30-5	Nicotine Sulfate	L	5.72E+08	1.62E+09	4.61E+09	8.48E+09	1.31E+10	1.83E+10
65-30-5	Nicotine Sulfate	Pwd	1.39E+02	3.95E+02	1.12E+03	2.06E+03	3.18E+03	4.45E+03
65-30-5	Nicotine Sulfate	S	1.39E+03	3.95E+03	1.12E+04	2.06E+04	3.18E+04	4.45E+04
54-11-5	Nicotine; (Pyridine, (S)-3-(1-methyl-2-pyrrolidinyl)-)	L	5.35E+04	1.52E+05	4.31E+05	7.94E+05	1.22E+06	1.71E+06
10026-12-7	Niobium chloride	Pwd	7.73E+03	2.20E+04	6.23E+04	1.15E+05	1.77E+05	2.47E+05
10026-12-7	Niobium chloride	S	7.73E+04	2.20E+05	6.23E+05	1.15E+06	1.77E+06	2.47E+06
1313-96-8	Niobium(V) oxide	S	7.73E+04	2.20E+05	6.23E+05	1.15E+06	1.77E+06	2.47E+06
1313-96-8	Niobium(V) oxide	Pwd	7.73E+03	2.20E+04	6.23E+04	1.15E+05	1.77E+05	2.47E+05
1929-82-4	Nitrapyrin; (2-Chloro-6-[trichloromethyl]pyridine)	Cry Pwd	6.19E+03	1.76E+04	4.99E+04	9.18E+04	1.42E+05	1.98E+05
14797-55-8	Nitrate Ion Solution	L	4.16E+03	1.18E+04	3.35E+04	6.17E+04	9.51E+04	1.33E+05
14797-55-8	Nitrate(s)	Pwd	3.87E+03	1.10E+04	3.12E+04	5.74E+04	8.84E+04	1.24E+05
7697-37-2	Nitric Acid (between 80% and 94.5%)	L	8.25E+02	2.34E+03	6.64E+03	1.22E+04	1.50E+04	1.50E+04
52583-42-3	Nitric Acid (greater than 94.5%)	L	5.00E+02	5.00E+02	5.00E+02	5.00E+02	5.00E+02	5.00E+02
7697-37-2	Nitric acid (less than 80%)	L	1.12E+04	3.17E+04	9.00E+04	1.66E+05	2.55E+05	3.57E+05
52583-42-3	Nitric acid, white fuming	L	5.12E+03	1.45E+04	4.12E+04	7.59E+04	1.17E+05	1.64E+05
10102-43-9	Nitric oxide	G	1.90E+01	5.39E+01	1.53E+02	2.50E+02	2.50E+02	2.50E+02
LANL-00-07	nitric oxide 1% Bal nitrogen or Helium	G	1.74E+03	4.93E+03	1.40E+04	2.58E+04	3.97E+04	5.56E+04
139-13-9	Nitrilotriacetic acid; (Aminotriacetic acid)	Pwd	7.73E+03	2.20E+04	6.23E+04	1.15E+05	1.77E+05	2.47E+05
88-74-4	Nitroaniline, 2-; (o-Nitroaniline)	Cry Pwd	7.73E+03	2.20E+04	6.23E+04	1.15E+05	1.77E+05	2.47E+05
99-09-2	Nitroaniline, 3-; (m-Nitroaniline)	Cry Pwd	3.09E+03	8.78E+03	2.49E+04	4.59E+04	7.08E+04	9.90E+04
100-01-6	Nitroaniline, p-	Pwd	4.64E+03	5.00E+03	5.00E+03	5.00E+03	5.00E+03	5.00E+03

100-01-6	Nitroaniline, p-	S	5.00E+03	5.00E+03	5.00E+03	5.00E+03	5.00E+03	5.00E+03
98-95-3	Nitrobenzene	L	6.27E+05	1.78E+06	5.05E+06	9.30E+06	1.43E+07	2.01E+07
92-93-3	Nitrobiphenyl, 4- ; (p-Nitrobiphenyl)	Pwd	7.73E+03	2.20E+04	6.23E+04	1.15E+05	1.77E+05	2.47E+05
92-93-3	Nitrobiphenyl, 4- ; (p-Nitrobiphenyl)	S	7.73E+04	2.20E+05	6.23E+05	1.15E+06	1.77E+06	2.47E+06
121-73-3	Nitrochlorobenzene; (Chloronitrobenzene, m-; 3-Nitrochlorobenzene)	Cry Pwd	2.32E+03	6.59E+03	1.87E+04	3.44E+04	5.31E+04	7.42E+04
1122-60-7	Nitrocyclohexane	L	6.80E+04	1.93E+05	5.48E+05	1.01E+06	1.55E+06	2.17E+06
2562-37-0	Nitrocyclohexene, 1-	L	9.52E+02	2.70E+03	7.67E+03	1.41E+04	2.18E+04	3.05E+04
119-75-5	Nitrodiphenylamine, 2-	S	7.73E+04	2.20E+05	6.23E+05	1.15E+06	1.77E+06	2.47E+06
79-24-3	Nitroethane	L	2.08E+04	5.90E+04	1.67E+05	3.08E+05	4.75E+05	6.65E+05
LANL-00-30	nitrogen <4% bal helium	G	1.57E+04	4.45E+04	1.26E+05	2.33E+05	3.59E+05	5.02E+05
10102-44-0	Nitrogen dioxide	G	8.73E+00	2.48E+01	7.03E+01	7.03E+01	2.00E+02	2.50E+02
LANL-00-65	Nitrogen Dioxide <0.2% in helium	G	2.51E+02	7.12E+02	2.02E+03	3.72E+03	5.74E+03	8.03E+03
LANL-00-64	Nitrogen Dioxide 1% in nitrogen	G	3.57E+02	1.01E+03	2.87E+03	5.29E+03	8.15E+03	1.14E+04
10102-44-0	Nitrogen dioxide cyrogenic liquid	L	1.66E+01	4.70E+01	1.33E+02	1.33E+02	2.50E+02	2.50E+02
55-86-7	Nitrogen mustard hydrochloride	Pwd	6.19E+01	1.76E+02	4.99E+02	9.18E+02	1.42E+03	1.98E+03
51-75-2	Nitrogen mustard; (Bis(b-chloroethyl)methylamine)	L	7.28E+04	2.06E+05	5.86E+05	1.08E+06	1.66E+06	2.33E+06
10544-72-6	Nitrogen tetroxide	L	3.33E+01	9.46E+01	2.50E+02	2.50E+02	2.50E+02	2.50E+02
10544-72-6	Nitrogen tetroxide	G	1.16E+01	3.30E+01	9.37E+01	9.37E+01	2.50E+02	2.50E+02
7783-54-2	Nitrogen trifluoride	G	4.49E+02	1.27E+03	3.62E+03	5.00E+03	5.00E+03	5.00E+03
12033-49-7	Nitrogen Trioxide	G	1.96E+02	5.57E+02	1.58E+03	2.91E+03	4.49E+03	6.28E+03
10544-73-7	Nitrogen trioxide; (Dinitrogen trioxide)	L	1.29E+02	2.50E+02	2.50E+02	2.50E+02	2.50E+02	2.50E+02
10544-73-7	Nitrogen trioxide; (Dinitrogen trioxide)	G	2.40E+02	2.50E+02	2.50E+02	2.50E+02	2.50E+02	2.50E+02
7727-37-9	Nitrogen, compressed, cryogenic	G	8.86E+04	2.51E+05	7.14E+05	1.31E+06	2.03E+06	2.83E+06
55-63-0	Nitroglycerin	L	7.26E+04	2.06E+05	5.85E+05	1.08E+06	1.66E+06	2.32E+06
75-52-5	Nitromethane	L	2.50E+03	2.50E+03	2.50E+03	2.50E+03	2.50E+03	2.50E+03
25154-55-6	Nitrophenol (mixed)	Cry Pwd	1.16E+03	3.29E+03	9.35E+03	1.72E+04	2.65E+04	3.71E+04
88-75-5	Nitrophenol, 2-; (o-Nitrophenol)	S	2.32E+04	6.59E+04	1.87E+05	3.44E+05	5.31E+05	7.42E+05
554-84-7	Nitrophenol, 3-; (m-Nitrophenol)	Cry Pwd	2.32E+03	6.59E+03	1.87E+04	3.44E+04	5.31E+04	7.42E+04
100-02-7	Nitrophenol, 4-; (p-Nitrophenol)	Cry Pwd	1.16E+03	3.29E+03	9.35E+03	1.72E+04	2.65E+04	3.71E+04
108-03-2	Nitropropane, 1-	L	4.36E+04	1.24E+05	3.51E+05	6.47E+05	9.98E+05	1.40E+06
79-46-9	Nitropropane, 2-	L	2.50E+03	7.09E+03	2.01E+04	3.71E+04	5.71E+04	7.99E+04
5522-43-0	Nitropyrene, 1-	Cry Pwd	1.55E+02	4.39E+02	1.25E+03	2.29E+03	3.54E+03	4.95E+03
1124-33-0	Nitropyridine-n-oxide, 4-; (Pyridine, 4-nitro-1-oxide)	Pwd	1.24E+03	3.51E+03	9.97E+03	1.84E+04	2.83E+04	3.96E+04
1124-33-0	Nitropyridine-n-oxide, 4-; (Pyridine, 4-nitro-1-oxide)	S	1.24E+04	3.51E+04	9.97E+04	1.84E+05	2.83E+05	3.96E+05
62-75-9	Nitrosodimethylamine	L	1.73E+02	4.91E+02	1.39E+03	2.57E+03	3.96E+03	5.54E+03
156-10-5	Nitrosodiphenylamine, p-	Pwd	2.32E+03	6.59E+03	1.87E+04	3.44E+04	5.31E+04	7.42E+04
621-64-7	Nitrosodipropylamine; (DPNA)	L	8.35E+03	2.37E+04	6.73E+04	1.24E+05	1.91E+05	2.67E+05
59-89-2	Nitrosomorpholine	S	4.64E+03	1.32E+04	3.74E+04	6.88E+04	1.06E+05	1.48E+05

684-93-5	Nitroso-n-methylurea, n-	S	7.73E+03	2.20E+04	6.23E+04	1.15E+05	1.77E+05	2.47E+05
104-91-6	Nitrosophenol, p-	Pwd	3.09E+03	8.78E+03	2.49E+04	4.59E+04	7.08E+04	9.90E+04
104-91-6	Nitrosophenol, p-	S	3.09E+04	8.78E+04	2.49E+05	4.59E+05	7.08E+05	9.90E+05
611-23-4	Nitrosotoluene, p-	Pwd	7.73E+03	2.20E+04	6.23E+04	1.15E+05	1.77E+05	2.47E+05
2696-92-6	Nitrosyl chloride [0.4L ~ 350g]	G	1.03E+00	2.94E+00	8.34E+00	1.53E+01	2.37E+01	3.31E+01
99-08-1	Nitrotoluene, m-	L	3.28E+05	9.32E+05	2.65E+06	4.87E+06	7.51E+06	1.05E+07
88-72-2	Nitrotoluene, o-	L	2.88E+04	8.18E+04	2.32E+05	4.27E+05	6.59E+05	9.22E+05
99-99-0	Nitrotoluene, p-	S	1.73E+05	4.92E+05	1.40E+06	2.57E+06	3.97E+06	5.55E+06
7782-77-6	Nitrous acid	L	3.03E+03	8.61E+03	2.44E+04	4.50E+04	6.94E+04	9.71E+04
10024-97-2	Nitrous oxide	G	5.57E+03	1.58E+04	4.48E+04	8.26E+04	1.27E+05	1.78E+05
LANL-00-66	Nitrous Oxide 10% in nitrogen	G	3.73E+02	1.06E+03	3.00E+03	5.53E+03	8.52E+03	1.19E+04
10024-97-2	Nitrous oxide refridgerated liquid	L	1.20E+02	3.40E+02	9.65E+02	1.78E+03	2.74E+03	3.83E+03
630-03-5	Nonacosane	Cry Pwd	3.87E+03	1.10E+04	3.12E+04	5.74E+04	8.84E+04	1.24E+05
124-19-6	Nonanal	L	4.30E+05	1.22E+06	3.47E+06	6.38E+06	9.84E+06	1.38E+07
111-84-2	Nonane (Shell sol 140)	L	3.51E+04	9.97E+04	2.83E+05	5.21E+05	8.03E+05	1.12E+06
2243-27-8	Nonanenitrile; (1-Octyl cyanide)	L	1.44E+04	4.08E+04	1.16E+05	2.13E+05	3.29E+05	4.60E+05
821-55-6	Nonanone, 2-	L	3.86E+04	1.10E+05	3.11E+05	5.72E+05	8.83E+05	1.23E+06
7311-27-5	Nonoxynol-4	L	7.71E+03	2.19E+04	6.21E+04	1.14E+05	1.76E+05	2.47E+05
84852-15-3	Nonyl phenol (branched)	L	2.07E+05	5.89E+05	1.67E+06	3.08E+06	4.75E+06	6.64E+06
25154-52-3	Nonyl phenol (mixed isomers)	L	2.78E+06	7.88E+06	2.24E+07	4.12E+07	6.35E+07	8.88E+07
104-40-5	Nonyl phenol, p-	L	2.57E+08	7.30E+08	2.07E+09	3.81E+09	5.88E+09	8.23E+09
127087-87-0	Nonylphenol ethoxylate	L	2.83E+05	8.04E+05	2.28E+06	4.20E+06	6.47E+06	9.06E+06
68412-54-4	Nonylphenoxypolyethoxyethanol	L	1.48E+09	4.21E+09	1.19E+10	2.20E+10	3.39E+10	4.74E+10
991-42-4	Norbormide	Pwd	5.88E+01	1.67E+02	4.74E+02	8.72E+02	1.34E+03	1.88E+03
991-42-4	Norbormide	S	5.88E+02	1.67E+03	4.74E+03	8.72E+03	1.34E+04	1.88E+04
z-0057	Norchlorofluoroepibatidine	L	3.93E-02	1.11E-01	3.16E-01	5.82E-01	8.98E-01	1.26E+00
95-55-6	o-Aminophenol; (Aminophenol, o-)	Pwd	7.73E+03	2.20E+04	6.23E+04	1.15E+05	1.77E+05	2.47E+05
3268-87-9	OctaCDD, 1,2,3,4,6,7,8,9-	S	6.19E+01	1.76E+02	4.99E+02	9.18E+02	1.42E+03	1.98E+03
39001-02-0	OctaCDF, 1,2,3,4,6,7,8,9-	S	1.55E+03	4.39E+03	1.25E+04	2.29E+04	3.54E+04	4.95E+04
2234-13-1	Octachloronaphthalene	S	3.87E+02	1.10E+03	3.12E+03	5.74E+03	8.84E+03	1.24E+04
630-02-4	Octacosane	Cry Pwd	3.87E+03	1.10E+04	3.12E+04	5.74E+04	8.84E+04	1.24E+05
57-11-4	Octadecanoic acid, n-; (Stearic acid)	S	2.32E+03	6.59E+03	1.87E+04	3.44E+04	5.31E+04	7.42E+04
112-92-5	Octadecanol, 1-	Cry Pwd	1.28E+05	3.64E+05	1.03E+06	1.90E+06	2.93E+06	4.11E+06
115-25-3	Octafuorocyclobutane; (Cyclooctafluorbutane; Freon C-318)	G	3.79E+05	1.08E+06	3.06E+06	5.63E+06	8.68E+06	1.21E+07
556-67-2	Octamethylcyclotetrasiloxane	L	1.35E+05	3.82E+05	1.08E+06	2.00E+06	3.08E+06	4.31E+06
152-16-9	Octamethyldiphosphoramide; (Octamethylpyrophosphoramide)	L	1.86E+06	5.27E+06	1.50E+07	2.76E+07	4.25E+07	5.94E+07
124-13-0	Octanal; (1-Octanol) (CAPRYLIC ALDEHYDE)	L	1.30E+05	3.68E+05	1.05E+06	1.92E+06	2.97E+06	4.15E+06
111-65-9	Octane, n-	L	2.47E+04	7.02E+04	1.99E+05	3.67E+05	5.66E+05	7.92E+05
3214-41-3	Octanedione, 2,7-	L	1.10E+04	3.11E+04	8.83E+04	1.63E+05	2.51E+05	3.51E+05
124-12-9	Octanenitrile	L	1.16E+05	3.29E+05	9.32E+05	1.72E+06	2.65E+06	3.70E+06

111-13-7	Octanone, 2-	L	1.13E+05	3.22E+05	9.13E+05	1.68E+06	2.59E+06	3.62E+06
111-66-0	Octene, 1-	L	1.37E+03	3.88E+03	1.10E+04	2.03E+04	3.12E+04	4.37E+04
111-87-5	Octyl alcohol; (n-octanol)	L	1.52E+06	4.32E+06	1.23E+07	2.26E+07	3.48E+07	4.87E+07
83242-95-9	Octyl(phenyl)-N,N-diisobutyl carbamoylmethylphosphine oxide	L	6.24E+03	1.77E+04	5.03E+04	9.26E+04	1.43E+05	2.00E+05
13194-48-4	o-Ethyl s,s-dipropylphosphorodithioate; (Mocap PC-84)	L	7.22E+06	2.05E+07	5.82E+07	1.07E+08	1.65E+08	2.31E+08
50782-69-9	O-ethyl-S-(2-iisopropylaminoethyl) methyl Phosphonothiolate (VX)	L	1.01E+04	2.87E+04	8.15E+04	1.50E+05	2.31E+05	3.24E+05
51848-47-6	O-ethyl-S-(2-iisopropylaminoethyl) methyl Phosphonothiolate (VX)	L	1.01E+04	2.87E+04	8.15E+04	1.50E+05	2.31E+05	3.24E+05
53800-40-1	O-ethyl-S-(2-iisopropylaminoethyl) methyl Phosphonothiolate (VX)	L	1.01E+04	2.87E+04	8.15E+04	1.50E+05	2.31E+05	3.24E+05
70938-84-0	O-ethyl-S-(2-iisopropylaminoethyl) methyl Phosphonothiolate (VX)	L	1.01E+04	2.87E+04	8.15E+04	1.50E+05	2.31E+05	3.24E+05
z-0058	Oil gas; (Oil fog)	G	3.39E+02	9.61E+02	2.73E+03	5.02E+03	7.74E+03	1.08E+04
8014-95-7	Oleum; (fuming sulfuric acid)	L	1.00E+04	1.00E+04	1.00E+04	1.00E+04	1.00E+04	1.00E+04
4719-04-4	Onyxide; (s-Triazine-1,3,5(2H,4H,6H)-triethanol)	S	5.41E+04	1.54E+05	4.36E+05	8.03E+05	1.24E+06	1.73E+06
z-0137	Opti-Fluor; (Alkyl benzene blend, 3% tributylphophate)	L	7.26E+05	2.06E+06	5.85E+06	1.08E+07	1.66E+07	2.32E+07
z-0059	Organorhodium complex (PMN–82–147)	Cry Pwd	7.73E+03	2.20E+04	6.23E+04	1.15E+05	1.77E+05	2.47E+05
20816-12-0	Osmium tetroxide	S	1.00E+02	1.00E+02	1.00E+02	1.00E+02	1.00E+02	1.00E+02
20816-12-0	Osmium Tetroxide <4%	L	1.02E+01	2.90E+01	8.24E+01	1.00E+02	1.00E+02	1.00E+02
630-60-4	Ouabain	Pwd	1.93E+02	5.49E+02	1.56E+03	2.87E+03	4.42E+03	6.19E+03
630-60-4	Ouabain	S	1.93E+03	5.49E+03	1.56E+04	2.87E+04	4.42E+04	6.19E+04
144-62-7	Oxalic acid - anhydrous; (Ethanedioic acid)	cry Pwd	7.73E+03	2.20E+04	6.23E+04	1.15E+05	1.77E+05	2.47E+05
144-62-7	Oxalic acid - anhydrous; (Ethanedioic acid)	S	7.73E+04	2.20E+05	6.23E+05	1.15E+06	1.77E+06	2.47E+06
6153-56-6	Oxalic acid - dihydrate	S	7.73E+04	2.20E+05	6.23E+05	1.15E+06	1.77E+06	2.47E+06
23135-22-0	Oxamyl	Pwd	2.32E+02	6.59E+02	1.87E+03	3.44E+03	5.31E+03	7.42E+03
23135-22-0	Oxamyl	S	2.32E+03	6.59E+03	1.87E+04	3.44E+04	5.31E+04	7.42E+04
15980-15-1	Oxathiane, 1,4-	L	8.83E+03	2.51E+04	7.12E+04	1.31E+05	2.02E+05	2.83E+05
96-29-7	Oxime 2-butanone; (Ethyl methyl ketoxime)	L	1.36E+03	3.87E+03	1.10E+04	2.02E+04	3.12E+04	4.36E+04
930-22-3	Oxirane, ethenyl-; (3,4-Epoxy-1-butene)	L	4.80E+01	1.36E+02	3.86E+02	7.11E+02	1.10E+03	1.53E+03
110-99-6	Oxydiacetic acid; (Oxodiacetic acid)	Cry Pwd	3.09E+03	8.78E+03	2.49E+04	4.59E+04	7.08E+04	9.90E+04
58-36-6	Oxydiphenoxarsine, 10,10'-; (Phenoxyarsine oxide)	Pwd	2.17E+02	6.15E+02	1.74E+03	3.21E+03	4.95E+03	6.93E+03
58-36-6	Oxydiphenoxarsine, 10,10'-; (Phenoxyarsine oxide)	S	2.17E+03	6.15E+03	1.74E+04	3.21E+04	4.95E+04	6.93E+04
2497-07-6	Oxydisulfoton	L	4.89E+05	1.39E+06	3.94E+06	7.26E+06	1.12E+07	1.57E+07
7782-44-7	Oxygen (liquid)	L	1.07E+05	3.02E+05	8.58E+05	1.58E+06	2.44E+06	3.41E+06
LANL-00-24	Oxygen <21% bal helium or nitrogen or argon	G	1.39E+05	3.94E+05	1.12E+06	2.06E+06	3.17E+06	4.44E+06
7782-44-7	Oxygen compressed gas	G	2.02E+05	5.74E+05	1.63E+06	3.00E+06	4.63E+06	6.47E+06

7783-41-7	Oxygen difluoride; (Fluorine monoxide)	L	1.51E-01	4.28E-01	1.21E+00	1.21E+00	3.44E+00	4.82E+00
7783-41-7	Oxygen difluoride; (Fluorine monoxide)	G	1.71E-01	4.85E-01	1.38E+00	1.38E+00	3.90E+00	5.46E+00
10028-15-6	Ozone	G	1.52E+00	4.31E+00	1.22E+01	1.22E+01	3.47E+01	4.86E+01
various	Paint Remover	L	2.41E+04	6.85E+04	1.94E+05	3.58E+05	5.52E+05	7.72E+05
z-0138	Paint solvent	L	5.60E+02	1.59E+03	4.51E+03	8.30E+03	1.28E+04	1.79E+04
NA	Paint thinner; (Petroleum 50 thinner)	L	1.96E+04	5.56E+04	1.58E+05	2.91E+05	4.48E+05	6.27E+05
7440-05-3	Palladium	S	3.87E+04	1.10E+05	3.12E+05	5.74E+05	8.84E+05	1.24E+06
7440-05-3	Palladium	Pwd	3.87E+03	1.10E+04	3.12E+04	5.74E+04	8.84E+04	1.24E+05
7647-10-1	Palladium chloride	S	7.73E+04	2.20E+05	6.23E+05	1.15E+06	1.77E+06	2.47E+06
7647-10-1	Palladium chloride	Pwd	7.73E+03	2.20E+04	6.23E+04	1.15E+05	1.77E+05	2.47E+05
7647-10-1	Palladium chloride <5%	L	1.27E+04	3.62E+04	1.03E+05	1.89E+05	2.91E+05	4.08E+05
12135-22-7	Palladium hydroxide <20%	Pwd	1.16E+03	3.29E+03	9.35E+03	1.72E+04	2.65E+04	3.71E+04
8002-74-2	Paraffin, n-	S	7.73E+04	2.20E+05	6.23E+05	1.15E+06	1.77E+06	2.47E+06
63449-39-8	Paraffin, n (chlorinated)	L	1.82E+06	5.16E+06	1.46E+07	2.69E+07	4.16E+07	5.81E+07
63449-39-8	Paraffin, n (chlorinated)	S	7.73E+04	2.20E+05	6.23E+05	1.15E+06	1.77E+06	2.47E+06
64771-72-8	Paraffins, petroleum, normal C5-C20	S	3.58E+05	1.02E+06	2.89E+06	5.32E+06	8.20E+06	1.15E+07
30525-89-4	Paraformaldehyde	Pwd	1.55E+03	4.39E+03	1.25E+04	2.29E+04	3.54E+04	4.95E+04
123-63-7	Paraldehyde	L	1.85E+04	5.26E+04	1.49E+05	2.75E+05	4.24E+05	5.93E+05
4685-14-7	Paraquat	S	2.32E+04	6.59E+04	1.87E+05	3.44E+05	5.31E+05	7.42E+05
1910-42-5	Paraquat dichloride; (Paraquat hydrochloride)	Pwd	1.55E+01	4.39E+01	1.25E+02	2.29E+02	3.54E+02	4.95E+02
1910-42-5	Paraquat dichloride; (Paraquat hydrochloride)	S	1.55E+02	4.39E+02	1.25E+03	2.29E+03	3.54E+03	4.95E+03
2074-50-2	Paraquat methosulfate; (Paraquat dimethyl sulphate)	S	6.19E+03	1.76E+04	4.99E+04	9.18E+04	1.42E+05	1.98E+05
2074-50-2	Paraquat methosulfate; (Paraquat dimethyl sulphate)	Pwd	6.19E+02	1.76E+03	4.99E+03	9.18E+03	1.42E+04	1.98E+04
56-38-2	Parathion	L	1.52E+08	4.31E+08	1.22E+09	2.25E+09	3.47E+09	4.85E+09
12002-03-8	Paris Green; (Cupric acetoarsenite)	Pwd	3.40E+02	9.66E+02	2.74E+03	5.05E+03	7.78E+03	1.09E+04
12002-03-8	Paris Green; (Cupric acetoarsenite)	S	3.40E+03	9.66E+03	2.74E+04	5.05E+04	7.78E+04	1.09E+05
z-0060	Particulate material (PNOS)	S	3.87E+04	1.10E+05	3.12E+05	5.74E+05	8.84E+05	1.24E+06
z-0061	PBX (mixture of HMX and nitrocellulose) [CYCLOTETRAMETHYLENETETRANITRAMINE]	S	7.73E+04	2.20E+05	6.23E+05	1.15E+06	1.77E+06	2.47E+06
z-0061	PBX (mixture of HMX and nitrocellulose) [CYCLOTETRAMETHYLENETETRANITRAMINE]	Pwd	7.73E+03	2.20E+04	6.23E+04	1.15E+05	1.77E+05	2.47E+05
19624-22-7	Pentaborane	L	1.19E+00	3.39E+00	9.61E+00	9.61E+00	2.73E+01	3.82E+01
608-93-5	Pentachlorobenzene	S	6.19E+04	1.76E+05	4.99E+05	9.18E+05	1.42E+06	1.98E+06
608-93-5	Pentachlorobenzene	Pwd	6.19E+03	1.76E+04	4.99E+04	9.18E+04	1.42E+05	1.98E+05
40321-76-4	Pentachlorobenzo-p-dioxin, 1,2,3,7,8-	Pwd	1.16E+00	3.29E+00	9.35E+00	1.72E+01	2.65E+01	3.71E+01
40321-76-4	Pentachlorobenzo-p-dioxin, 1,2,3,7,8-	S	1.16E+01	3.29E+01	9.35E+01	1.72E+02	2.65E+02	3.71E+02
40321-76-4	Pentachlorobenzo-p-dioxin, 1,2,3,7,8- (<1%)	L	1.56E+00	4.42E+00	1.26E+01	2.31E+01	3.56E+01	4.99E+01
57117-41-6	Pentachlorodibenzofuran, 1,2,3,7,8-	S	4.64E+01	1.32E+02	3.74E+02	6.88E+02	1.06E+03	1.48E+03
57117-41-6	Pentachlorodibenzofuran, 1,2,3,7,8- (0.6% solution)	L	3.80E+00	1.08E+01	3.06E+01	5.64E+01	8.70E+01	1.22E+02

57117-31-4	Pentachlorodibenzofuran, 2,3,4,7,8-	S	6.19E+01	1.76E+02	4.99E+02	9.18E+02	1.42E+03	1.98E+03
76-01-7	Pentachloroethane	L	1.05E+05	2.98E+05	8.47E+05	1.56E+06	2.40E+06	3.36E+06
82-68-8	Pentachloronitrobenzene	S	7.73E+04	2.20E+05	6.23E+05	1.15E+06	1.77E+06	2.47E+06
87-86-5	Pentachlorophenol	Pwd	3.87E+01	1.10E+02	3.12E+02	5.74E+02	8.84E+02	1.24E+03
87-86-5	Pentachlorophenol	S	3.87E+02	1.10E+03	3.12E+03	5.74E+03	8.84E+03	1.24E+04
629-62-9	Pentadecane	L	1.47E+05	4.18E+05	1.19E+06	2.18E+06	3.37E+06	4.71E+06
1002-84-2	Pentadecanoic acid	Pwd	7.66E+02	2.18E+03	6.18E+03	1.14E+04	1.75E+04	2.45E+04
2570-26-5	Pentadecylamine	Pwd	1.55E+03	4.39E+03	1.25E+04	2.29E+04	3.54E+04	4.95E+04
2570-26-5	Pentadecylamine	S	1.55E+04	4.39E+04	1.25E+05	2.29E+05	3.54E+05	4.95E+05
115-77-5	Pentaerythritol	S	7.73E+04	2.20E+05	6.23E+05	1.15E+06	1.77E+06	2.47E+06
115-77-5	Pentaerythritol	Cry Pwd	7.73E+03	2.20E+04	6.23E+04	1.15E+05	1.77E+05	2.47E+05
78-11-5	Pentaerythritol tetranitrate	S	7.73E+04	2.20E+05	6.23E+05	1.15E+06	1.77E+06	2.47E+06
109-66-0	Pentane, n-	L	9.78E+02	2.78E+03	7.88E+03	1.45E+04	2.24E+04	3.13E+04
123-54-6	Pentanedione, 2,4-; (Acetylacetone)	L	4.71E+03	1.34E+04	3.80E+04	6.99E+04	1.08E+05	1.51E+05
110-59-8	Pentanenitrile (1-CYANOBUTANE)	L	8.89E+02	2.52E+03	7.16E+03	1.32E+04	2.03E+04	2.84E+04
6032-29-7	Pentanol, 2-; (sec-amyl alcohol, Methyl propyl carbinol, Isoamyl alcohol)	L	7.87E+03	2.23E+04	6.34E+04	1.17E+05	1.80E+05	2.52E+05
107-87-9	Pentanone, 2- (METHYL PROPYL KETONE)	L	3.25E+04	9.22E+04	2.62E+05	4.82E+05	7.43E+05	1.04E+06
630-07-9	Pentatriacontane	S	3.87E+04	1.10E+05	3.12E+05	5.74E+05	8.84E+05	1.24E+06
109-67-1	Pentene, 1-	L	1.93E+04	5.49E+04	1.56E+05	2.87E+05	4.42E+05	6.19E+05
57-33-0	Pentobarbital sodium; (Nembutal sodium)	L	1.32E+03	3.75E+03	1.06E+04	1.96E+04	3.02E+04	4.23E+04
57-33-0	Pentobarbital sodium; (Nembutal sodium)	Cry Pwd	7.73E+02	2.20E+03	6.23E+03	1.15E+04	1.77E+04	2.47E+04
7601-90-3	Perchloric acid	L	5.00E+03	5.00E+03	5.00E+03	5.00E+03	5.00E+03	5.00E+03
127-18-4	Perchloroethylene; (Tetrachloroethylene)	L	4.69E+04	1.33E+05	3.78E+05	6.96E+05	1.07E+06	1.50E+06
594-42-3	Perchloromethyl mercaptan	L	1.13E+02	1.50E+02	1.50E+02	1.50E+02	1.50E+02	1.50E+02
7616-94-6	Perchloryl fluoride; (Chlorine oxyfluoride)	L	6.12E+00	1.74E+01	4.93E+01	4.93E+01	1.40E+02	1.96E+02
7616-94-6	Perchloryl fluoride; (Chlorine oxyfluoride)	G	6.48E+01	1.84E+02	5.22E+02	5.22E+02	1.48E+03	2.07E+03
69991-67-9	Perfluorinated Ether, (Galden HT70)	L	8.54E+06	2.42E+07	6.88E+07	1.27E+08	1.95E+08	2.73E+08
86508-42-1	Perfluoro Compounds	L	7.99E+03	2.27E+04	6.44E+04	1.19E+05	1.83E+05	2.56E+05
382-21-8	Perfluoroisobutylene; (Octafluoro-sec-butene)	G	3.79E-01	1.08E+00	3.06E+00	5.63E+00	8.68E+00	1.21E+01
306-91-2	Perfluorophenanthrene	L	1.72E+06	4.88E+06	1.39E+07	2.55E+07	3.94E+07	5.51E+07
69991-67-9	Perfluoropolyether; (1,1,2,3,3,-hexafluoro-1-propene, oxidized; Vacuum pump oil) [FOMBLIN Y HVAC 25/9]	L	3.21E+06	9.10E+06	2.58E+07	4.76E+07	7.33E+07	1.03E+08
93763-70-3	Perlite (fused NaKAl silicate, < 1% quartz)	S	7.73E+04	2.20E+05	6.23E+05	1.15E+06	1.77E+06	2.47E+06
z-0062	Permafluor E+	L	2.89E+04	8.20E+04	2.33E+05	4.28E+05	6.60E+05	9.24E+05
z-0063	Permafluor-V (85+% toluene)	L	6.34E+03	1.80E+04	5.11E+04	9.40E+04	1.45E+05	2.03E+05
79-21-0	Peroxyacetic acid; (Peracetic acid)	L	3.76E+02	1.00E+03	1.00E+03	1.00E+03	1.00E+03	1.00E+03
79-21-0	Peroxyacetic acid; (Peracetic acid)	L	3.76E+02	1.00E+03	1.00E+03	1.00E+03	1.00E+03	1.00E+03
3313-92-6	Peroxydicarbonic acid, disodium salt	L	1.54E+04	4.38E+04	1.24E+05	2.29E+05	3.53E+05	4.94E+05
z-0064	Petroleum 50 thinner; (Paint thinner)	L	1.60E+04	4.53E+04	1.29E+05	2.37E+05	3.65E+05	5.11E+05
8052-42-5	Petroleum asphalt (see ARO500)	S	3.87E+04	1.10E+05	3.12E+05	5.74E+05	8.84E+05	1.24E+06

64742-45-6	Petroleum distillates, clay-treated light naphthenic	L	9.05E+03	2.57E+04	7.29E+04	1.34E+05	2.07E+05	2.90E+05
8002-05-8	Petroleum distillates; (see PCR250)	L	9.68E+03	2.75E+04	7.80E+04	1.44E+05	2.21E+05	3.10E+05
64742-06-9	Petroleum mineral oil; (... extracts, light paraffinic distillate solvent)	L	1.67E+07	4.73E+07	1.34E+08	2.47E+08	3.81E+08	5.34E+08
8032-32-4	Petroleum spirits; (VM & P Naphtha)	L	3.59E+04	1.02E+05	2.89E+05	5.32E+05	8.20E+05	1.15E+06
64742-88-7	Petroleum spirits; (Mineral Spirits, Naphtha)	L	4.34E+04	1.23E+05	3.50E+05	6.44E+05	9.93E+05	1.39E+06
64475-85-0	Petroleum spirits; (Mineral spirits, Soltrol)	L	1.73E+05	4.92E+05	1.40E+06	2.57E+06	3.97E+06	5.55E+06
8002-05-9	Petroleum; (Petroleum crude oil; see also PCS 250)	L	5.44E+04	1.54E+05	4.38E+05	8.06E+05	1.24E+06	1.74E+06
62-44-2	Phenacetin; (p-acetophenetidide)	Cry Pwd	9.28E+02	2.63E+03	7.48E+03	1.38E+04	2.12E+04	2.97E+04
79-93-6	Phenaglycodol; (Ultran, or 2-p-chlorophenyl-3-methyl-2,3-butanediol)	S	5.41E+04	1.54E+05	4.36E+05	8.03E+05	1.24E+06	1.73E+06
85-01-8	Phenanthrene	S	4.64E+04	1.32E+05	3.74E+05	6.88E+05	1.06E+06	1.48E+06
14634-91-4	Phenanthroline ferrous sulfate o-complex	L	9.28E+03	2.63E+04	7.47E+04	1.38E+05	2.12E+05	2.97E+05
14634-91-4	Phenanthroline ferrous sulfate o-complex	S	3.87E+04	1.10E+05	3.12E+05	5.74E+05	8.84E+05	1.24E+06
108-95-3	Phenol	L	1.77E+05	5.03E+05	1.43E+06	2.63E+06	4.06E+06	5.67E+06
108-95-2	Phenol	S	1.19E+05	3.38E+05	9.59E+05	1.77E+06	2.72E+06	3.81E+06
108-95-2	Phenol	Pwd	1.19E+04	3.38E+04	9.59E+04	1.77E+05	2.72E+05	3.81E+05
77-09-8	Phenolphthalein	Cry Pwd	6.19E+03	1.76E+04	4.99E+04	9.18E+04	1.42E+05	1.98E+05
77-09-8	Phenolphthalein (<2%)	L	3.96E+17	1.12E+18	3.19E+18	5.88E+18	9.06E+18	1.27E+19
696-28-6	Phenyl dichloroarsine; (Dichlorophenylarsine)	L	4.34E+06	1.23E+07	3.49E+07	6.43E+07	9.92E+07	1.39E+08
101-84-8	Phenyl ether; (Diphenyl ether)	L	2.03E+06	5.76E+06	1.64E+07	3.01E+07	4.64E+07	6.49E+07
62-38-4	Phenyl mercury acetate; (Acetylphenylmercury)	S	1.55E+03	4.39E+03	1.25E+04	2.29E+04	3.54E+04	4.95E+04
62-38-4	Phenyl mercury acetate; (Acetylphenylmercury)	Pwd	1.55E+02	4.39E+02	1.25E+03	2.29E+03	3.54E+03	4.95E+03
579-07-7	Phenyl-1,2-propanedione, 1-	L	5.60E+03	1.59E+04	4.51E+04	8.30E+04	1.28E+05	1.79E+05
60-09-3	Phenylazo)aniline, p-; (P-AMINOAZOBENZENE)	S	1.16E+04	3.29E+04	9.35E+04	1.72E+05	2.65E+05	3.71E+05
98-80-6	Phenylboric Acid; (Benzeneboronic acid)	Pwd	4.64E+03	1.32E+04	3.74E+04	6.88E+04	1.06E+05	1.48E+05
104-49-4	Phenylene diisocyanate, 1,4-	Cry Pwd	5.41E+02	1.54E+03	4.36E+03	8.03E+03	1.24E+04	1.73E+04
615-28-1	Phenylenediamine dihydrochloride, 1,2-	Cry Pwd	1.93E+03	5.49E+03	1.56E+04	2.87E+04	4.42E+04	6.19E+04
624-18-0	Phenylenediamine dihydrochloride, 1,4-	Cry Pwd	9.28E+02	2.63E+03	7.48E+03	1.38E+04	2.12E+04	2.97E+04
95-54-5	Phenylenediamine, 1,2-; (o-Phenylenediamine)	L	2.01E+07	5.69E+07	1.62E+08	2.97E+08	4.59E+08	6.42E+08
95-54-5	Phenylenediamine, 1,2-; (o-Phenylenediamine)	Cry Pwd	7.73E+03	2.20E+04	6.23E+04	1.15E+05	1.77E+05	2.47E+05
108-45-2	Phenylenediamine, 1,3-; (m-Phenylenediamine)	L	6.27E+04	1.78E+05	5.06E+05	9.31E+05	1.43E+06	2.01E+06
108-45-2	Phenylenediamine, 1,3-; (m-Phenylenediamine)	S	1.93E+04	5.49E+04	1.56E+05	2.87E+05	4.42E+05	6.19E+05
106-50-3	Phenylenediamine, p-	Cry Pwd	3.87E+02	1.10E+03	3.12E+03	5.74E+03	8.84E+03	1.24E+04
106-50-3	Phenylenediamine, p-	S	3.87E+03	1.10E+04	3.12E+04	5.74E+04	8.84E+04	1.24E+05
100-63-0	Phenylhydrazine	L	2.23E+05	6.33E+05	1.80E+06	3.31E+06	5.10E+06	7.14E+06
59-88-1	Phenylhydrazine hydrochloride	L	6.06E+03	1.72E+04	4.89E+04	8.99E+04	1.39E+05	1.94E+05
59-88-1	Phenylhydrazine hydrochloride	S	3.87E+04	1.10E+05	3.12E+05	5.74E+05	8.84E+05	1.24E+06
59-88-1	Phenylhydrazine hydrochloride	Pwd	3.87E+03	1.10E+04	3.12E+04	5.74E+04	8.84E+04	1.24E+05
90-43-7	Phenylphenol, 2-; (tert-Butylbenzene)	S	7.73E+04	2.20E+05	6.23E+05	1.15E+06	1.77E+06	2.47E+06
638-21-1	Phenylphosphine	L	1.70E+01	4.82E+01	1.37E+02	2.52E+02	3.88E+02	5.43E+02

617-94-7	Phenylpropanol, 2-; (Dimethylphenylmethanol)	L	7.41E+04	2.10E+05	5.97E+05	1.10E+06	1.69E+06	2.37E+06
617-94-7	Phenylpropanol, 2-; (Dimethylphenylmethanol)	S	8.61E+04	2.44E+05	6.94E+05	1.28E+06	1.97E+06	2.76E+06
2097-19-0	Phenylsilatrane	Pwd	1.55E+01	4.39E+01	1.25E+02	2.29E+02	3.54E+02	4.95E+02
2097-19-0	Phenylsilatrane	S	1.55E+02	4.39E+02	1.25E+03	2.29E+03	3.54E+03	4.95E+03
103-85-5	Phenylthiourea; (1-phenyl-2-thiourea)	S	4.64E+02	1.32E+03	3.74E+03	6.88E+03	1.06E+04	1.48E+04
103-85-5	Phenylthiourea; (1-phenyl-2-thiourea)	Pwd	4.64E+01	1.32E+02	3.74E+02	6.88E+02	1.06E+03	1.48E+03
6196-95-8	Phenylxylylethane; (PXE)	L	1.08E+07	3.07E+07	8.70E+07	1.60E+08	2.47E+08	3.46E+08
298-02-2	Phorate	L	3.90E+05	1.11E+06	3.14E+06	5.78E+06	8.91E+06	1.25E+07
4104-14-7	Phosacetim	Pwd	5.72E+01	1.62E+02	4.61E+02	8.49E+02	1.31E+03	1.83E+03
4104-14-7	Phosacetim	S	5.72E+02	1.62E+03	4.61E+03	8.49E+03	1.31E+04	1.83E+04
947-02-4	Phosfolan	Pwd	1.39E+02	3.95E+02	1.12E+03	2.06E+03	3.18E+03	4.45E+03
947-02-4	Phosfolan	S	1.39E+03	3.95E+03	1.12E+04	2.06E+04	3.18E+04	4.45E+04
75-44-5	Phosgene (Carbonic dichloride) [1L ~ 1.1kg]	G	6.25E-01	1.78E+00	5.04E+00	5.04E+00	1.43E+01	2.00E+01
732-11-6	Phosmet	Pwd	6.19E+02	1.76E+03	4.99E+03	9.18E+03	1.42E+04	1.98E+04
732-11-6	Phosmet	S	6.19E+03	1.76E+04	4.99E+04	9.18E+04	1.42E+05	1.98E+05
13171-21-6	Phosphamidon; (Famfos)	L	1.44E+09	4.08E+09	1.16E+10	2.13E+10	3.28E+10	4.59E+10
7803-51-2	Phosphine (Hydrogen Phosphide)	G	1.07E+00	3.05E+00	8.66E+00	8.66E+00	2.46E+01	3.44E+01
19047-85-9	Phosphonic acid, dioctadecyl ester	L	3.50E+02	9.94E+02	2.82E+03	5.20E+03	8.01E+03	1.12E+04
19047-85-9	Phosphonic acid, dioctadecyl ester	S	3.09E+02	8.78E+02	2.49E+03	4.59E+03	7.08E+03	9.90E+03
3076-63-9	Phosphonic acid, tridodecyl ester	S	7.73E+04	2.20E+05	6.23E+05	1.15E+06	1.77E+06	2.47E+06
7664-38-2	Phosphoric acid	S	7.73E+04	2.20E+05	6.23E+05	1.15E+06	1.77E+06	2.47E+06
3254-63-5	Phosphoric acid dimethyl-p-(methylthio)phenyl ester	L	4.14E+06	1.17E+07	3.33E+07	6.14E+07	9.46E+07	1.32E+08
7664-38-3	Phosphoric Acid Liquid	L	1.30E+05	3.70E+05	1.05E+06	1.94E+06	2.98E+06	4.18E+06
7647-19-0	Phosphorous pentafluoride	G	5.97E+01	1.70E+02	4.81E+02	8.86E+02	1.37E+03	1.91E+03
7783-55-3	Phosphorous trifluoride	G	8.34E+01	2.37E+02	6.72E+02	1.24E+03	1.91E+03	2.67E+03
7783-55-3	Phosphorous trifluoride	G	8.35E+01	2.37E+02	6.73E+02	1.24E+03	1.91E+03	2.67E+03
7723-14-0	Phosphorus (Molten)	L	9.07E+04	2.57E+05	7.31E+05	1.34E+06	2.07E+06	2.90E+06
7723-14-0	Phosphorus (red)	S	6.19E+02	1.76E+03	4.99E+03	9.18E+03	1.42E+04	1.98E+04
7723-14-0	Phosphorus (yellow)	S	7.73E+02	2.20E+03	6.23E+03	1.15E+04	1.77E+04	2.47E+04
10025-87-3	Phosphorus oxychloride	L	5.17E+01	1.47E+02	4.17E+02	4.17E+02	1.00E+03	1.00E+03
10025-87-3	Phosphorus oxychloride	L	5.17E+01	1.47E+02	4.17E+02	4.17E+02	1.00E+03	1.00E+03
10026-13-8	Phosphorus pentachloride	S	1.08E+04	3.07E+04	8.72E+04	1.61E+05	2.48E+05	3.46E+05
10026-13-8	Phosphorus pentachloride	Pwd	1.08E+03	3.07E+03	8.72E+03	1.61E+04	2.48E+04	3.46E+04
1314-80-3	Phosphorus pentasulfide	S	3.87E+04	1.10E+05	3.12E+05	5.74E+05	8.84E+05	1.24E+06
1314-56-3	Phosphorus pentoxide	S	7.73E+03	2.20E+04	6.23E+04	1.15E+05	1.77E+05	2.47E+05
7719-12-2	Phosphorus trichloride	L	1.59E+02	4.50E+02	1.00E+03	1.00E+03	1.00E+03	1.00E+03
1314-24-5	Phosphorus trioxide	S	6.19E+03	1.76E+04	4.99E+04	9.18E+04	1.42E+05	1.98E+05
88-99-3	Phthalic acid	S	7.73E+04	2.20E+05	6.23E+05	1.15E+06	1.77E+06	2.47E+06
88-99-3	Phthalic acid	Cry Pwd	7.73E+03	2.20E+04	6.23E+04	1.15E+05	1.77E+05	2.47E+05
85-44-9	Phthalic anhydride	Pwd	9.28E+02	2.63E+03	7.48E+03	1.38E+04	2.12E+04	2.97E+04

85-44-9	Phthalic anhydride	S	9.28E+03	2.63E+04	7.48E+04	1.38E+05	2.12E+05	2.97E+05
57-47-6	Physostigmine	S	6.96E+02	1.98E+03	5.61E+03	1.03E+04	1.59E+04	2.23E+04
57-47-6	Physostigmine	Pwd	6.96E+01	1.98E+02	5.61E+02	1.03E+03	1.59E+03	2.23E+03
57-64-7	Physostigmine salicylate(1:1) [eserine salicylate]	S	3.87E+02	1.10E+03	3.12E+03	5.74E+03	8.84E+03	1.24E+04
57-64-7	Physostigmine salicylate(1:1) [eserine salicylate]	Pwd	3.87E+01	1.10E+02	3.12E+02	5.74E+02	8.84E+02	1.24E+03
88-89-1	Picric acid	Pwd	1.16E+03	3.29E+03	9.35E+03	1.72E+04	2.65E+04	3.71E+04
88-89-1	Picric Acid <40%	L	1.06E+07	3.00E+07	8.52E+07	1.57E+08	2.42E+08	3.38E+08
124-87-8	Picrotoxin	Pwd	2.32E+02	6.59E+02	1.87E+03	3.44E+03	5.31E+03	7.42E+03
124-87-8	Picrotoxin	S	2.32E+03	6.59E+03	1.87E+04	3.44E+04	5.31E+04	7.42E+04
96-64-0	Pinacolyl methyl phosponofluoridate (Soman) (GD)	L	4.28E+01	1.22E+02	3.45E+02	6.35E+02	9.79E+02	1.37E+03
110-85-0	Piperazine, anhydrous	S	7.73E+04	2.20E+05	6.23E+05	1.15E+06	1.77E+06	2.47E+06
110-89-4	Piperidine	L	1.82E+03	5.18E+03	1.47E+04	1.50E+04	1.50E+04	1.50E+04
23505-41-1	Pirimifos-ethyl	L	1.21E+08	3.43E+08	9.74E+08	1.79E+09	2.76E+09	3.87E+09
7440-06-4	Platinum	Pwd	6.19E+01	1.76E+02	4.99E+02	9.18E+02	1.42E+03	1.98E+03
7440-06-4	Platinum	S	6.19E+02	1.76E+03	4.99E+03	9.18E+03	1.42E+04	1.98E+04
592-06-3	Platinum cyanide	L	1.36E+02	3.85E+02	1.09E+03	2.01E+03	3.10E+03	4.34E+03
68649-12-7	Poly alpha olefin; (Synthetic hydrocarbon mixture, PAO)	L	7.92E+04	2.25E+05	6.38E+05	1.17E+06	1.81E+06	2.53E+06
25038-54-4	Polyamide; (Capron; Poly[iminocarbonylpentamethylene)) [Nylon 6]	S	7.73E+04	2.20E+05	6.23E+05	1.15E+06	1.77E+06	2.47E+06
25038-54-4	Polyamide; (Capron; Poly[iminocarbonylpentamethylene)) [Nylon 6]	Cry Pwd	7.73E+03	2.20E+04	6.23E+04	1.15E+05	1.77E+05	2.47E+05
12674-11-2	Polychlorinated biphenyl (Aroclor 1016): (Chlorodiphenyl [41% Cl]; Aroclor 1241)	L	8.07E+06	2.29E+07	6.50E+07	1.20E+08	1.85E+08	2.58E+08
z-0065	Polychlorinated biphenyl (Aroclor 1016/1242): (Chlorodiphenyl [37% Cl])	L	3.24E+08	9.19E+08	2.61E+09	4.80E+09	7.41E+09	1.04E+10
11104-28-2	Polychlorinated biphenyl (Aroclor 1221); (Chlorodiphenyl (21% Cl))	L	3.78E+05	1.07E+06	3.04E+06	5.60E+06	8.64E+06	1.21E+07
11141-16-5	Polychlorinated biphenyl (Aroclor 1232): (Chlorodiphenyl [32% Cl])	L	6.97E+06	1.98E+07	5.62E+07	1.03E+08	1.59E+08	2.23E+08
53469-21-9	Polychlorinated biphenyl (Aroclor 1242); (Chlorodiphenyl (42% Cl))	L	3.11E+06	8.81E+06	2.50E+07	4.61E+07	7.10E+07	9.94E+07
12672-29-6	Polychlorinated biphenyl (Aroclor 1248); (Chlorodiphenyl (48% Cl))	L	3.26E+08	9.26E+08	2.63E+09	4.84E+09	7.46E+09	1.04E+10
11097-69-1	Polychlorinated biphenyl (Aroclor 1254); (Chlorodiphenyl (54% Cl))	L	3.37E+09	9.57E+09	2.72E+10	5.00E+10	7.71E+10	1.08E+11
11096-82-5	Polychlorinated biphenyl (Aroclor 1260); (Chlorodiphenyl (60% Cl))	S	7.73E+02	2.20E+03	6.23E+03	1.15E+04	1.77E+04	2.47E+04
z-0066	Polychlorinated biphenyl (Aroclor 1260/1262): (Chlorodiphenyl [61% Cl?])	S	7.73E+02	2.20E+03	6.23E+03	1.15E+04	1.77E+04	2.47E+04

37324-23-5	Polychlorinated biphenyl (Aroclor 1262): (Chlorodiphenyl [62% Cl])	L	3.24E+08	9.19E+08	2.61E+09	4.80E+09	7.41E+09	1.04E+10
37324-23-5	Polychlorinated biphenyl (Aroclor 1262): (Chlorodiphenyl [62% Cl])	S	7.73E+02	2.20E+03	6.23E+03	1.15E+04	1.77E+04	2.47E+04
11100-14-4	Polychlorinated biphenyl (Aroclor 1268); (Chlorodiphenyl (68% Cl))	L	2.16E+04	6.13E+04	1.74E+05	3.20E+05	4.94E+05	6.91E+05
1336-36-3	Polychlorinated biphenyl; (Aroclor; PCBs)	L	3.45E+03	9.79E+03	2.78E+04	5.11E+04	7.89E+04	1.10E+05
1336-36-3	Polychlorinated biphenyl; (Aroclor; PCBs)	S	7.73E+02	2.20E+03	6.23E+03	1.15E+04	1.77E+04	2.47E+04
9016-00-6	Polydimethyl siloxane: (Dimethylpolysiloxane)	L	8.91E+03	2.53E+04	7.18E+04	1.32E+05	2.04E+05	2.85E+05
109-16-0	Polyester; (Methacrylic acid diester with triethylene glycol)	L	2.83E+08	8.03E+08	2.28E+09	4.20E+09	6.47E+09	9.05E+09
9002-88-4	Polyethylene	Pwd	7.73E+03	2.20E+04	6.23E+04	1.15E+05	1.77E+05	2.47E+05
9002-88-4	Polyethylene	S	7.73E+04	2.20E+05	6.23E+05	1.15E+06	1.77E+06	2.47E+06
25322-68-2	Polyethylene glycol	L	9.88E+08	2.81E+09	7.96E+09	1.47E+10	2.26E+10	3.16E+10
9082-00-2	Polyglycol 15-200: (Calthane NF and ND "B")	L	5.70E+05	1.62E+06	4.59E+06	8.45E+06	1.30E+07	1.82E+07
9046-10-0	Polyoxyalkyleneamine; (Poly(oxypropylene)diamine)	L	5.12E+04	1.45E+05	4.12E+05	7.59E+05	1.17E+06	1.64E+06
9005-64-5	Polyoxyethylene (20) sorbitan monolaurate; (	L	5.56E+05	1.58E+06	4.48E+06	8.24E+06	1.27E+07	1.78E+07
9036-19-5	Polyoxyethylene monooctylphenyl ether	L	3.40E+10	9.65E+10	2.74E+11	5.04E+11	7.77E+11	1.09E+12
8017-16-1	Polyphosphoric acid	L	8.27E+03	2.35E+04	6.67E+04	1.23E+05	1.89E+05	2.65E+05
25322-69-4	Polypropylene glycols	L	1.94E+06	5.51E+06	1.56E+07	2.88E+07	4.44E+07	6.21E+07
25322-69-4	Polypropylene-glycols; (PPG 750, etc.)	L	7.90E+02	2.24E+03	6.37E+03	1.17E+04	1.81E+04	2.53E+04
9003-11-6	Polypropylene-polyethylene glycols	L	3.18E+04	9.03E+04	2.56E+05	4.72E+05	7.27E+05	1.02E+06
9003-53-6	Polystyrene resin; (Styrene polymer)	L	5.37E+03	1.52E+04	4.32E+04	7.96E+04	1.23E+05	1.72E+05
9003-53-6	Polystyrene resin; (Styrene polymer)	S	3.87E+04	1.10E+05	3.12E+05	5.74E+05	8.84E+05	1.24E+06
9009-54-5	Polyurethane foam Liquid; (Urethane polymers)	L	1.46E+02	4.14E+02	1.18E+03	2.17E+03	3.34E+03	4.67E+03
9009-54-5	Polyurethane foam; (Urethane polymers)	S	3.87E+03	1.10E+04	3.12E+04	5.74E+04	8.84E+04	1.24E+05
9002-89-5	Polyvinyl Alcohol	Cry Pwd	3.87E+03	1.10E+04	3.12E+04	5.74E+04	8.84E+04	1.24E+05
9002-86-2	Polyvinyl chloride	S	7.73E+04	2.20E+05	6.23E+05	1.15E+06	1.77E+06	2.47E+06
9002-86-2	Polyvinyl chloride	Pwd	7.73E+03	2.20E+04	6.23E+04	1.15E+05	1.77E+05	2.47E+05
7440-09-7	Potassium	S	1.55E+03	4.39E+03	1.25E+04	2.29E+04	3.54E+04	4.95E+04
127-08-2	Potassium acetate	L	1.03E+04	2.92E+04	8.29E+04	1.53E+05	2.35E+05	3.29E+05
127-08-2	Potassium acetate	S	7.73E+04	2.20E+05	6.23E+05	1.15E+06	1.77E+06	2.47E+06
127-08-2	Potassium acetate	Pwd	7.73E+03	2.20E+04	6.23E+04	1.15E+05	1.77E+05	2.47E+05
12003-63-3	Potassium aluminate	L	4.48E+03	1.27E+04	3.61E+04	6.64E+04	1.02E+05	1.43E+05
12003-63-3	Potassium aluminate	S	2.32E+04	6.59E+04	1.87E+05	3.44E+05	5.31E+05	7.42E+05
z-0067	Potassium aluminite	S	7.73E+04	2.20E+05	6.23E+05	1.15E+06	1.77E+06	2.47E+06
1327-44-2	Potassium aluminosilicate	Cry Pwd	7.73E+03	2.20E+04	6.23E+04	1.15E+05	1.77E+05	2.47E+05
29638-69-5	Potassium antimonate	Pwd	3.09E+03	8.78E+03	2.49E+04	4.59E+04	7.08E+04	9.90E+04
12208-13-8	Potassium antimonate (X)	Pwd	1.55E+03	4.39E+03	1.25E+04	2.29E+04	3.54E+04	4.95E+04
z-0069	Potassium antimonite	S	1.16E+04	3.29E+04	9.35E+04	1.72E+05	2.65E+05	3.71E+05
z-0070	Potassium argentate	S	2.32E+03	6.59E+03	1.87E+04	3.44E+04	5.31E+04	7.42E+04

7784-41-0	Potassium arsenate	Cry Pwd	1.93E+02	5.49E+02	1.56E+03	2.87E+03	4.42E+03	6.19E+03
10124-50-2	Potassium arsenite	Pwd	3.87E+02	1.10E+03	3.12E+03	5.74E+03	8.84E+03	1.24E+04
10124-50-2	Potassium arsenite	S	3.87E+03	1.10E+04	3.12E+04	5.74E+04	8.84E+04	1.24E+05
13464-35-2	Potassium arsenite (X)	Pwd	3.87E+02	1.10E+03	3.12E+03	5.74E+03	8.84E+03	1.24E+04
z-0071	Potassium beryllium oxide	S	4.64E+03	1.32E+04	3.74E+04	6.88E+04	1.06E+05	1.48E+05
298-14-6	Potassium bicarbonate	Cry Pwd	7.73E+03	2.20E+04	6.23E+04	1.15E+05	1.77E+05	2.47E+05
12589-75-2	Potassium bismuthate	S	3.09E+04	8.78E+04	2.49E+05	4.59E+05	7.08E+05	9.90E+05
7646-93-7	Potassium bisulfate, (POTASSIUM HYDROGEN SULFATE)	S	7.73E+04	2.20E+05	6.23E+05	1.15E+06	1.77E+06	2.47E+06
7758-01-2	Potassium bromate	S	1.93E+04	5.49E+04	1.56E+05	2.87E+05	4.42E+05	6.19E+05
7758-01-2	Potassium bromate	Cry Pwd	1.93E+03	5.49E+03	1.56E+04	2.87E+04	4.42E+04	6.19E+04
7758-02-3	Potassium bromide	Cry Pwd	7.73E+03	2.20E+04	6.23E+04	1.15E+05	1.77E+05	2.47E+05
7758-02-3	Potassium bromide	S	7.73E+04	2.20E+05	6.23E+05	1.15E+06	1.77E+06	2.47E+06
z-0072	Potassium cadminate	S	3.09E+03	8.78E+03	2.49E+04	4.59E+04	7.08E+04	9.90E+04
584-08-7	Potassium carbonate	Pwd	7.73E+03	2.20E+04	6.23E+04	1.15E+05	1.77E+05	2.47E+05
584-08-7	Potassium carbonate	S	7.73E+04	2.20E+05	6.23E+05	1.15E+06	1.77E+06	2.47E+06
3811-04-9	Potassium chlorate	Pwd	5.41E+03	1.54E+04	4.36E+04	8.03E+04	1.24E+05	1.73E+05
3811-04-9	Potassium chlorate	Cry pwd	5.41E+03	1.54E+04	4.36E+04	8.03E+04	1.24E+05	1.73E+05
3811-04-9	Potassium chlorate	S	5.41E+04	1.54E+05	4.36E+05	8.03E+05	1.24E+06	1.73E+06
7447-40-7	Potassium chloride	S	2.32E+03	6.59E+03	1.87E+04	3.44E+04	5.31E+04	7.42E+04
7447-40-7	Potassium Chloride Solution <30%	L	3.97E+02	1.13E+03	3.20E+03	5.89E+03	9.08E+03	1.27E+04
7789-00-6	Potassium chromate(VI)	S	7.73E+03	2.20E+04	6.23E+04	1.15E+05	1.77E+05	2.47E+05
866-84-2	Potassium citrate	Pwd	2.32E+03	6.59E+03	1.87E+04	3.44E+04	5.31E+04	7.42E+04
866-84-2	Potassium citrate	S	2.32E+04	6.59E+04	1.87E+05	3.44E+05	5.31E+05	7.42E+05
12030-85-2	Potassium columbate; (Potassium niobate)	Pwd	7.73E+03	2.20E+04	6.23E+04	1.15E+05	1.77E+05	2.47E+05
151-50-8	Potassium cyanide	S	9.28E+03	2.63E+04	7.48E+04	1.38E+05	2.12E+05	2.97E+05
7778-50-9	Potassium dichromate	S	6.19E+03	1.76E+04	4.99E+04	9.18E+04	1.42E+05	1.98E+05
7778-50-9	Potassium Dichromate <1%	L	1.39E+03	3.96E+03	1.12E+04	2.07E+04	3.19E+04	4.46E+04
13746-66-2	Potassium ferricyanide	Pwd	7.73E+03	2.20E+04	6.23E+04	1.15E+05	1.77E+05	2.47E+05
13746-66-2	Potassium ferricyanide	S	7.73E+04	2.20E+05	6.23E+05	1.15E+06	1.77E+06	2.47E+06
7789-23-3	Potassium fluoride	Pwd	7.73E+03	2.20E+04	6.23E+04	1.15E+05	1.77E+05	2.47E+05
7789-23-3	Potassium fluoride	S	7.73E+04	2.20E+05	6.23E+05	1.15E+06	1.77E+06	2.47E+06
590-29-4	Potassium formate	Cry Pwd	7.73E+03	2.20E+04	6.23E+04	1.15E+05	1.77E+05	2.47E+05
1932-50-9	Potassium glycolate	S	5.41E+05	1.54E+06	4.36E+06	8.03E+06	1.24E+07	1.73E+07
z-0073	Potassium hydrogen lead oxide	S	1.93E+04	5.49E+04	1.56E+05	2.87E+05	4.42E+05	6.19E+05
z-0074	Potassium hydrogen pyro-phosphate	S	6.19E+04	1.76E+05	4.99E+05	9.18E+05	1.42E+06	1.98E+06
z-0075	Potassium hydrogen silicate	S	3.87E+04	1.10E+05	3.12E+05	5.74E+05	8.84E+05	1.24E+06
1310-58-3	Potassium hydroxide	S	2.32E+04	6.59E+04	1.87E+05	3.44E+05	5.31E+05	7.42E+05
1310-58-3	Potassium Hydroxide <6%	L	2.87E+03	8.15E+03	2.31E+04	4.26E+04	6.56E+04	9.18E+04
1310-58-3	Potassium Hydroxide-45-50%	L	2.51E+05	7.11E+05	2.02E+06	3.72E+06	5.73E+06	8.02E+06
z-0076	Potassium iminodiacetate; (Potassium IDA)	S	6.61E+05	1.88E+06	5.32E+06	9.80E+06	1.51E+07	2.11E+07
7758-05-6	Potassium iodate	S	9.28E+03	2.63E+04	7.48E+04	1.38E+05	2.12E+05	2.97E+05

7681-11-0	Potassium iodide	S	4.64E+04	1.32E+05	3.74E+05	6.88E+05	1.06E+06	1.48E+06
7681-11-0	Potassium iodide	Pwd	4.64E+03	1.32E+04	3.74E+04	6.88E+04	1.06E+05	1.48E+05
7681-11-0	Potassium Iodide <10%	L	8.90E+03	2.53E+04	7.17E+04	1.32E+05	2.04E+05	2.85E+05
z-0077	Potassium lanthanate	S	3.87E+02	1.10E+03	3.12E+03	5.74E+03	8.84E+03	1.24E+04
13709-94-9	Potassium metaborate	S	7.73E+04	2.20E+05	6.23E+05	1.15E+06	1.77E+06	2.47E+06
13709-94-9	Potassium metaborate	Pwd	7.73E+03	2.20E+04	6.23E+04	1.15E+05	1.77E+05	2.47E+05
13446-49-6	Potassium molybdate	S	7.73E+04	2.20E+05	6.23E+05	1.15E+06	1.77E+06	2.47E+06
z-0079	Potassium nickel oxide (liquids)	L	6.97E+02	1.98E+03	5.61E+03	1.03E+04	1.59E+04	2.23E+04
z-0080	Potassium nickelate (liquids)	L	8.67E+02	2.46E+03	6.98E+03	1.29E+04	1.98E+04	2.77E+04
z-0081	Potassium nickelate (solids)	S	5.41E+03	1.54E+04	4.36E+04	8.03E+04	1.24E+05	1.73E+05
7757-79-1	Potassium nitrate	Pwd	7.73E+03	2.20E+04	6.23E+04	1.15E+05	1.77E+05	2.47E+05
7757-79-1	Potassium nitrate	S	7.73E+04	2.20E+05	6.23E+05	1.15E+06	1.77E+06	2.47E+06
7757-79-1	Potassium Nitrate <20%	L	1.46E+04	4.15E+04	1.18E+05	2.17E+05	3.35E+05	4.68E+05
7758-09-0	Potassium nitrite	S	7.73E+04	2.20E+05	6.23E+05	1.15E+06	1.77E+06	2.47E+06
14293-78-8	Potassium orthovanadate	Pwd	6.19E+02	1.76E+03	4.99E+03	9.18E+03	1.42E+04	1.98E+04
583-52-8	Potassium oxalate	S	7.73E+04	2.20E+05	6.23E+05	1.15E+06	1.77E+06	2.47E+06
7722-64-7	Potassium Permaganate <3%	L	3.58E+03	1.02E+04	2.88E+04	5.31E+04	8.18E+04	1.14E+05
7722-64-7	Potassium permanganate	Pwd	1.93E+03	5.49E+03	1.56E+04	2.87E+04	4.42E+04	6.19E+04
7722-64-7	Potassium permanganate	S	1.93E+04	5.49E+04	1.56E+05	2.87E+05	4.42E+05	6.19E+05
7727-21-1	Potassium persulfate; (Dipotassium persulfate)	S	5.41E+04	1.54E+05	4.36E+05	8.03E+05	1.24E+06	1.73E+06
7727-21-1	Potassium persulfate; (Dipotassium persulfate)	Pwd	5.41E+03	1.54E+04	4.36E+04	8.03E+04	1.24E+05	1.73E+05
14133-76-7	Potassium pertechnetate	Pwd	3.87E+03	1.10E+04	3.12E+04	5.74E+04	8.84E+04	1.24E+05
7758-11-4	Potassium phosphate, dibasic	S	3.87E+04	1.10E+05	3.12E+05	5.74E+05	8.84E+05	1.24E+06
7758-11-4	Potassium phosphate, dibasic	Pwd	3.87E+03	1.10E+04	3.12E+04	5.74E+04	8.84E+04	1.24E+05
7778-77-0	Potassium phosphate, monobasic	S	7.73E+04	2.20E+05	6.23E+05	1.15E+06	1.77E+06	2.47E+06
7778-77-0	Potassium phosphate, monobasic	Cry Pwd	7.73E+03	2.20E+04	6.23E+04	1.15E+05	1.77E+05	2.47E+05
7778-77-0	Potassium phosphate, monobasic	Pwd	7.73E+03	2.20E+04	6.23E+04	1.15E+05	1.77E+05	2.47E+05
7778-77-0	Potassium phosphate, monobasic <14%	L	1.35E+04	3.82E+04	1.08E+05	2.00E+05	3.08E+05	4.31E+05
7778-53-2	Potassium phosphate, tribasic	Pwd	7.73E+03	2.20E+04	6.23E+04	1.15E+05	1.77E+05	2.47E+05
7778-53-2	Potassium phosphate, tribasic	S	7.73E+04	2.20E+05	6.23E+05	1.15E+06	1.77E+06	2.47E+06
7778-53-2	Potassium phosphate, tribasic <25%	L	1.67E+04	4.74E+04	1.35E+05	2.48E+05	3.82E+05	5.34E+05
7320-34-5	Potassium pyrophosphate; (Tetrapotassium diphosphorate)	S	7.73E+04	2.20E+05	6.23E+05	1.15E+06	1.77E+06	2.47E+06
7320-34-5	Potassium pyrophosphate; (Tetrapotassium diphosphorate)	Pwd	7.73E+03	2.20E+04	6.23E+04	1.15E+05	1.77E+05	2.47E+05
7790-62-7	Potassium pyrosulfate; (Disulfuric acid, dipotassium salt)	S	3.87E+04	1.10E+05	3.12E+05	5.74E+05	8.84E+05	1.24E+06
7790-62-7	Potassium pyrosulfate; (Disulfuric acid, dipotassium salt)	Pwd	3.87E+03	1.10E+04	3.12E+04	5.74E+04	8.84E+04	1.24E+05
7790-59-2	Potassium selenate	Cry Pwd	3.87E+01	1.10E+02	3.12E+02	5.74E+02	8.84E+02	1.24E+03
10431-47-7	Potassium selenite	Pwd	3.87E+01	1.10E+02	3.12E+02	5.74E+02	8.84E+02	1.24E+03
506-61-6	Potassium silver cyanide	S	3.09E+03	8.78E+03	2.49E+04	4.59E+04	7.08E+04	9.90E+04

12142-33-5	Potassium stannate	Cry Pwd	1.93E+03	5.49E+03	1.56E+04	2.87E+04	4.42E+04	6.19E+04
z-0083	Potassium strontium phosphate	S	7.73E+04	2.20E+05	6.23E+05	1.15E+06	1.77E+06	2.47E+06
7778-80-5	Potassium sulfate (2:1)	S	7.73E+04	2.20E+05	6.23E+05	1.15E+06	1.77E+06	2.47E+06
7778-80-5	Potassium sulfate <18% solution	L	5.40E+10	1.53E+11	4.35E+11	8.01E+11	1.23E+12	1.73E+12
10117-38-1	Potassium sulfite	Cry Pwd	3.87E+03	1.10E+04	3.12E+04	5.74E+04	8.84E+04	1.24E+05
10117-38-1	Potassium sulfite	Pwd	3.87E+03	1.10E+04	3.12E+04	5.74E+04	8.84E+04	1.24E+05
10117-38-1	Potassium sulfite <43%	L	8.20E+03	2.33E+04	6.61E+04	1.22E+05	1.88E+05	2.62E+05
865-47-4	POTASSIUM T-BUTOXIDE	L	3.32E+04	9.44E+04	2.68E+05	4.93E+05	7.60E+05	1.06E+06
15571-91-2	Potassium tellurate	Cry Pwd	7.73E+01	2.20E+02	6.23E+02	1.15E+03	1.77E+03	2.47E+03
123333-66-4	Potassium tellurite	S	2.32E+03	6.59E+03	1.87E+04	3.44E+04	5.31E+04	7.42E+04
7790-58-1	Potassium tellurite	Pwd	2.32E+02	6.59E+02	1.87E+03	3.44E+03	5.31E+03	7.42E+03
3244-41-5	Potassium tetraphenylborate	Pwd	3.87E+02	1.10E+03	3.12E+03	5.74E+03	8.84E+03	1.24E+04
333-20-0	Potassium thiocyanate	S	9.28E+03	2.63E+04	7.48E+04	1.38E+05	2.12E+05	2.97E+05
333-20-0	Potassium thiocyanate <10%	L	1.45E+03	4.12E+03	1.17E+04	2.15E+04	3.32E+04	4.64E+04
z-0084	Potassium trihydrogen silicate	S	3.87E+04	1.10E+05	3.12E+05	5.74E+05	8.84E+05	1.24E+06
7790-60-5	Potassium tungstate (liquids)	L	7.10E+03	2.01E+04	5.72E+04	1.05E+05	1.62E+05	2.27E+05
7790-60-5	Potassium tungstate (solids)	Pwd	7.73E+01	2.20E+02	6.23E+02	1.15E+03	1.77E+03	2.47E+03
z-0085	Potassium uranyl carbonate	S	2.32E+03	6.59E+03	1.87E+04	3.44E+04	5.31E+04	7.42E+04
12030-98-7	Potassium zirconate	S	1.93E+04	5.49E+04	1.56E+05	2.87E+05	4.42E+05	6.19E+05
10361-80-5	Praseodymium nitrate	Pwd	7.73E+03	2.20E+04	6.23E+04	1.15E+05	1.77E+05	2.47E+05
12036-32-7	Praseodymium oxide	Pwd	7.73E+03	2.20E+04	6.23E+04	1.15E+05	1.77E+05	2.47E+05
63231-67-4	Prep Sep (amorphous silica); SILICA GEL	S	7.73E+03	2.20E+04	6.23E+04	1.15E+05	1.77E+05	2.47E+05
2631-37-0	Promecarb; (m-CYM-5-YL methylcarbamate)	Pwd	3.87E+02	1.10E+03	3.12E+03	5.74E+03	8.84E+03	1.24E+04
2631-37-0	Promecarb; (m-CYM-5-YL methylcarbamate)	S	3.87E+03	1.10E+04	3.12E+04	5.74E+04	8.84E+04	1.24E+05
463-49-0	Propadiene (Allene)	G	1.01E+03	2.88E+03	8.17E+03	1.50E+04	2.32E+04	3.24E+04
107-10-8	Propanamine, 1-; (Propylamine)	L	2.49E+02	7.06E+02	2.00E+03	3.69E+03	5.69E+03	7.96E+03
74-98-6	Propane [19L ~ 9kg]	G	5.86E+02	1.66E+03	4.72E+03	8.69E+03	1.34E+04	1.87E+04
74-98-6	Propane Liquid	L	4.24E+01	1.20E+02	3.41E+02	6.28E+02	9.69E+02	1.36E+03
1120-71-4	Propane sultone, 1,3-	S	3.09E+03	8.78E+03	2.49E+04	4.59E+04	7.08E+04	9.90E+04
78-90-0	Propanediamine, 1,2-	L	1.84E+04	5.23E+04	1.48E+05	2.73E+05	4.21E+05	5.89E+05
109-76-2	Propanediamine, 1,3-	L	1.36E+03	3.87E+03	1.10E+04	2.02E+04	3.12E+04	4.36E+04
109-77-3	Propanedinitrile; (Malononitrile)	L	8.94E+02	2.54E+03	7.21E+03	1.33E+04	2.05E+04	2.86E+04
555-31-7	Propanol (-2) aluminum; Aluminum Isopropoxide	Cry Pwd	7.73E+02	2.20E+03	6.23E+03	1.15E+04	1.77E+04	2.47E+04
107-19-7	Propargyl alcohol	L	1.41E+03	4.00E+03	1.14E+04	2.09E+04	3.22E+04	4.51E+04
106-96-7	Propargyl bromide	L	9.90E+01	1.00E+02	1.00E+02	1.00E+02	1.00E+02	1.00E+02
106-96-7	Propargyl bromide	L	9.90E+01	1.00E+02	1.00E+02	1.00E+02	1.00E+02	1.00E+02
57-57-8	Propiolactone, b-	L	1.56E+03	4.42E+03	1.25E+04	2.31E+04	3.56E+04	4.98E+04
123-38-6	Propionaldehyde	L	5.78E+02	1.64E+03	4.66E+03	8.58E+03	1.32E+04	1.85E+04
79-09-4	Propionic acid	L	1.15E+04	3.25E+04	9.23E+04	1.70E+05	2.62E+05	3.66E+05
763-69-9	Propionic acid, 3-ethoxy-, ethyl ester	L	1.68E+05	4.77E+05	1.35E+06	2.49E+06	3.85E+06	5.38E+06
123-62-6	Propionic anhydride	L	1.87E+05	5.30E+05	1.51E+06	2.77E+06	4.27E+06	5.98E+06
107-12-0	Propionitrile; (Propiononitrile) [ETHYL CYANIDE]	L	9.50E+01	2.70E+02	7.66E+02	1.41E+03	2.17E+03	3.04E+03

79-03-8	Propionyl chloride	L	1.52E+02	4.31E+02	1.22E+03	2.25E+03	3.47E+03	4.86E+03
114-26-1	Propoxur	S	3.09E+03	8.78E+03	2.49E+04	4.59E+04	7.08E+04	9.90E+04
71-23-8	Propyl alcohol, n-	L	1.80E+04	5.11E+04	1.45E+05	2.67E+05	4.11E+05	5.76E+05
109-61-5	Propyl chloroformate; (Propyl chlorocarbonate)	L	4.14E+02	1.17E+03	3.33E+03	6.13E+03	9.46E+03	1.32E+04
627-13-4	Propyl nitrate	L	2.37E+04	6.71E+04	1.91E+05	3.51E+05	5.41E+05	7.57E+05
20193-21-9	Propyl-1-butanamine, N-	L	2.09E+04	5.94E+04	1.69E+05	3.10E+05	4.78E+05	6.69E+05
103-65-1	Propylbenzene, n- (Isocumene)	L	1.01E+05	2.86E+05	8.12E+05	1.49E+06	2.30E+06	3.22E+06
108-32-7	Propylene carbonate, 1,2-	L	1.71E+05	4.85E+05	1.38E+06	2.53E+06	3.90E+06	5.46E+06
6423-43-4	Propylene glycol dinitrate; (Otto fuel)	L	1.06E+05	3.01E+05	8.54E+05	1.57E+06	2.42E+06	3.39E+06
37286649	Propylene glycol methyl ether	L	2.43E+04	6.89E+04	1.95E+05	3.60E+05	5.55E+05	7.76E+05
108-65-6	Propylene glycol monomethyl ether acetate; (1-Methoxypropyl-2-acetate)	L	5.83E+04	1.66E+05	4.70E+05	8.65E+05	1.33E+06	1.87E+06
107-98-2	Propylene glycol monomethyl ether; (UCAR TRIOL HG-170)	L	1.96E+04	5.56E+04	1.58E+05	2.91E+05	4.48E+05	6.27E+05
10215-33-5	Propylene glycol mono-n-butyl ether; (3-butoxy-1-propanol) <45%	L	1.02E+02	2.90E+02	8.24E+02	1.52E+03	2.34E+03	3.27E+03
57-55-6	Propylene glycol; (1,2-Propanediol)	L	2.99E+06	8.49E+06	2.41E+07	4.44E+07	6.84E+07	9.57E+07
75-56-9	Propylene oxide; (Methyl ethylene oxide)	L	5.93E+02	1.68E+03	4.77E+03	8.79E+03	1.00E+04	1.00E+04
75-56-9	Propylene oxide; (Methyl ethylene oxide)	G	2.75E+02	7.82E+02	2.22E+03	4.09E+03	6.30E+03	8.81E+03
115-07-1	Propylene; (1-Propene)	L	4.64E+02	1.32E+03	3.74E+03	6.88E+03	1.06E+04	1.48E+04
115-07-1	Propylene; (1-Propene) [2L ~ 800g]	G	6.39E+03	1.81E+04	5.15E+04	9.47E+04	1.46E+05	2.04E+05
75-55-8	Propyleneimine, 1,2-	L	3.81E+02	1.08E+03	3.07E+03	5.65E+03	8.72E+03	1.00E+04
2275-18-5	Prothoate; (Isopropyl diethyldithiophosphorylacetamide)	S	1.16E+03	3.29E+03	9.35E+03	1.72E+04	2.65E+04	3.71E+04
2275-18-5	Prothoate; (Isopropyl diethyldithiophosphorylacetamide)	Pwd	1.16E+02	3.29E+02	9.35E+02	1.72E+03	2.65E+03	3.71E+03
64742-65-0	Pump oil	L	1.29E+08	3.65E+08	1.04E+09	1.91E+09	2.94E+09	4.12E+09
129-00-0	Pyrene	S	2.32E+03	6.59E+03	1.87E+04	3.44E+04	5.31E+04	7.42E+04
129-00-0	Pyrene	Pwd	2.32E+02	6.59E+02	1.87E+03	3.44E+03	5.31E+03	7.42E+03
110-86-1	Pyridine	L	1.58E+04	4.48E+04	1.27E+05	2.34E+05	3.61E+05	5.05E+05
53558-25-1	Pyriminil; (Pyriminyl)	Pwd	3.09E+02	8.78E+02	2.49E+03	4.59E+03	7.08E+03	9.90E+03
53558-25-1	Pyriminil; (Pyriminyl)	S	3.09E+03	8.78E+03	2.49E+04	4.59E+04	7.08E+04	9.90E+04
89-05-4	Pyromellitic acid [1,2,4,5-BENZENETETRACARBOXYLIC ACID]	Pwd	1.93E+03	5.49E+03	1.56E+04	2.87E+04	4.42E+04	6.19E+04
9004-70-0	Pyroxylin; (Cellulose tetranitrate)	S	2.50E+03	2.50E+03	2.50E+03	2.50E+03	2.50E+03	2.50E+03
123-75-1	Pyrrolidine	L	1.18E+03	3.34E+03	9.47E+03	1.74E+04	2.69E+04	3.76E+04
616-45-5	Pyrrolidinone, 2-	L	1.53E+06	4.34E+06	1.23E+07	2.27E+07	3.50E+07	4.89E+07
616-45-5	Pyrrolidinone, 2-	S	2.15E+04	6.11E+04	1.73E+05	3.19E+05	4.92E+05	6.89E+05
127-17-3	Pyruvate Acid	L	1.22E+04	3.46E+04	9.82E+04	1.81E+05	2.79E+05	3.90E+05
68424-85-1	Quaternary ammonium compounds, benzyl-C12-C16-alkyldimethyl, chlorides	L	1.14E+03	3.23E+03	9.17E+03	1.69E+04	2.60E+04	3.64E+04
106-34-3	Quinhydrone	Cry Pwd	4.64E+02	1.32E+03	3.74E+03	6.88E+03	1.06E+04	1.48E+04

106-34-3	Quinhydrone	S	4.64E+03	1.32E+04	3.74E+04	6.88E+04	1.06E+05	1.48E+05
91-22-5	Quinoline	L	1.14E+04	3.23E+04	9.16E+04	1.69E+05	2.60E+05	3.64E+05
148-24-3	Quinolinol, 8-	Pwd	7.73E+03	2.20E+04	6.23E+04	1.15E+05	1.77E+05	2.47E+05
various	Rapid Tap	L	1.40E+04	3.97E+04	1.13E+05	2.08E+05	3.20E+05	4.48E+05
108-46-3	Resorcinol	Pwd	1.39E+03	3.95E+03	1.12E+04	2.07E+04	3.18E+04	4.46E+04
108-46-3	Resorcinol	S	1.39E+04	3.95E+04	1.12E+05	2.07E+05	3.18E+05	4.46E+05
7440-15-5	Rhenium	S	8.35E+04	2.37E+05	6.73E+05	1.24E+06	1.91E+06	2.67E+06
7440-15-5	Rhenium	Pwd	8.35E+03	2.37E+04	6.73E+04	1.24E+05	1.91E+05	2.67E+05
10466-65-6	RHENIUM ATOMIC ABSORPTION STANDARD <0.1%	L	8.53E+02	2.42E+03	6.87E+03	1.26E+04	1.95E+04	2.73E+04
1314-68-7	Rhenium oxide; (Rhenium(VII) oxide)	Pwd	4.64E+02	1.32E+03	3.74E+03	6.88E+03	1.06E+04	1.48E+04
7440-16-6	Rhodium	S	1.55E+04	4.39E+04	1.25E+05	2.29E+05	3.54E+05	4.95E+05
7440-16-6	Rhodium	Pwd	1.55E+03	4.39E+03	1.25E+04	2.29E+04	3.54E+04	4.95E+04
7440-16-6	Rhodium AA Standard <0.1%	L	1.99E+03	5.66E+03	1.61E+04	2.96E+04	4.56E+04	6.38E+04
12137-27-8	Rhodium oxide (liquids); (Rhodium(IV) oxide)	L	3.88E+02	1.10E+03	3.12E+03	5.75E+03	8.87E+03	1.24E+04
12137-27-8	Rhodium oxide (solids); (Rhodium((IV) oxide)	Pwd	1.93E+03	5.49E+03	1.56E+04	2.87E+04	4.42E+04	6.19E+04
21656-02-0	Rhodium(III) hydroxide (liquids)	L	6.75E+01	1.92E+02	5.44E+02	1.00E+03	1.54E+03	2.16E+03
21656-02-0	Rhodium(III) hydroxide (solids)	S	2.32E+04	6.59E+04	1.87E+05	3.44E+05	5.31E+05	7.42E+05
12036-35-0	Rhodium(III) oxide (solids)	Cry Pwd	1.93E+03	5.49E+03	1.56E+04	2.87E+04	4.42E+04	6.19E+04
9026-12-4	Ribonuclease T1	L	5.02E+03	1.43E+04	4.04E+04	7.45E+04	1.15E+05	1.61E+05
9009-86-3	Ricin	S	2.32E+02	6.59E+02	1.87E+03	3.44E+03	5.31E+03	7.42E+03
83-79-4	Rotenone	Pwd	7.73E+03	2.20E+04	6.23E+04	1.15E+05	1.77E+05	2.47E+05
83-79-4	Rotenone	S	7.73E+04	2.20E+05	6.23E+05	1.15E+06	1.77E+06	2.47E+06
7789-39-1	Rubidium bromide	Cry Pwd	3.87E+03	1.10E+04	3.12E+04	5.74E+04	8.84E+04	1.24E+05
7789-39-1	Rubidium bromide	S	3.87E+04	1.10E+05	3.12E+05	5.74E+05	8.84E+05	1.24E+06
7789-39-1	Rubidium bromide	Pwd	3.87E+03	1.10E+04	3.12E+04	5.74E+04	8.84E+04	1.24E+05
7791-11-9	Rubidium chloride	Cry Pwd	7.73E+03	2.20E+04	6.23E+04	1.15E+05	1.77E+05	2.47E+05
7791-11-9	Rubidium chloride	S	7.73E+04	2.20E+05	6.23E+05	1.15E+06	1.77E+06	2.47E+06
1310-82-3	Rubidium hydroxide	Cry Pwd	3.87E+03	1.10E+04	3.12E+04	5.74E+04	8.84E+04	1.24E+05
1310-82-3	Rubidium hydroxide (50% wt)	L	8.55E+03	2.43E+04	6.89E+04	1.27E+05	1.96E+05	2.74E+05
13126-12-0	Rubidium nitrate	S	7.73E+04	2.20E+05	6.23E+05	1.15E+06	1.77E+06	2.47E+06
13126-12-0	Rubidium nitrate	Pwd	7.73E+03	2.20E+04	6.23E+04	1.15E+05	1.77E+05	2.47E+05
7440-18-8	Ruthenium	Pwd	3.87E+03	1.10E+04	3.12E+04	5.74E+04	8.84E+04	1.24E+05
10049-08-8	Ruthenium trichloride	S	2.32E+04	6.59E+04	1.87E+05	3.44E+05	5.31E+05	7.42E+05
12036-10-1	Ruthenium(IV) oxide	Cry Pwd	2.32E+02	6.59E+02	1.87E+03	3.44E+03	5.31E+03	7.42E+03
94-59-7	Safrol; (1,3-Benzodioxole, 5-(2-propenyl)-)	L	2.50E+05	7.09E+05	2.01E+06	3.70E+06	5.71E+06	7.99E+06
14167-18-1	Salcomine; (bis[Salicylaldehyde]ethylenediimine cobalt[II])	S	6.19E+04	1.76E+05	4.99E+05	9.18E+05	1.42E+06	1.98E+06
14167-18-1	Salcomine; (bis[Salicylaldehyde]ethylenediimine cobalt[II])	Pwd	6.19E+03	1.76E+04	4.99E+04	9.18E+04	1.42E+05	1.98E+05
69-72-7	Salicylic acid	Cry Pwd	6.19E+03	1.76E+04	4.99E+04	9.18E+04	1.42E+05	1.98E+05
69-72-7	Salicylic acid	S	6.19E+04	1.76E+05	4.99E+05	9.18E+05	1.42E+06	1.98E+06

10361-83-8	Samarium nitrate	S	7.73E+04	2.20E+05	6.23E+05	1.15E+06	1.77E+06	2.47E+06
12060-58-1	Samarium(III) oxide	Pwd	7.73E+03	2.20E+04	6.23E+04	1.15E+05	1.77E+05	2.47E+05
50642-23-4	Sarin (Isopropyl methylphosphonofluoridate GB)	L	1.59E+02	4.51E+02	1.28E+03	2.36E+03	3.63E+03	5.09E+03
107-44-8	Sarin; (Isopropyl methanefluorophosphonate, GB)	L	1.00E+02	1.00E+02	1.00E+02	1.00E+02	1.00E+02	1.00E+02
12060-08-1	Scandium oxide	Pwd	3.87E+03	1.10E+04	3.12E+04	5.74E+04	8.84E+04	1.24E+05
z-0140	Scintillation cocktail, Ultima Gold XR	L	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
78-92-2	Sec-butanol	L	4.97E+04	1.41E+05	4.00E+05	7.37E+05	1.14E+06	1.59E+06
7783-00-8	Selenious acid	S	2.32E+02	6.59E+02	1.87E+03	3.44E+03	5.31E+03	7.42E+03
7783-00-8	Selenious acid	Pwd	2.32E+01	6.59E+01	1.87E+02	3.44E+02	5.31E+02	7.42E+02
7783-00-8	Selenious acid	L	2.32E-01	6.59E-01	1.87E+00	3.44E+00	5.31E+00	7.42E+00
7783-00-8	Selenious Acid <0.13%	L	3.97E+01	1.13E+02	3.20E+02	5.89E+02	9.09E+02	1.27E+03
7782-49-2	Selenium	Pwd	1.86E+03	5.27E+03	1.50E+04	2.75E+04	4.25E+04	5.94E+04
7782-49-2	Selenium	S	1.86E+04	5.27E+04	1.50E+05	2.75E+05	4.25E+05	5.94E+05
7446-08-4	Selenium dioxide	Cry Pwd	2.01E+01	5.71E+01	1.62E+02	2.98E+02	4.60E+02	6.43E+02
7446-08-4	Selenium dioxide	S	2.01E+02	5.71E+02	1.62E+03	2.98E+03	4.60E+03	6.43E+03
7783-79-1	Selenium hexafluoride	G	6.10E+00	1.73E+01	4.91E+01	4.91E+01	1.39E+02	1.95E+02
7446-34-6	Selenium monosulfide	S	2.32E+03	6.59E+03	1.87E+04	3.44E+04	5.31E+04	7.42E+04
7791-23-3	Selenium oxychloride	L	1.36E+03	3.85E+03	1.09E+04	2.01E+04	3.11E+04	4.34E+04
7488-56-4	Selenium sulfide; (Se(IV) disulfide (1:2))	S	9.28E+03	2.63E+04	7.48E+04	1.38E+05	2.12E+05	2.97E+05
563-41-7	Semicarbazide hydrochloride	L	2.72E+05	7.71E+05	2.19E+06	4.03E+06	6.21E+06	8.69E+06
563-41-7	Semicarbazide hydrochloride	Pwd	1.55E+03	4.39E+03	1.25E+04	2.29E+04	3.54E+04	4.95E+04
563-41-7	Semicarbazide hydrochloride	S	1.55E+04	4.39E+04	1.25E+05	2.29E+05	3.54E+05	4.95E+05
7803-62-5	Silane	G	8.13E+02	2.31E+03	6.55E+03	1.21E+04	1.86E+04	2.60E+04
1343-98-2	Silica Gel, SILICIC ACID HYDRATE	S	2.78E+03	7.90E+03	2.24E+04	4.13E+04	6.37E+04	8.91E+04
69012-64-2	Silica, amorphous fume	Pwd	7.73E+02	2.20E+03	6.23E+03	1.15E+04	1.77E+04	2.47E+04
112945-52-5	Silica, amorphous fumed	Pwd	7.73E+03	2.20E+04	6.23E+04	1.15E+05	1.77E+05	2.47E+05
7631-86-9	Silica, amorphous hydrated	Pwd	7.73E+03	2.20E+04	6.23E+04	1.15E+05	1.77E+05	2.47E+05
14808-60-7	Silica-crystalline (quartz); (Silicon dioxide)	S	7.73E+03	2.20E+04	6.23E+04	1.15E+05	1.77E+05	2.47E+05
7699-41-4	Silicic acid	S	6.19E+04	1.76E+05	4.99E+05	9.18E+05	1.42E+06	1.98E+06
7699-41-4	Silicic acid	Pwd	6.19E+03	1.76E+04	4.99E+04	9.18E+04	1.42E+05	1.98E+05
1309-45-1	Silicofluoric acid; (Fluorosilicic acid)	L	1.53E+02	4.35E+02	1.23E+03	2.27E+03	3.50E+03	4.90E+03
16961-83-4	Silicofluoric acid; (Fluorosilicic acid) <40%	L	1.53E+02	4.35E+02	1.23E+03	2.27E+03	3.50E+03	4.90E+03
7440-21-3	Silicon	L	7.68E+05	2.18E+06	6.19E+06	1.14E+07	1.76E+07	2.46E+07
7440-21-3	Silicon	Pwd	7.73E+03	2.20E+04	6.23E+04	1.15E+05	1.77E+05	2.47E+05
7440-21-3	Silicon	S	7.73E+04	2.20E+05	6.23E+05	1.15E+06	1.77E+06	2.47E+06
10097-28-6	Silicon (II) oxide (SILICON MONOXIDE)	Pwd	3.87E+03	1.10E+04	3.12E+04	5.74E+04	8.84E+04	1.24E+05
10097-28-6	Silicon (II) oxide (SILICON MONOXIDE)	S	3.87E+04	1.10E+05	3.12E+05	5.74E+05	8.84E+05	1.24E+06
409-21-2	Silicon carbide	S	3.87E+04	1.10E+05	3.12E+05	5.74E+05	8.84E+05	1.24E+06
409-21-2	Silicon carbide	Pwd	3.87E+03	1.10E+04	3.12E+04	5.74E+04	8.84E+04	1.24E+05
7783-61-1	Silicon tetrafluoride; (Tetrafluorosilane)	G	6.58E+01	1.87E+02	5.30E+02	9.76E+02	1.51E+03	2.11E+03

541-02-6	Silicone (several formulations); (Decamethylcyclopentasiloxane)	L	8.35E+05	2.37E+06	6.72E+06	1.24E+07	1.91E+07	2.67E+07
67762-90-7	Siloxanes and silicones, (HYDROPHOBIC SILICON DIOXIDE, AMORPHOUS)	Pwd	1.24E+01	3.51E+01	9.97E+01	1.84E+02	2.83E+02	3.96E+02
63148-58-3	Siloxanes and silicones; (Silicone fluid, high temp)	L	1.89E+04	5.38E+04	1.53E+05	2.81E+05	4.33E+05	6.06E+05
7440-22-4	Silver	S	1.55E+03	4.39E+03	1.25E+04	2.29E+04	3.54E+04	4.95E+04
7440-22-4	Silver	Pwd	1.55E+02	4.39E+02	1.25E+03	2.29E+03	3.54E+03	4.95E+03
534-16-7	Silver carbonate; (Silver(I) carbonate)	S	1.93E+03	5.49E+03	1.56E+04	2.87E+04	4.42E+04	6.19E+04
7783-90-6	Silver chloride	S	7.73E+04	2.20E+05	6.23E+05	1.15E+06	1.77E+06	2.47E+06
7783-90-6	Silver chloride	Pwd	7.73E+03	2.20E+04	6.23E+04	1.15E+05	1.77E+05	2.47E+05
506-64-9	Silver cyanide	Pwd	1.93E+03	5.49E+03	1.56E+04	2.87E+04	4.42E+04	6.19E+04
z-0086	Silver hydroxide	S	1.55E+03	4.39E+03	1.25E+04	2.29E+04	3.54E+04	4.95E+04
7761-88-8	Silver nitrate	S	2.32E+03	6.59E+03	1.87E+04	3.44E+04	5.31E+04	7.42E+04
7761-88-8	Silver nitrate <5%	L	4.57E+02	1.30E+03	3.68E+03	6.78E+03	1.05E+04	1.46E+04
7783-99-5	Silver nitrite; (Silver(I) nitrite)	Cry Pwd	1.93E+02	5.49E+02	1.56E+03	2.87E+03	4.42E+03	6.19E+03
20667-12-3	Silver oxide	S	7.73E+03	2.20E+04	6.23E+04	1.15E+05	1.77E+05	2.47E+05
20667-12-3	Silver oxide	Pwd	7.73E+02	2.20E+03	6.23E+03	1.15E+04	1.77E+04	2.47E+04
7440-22-4	Silver Std Solution <1%	L	1.26E+02	3.59E+02	1.02E+03	1.88E+03	2.89E+03	4.05E+03
1330-43-4	Sodium (tetra)borate, di-	Pwd	3.87E+02	1.10E+03	3.12E+03	5.74E+03	8.84E+03	1.24E+04
1330-43-4	Sodium (tetra)borate, di-	Cry Pwd	3.87E+02	1.10E+03	3.12E+03	5.74E+03	8.84E+03	1.24E+04
127-09-3	Sodium acetate	Cry Pwd	7.73E+03	2.20E+04	6.23E+04	1.15E+05	1.77E+05	2.47E+05
127-09-3	Sodium acetate	S	7.73E+04	2.20E+05	6.23E+05	1.15E+06	1.77E+06	2.47E+06
127-09-3	Sodium acetate solution	L	2.54E+11	7.21E+11	2.05E+12	3.77E+12	5.81E+12	8.13E+12
6131-90-4	Sodium Acetate Trihydrate	S	9.28E+03	2.63E+04	7.48E+04	1.38E+05	2.12E+05	2.97E+05
1302-42-7	Sodium aluminate, (ALUMINUM SODIUM DIOXIDE)	S	7.73E+03	2.20E+04	6.23E+04	1.15E+05	1.77E+05	2.47E+05
11138-49-1	Sodium aluminate; (Aluminum sodium oxide)	L	8.22E+03	2.33E+04	6.62E+04	1.22E+05	1.88E+05	2.63E+05
11138-49-1	Sodium aluminate; (Aluminum sodium oxide)	Pwd	7.73E+03	2.20E+04	6.23E+04	1.15E+05	1.77E+05	2.47E+05
1344-00-9	Sodium aluminosilicate	S	7.73E+04	2.20E+05	6.23E+05	1.15E+06	1.77E+06	2.47E+06
12011-76-6	Sodium aluminum carbonate dihydroxide; (Dawsonite)	S	7.73E+04	2.20E+05	6.23E+05	1.15E+06	1.77E+06	2.47E+06
73987-94-7	Sodium aluminum silicate	S	7.73E+04	2.20E+05	6.23E+05	1.15E+06	1.77E+06	2.47E+06
15593-75-6	Sodium antimonate	Pwd	1.16E+03	3.29E+03	9.35E+03	1.72E+04	2.65E+04	3.71E+04
33908-66-6	Sodium antimonate	S	1.16E+04	3.29E+04	9.35E+04	1.72E+05	2.65E+05	3.71E+05
11112-10-0	Sodium antimonate; (Antimonic acid, sodium salt)	Pwd	1.55E+03	4.39E+03	1.25E+04	2.29E+04	3.54E+04	4.95E+04
z-0087	Sodium antimonite	S	1.16E+04	3.29E+04	9.35E+04	1.72E+05	2.65E+05	3.71E+05
z-0088	Sodium argentate	S	2.32E+03	6.59E+03	1.87E+04	3.44E+04	5.31E+04	7.42E+04
7631-89-2	Sodium arsenate	Pwd	1.93E+02	5.49E+02	1.56E+03	2.87E+03	4.42E+03	6.19E+03
7631-89-2	Sodium arsenate	S	1.93E+03	5.49E+03	1.56E+04	2.87E+04	4.42E+04	6.19E+04
7784-46-5	Sodium arsenite	Pwd	1.16E+02	3.29E+02	9.35E+02	1.72E+03	2.65E+03	3.71E+03
7784-46-5	Sodium arsenite	S	1.16E+03	3.29E+03	9.35E+03	1.72E+04	2.65E+04	3.71E+04
7784-46-5	Sodium Arsenite <7%	L	1.99E+02	5.65E+02	1.60E+03	2.95E+03	4.55E+03	6.37E+03

26628-22-8	Sodium azide	Pwd	1.93E+02	5.49E+02	1.56E+03	2.87E+03	4.42E+03	6.19E+03
26628-22-8	Sodium azide	S	1.93E+03	5.49E+03	1.56E+04	2.87E+04	4.42E+04	6.19E+04
26628-22-8	Sodium Azide <0.1%	L	2.65E+02	7.51E+02	2.13E+03	3.92E+03	6.05E+03	8.46E+03
z-0089	Sodium beryllium oxide	Pwd	3.87E+02	1.10E+03	3.12E+03	5.74E+03	8.84E+03	1.24E+04
144-55-8	Sodium bicarbonate	Cry Pwd	7.73E+03	2.20E+04	6.23E+04	1.15E+05	1.77E+05	2.47E+05
144-55-8	Sodium bicarbonate	S	7.73E+04	2.20E+05	6.23E+05	1.15E+06	1.77E+06	2.47E+06
1333-83-1	Sodium bifluoride; (Sodium hydrogen fluoride)	Cry Pwd	5.41E+02	1.54E+03	4.36E+03	8.03E+03	1.24E+04	1.73E+04
12232-99-4	Sodium bismuthate	Cry Pwd	2.32E+03	6.59E+03	1.87E+04	3.44E+04	5.31E+04	7.42E+04
7681-38-1	Sodium bisulfate; (Sodium acid sulfate)	Cry Pwd	1.93E+03	5.49E+03	1.56E+04	2.87E+04	4.42E+04	6.19E+04
7681-38-1	Sodium bisulfate; (Sodium acid sulfate)	S	1.93E+04	5.49E+04	1.56E+05	2.87E+05	4.42E+05	6.19E+05
7631-90-5	Sodium bisulfite	Cry Pwd	7.73E+03	2.20E+04	6.23E+04	1.15E+05	1.77E+05	2.47E+05
7631-90-5	Sodium bisulfite	Pwd	7.73E+03	2.20E+04	6.23E+04	1.15E+05	1.77E+05	2.47E+05
7631-90-5	Sodium bisulfite	S	7.73E+04	2.20E+05	6.23E+05	1.15E+06	1.77E+06	2.47E+06
7631-90-5	Sodium bisulfite <40%	L	9.55E+03	2.71E+04	7.70E+04	1.42E+05	2.18E+05	3.06E+05
1303-96-4	Sodium borate decahydrate	Cry Pwd	7.73E+03	2.20E+04	6.23E+04	1.15E+05	1.77E+05	2.47E+05
1303-96-4	Sodium borate decahydrate	S	7.73E+04	2.20E+05	6.23E+05	1.15E+06	1.77E+06	2.47E+06
16940-66-2	Sodium borohydride	L	2.51E+09	7.12E+09	2.02E+10	3.72E+10	5.74E+10	8.03E+10
16940-66-2	Sodium borohydride	Pwd	1.16E+02	3.29E+02	9.35E+02	1.72E+03	2.65E+03	3.71E+03
16940-66-2	Sodium borohydride	S	1.16E+03	3.29E+03	9.35E+03	1.72E+04	2.65E+04	3.71E+04
7789-38-0	Sodium bromate	Pwd	9.28E+02	2.63E+03	7.48E+03	1.38E+04	2.12E+04	2.97E+04
7789-38-0	Sodium bromate	S	9.28E+03	2.63E+04	7.48E+04	1.38E+05	2.12E+05	2.97E+05
7647-15-6	Sodium bromide	S	7.73E+04	2.20E+05	6.23E+05	1.15E+06	1.77E+06	2.47E+06
7647-15-6	Sodium bromide, Bromide standard (<0.2%)	L	9.84E+03	2.79E+04	7.93E+04	1.46E+05	2.25E+05	3.15E+05
z-0090	Sodium butyl (2-ethylhexyl)phosphate	S	3.09E+02	8.78E+02	2.49E+03	4.59E+03	7.08E+03	9.90E+03
z-0091	Sodium butyl butylphosphonate	S	3.09E+02	8.78E+02	2.49E+03	4.59E+03	7.08E+03	9.90E+03
124-65-2	Sodium cacodylate; (Sodium dimethylarsenate)	S	7.73E+04	2.20E+05	6.23E+05	1.15E+06	1.77E+06	2.47E+06
124-65-2	Sodium cacodylate; (Sodium dimethylarsenate)	Pwd	7.73E+03	2.20E+04	6.23E+04	1.15E+05	1.77E+05	2.47E+05
z-0092	Sodium cadminate	S	2.32E+03	6.59E+03	1.87E+04	3.44E+04	5.31E+04	7.42E+04
497-19-8	Sodium carbonate	S	7.73E+04	2.20E+05	6.23E+05	1.15E+06	1.77E+06	2.47E+06
497-19-8	Sodium carbonate	Pwd	7.73E+03	2.20E+04	6.23E+04	1.15E+05	1.77E+05	2.47E+05
497-19-8	Sodium Carbonate <6%	L	1.24E+04	3.52E+04	1.00E+05	1.84E+05	2.84E+05	3.97E+05
5968-11-6	Sodium carbonate monohydrate	Cry Pwd	2.32E+03	6.59E+03	1.87E+04	3.44E+04	5.31E+04	7.42E+04
7647-14-5	Sodium chloride	Cry Pwd	7.73E+03	2.20E+04	6.23E+04	1.15E+05	1.77E+05	2.47E+05
7647-14-5	Sodium chloride	Cry Pwd	7.73E+03	2.20E+04	6.23E+04	1.15E+05	1.77E+05	2.47E+05
7647-14-5	Sodium Chloride (Standard Solution <2%)	L	8.19E+03	2.32E+04	6.60E+04	1.21E+05	1.87E+05	2.62E+05
13517-17-4	Sodium chromate decahydrate	Pwd	1.55E+03	4.39E+03	1.25E+04	2.29E+04	3.54E+04	4.95E+04
7775-11-3	Sodium chromate(VI) solution (<17%); (Disodium chromate)	L	1.14E+03	3.24E+03	9.20E+03	1.69E+04	2.61E+04	3.65E+04
7775-11-3	Sodium chromate(VI); (Disodium chromate)	S	6.19E+03	1.76E+04	4.99E+04	9.18E+04	1.42E+05	1.98E+05
1545801	Sodium Citrate Hydrate	Cry Pwd	7.73E+03	2.20E+04	6.23E+04	1.15E+05	1.77E+05	2.47E+05
6132-04-3	Sodium Citrate Hydrate(<6%)	L	1.40E+04	3.97E+04	1.13E+05	2.07E+05	3.20E+05	4.47E+05
18996-35-5	Sodium citrate; (Monosodium citrate)	Pwd	7.73E+03	2.20E+04	6.23E+04	1.15E+05	1.77E+05	2.47E+05

18996-35-5	Sodium citrate; (Monosodium citrate)	S	7.73E+04	2.20E+05	6.23E+05	1.15E+06	1.77E+06	2.47E+06
13600-98-1	Sodium cobaltinitrite	Cry Pwd	2.32E+02	6.59E+02	1.87E+03	3.44E+03	5.31E+03	7.42E+03
13600-98-1	Sodium cobaltinitrite	Pwd	2.32E+02	6.59E+02	1.87E+03	3.44E+03	5.31E+03	7.42E+03
143-33-9	Sodium cyanide	S	6.19E+03	1.76E+04	4.99E+04	9.18E+04	1.42E+05	1.98E+05
7789-12-0	Sodium dichromate dihydrate	S	6.19E+03	1.76E+04	4.99E+04	9.18E+04	1.42E+05	1.98E+05
10588-01-9	Sodium dichromate; (Disodium dichromate)	S	5.41E+03	1.54E+04	4.36E+04	8.03E+04	1.24E+05	1.73E+05
148-18-5	Sodium diethyldithiocarbamate; (Carbamodithioic acid, diethyl-, sodium salt)	Cry Pwd	7.73E+03	2.20E+04	6.23E+04	1.15E+05	1.77E+05	2.47E+05
128-04-1	Sodium DimethylDithiocarbamate	L	4.85E+02	1.38E+03	3.91E+03	7.20E+03	1.11E+04	1.55E+04
128-04-1	Sodium DimethylDithiocarbamate	Cry Pwd	2.32E+02	6.59E+02	1.87E+03	3.44E+03	5.31E+03	7.42E+03
25155-30-0	Sodium dodecylbenzenesulfonate; (Dodecyl benzene sodium sulfonate)	Cry Pwd	3.09E+03	8.78E+03	2.49E+04	4.59E+04	7.08E+04	9.90E+04
13601-19-9	Sodium ferrocyanide	Cry Pwd	7.73E+03	2.20E+04	6.23E+04	1.15E+05	1.77E+05	2.47E+05
7681-49-4	Sodium fluoride	Pwd	1.16E+03	3.29E+03	9.35E+03	1.72E+04	2.65E+04	3.71E+04
7681-49-4	Sodium fluoride	S	1.16E+04	3.29E+04	9.35E+04	1.72E+05	2.65E+05	3.71E+05
7681-49-4	Sodium fluoride <0.5% (1mg/mL)	L	1.37E+03	3.90E+03	1.11E+04	2.04E+04	3.14E+04	4.40E+04
141-53-7	Sodium formate	S	7.73E+04	2.20E+05	6.23E+05	1.15E+06	1.77E+06	2.47E+06
527-07-1	Sodium gluconate, Developer Part B	S	1.16E+04	3.29E+04	9.35E+04	1.72E+05	2.65E+05	3.71E+05
527-07-1	Sodium gluconate, Developer Part B (<15%)	L	2.40E+03	6.82E+03	1.93E+04	3.56E+04	5.49E+04	7.68E+04
6000-44-8	Sodium glycinate	Pwd	7.67E+03	2.18E+04	6.18E+04	1.14E+05	1.75E+05	2.45E+05
2836-32-0	Sodium glycolate; (Sodium hydroxyacetate)	S	4.65E+05	1.32E+06	3.75E+06	6.90E+06	1.06E+07	1.49E+07
7646-69-7	Sodium hydride	Cry Pwd	1.55E+02	4.39E+02	1.25E+03	2.29E+03	3.54E+03	4.95E+03
z-0093	Sodium hydrogen lead oxide	S	1.93E+04	5.49E+04	1.56E+05	2.87E+05	4.42E+05	6.19E+05
z-0094	Sodium hydrogen metasilicate	S	6.19E+04	1.76E+05	4.99E+05	9.18E+05	1.42E+06	1.98E+06
z-0095	Sodium hydrogen pyrophosphate	S	6.19E+04	1.76E+05	4.99E+05	9.18E+05	1.42E+06	1.98E+06
7775-14-6	Sodium hydrosulfite	Cry Pwd	3.87E+03	1.10E+04	3.12E+04	5.74E+04	8.84E+04	1.24E+05
7775-14-6	Sodium hydrosulfite	Pwd	3.87E+03	1.10E+04	3.12E+04	5.74E+04	8.84E+04	1.24E+05
1310-73-2	Sodium hydroxide	S	7.73E+03	2.20E+04	6.23E+04	1.15E+05	1.77E+05	2.47E+05
1310-73-2	Sodium Hydroxide <50% (Caustic Soda)	L	1.64E+03	4.67E+03	1.32E+04	2.44E+04	3.76E+04	5.26E+04
7681-52-9	Sodium hypochlorite	Pwd	7.73E+03	2.20E+04	6.23E+04	1.15E+05	1.77E+05	2.47E+05
7681-52-9	Sodium Hypochlorite <15%	L	9.75E+03	2.77E+04	7.85E+04	1.45E+05	2.23E+05	3.12E+05
10022-70-5	Sodium hypochlorite pentahydrate	L	1.36E+04	3.85E+04	1.09E+05	2.01E+05	3.10E+05	4.34E+05
10022-70-5	Sodium hypochlorite pentahydrate	Cry Pwd	7.73E+03	2.20E+04	6.23E+04	1.15E+05	1.77E+05	2.47E+05
7440-23-5	Sodium in Oil <40%	L	2.44E+04	6.93E+04	1.97E+05	3.62E+05	5.59E+05	7.81E+05
7681-55-2	Sodium iodate	Cry Pwd	3.87E+02	1.10E+03	3.12E+03	5.74E+03	8.84E+03	1.24E+04
7681-82-5	Sodium iodide	L	2.51E+06	7.13E+06	2.02E+07	3.72E+07	5.74E+07	8.03E+07
7681-82-5	Sodium iodide	Pwd	7.73E+03	2.20E+04	6.23E+04	1.15E+05	1.77E+05	2.47E+05
7681-82-5	Sodium iodide	S	7.73E+04	2.20E+05	6.23E+05	1.15E+06	1.77E+06	2.47E+06
z-0096	Sodium lanthanate	S	3.87E+02	1.10E+03	3.12E+03	5.74E+03	8.84E+03	1.24E+04
151-21-3	Sodium lauryl sulfate; (Surfactant) (DODECYL SODIUM SULFATE)	Pwd	7.73E+03	2.20E+04	6.23E+04	1.15E+05	1.77E+05	2.47E+05
151-21-3	Sodium lauryl sulfate; <20% solution	L	2.43E+09	6.89E+09	1.96E+10	3.60E+10	5.55E+10	7.76E+10

7681-57-4	Sodium metabisulfite	Pwd	1.55E+03	4.39E+03	1.25E+04	2.29E+04	3.54E+04	4.95E+04
7681-57-4	Sodium metabisulfite	S	1.55E+04	4.39E+04	1.25E+05	2.29E+05	3.54E+05	4.95E+05
7681-57-4	Sodium metabisulfite	Cry Pwd	1.55E+03	4.39E+03	1.25E+04	2.29E+04	3.54E+04	4.95E+04
7775-19-1	Sodium metaborate	Cry Pwd	7.73E+03	2.20E+04	6.23E+04	1.15E+05	1.77E+05	2.47E+05
7440-23-5	Sodium Metal	S	7.73E+03	2.20E+04	6.23E+04	1.15E+05	1.77E+05	2.47E+05
7440-23-5	Sodium Metal	Pwd	7.73E+02	2.20E+03	6.23E+03	1.15E+04	1.77E+04	2.47E+04
10361-03-2	Sodium metaphosphate	S	5.41E+04	1.54E+05	4.36E+05	8.03E+05	1.24E+06	1.73E+06
10361-03-2	Sodium metaphosphate	Pwd	5.41E+03	1.54E+04	4.36E+04	8.03E+04	1.24E+05	1.73E+05
10361-03-2	Sodium metaphosphate	Cry Pwd	5.41E+03	1.54E+04	4.36E+04	8.03E+04	1.24E+05	1.73E+05
1344-09-8	Sodium metasilicate	Cry Pwd	3.87E+03	1.10E+04	3.12E+04	5.74E+04	8.84E+04	1.24E+05
13517-24-3	Sodium metasilicate nonahydrate	S	7.73E+04	2.20E+05	6.23E+05	1.15E+06	1.77E+06	2.47E+06
1344-09-8	Sodium metasilicate solution	L	7.88E+03	2.24E+04	6.35E+04	1.17E+05	1.80E+05	2.52E+05
13718-26-8	Sodium metavanadate; (Sodium vanadate)	Pwd	4.64E+02	1.32E+03	3.74E+03	6.88E+03	1.06E+04	1.48E+04
13718-26-8	Sodium metavanadate; (Sodium vanadate)	S	4.64E+03	1.32E+04	3.74E+04	6.88E+04	1.06E+05	1.48E+05
124-41-4	Sodium methylate	L	2.53E+03	7.18E+03	2.04E+04	3.75E+04	5.78E+04	8.09E+04
124-41-4	Sodium methylate	S	7.73E+04	2.20E+05	6.23E+05	1.15E+06	1.77E+06	2.47E+06
10102-40-6	Sodium molybdate dihydrate solution (<25% wt); (Disodium molybdate dihydrate)	L	1.71E+03	4.84E+03	1.37E+04	2.53E+04	3.90E+04	5.46E+04
10102-40-6	Sodium molybdate dihydrate; (Disodium molybdate dihydrate)	Pwd	3.09E+03	8.78E+03	2.49E+04	4.59E+04	7.08E+04	9.90E+04
12401-86-4	Sodium monoxide; (Sodium oxide)	Pwd	1.55E+02	4.39E+02	1.25E+03	2.29E+03	3.54E+03	4.95E+03
12401-86-4	Sodium monoxide; (Sodium oxide)	S	1.55E+03	4.39E+03	1.25E+04	2.29E+04	3.54E+04	4.95E+04
z-0098	Sodium nickel oxide (liquid)	L	4.33E+02	1.23E+03	3.49E+03	6.42E+03	9.90E+03	1.38E+04
z-0099	Sodium nickelate (Liquids)	L	7.02E+02	1.99E+03	5.65E+03	1.04E+04	1.60E+04	2.25E+04
z-0100	Sodium nickelate (Solids)	S	4.64E+03	1.32E+04	3.74E+04	6.88E+04	1.06E+05	1.48E+05
7631-99-4	Sodium nitrate	S	1.55E+04	4.39E+04	1.25E+05	2.29E+05	3.54E+05	4.95E+05
7631-99-4	Sodium nitrate	Cry Pwd	1.55E+03	4.39E+03	1.25E+04	2.29E+04	3.54E+04	4.95E+04
7631-99-4	Sodium nitrate	Pwd	1.55E+03	4.39E+03	1.25E+04	2.29E+04	3.54E+04	4.95E+04
7631-99-4	Sodium nitrate solution <10%	L	3.25E+11	9.22E+11	2.62E+12	4.82E+12	7.43E+12	1.04E+13
7632-00-0	Sodium nitrite	Pwd	9.28E+02	2.63E+03	7.48E+03	1.38E+04	2.12E+04	2.97E+04
7632-00-0	Sodium nitrite	S	9.28E+03	2.63E+04	7.48E+04	1.38E+05	2.12E+05	2.97E+05
7632-00-0	Sodium nitrite solution <40%	L	1.66E+03	4.72E+03	1.34E+04	2.47E+04	3.80E+04	5.32E+04
14402-89-2	Sodium nitroferricyanide, (sodium nitroprusside)	S	3.09E+03	8.78E+03	2.49E+04	4.59E+04	7.08E+04	9.90E+04
13721-39-6	Sodium orthovanadate		0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
62-76-0	Sodium oxalate	L	1.88E+08	5.33E+08	1.51E+09	2.79E+09	4.29E+09	6.01E+09
62-76-0	Sodium oxalate	Pwd	7.73E+02	2.20E+03	6.23E+03	1.15E+04	1.77E+04	2.47E+04
62-76-0	Sodium oxalate	S	7.73E+03	2.20E+04	6.23E+04	1.15E+05	1.77E+05	2.47E+05
7601-89-0	Sodium perchlorate	S	7.73E+04	2.20E+05	6.23E+05	1.15E+06	1.77E+06	2.47E+06
7601-89-0	Sodium perchlorate	Cry Pwd	7.73E+03	2.20E+04	6.23E+04	1.15E+05	1.77E+05	2.47E+05
1313-60-6	Sodium peroxide	Pwd	1.55E+02	4.39E+02	1.25E+03	2.29E+03	3.54E+03	4.95E+03
1313-60-6	Sodium peroxide	S	1.55E+03	4.39E+03	1.25E+04	2.29E+04	3.54E+04	4.95E+04
13472-33-8	Sodium perrhenate; (Rhenium(VII) sodium oxide)	S	7.73E+04	2.20E+05	6.23E+05	1.15E+06	1.77E+06	2.47E+06

7775-27-1	Sodium Persulfate	Cry Pwd	1.55E+02	4.39E+02	1.25E+03	2.29E+03	3.54E+03	4.95E+03
13718-28-0	Sodium pertechnetate	S	3.87E+04	1.10E+05	3.12E+05	5.74E+05	8.84E+05	1.24E+06
7558-79-4	Sodium phophate, bibasic	L	1.90E+08	5.38E+08	1.53E+09	2.81E+09	4.33E+09	6.06E+09
7558-79-4	Sodium phophate, bibasic	S	7.73E+04	2.20E+05	6.23E+05	1.15E+06	1.77E+06	2.47E+06
7558-79-4	Sodium phophate, bibasic	Pwd	7.73E+03	2.20E+04	6.23E+04	1.15E+05	1.77E+05	2.47E+05
7601-54-9	Sodium phosphate (tribasic)	gran Pwd	7.73E+03	2.20E+04	6.23E+04	1.15E+05	1.77E+05	2.47E+05
7601-54-9	Sodium phosphate (tribasic)	S	7.73E+04	2.20E+05	6.23E+05	1.15E+06	1.77E+06	2.47E+06
7782-85-6	Sodium phosphate dibasic heptahydrate	Cry Pwd	7.73E+03	2.20E+04	6.23E+04	1.15E+05	1.77E+05	2.47E+05
7558-80-7	Sodium phosphate monobasic	Cry Pwd	7.73E+03	2.20E+04	6.23E+04	1.15E+05	1.77E+05	2.47E+05
10039-32-4	Sodium phosphate, dibasic dodecahydrate	S	2.32E+04	6.59E+04	1.87E+05	3.44E+05	5.31E+05	7.42E+05
10101-89-0	Sodium phosphate, tribasic dodecahydrate	S	7.73E+04	2.20E+05	6.23E+05	1.15E+06	1.77E+06	2.47E+06
10124-56-8	Sodium phosphate, tribasic; (Sodium hexametaphosphate; Calgon)	Cry Pwd	7.73E+03	2.20E+04	6.23E+04	1.15E+05	1.77E+05	2.47E+05
7785-84-4	Sodium phosphate, tribasic; (Sodium trimetaphosphate)	Cry Pwd	7.73E+03	2.20E+04	6.23E+04	1.15E+05	1.77E+05	2.47E+05
31366-95-7	Sodium p-tert-amylphenate; (4-[1,1-dimethylpropyl]-phenol, sodium salt)	L	6.96E+03	1.98E+04	5.61E+04	1.03E+05	1.59E+05	2.23E+05
7758-16-9	Sodium pyrophosphate, di-; (see also TEE500 for tetra-)	Pwd	7.73E+03	2.20E+04	6.23E+04	1.15E+05	1.77E+05	2.47E+05
13410-01-0	Sodium selenate; (Disodium selenate)	L	3.01E+10	8.55E+10	2.43E+11	4.47E+11	6.89E+11	9.63E+11
13410-01-0	Sodium selenate; (Disodium selenate)	Pwd	2.48E+01	7.03E+01	1.99E+02	3.67E+02	5.66E+02	7.92E+02
13410-01-0	Sodium selenate; (Disodium selenate)	S	2.48E+02	7.03E+02	1.99E+03	3.67E+03	5.66E+03	7.92E+03
10102-18-8	Sodium selenite	Pwd	4.64E+01	1.32E+02	3.74E+02	6.88E+02	1.06E+03	1.48E+03
10102-18-8	Sodium selenite	S	4.64E+02	1.32E+03	3.74E+03	6.88E+03	1.06E+04	1.48E+04
6834-92-0	Sodium Silicate Caustic; <40% solution	L	1.82E+04	5.17E+04	1.47E+05	2.70E+05	4.16E+05	5.82E+05
6834-92-0	Sodium silicate caustic; (Silicic acid, disodium salt)	Pwd	7.73E+03	2.20E+04	6.23E+04	1.15E+05	1.77E+05	2.47E+05
6834-92-0	Sodium silicate caustic; (Silicic acid, disodium salt)	S	7.73E+04	2.20E+05	6.23E+05	1.15E+06	1.77E+06	2.47E+06
12058-66-1	Sodium stannate	S	2.32E+04	6.59E+04	1.87E+05	3.44E+05	5.31E+05	7.42E+05
822-16-2	Sodium stearate	Pwd	2.32E+02	6.59E+02	1.87E+03	3.44E+03	5.31E+03	7.42E+03
822-16-2	Sodium stearate	S	2.32E+03	6.59E+03	1.87E+04	3.44E+04	5.31E+04	7.42E+04
z-0101	Sodium strontium phosphate	S	7.73E+04	2.20E+05	6.23E+05	1.15E+06	1.77E+06	2.47E+06
150-90-3	Sodium succinate	L	1.37E+04	3.90E+04	1.11E+05	2.04E+05	3.14E+05	4.40E+05
150-90-3	Sodium succinate	S	6.15E+05	1.75E+06	4.95E+06	9.12E+06	1.41E+07	1.97E+07
7757-82-6	Sodium sulfate (anhydrous)	Pwd	7.73E+03	2.20E+04	6.23E+04	1.15E+05	1.77E+05	2.47E+05
7757-82-6	Sodium sulfate (anhydrous)	S	7.73E+04	2.20E+05	6.23E+05	1.15E+06	1.77E+06	2.47E+06
7757-82-6	Sodium sulfate (anhydrous) <15%	L	1.40E+04	3.98E+04	1.13E+05	2.08E+05	3.21E+05	4.49E+05
16721-80-5	Sodium sulfhydrate; (Sodium hydrosulfide)	S	9.28E+02	2.63E+03	7.48E+03	1.38E+04	2.12E+04	2.97E+04
1313-82-2	Sodium sulfide hydrate	S	1.16E+04	3.29E+04	9.35E+04	1.72E+05	2.65E+05	3.71E+05
7757-83-7	Sodium sulfite	S	1.55E+04	4.39E+04	1.25E+05	2.29E+05	3.54E+05	4.95E+05
7757-83-7	Sodium sulfite	Cry Pwd	1.55E+03	4.39E+03	1.25E+04	2.29E+04	3.54E+04	4.95E+04

7757-83-7	Sodium sulfite	Pwd	1.55E+03	4.39E+03	1.25E+04	2.29E+04	3.54E+04	4.95E+04
10101-83-4	Sodium tellurate	Cry Pwd	2.32E+03	6.59E+03	1.87E+04	3.44E+04	5.31E+04	7.42E+04
10102-20-2	Sodium tellurite	Pwd	3.87E+02	1.10E+03	3.12E+03	5.74E+03	8.84E+03	1.24E+04
10102-20-2	Sodium tellurite	S	3.87E+03	1.10E+04	3.12E+04	5.74E+04	8.84E+04	1.24E+05
143-66-8	Sodium tetraphenyl borate	Cry Pwd	1.93E+03	5.49E+03	1.56E+04	2.87E+04	4.42E+04	6.19E+04
7772-98-7	Sodium thiosulfate	L	3.27E+09	9.30E+09	2.64E+10	4.86E+10	7.49E+10	1.05E+11
7772-98-7	Sodium thiosulfate	Cry Pwd	7.73E+03	2.20E+04	6.23E+04	1.15E+05	1.77E+05	2.47E+05
10102-17-7	Sodium thiosulfate pentahydrate	L	1.66E+04	4.72E+04	1.34E+05	2.47E+05	3.80E+05	5.32E+05
10102-17-7	Sodium thiosulfate pentahydrate	S	7.73E+04	2.20E+05	6.23E+05	1.15E+06	1.77E+06	2.47E+06
10102-17-7	Sodium thiosulfate pentahydrate	Pwd	7.73E+03	2.20E+04	6.23E+04	1.15E+05	1.77E+05	2.47E+05
z-0102	Sodium trihydrogen silicate	S	3.87E+04	1.10E+05	3.12E+05	5.74E+05	8.84E+05	1.24E+06
7758-29-4	Sodium tripolyphosphate	Pwd	7.73E+03	2.20E+04	6.23E+04	1.15E+05	1.77E+05	2.47E+05
13472-45-2	Sodium tungstate	S	7.73E+04	2.20E+05	6.23E+05	1.15E+06	1.77E+06	2.47E+06
13721-34-1	Sodium uranate; (Sodium diuranate)	Pwd	2.32E+02	6.59E+02	1.87E+03	3.44E+03	5.31E+03	7.42E+03
z-0103	Sodium uranium oxide	S	1.93E+03	5.49E+03	1.56E+04	2.87E+04	4.42E+04	6.19E+04
z-0104	Sodium uranyl carbonate	S	2.32E+03	6.59E+03	1.87E+04	3.44E+04	5.31E+04	7.42E+04
12201-48-8	Sodium zirconate	S	1.55E+04	4.39E+04	1.25E+05	2.29E+05	3.54E+05	4.95E+05
3184-65-4	Sodium-o-benzyl-p-chlorophenate	Pwd	3.87E+03	1.10E+04	3.12E+04	5.74E+04	8.84E+04	1.24E+05
11135-81-2	Sodium-Potassium	L	6.07E+02	1.72E+03	4.89E+03	9.00E+03	1.39E+04	1.94E+04
11135-81-2	Sodium-Potassium	S	7.73E+03	2.20E+04	6.23E+04	1.15E+05	1.77E+05	2.47E+05
50642-24-5	Soman; (3,3-Dimethyl-2-butanol methylphosphonofluoridate, GD)	L	4.29E+01	1.22E+02	3.45E+02	6.36E+02	9.80E+02	1.37E+03
96-64-0	Soman; (3,3-Dimethyl-2-butanol methylphosphonofluoridate, GD)	L	4.28E+01	1.22E+02	3.45E+02	6.35E+02	9.79E+02	1.37E+03
111-02-4	Squalene; (Hexamethyl-tetracosahexane)	L	2.03E+05	5.76E+05	1.64E+06	3.01E+06	4.64E+06	6.49E+06
7646-78-8	Stannic chloride; (Tin(IV) chloride; Tin(IV) tetrachloride)	L	2.00E+04	5.68E+04	1.61E+05	2.97E+05	4.58E+05	6.40E+05
7772-99-8	Stannous chloride; (Tin(II) chloride (1:2))	Pwd	2.32E+03	6.59E+03	1.87E+04	3.44E+04	5.31E+04	7.42E+04
7772-99-8	Stannous chloride; (Tin(II) chloride (1:2))	S	2.32E+04	6.59E+04	1.87E+05	3.44E+05	5.31E+05	7.42E+05
153891-46-4	STARBURST (PAMAM) DENDRIMER, GENERATION 3 (<20% solution)	L	3.35E+05	9.50E+05	2.70E+06	4.96E+06	7.65E+06	1.07E+07
7803-52-3	Stibine (Antimony Hydride)	G	1.18E+00	3.36E+00	9.53E+00	9.53E+00	2.71E+01	3.79E+01
27344-41-8	Stilbene 3; (Tinopal CBS, Disodium-4,4'-bis[2-sulfostyryl]biphenyl)	S	7.73E+04	2.20E+05	6.23E+05	1.15E+06	1.77E+06	2.47E+06
588-59-0	Stilbene 420	Pwd	7.73E+03	2.20E+04	6.23E+04	1.15E+05	1.77E+05	2.47E+05
7440-24-6	Strontium (metal)	Pwd	3.87E+03	1.10E+04	3.12E+04	5.74E+04	8.84E+04	1.24E+05
7440-24-6	Strontium (metal)	S	3.87E+04	1.10E+05	3.12E+05	5.74E+05	8.84E+05	1.24E+06
1633-05-2	Strontium carbonate	Pwd	3.09E+02	8.78E+02	2.49E+03	4.59E+03	7.08E+03	9.90E+03
18480-07-4	Strontium hydroxide	Cry Pwd	1.16E+03	3.29E+03	9.35E+03	1.72E+04	2.65E+04	3.71E+04
10042-76-9	Strontium nitrate	Pwd	7.73E+03	2.20E+04	6.23E+04	1.15E+05	1.77E+05	2.47E+05
10042-76-9	Strontium nitrate	S	7.73E+04	2.20E+05	6.23E+05	1.15E+06	1.77E+06	2.47E+06
10042-76-9	Strontium nitrate	Cry Pwd	7.73E+03	2.20E+04	6.23E+04	1.15E+05	1.77E+05	2.47E+05

z-0105	Strontium nitrite	S	1.16E+04	3.29E+04	9.35E+04	1.72E+05	2.65E+05	3.71E+05
814-95-9	Strontium oxalate	Cry Pwd	1.16E+03	3.29E+03	9.35E+03	1.72E+04	2.65E+04	3.71E+04
13450-99-2	Strontium phosphate	Pwd	7.73E+03	2.20E+04	6.23E+04	1.15E+05	1.77E+05	2.47E+05
14414-90-5	Strontium phosphate	Pwd	7.73E+03	2.20E+04	6.23E+04	1.15E+05	1.77E+05	2.47E+05
7759-02-6	Strontium sulfate	Cry Pwd	3.87E+03	1.10E+04	3.12E+04	5.74E+04	8.84E+04	1.24E+05
57-24-9	Strychnine & salts	Pwd	4.64E+01	1.32E+02	3.74E+02	6.88E+02	1.06E+03	1.48E+03
57-24-9	Strychnine & salts	S	4.64E+02	1.32E+03	3.74E+03	6.88E+03	1.06E+04	1.48E+04
60-41-3	Strychnine sulfate (2:1)	Pwd	4.64E+02	1.32E+03	3.74E+03	6.88E+03	1.06E+04	1.48E+04
60-41-3	Strychnine sulfate (2:1)	S	4.64E+03	1.32E+04	3.74E+04	6.88E+04	1.06E+05	1.48E+05
100-42-5	Styrene (styrene monomer)	L	6.23E+04	1.77E+05	5.02E+05	9.23E+05	1.42E+06	1.99E+06
96-09-3	Styrene oxide; (1,2-Epoxyethylbenzene)	L	6.26E+04	1.78E+05	5.04E+05	9.28E+05	1.43E+06	2.00E+06
57-50-1	Sucrose	Cry Pwd	8.35E+03	2.37E+04	6.73E+04	1.24E+05	1.91E+05	2.67E+05
5329-14-6	Sulfamic acid	S	7.73E+04	2.20E+05	6.23E+05	1.15E+06	1.77E+06	2.47E+06
61789-85-3	Sulfonic acid; (Petroleum acid sulfonate)	L	8.02E+04	2.28E+05	6.46E+05	1.19E+06	1.83E+06	2.57E+06
97-05-2	Sulfosalicylic acid	L	1.28E+04	3.64E+04	1.03E+05	1.90E+05	2.93E+05	4.10E+05
97-05-2	Sulfosalicylic acid	Pwd	7.73E+03	2.20E+04	6.23E+04	1.15E+05	1.77E+05	2.47E+05
97-05-2	Sulfosalicylic acid	S	7.73E+04	2.20E+05	6.23E+05	1.15E+06	1.77E+06	2.47E+06
3689-24-5	Sulfotep; (TEDP)	L	3.55E+08	1.01E+09	2.86E+09	5.26E+09	8.11E+09	1.13E+10
3689-24-5	Sulfotep; (TEDP)	Pwd	1.55E+02	4.39E+02	1.25E+03	2.29E+03	3.54E+03	4.95E+03
7704-34-9	Sulfur	S	1.93E+03	5.49E+03	1.56E+04	2.87E+04	4.42E+04	6.19E+04
7704-34-9	Sulfur	Pwd	1.93E+02	5.49E+02	1.56E+03	2.87E+03	4.42E+03	6.19E+03
7446-09-5	Sulfur dioxide	L	2.47E+00	7.02E+00	1.99E+01	1.99E+01	5.66E+01	7.92E+01
7446-09-5	Sulfur dioxide [2L 2.5kg]	G	6.08E+00	1.72E+01	4.89E+01	4.89E+01	1.39E+02	1.94E+02
7446-09-5	Sulfur dioxide Aqueous Solution <5%	L	3.53E+00	1.00E+01	2.84E+01	2.84E+01	8.07E+01	1.13E+02
2551-62-4	Sulfur hexafluoride	G	4.62E+03	1.31E+04	3.72E+04	6.85E+04	1.06E+05	1.48E+05
10025-67-9	Sulfur monochloride	L	3.25E+02	9.22E+02	2.62E+03	4.82E+03	7.43E+03	1.04E+04
5714-22-7	Sulfur pentafluoride	L	3.09E+00	8.78E+00	2.49E+01	2.49E+01	7.07E+01	9.90E+01
7783-60-0	Sulfur tetrafluoride	G	6.83E+00	1.94E+01	5.50E+01	5.50E+01	1.56E+02	2.19E+02
7446-11-9	Sulfur trioxide, (Sulfan, Sulfuirc Anhydride)	L	6.22E+01	1.77E+02	5.01E+02	5.01E+02	1.00E+03	1.00E+03
7446-11-9	Sulfur trioxide, (Sulfan, Sulfuirc Anhydride)	S	1.00E+03	1.00E+03	1.00E+03	1.00E+03	1.00E+03	1.00E+03
7664-93-9	Sulfuric acid	L	1.54E+07	4.36E+07	1.24E+08	2.28E+08	3.51E+08	4.92E+08
8014-94-7	Sulfuric acid FUMING (including oleum and sulfur trioxide)	L	1.00E+03	1.00E+03	1.00E+03	1.00E+03	1.00E+03	1.00E+03
7664-93-9	SULFURIC ACID SOLUTIONS <15%	L	1.48E+04	4.19E+04	1.19E+05	2.19E+05	3.38E+05	4.73E+05
7782-99-2	Sulfurous acid	L	3.52E+01	9.99E+01	2.83E+02	5.22E+02	8.05E+02	1.13E+03
2699-79-8	Sulfuryl fluoride	G	1.29E+02	3.66E+02	1.04E+03	1.91E+03	2.95E+03	4.13E+03
z-0142	Synthetic resins	L	6.25E+03	1.77E+04	5.03E+04	9.26E+04	1.43E+05	2.00E+05
14807-96-6	Talc	Pwd	7.73E+03	2.20E+04	6.23E+04	1.15E+05	1.77E+05	2.47E+05
68333-62-0	Tallo oil (alkyd resin)	L	6.25E+03	1.77E+04	5.03E+04	9.26E+04	1.43E+05	2.00E+05
7440-25-7	Tantalum	S	3.17E+05	9.00E+05	2.55E+06	4.70E+06	7.25E+06	1.01E+07
7783-71-3	Tantalum(V) fluoride	S	1.55E+04	4.39E+04	1.25E+05	2.29E+05	3.54E+05	4.95E+05
7783-71-3	Tantalum(V) fluoride	Pwd	1.55E+03	4.39E+03	1.25E+04	2.29E+04	3.54E+04	4.95E+04

1314-61-0	Tantalum(V) oxide	S	7.73E+04	2.20E+05	6.23E+05	1.15E+06	1.77E+06	2.47E+06
1314-61-0	Tantalum(V) oxide	Pwd	7.73E+03	2.20E+04	6.23E+04	1.15E+05	1.77E+05	2.47E+05
87-69-4	Tartaric acid	S	6.19E+04	1.76E+05	4.99E+05	9.18E+05	1.42E+06	1.98E+06
87-69-4	Tartaric acid	Cry Pwd	6.19E+03	1.76E+04	4.99E+04	9.18E+04	1.42E+05	1.98E+05
12036-16-7	Technetium(IV) oxide	S	3.87E+04	1.10E+05	3.12E+05	5.74E+05	8.84E+05	1.24E+06
13494-80-9	Tellurium	Pwd	3.87E+02	1.10E+03	3.12E+03	5.74E+03	8.84E+03	1.24E+04
13494-80-9	Tellurium	S	3.87E+03	1.10E+04	3.12E+04	5.74E+04	8.84E+04	1.24E+05
10026-07-0	Tellurium chloride	S	7.73E+03	2.20E+04	6.23E+04	1.15E+05	1.77E+05	2.47E+05
7783-80-4	Tellurium hexafluoride	G	2.29E+00	6.50E+00	1.85E+01	1.85E+01	5.24E+01	7.33E+01
7446-07-3	Tellurium oxide; (Tellurium dioxide)	Cry Pwd	4.64E+02	1.32E+03	3.74E+03	6.88E+03	1.06E+04	1.48E+04
7446-07-3	Tellurium oxide; (Tellurium dioxide)	Pwd	4.64E+02	1.32E+03	3.74E+03	6.88E+03	1.06E+04	1.48E+04
7446-07-3	Tellurium oxide; (Tellurium dioxide)	S	4.64E+03	1.32E+04	3.74E+04	6.88E+04	1.06E+05	1.48E+05
13071-79-9	Terbufos	L	1.80E+06	5.10E+06	1.45E+07	2.67E+07	4.11E+07	5.75E+07
92-94-4	Terphenyl; p-	Cry Pwd	7.73E+03	2.20E+04	6.23E+04	1.15E+05	1.77E+05	2.47E+05
92-94-4	Terphenyl; p-	S	7.73E+04	2.20E+05	6.23E+05	1.15E+06	1.77E+06	2.47E+06
26140-60-3	Terphenyls (mixed isomers); (Diphenylbenzene)	S	7.73E+04	2.20E+05	6.23E+05	1.15E+06	1.77E+06	2.47E+06
75-65-0	Tert-butyl alcohol; (tert-Butanol)	L	9.94E+03	2.82E+04	8.01E+04	1.48E+05	2.27E+05	3.18E+05
13601-08-6	Tetraamminepalladium(I) nitrate	Cry Pwd	2.32E+03	6.59E+03	1.87E+04	3.44E+04	5.31E+04	7.42E+04
13601-08-6	Tetraamminepalladium(I) nitrate <10% solution)	L	4.38E+03	1.24E+04	3.53E+04	6.49E+04	1.00E+05	1.40E+05
79-27-6	Tetrabromoethane, 1,1,2,2-; (Acetylene tetrabromide)	L	1.21E+05	3.43E+05	9.75E+05	1.79E+06	2.77E+06	3.87E+06
z-0106	Tetrabutyl ammonium phosphate	Pwd	3.87E+03	1.10E+04	3.12E+04	5.74E+04	8.84E+04	1.24E+05
5593-70-4	Tetrabutyl titanate; (Butyl titanate)	L	5.06E+04	1.44E+05	4.08E+05	7.50E+05	1.16E+06	1.62E+06
5574-97-0	Tetrabutylammonium dihydrogen phosphate, mono/dibasic, & salt soln.	L	1.31E+12	3.73E+12	1.06E+13	1.95E+13	3.00E+13	4.20E+13
5574-97-0	Tetrabutylammonium dihydrogen phosphate, mono/dibasic, & salt soln.	S	3.87E+04	1.10E+05	3.12E+05	5.74E+05	8.84E+05	1.24E+06
2052-49-5	Tetrabutylammonium hydroxide	L	1.60E+02	4.55E+02	1.29E+03	2.38E+03	3.66E+03	5.13E+03
1941-27-1	Tetrabutylammonium nitrate	L	2.11E+02	6.00E+02	1.70E+03	3.13E+03	4.83E+03	6.76E+03
634-66-2	Tetrachlorobenzene, 1,2,3,4-	S	7.73E+04	2.20E+05	6.23E+05	1.15E+06	1.77E+06	2.47E+06
95-94-3	Tetrachlorobenzene, 1,2,4,5-	S	7.73E+04	2.20E+05	6.23E+05	1.15E+06	1.77E+06	2.47E+06
51207-31-9	Tetrachlorodibenzofuran, 2,3,7,8-	Pwd	3.09E-02	8.78E-02	2.49E-01	4.59E-01	7.08E-01	9.90E-01
51207-31-9	Tetrachlorodibenzofuran, 2,3,7,8-	S	3.09E-01	8.78E-01	2.49E+00	4.59E+00	7.08E+00	9.90E+00
53555-02-5	Tetrachlorodibenzo-p-dioxin, 1,2,3,8-	S	6.19E+01	1.76E+02	4.99E+02	9.18E+02	1.42E+03	1.98E+03
53555-02-5	Tetrachlorodibenzo-p-dioxin, 1,2,3,8-	pwd	6.19E+00	1.76E+01	4.99E+01	9.18E+01	1.42E+02	1.98E+02
25322-20-7	Tetrachloroethane (mixed isomers)	L	3.20E+04	9.07E+04	2.57E+05	4.74E+05	7.31E+05	1.02E+06
630-20-6	Tetrachloroethane 1,1,1,2-	L	9.06E+03	2.57E+04	7.30E+04	1.34E+05	2.07E+05	2.90E+05
79-34-5	Tetrachloroethane, 1,1,2,2-	L	1.29E+04	3.65E+04	1.04E+05	1.91E+05	2.94E+05	4.12E+05
375-34-8	Tetrachlorohexafluorobutane, 2,2,3,3-; (FLON; Freon substitute; CFC316)	G	3.84E+01	1.09E+02	3.10E+02	5.70E+02	8.79E+02	1.23E+03
10026-04-7	Tetrachlorosilane; (Silicon chloride)	L	1.31E+02	3.73E+02	1.06E+03	1.95E+03	3.00E+03	4.20E+03
10026-04-7	Tetrachlorosilane; (Silicon chloride)	G	3.98E+01	1.13E+02	3.20E+02	5.90E+02	9.10E+02	1.27E+03

306-91-2	Tetracosafluorotetradecahydro-phenanthrene	L	1.85E+04	5.24E+04	1.49E+05	2.74E+05	4.23E+05	5.91E+05
1518-16-7	Tetracyanoquinodimethan; (Scintillation Cocktail, Ultima Gold AB)	S	7.73E+03	2.20E+04	6.23E+04	1.15E+05	1.77E+05	2.47E+05
64-75-5	Tetracycline hydrochloride	S	7.73E+04	2.20E+05	6.23E+05	1.15E+06	1.77E+06	2.47E+06
64-75-5	Tetracycline hydrochloride	Cry Pwd	7.73E+03	2.20E+04	6.23E+04	1.15E+05	1.77E+05	2.47E+05
64-75-5	Tetracycline hydrochloride	Pwd	7.73E+03	2.20E+04	6.23E+04	1.15E+05	1.77E+05	2.47E+05
629-59-4	Tetradecane	L	4.83E+05	1.37E+06	3.90E+06	7.17E+06	1.11E+07	1.55E+07
78-00-2	Tetraethyl lead	L	5.28E+04	1.50E+05	4.25E+05	7.83E+05	1.21E+06	1.69E+06
78-10-4	Tetraethyl orthosilicate; (Ethyl silicate; Tetraethoxysilane)	L	6.04E+04	1.71E+05	4.86E+05	8.95E+05	1.38E+06	1.93E+06
107-49-3	Tetraethyl pyrophosphate; (TEPP)	L	6.24E+06	1.77E+07	5.03E+07	9.26E+07	1.43E+08	2.00E+08
112-60-7	Tetraethylene Glycol	L	1.56E+04	4.44E+04	1.26E+05	2.32E+05	3.57E+05	5.00E+05
112-57-2	Tetraethylenepentamine	L	3.13E+06	8.87E+06	2.52E+07	4.64E+07	7.15E+07	1.00E+08
597-64-8	Tetraethyltin; (Tetraethylstannane)	L	1.35E+04	3.85E+04	1.09E+05	2.01E+05	3.10E+05	4.33E+05
811-97-2	Tetrafluoroethane, 1,1,1,2-; (HFC 134a)	G	9.68E+04	2.75E+05	7.80E+05	1.44E+06	2.21E+06	3.10E+06
116-14-3	Tetrafluoroethylene	G	5.00E+03	5.00E+03	5.00E+03	5.00E+03	5.00E+03	5.00E+03
10036-47-2	Tetrafluorohydrazine	G	6.58E+01	1.87E+02	5.30E+02	5.30E+02	1.50E+03	2.10E+03
1003-38-9	Tetrahydro-2,5-dimethyl furan	L	8.13E+03	2.31E+04	6.55E+04	1.21E+05	1.86E+05	2.60E+05
109-99-9	Tetrahydrofuran	L	4.47E+03	1.27E+04	3.60E+04	6.63E+04	1.02E+05	1.43E+05
681-84-5	Tetramethoxysilane; (Methyl silicate)	L	5.24E+01	1.49E+02	4.22E+02	7.77E+02	1.20E+03	1.68E+03
110-18-9	Tetramethyl ethylene diamine	L	3.44E+03	9.76E+03	2.77E+04	5.10E+04	7.86E+04	1.10E+05
75-74-1	Tetramethyl Lead	L	1.00E+03	1.00E+03	1.00E+03	1.00E+03	1.00E+03	1.00E+03
97-84-7	Tetramethyl-1,3-butanediamine, n,n,n',n'-; (Tetramethyl butanediamine)	L	3.73E+04	1.06E+05	3.01E+05	5.53E+05	8.53E+05	1.19E+06
126-86-3	Tetramethyl-5-decyn-4,7-diol, 2,4,7,9-	L	9.75E+04	2.77E+05	7.85E+05	1.45E+06	2.23E+06	3.12E+06
75-59-2	Tetramethylammonium hydroxide	Pwd	9.28E+01	2.63E+02	7.48E+02	1.38E+03	2.12E+03	2.97E+03
75-59-2	Tetramethylammonium hydroxide (aqueous solution) <25%	L	1.12E+02	3.18E+02	9.01E+02	1.66E+03	2.56E+03	3.58E+03
75-76-3	Tetramethylsilane	L	1.06E+02	3.00E+02	8.51E+02	1.57E+03	2.42E+03	3.38E+03
75-76-3	Tetramethylsilane	Pwd	6.97E+03	1.98E+04	5.62E+04	1.03E+05	1.59E+05	2.23E+05
509-14-8	Tetranitromethane	L	3.50E+02	9.94E+02	2.82E+03	5.19E+03	8.01E+03	1.00E+04
507-28-8	Tetraphenylarsonium chloride; (Tetraphenylarsenium chloride)	Pwd	3.87E+02	1.10E+03	3.12E+03	5.74E+03	8.84E+03	1.24E+04
5964-35-2	Tetrapotassium ethylene-diaminetetraacetate; (EDTA)	Pwd	6.19E+03	1.76E+04	4.99E+04	9.18E+04	1.42E+05	1.98E+05
4499-86-9	Tetrapropylammonium hydroxide (<25% solution)	L	3.65E+02	1.04E+03	2.94E+03	5.41E+03	8.34E+03	1.17E+04
60-00-4	Tetrasodium EDTA; (Ethylenediaminetetraacetic acid)	Pwd	2.32E+03	6.59E+03	1.87E+04	3.44E+04	5.31E+04	7.42E+04
60-00-4	Tetrasodium EDTA; (Ethylenediaminetetraacetic acid)	S	2.32E+04	6.59E+04	1.87E+05	3.44E+05	5.31E+05	7.42E+05
7722-88-5	Tetrasodium pyrophosphate	Pwd	7.73E+03	2.20E+04	6.23E+04	1.15E+05	1.77E+05	2.47E+05

25265-77-4	Texanol, (Trimethyl-1,3-pentanediol monoisobutyrate2,2,4-)	L	3.51E+07	9.98E+07	2.83E+08	5.21E+08	8.04E+08	1.12E+09
7440-28-0	Thallium (elemental and soluble compounds) metal	S	2.32E+03	6.59E+03	1.87E+04	3.44E+04	5.31E+04	7.42E+04
6533-73-9	Thallium carbonate (2:1)	S	1.55E+03	4.39E+03	1.25E+04	2.29E+04	3.54E+04	4.95E+04
6533-73-9	Thallium carbonate (2:1)	Pwd	1.55E+02	4.39E+02	1.25E+03	2.29E+03	3.54E+03	4.95E+03
7791-12-0	Thallium chloride; (Thallium(I) chloride)	S	1.55E+03	4.39E+03	1.25E+04	2.29E+04	3.54E+04	4.95E+04
7791-12-0	Thallium chloride; (Thallium(I) chloride)	Pwd	1.55E+02	4.39E+02	1.25E+03	2.29E+03	3.54E+03	4.95E+03
7791-12-0	Thallium chloride; (Thallium(I) chloride)	Cry Pwd	1.55E+02	4.39E+02	1.25E+03	2.29E+03	3.54E+03	4.95E+03
10102-45-1	Thallium nitrate; (Thallium(I) nitrate)	S	3.09E+03	8.78E+03	2.49E+04	4.59E+04	7.08E+04	9.90E+04
13826-63-6	Thallium nitrite	S	2.32E+03	6.59E+03	1.87E+04	3.44E+04	5.31E+04	7.42E+04
1314-12-1	Thallium oxide	Pwd	2.32E+02	6.59E+02	1.87E+03	3.44E+03	5.31E+03	7.42E+03
1314-12-1	Thallium Std Solution <1%	L	2.35E+02	6.66E+02	1.89E+03	3.48E+03	5.37E+03	7.51E+03
10031-59-1	Thallium sulfate; (Sulfuric acid, dithallium(1+) salt)	S	2.32E+03	6.59E+03	1.87E+04	3.44E+04	5.31E+04	7.42E+04
10031-59-1	Thallium sulfate; (Sulfuric acid, dithallium(1+) salt)	Pwd	2.32E+02	6.59E+02	1.87E+03	3.44E+03	5.31E+03	7.42E+03
563-68-8	Thallium(I) acetate; (Acetic acid, thallium(1+) salt)	Cry Pwd	3.09E+02	8.78E+02	2.49E+03	4.59E+03	7.08E+03	9.90E+03
7446-18-6	Thallium(I) sulfate; (Sulfuric acid, dithallium(1+) salt)	Pwd	9.28E-02	2.63E-01	7.48E-01	1.38E+00	2.12E+00	2.97E+00
7446-18-6	Thallium(I) sulfate; (Sulfuric acid, dithallium(1+) salt)	S	9.28E-01	2.63E+00	7.48E+00	1.38E+01	2.12E+01	2.97E+01
1314-32-5	Thallium(III) oxide (THALLIC OXIDE)	Pwd	3.09E+02	8.78E+02	2.49E+03	4.59E+03	7.08E+03	9.90E+03
1314-32-5	Thallium(III) oxide (THALLIC OXIDE)	S	3.09E+03	8.78E+03	2.49E+04	4.59E+04	7.08E+04	9.90E+04
2757-18-8	Thallous malonate	S	2.32E+03	6.59E+03	1.87E+04	3.44E+04	5.31E+04	7.42E+04
2757-18-8	Thallous malonate	Pwd	2.32E+02	6.59E+02	1.87E+03	3.44E+03	5.31E+03	7.42E+03
326-91-0	Thenoyl trifluoroacetone	Pwd	1.93E+03	5.49E+03	1.56E+04	2.87E+04	4.42E+04	6.19E+04
62-55-5	Thioacetamide	S	1.93E+04	5.49E+04	1.56E+05	2.87E+05	4.42E+05	6.19E+05
4418-66-0	Thiobis(4-chloro-6-methyl)-phenol, 2,2'-	Pwd	2.01E+01	5.71E+01	1.62E+02	2.98E+02	4.60E+02	6.43E+02
4418-66-0	Thiobis(4-chloro-6-methyl)-phenol, 2,2'-	S	2.01E+02	5.71E+02	1.62E+03	2.98E+03	4.60E+03	6.43E+03
2231-57-4	Thiocarbazide; (Thiocarbohydrazide)	S	1.55E+04	4.39E+04	1.25E+05	2.29E+05	3.54E+05	4.95E+05
2231-57-4	Thiocarbazide; (Thiocarbohydrazide)	Pwd	1.55E+03	4.39E+03	1.25E+04	2.29E+04	3.54E+04	4.95E+04
111-48-8	Thiodiglycol	L	1.77E+05	5.02E+05	1.42E+06	2.62E+06	4.04E+06	5.66E+06
39196-18-4	Thiofanox; (Dacamox)	Pwd	4.64E+02	1.32E+03	3.74E+03	6.88E+03	1.06E+04	1.48E+04
39196-18-4	Thiofanox; (Dacamox)	S	4.64E+03	1.32E+04	3.74E+04	6.88E+04	1.06E+05	1.48E+05
297-97-2	Thionazin; (Ethyl pyrazinyl phosphorothioate)	L	6.63E+05	1.88E+06	5.34E+06	9.84E+06	1.52E+07	2.12E+07
7719-09-7	Thionyl chloride	L	6.31E+01	1.79E+02	2.50E+02	2.50E+02	2.50E+02	2.50E+02
79-19-6	Thiosemicarbazide	S	6.19E+02	1.76E+03	4.99E+03	9.18E+03	1.42E+04	1.98E+04
79-19-6	Thiosemicarbazide	Pwd	6.19E+01	1.76E+02	4.99E+02	9.18E+02	1.42E+03	1.98E+03
62-56-6	Thiourea	Cry Pwd	1.93E+03	5.49E+03	1.56E+04	2.87E+04	4.42E+04	6.19E+04
62-56-6	Thiourea	S	1.93E+04	5.49E+04	1.56E+05	2.87E+05	4.42E+05	6.19E+05
137-26-8	Thiram; (Thioperoxydicarbonic diamide [(H2N)C(S)]2S2, tetramethyl-)	Cry Pwd	1.55E+03	4.39E+03	1.25E+04	2.29E+04	3.54E+04	4.95E+04
7440-29-1	Thorium	S	3.87E+04	1.10E+05	3.12E+05	5.74E+05	8.84E+05	1.24E+06

z-0107	Thorium hydroxide	S	1.16E+04	3.29E+04	9.35E+04	1.72E+05	2.65E+05	3.71E+05
z-0108	Thorium nitrite	S	1.16E+04	3.29E+04	9.35E+04	1.72E+05	2.65E+05	3.71E+05
1314-20-1	Thorium oxide	Pwd	7.73E+03	2.20E+04	6.23E+04	1.15E+05	1.77E+05	2.47E+05
1314-20-1	Thorium oxide	S	7.73E+04	2.20E+05	6.23E+05	1.15E+06	1.77E+06	2.47E+06
13823-29-5	Thorium(IV) nitrate	L	6.76E+02	1.92E+03	5.45E+03	1.00E+04	1.55E+04	2.16E+04
13823-29-5	Thorium(IV) nitrate	S	3.87E+03	1.10E+04	3.12E+04	5.74E+04	8.84E+04	1.24E+05
13537-18-3	Thulium chloride heptahydrate (as TmCl3)	Pwd	7.73E+03	2.20E+04	6.23E+04	1.15E+05	1.77E+05	2.47E+05
39455-81-7	Thulium Oxide	S	3.87E+04	1.10E+05	3.12E+05	5.74E+05	8.84E+05	1.24E+06
39455-81-7	Thulium Oxide	Pwd	3.87E+03	1.10E+04	3.12E+04	5.74E+04	8.84E+04	1.24E+05
12036-44-1	Thulium oxide	S	3.87E+04	1.10E+05	3.12E+05	5.74E+05	8.84E+05	1.24E+06
12036-44-1	Thulium oxide	Pwd	3.87E+03	1.10E+04	3.12E+04	5.74E+04	8.84E+04	1.24E+05
76-61-9	Thymol blue Solution <1%	L	9.94E+03	2.82E+04	8.01E+04	1.47E+05	2.27E+05	3.18E+05
76-61-9	Thymol blue; (6,6[3H-2,1-benzoxathiol-3-ylidene]di-,s,s-dioxide)	Pwd	3.87E+03	1.10E+04	3.12E+04	5.74E+04	8.84E+04	1.24E+05
76-61-9	Thymol blue; (6,6[3H-2,1-benzoxathiol-3-ylidene]di-,s,s-dioxide)	Cry Pwd	3.87E+03	1.10E+04	3.12E+04	5.74E+04	8.84E+04	1.24E+05
9005-84-9	Thyodene; (Amylodextrin)	S	3.87E+04	1.10E+05	3.12E+05	5.74E+05	8.84E+05	1.24E+06
7440-31-5	Tin	Pwd	1.55E+03	4.39E+03	1.25E+04	2.29E+04	3.54E+04	4.95E+04
7440-31-5	Tin	S	1.55E+04	4.39E+04	1.25E+05	2.29E+05	3.54E+05	4.95E+05
12026-24-3	Tin hydroxide	S	1.93E+04	5.49E+04	1.56E+05	2.87E+05	4.42E+05	6.19E+05
41480-79-9	Tin nitrate	S	3.09E+04	8.78E+04	2.49E+05	4.59E+05	7.08E+05	9.90E+05
z-0110	Tin nitrite	S	2.32E+04	6.59E+04	1.87E+05	3.44E+05	5.31E+05	7.42E+05
7440-31-5	Tin Std Solution <1%	L	1.31E+03	3.71E+03	1.05E+04	1.94E+04	2.99E+04	4.18E+04
1332-29-2	Tin(II) oxide	Pwd	1.93E+03	5.49E+03	1.56E+04	2.87E+04	4.42E+04	6.19E+04
26419-73-8	TIRPATE, Carbamic Acid, Methyl-, O-(((2,4-Dimethyl-1, 3-Dithiolan-2-yl)Methylene)Amino)-	S	1.55E+02	4.39E+02	1.25E+03	2.29E+03	3.54E+03	4.95E+03
26419-73-8	TIRPATE, Carbamic Acid, Methyl-, O-(((2,4-Dimethyl-1, 3-Dithiolan-2-yl)Methylene)Amino)-	Pwd	1.55E+01	4.39E+01	1.25E+02	2.29E+02	3.54E+02	4.95E+02
7440-32-6	Titanium & Titanium based alloy	S	3.87E+04	1.10E+05	3.12E+05	5.74E+05	8.84E+05	1.24E+06
7440-32-6	Titanium & Titanium based alloy	Pwd	3.87E+03	1.10E+04	3.12E+04	5.74E+04	8.84E+04	1.24E+05
7705-07-9	Titanium chloride <20% solution	L	4.71E+04	1.34E+05	3.80E+05	6.99E+05	1.08E+06	1.51E+06
7704-98-5	Titanium hydride	Cry Pwd	2.32E+03	6.59E+03	1.87E+04	3.44E+04	5.31E+04	7.42E+04
546-68-9	Titanium Isopropoxide	L	3.49E+03	9.90E+03	2.81E+04	5.17E+04	7.98E+04	1.12E+05
546-68-9	Titanium Isopropoxide	S	2.01E+04	5.71E+04	1.62E+05	2.98E+05	4.60E+05	6.43E+05
13463-67-7	Titanium oxide; (Titanium dioxide)	S	7.73E+04	2.20E+05	6.23E+05	1.15E+06	1.77E+06	2.47E+06
13463-67-7	Titanium oxide; (Titanium dioxide)	Pwd	7.73E+03	2.20E+04	6.23E+04	1.15E+05	1.77E+05	2.47E+05
7550-45-0	Titanium tetrachloride	L	2.50E+03	2.50E+03	2.50E+03	2.50E+03	2.50E+03	2.50E+03
12137-20-1	Titanium(II) oxide	S	3.87E+04	1.10E+05	3.12E+05	5.74E+05	8.84E+05	1.24E+06
7783-63-3	Titanium(III) fluoride	Pwd	6.19E+01	1.76E+02	4.99E+02	9.18E+02	1.42E+03	1.98E+03
z-0111	Titanium-based alloy; (Titanium compounds)	S	3.87E+04	1.10E+05	3.12E+05	5.74E+05	8.84E+05	1.24E+06
108-88-3	Toluene	L	1.41E+04	4.01E+04	1.14E+05	2.10E+05	3.23E+05	4.52E+05
91-08-7	Toluene 2,6-diisocyanate	L	1.00E+04	1.00E+04	1.00E+04	1.00E+04	1.00E+04	1.00E+04

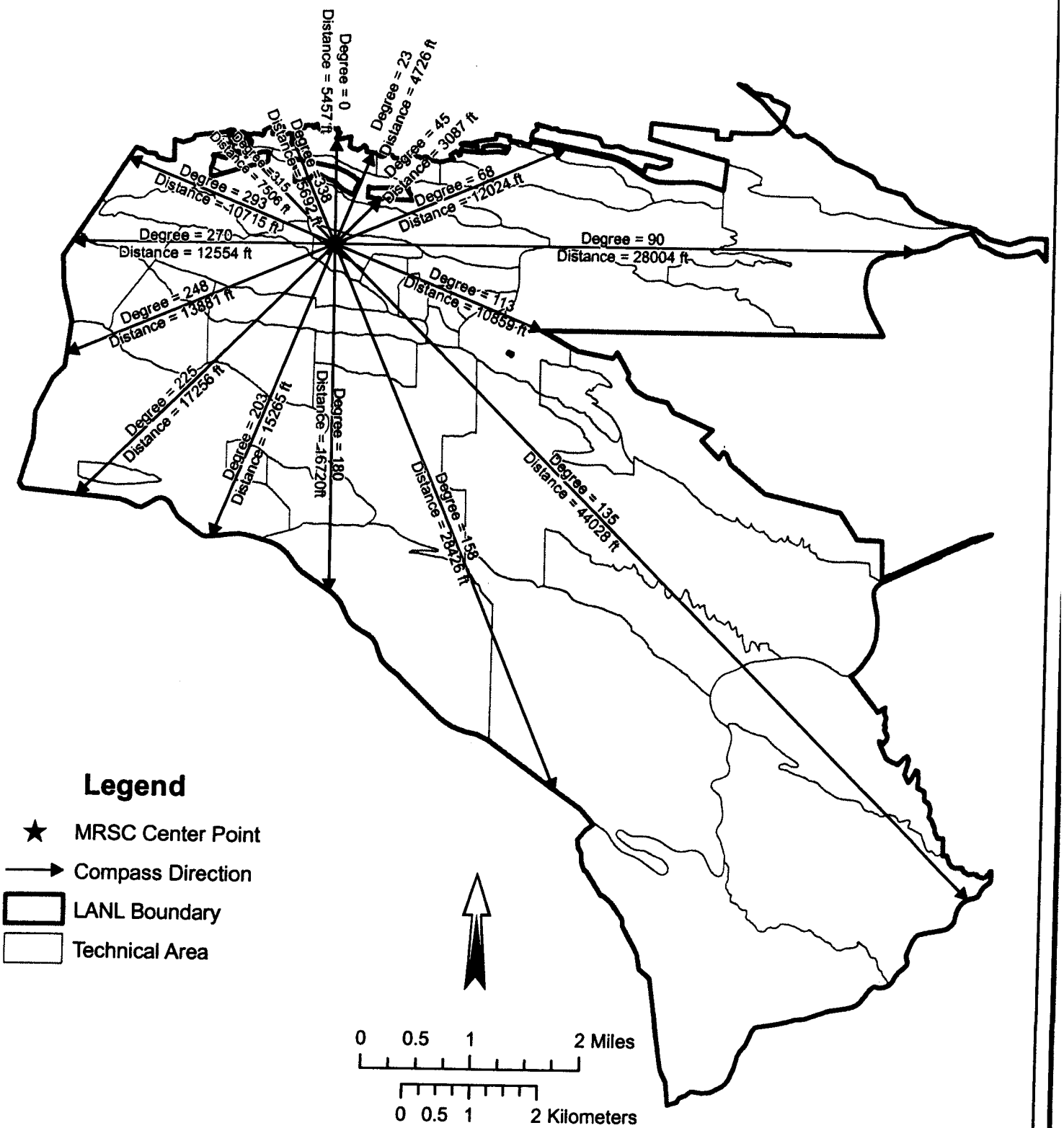
584-84-9	Toluene diisocyanate, 2,4-; (TDI)	L	1.00E+04	1.00E+04	1.00E+04	1.00E+04	1.00E+04	1.00E+04
584-84-9	Toluene diisocyanate, 2,4-; (TDI)	S	6.61E+02	1.88E+03	5.32E+03	9.80E+03	1.00E+04	1.00E+04
26471-62-5	Toluene-1,3-diisocyanate, mixed isomers	L	1.00E+04	1.00E+04	1.00E+04	1.00E+04	1.00E+04	1.00E+04
823-40-5	Toluene-2,6-diamine; (Benzenediamine, 2-methyl-1,2-)	Cry Pwd	2.32E+03	6.59E+03	1.87E+04	3.44E+04	5.31E+04	7.42E+04
95-80-7	Toluenediamine, 2,4-; (2,4-Diaminetoluene)	S	1.93E+04	5.49E+04	1.56E+05	2.87E+05	4.42E+05	6.19E+05
108-40-7	Toluenethiol, m-; (3-METHYLBENZENETHIOL)	L	1.39E+04	3.95E+04	1.12E+05	2.07E+05	3.19E+05	4.46E+05
95-53-4	Toluidene, o-	L	5.78E+04	1.64E+05	4.65E+05	8.57E+05	1.32E+06	1.85E+06
108-44-1	Toluidine, m-	L	1.46E+04	4.16E+04	1.18E+05	2.17E+05	3.35E+05	4.69E+05
106-49-0	Toluidine, p-; (4-Methylbenzenamine)	L	1.17E+05	3.31E+05	9.39E+05	1.73E+06	2.66E+06	3.73E+06
106-49-0	Toluidine, p-; (4-Methylbenzenamine)	Cry Pwd	4.64E+03	1.32E+04	3.74E+04	6.88E+04	1.06E+05	1.48E+05
z-0143	Total sequestrant reagent #5	L	1.01E+04	2.86E+04	8.12E+04	1.49E+05	2.30E+05	3.22E+05
8001-35-2	Toxaphene; (Chlorinated camphene)	L	4.57E+05	1.30E+06	3.68E+06	6.78E+06	1.05E+07	1.46E+07
8001-35-2	Toxaphene; (Chlorinated camphene)	S	3.09E+04	8.78E+04	2.49E+05	4.59E+05	7.08E+05	9.90E+05
8001-35-2	Toxaphene; (Chlorinated camphene)	Pwd	3.09E+03	8.78E+03	2.49E+04	4.59E+04	7.08E+04	9.90E+04
110-57-6	Trans-1,4-dichlorobutene; (2-Butylene dichloride)	L	5.49E+02	1.56E+03	4.42E+03	8.14E+03	1.25E+04	1.76E+04
64742-53-6	Transformer oil; (Mineral oil, petroleum distillates, hydrotreated (mild) light naphthenic)	L	3.01E+04	8.55E+04	2.43E+05	4.47E+05	6.89E+05	9.64E+05
78-42-2	Tri (2-ethyl hexyl) phosphate; (Tris....)	L	2.08E+05	5.91E+05	1.68E+06	3.09E+06	4.76E+06	6.66E+06
102-76-1	Triacetin; (Triacetyl glycerin)	L	1.04E+08	2.96E+08	8.39E+08	1.54E+09	2.38E+09	3.33E+09
1031-47-6	Triamiphos	Pwd	1.55E+02	4.39E+02	1.25E+03	2.29E+03	3.54E+03	4.95E+03
1031-47-6	Triamiphos	S	1.55E+03	4.39E+03	1.25E+04	2.29E+04	3.54E+04	4.95E+04
24017-47-8	Triazofos; (Triazophos) (GLYCERYL TRIACETATE)	L	7.84E+09	2.23E+10	6.32E+10	1.16E+11	1.79E+11	2.51E+11
126-73-8	Tributyl phosphate	L	1.97E+05	5.58E+05	1.59E+06	2.92E+06	4.50E+06	6.29E+06
115-78-6	Tributyl(2,4-dichlorobenzyl)phosphonium chloride	Cry Pwd	1.16E+03	3.29E+03	9.35E+03	1.72E+04	2.65E+04	3.71E+04
81741-28-8	Tributyltetradecylphosphonium chloride	S	3.87E+04	1.10E+05	3.12E+05	5.74E+05	8.84E+05	1.24E+06
27137-85-5	Trichloro(dichlorophenyl) silane	L	7.90E+00	2.24E+01	6.36E+01	6.36E+01	1.81E+02	2.53E+02
354-58-5	Trichloro-2,2,2-trifluoroethane, 1,1,1-	L	1.25E+03	3.54E+03	1.01E+04	1.85E+04	2.85E+04	3.99E+04
302-17-0	Trichloroacetaldehyde hydrate; (Chloral hydrate)	L	3.78E+03	1.07E+04	3.05E+04	5.61E+04	8.65E+04	1.21E+05
302-17-0	Trichloroacetaldehyde hydrate; (Chloral hydrate)	S	7.73E+03	2.20E+04	6.23E+04	1.15E+05	1.77E+05	2.47E+05
75-87-6	Trichloroacetaldehyde monohydrate; (Chloral)	L	4.22E+03	1.20E+04	3.40E+04	6.27E+04	9.66E+04	1.35E+05
76-03-9	Trichloroacetic acid	S	2.58E+04	7.33E+04	2.08E+05	3.83E+05	5.91E+05	8.26E+05
76-03-9	Trichloroacetic Acid <85%	L	8.45E+03	2.40E+04	6.81E+04	1.25E+05	1.93E+05	2.70E+05
76-02-8	Trichloroacetyl chloride	L	1.95E+02	5.52E+02	1.57E+03	2.89E+03	4.45E+03	6.23E+03
10025-85-1	Trichloroamine; (Nitrogen chloride)	L	1.10E+02	3.13E+02	8.87E+02	1.63E+03	2.52E+03	3.52E+03
87-61-6	Trichlorobenzene, 1,2,3-	S	7.73E+04	2.20E+05	6.23E+05	1.15E+06	1.77E+06	2.47E+06
120-82-1	Trichlorobenzene,1,2,4-	L	2.54E+04	7.21E+04	2.05E+05	3.77E+05	5.81E+05	8.13E+05
71-55-6	Trichloroethane, 1,1,1-; (Methyl chloroform)	L	1.86E+04	5.29E+04	1.50E+05	2.76E+05	4.26E+05	5.96E+05
79-00-5	Trichloroethane, 1,1,2-	L	3.24E+03	9.20E+03	2.61E+04	4.81E+04	7.41E+04	1.04E+05
79-01-6	Trichloroethylene	L	4.85E+04	1.38E+05	3.91E+05	7.20E+05	1.11E+06	1.55E+06
115-21-9	Trichloroethylsilane; (Ethyl trichlorosilane)	L	6.58E+01	1.87E+02	5.30E+02	9.75E+02	1.50E+03	2.10E+03

75-69-4	Trichlorofluoromethane; (Fluorotrichloromethane, Freon 11)	L	3.90E+03	1.11E+04	3.14E+04	5.78E+04	8.91E+04	1.25E+05
75-69-4	Trichlorofluoromethane; (Fluorotrichloromethane, Freon 11)	G	1.74E+03	4.93E+03	1.40E+04	2.58E+04	3.97E+04	5.56E+04
327-98-0	Trichloronate; (Ethyl trichlorophenylethylphosphonothioate)	L	1.06E+04	3.02E+04	8.56E+04	1.58E+05	2.43E+05	3.40E+05
933-75-5	Trichlorophenol, 2,3,6-	Cry Pwd	1.93E+03	5.49E+03	1.56E+04	2.87E+04	4.42E+04	6.19E+04
95-95-4	Trichlorophenol, 2,4,5-	S	5.41E+04	1.54E+05	4.36E+05	8.03E+05	1.24E+06	1.73E+06
88-06-2	Trichlorophenol, 2,4,6-	S	5.41E+04	1.54E+05	4.36E+05	8.03E+05	1.24E+06	1.73E+06
93-72-1	Trichlorophenoxy)propionic acid, 2-; (2,4,5-(Silvex)	L	1.33E+03	3.79E+03	1.07E+04	1.98E+04	3.05E+04	4.27E+04
93-72-1	Trichlorophenoxy)propionic acid, 2-; (2,4,5-Silvex)	S	3.87E+04	1.10E+05	3.12E+05	5.74E+05	8.84E+05	1.24E+06
93-76-5	Trichlorophenoxyacetic acid, 2,4,5-; (2,4,5-T)	S	3.87E+04	1.10E+05	3.12E+05	5.74E+05	8.84E+05	1.24E+06
98-13-5	Trichlorophenylsilane	L	2.39E+04	6.79E+04	1.93E+05	3.55E+05	5.47E+05	7.65E+05
96-18-4	Trichloropropane, 1,2,3-	L	1.57E+04	4.46E+04	1.27E+05	2.33E+05	3.59E+05	5.03E+05
10025-78-2	Trichlorosilane	L	3.06E+01	8.69E+01	2.47E+02	2.47E+02	7.00E+02	9.80E+02
10025-78-2	Trichlorosilane	G	2.14E+01	6.08E+01	1.72E+02	1.72E+02	4.90E+02	6.85E+02
76-13-1	Trichlorotrifluorethane; (Freon 113, or CFC113)	L	5.74E+03	1.63E+04	4.63E+04	8.52E+04	1.31E+05	1.84E+05
629-50-5	Tridecane	L	5.18E+03	1.47E+04	4.18E+04	7.69E+04	1.19E+05	1.66E+05
102-71-6	Triethanolamine; (Trihydroxytriethylamine)	L	3.55E+04	1.01E+05	2.86E+05	5.27E+05	8.12E+05	1.14E+06
998-30-1	Triethoxysilane	L	2.29E+02	6.50E+02	1.84E+03	3.40E+03	5.24E+03	7.33E+03
78-40-0	Triethyl phosphate	L	5.78E+05	1.64E+06	4.65E+06	8.57E+06	1.32E+07	1.85E+07
122-52-1	Triethyl phosphite	L	6.53E+03	1.85E+04	5.26E+04	9.68E+04	1.49E+05	2.09E+05
97-93-8	Triethylaluminum	L	3.00E+06	8.52E+06	2.42E+07	4.45E+07	6.87E+07	9.61E+07
121-44-8	Triethylamine	L	9.52E+02	2.70E+03	7.67E+03	1.41E+04	2.18E+04	3.05E+04
877-44-1	Triethylbenzene, 1,2,4-; (Triethylbenzene)	L	1.20E+04	3.40E+04	9.64E+04	1.78E+05	2.74E+05	3.83E+05
25340-18-5	Triethylbenzene, 1,2,4-; (Triethylbenzene, mixed isomers)	L	4.14E+06	1.17E+07	3.33E+07	6.14E+07	9.46E+07	1.32E+08
102-25-0	Triethylbenzene, 1,3,5-; (Triethylbenzene)	L	1.09E+06	3.09E+06	8.77E+06	1.61E+07	2.49E+07	3.48E+07
112-27-6	Triethylene glycol	L	2.86E+05	8.13E+05	2.31E+06	4.25E+06	6.55E+06	9.16E+06
112-35-6	Triethylene glycol monomethyl ether	L	2.09E+07	5.93E+07	1.68E+08	3.10E+08	4.77E+08	6.68E+08
112-24-3	Triethylenetetramine	L	1.88E+07	5.34E+07	1.51E+08	2.79E+08	4.30E+08	6.02E+08
373-57-9	Trifluoro(methanol)-Boron, (T-4)	L	4.01E+03	1.14E+04	3.23E+04	5.94E+04	9.16E+04	1.28E+05
76-05-1	Trifluoroacetic acid; (Trifluoroethanoic acid)	L	8.30E+01	2.36E+02	6.69E+02	1.23E+03	1.90E+03	2.66E+03
354-32-5	Trifluoroacetyl chloride	L	3.49E+01	9.90E+01	2.81E+02	5.18E+02	7.98E+02	1.12E+03
354-32-5	Trifluoroacetyl chloride	G	2.09E+02	5.94E+02	1.69E+03	3.11E+03	4.79E+03	6.70E+03
z-0144	Trifluoroacetyl)-N,0,0,0-tetrakis((TMS)norepinephrine, N-(	Pwd	1.16E+02	3.29E+02	9.35E+02	1.72E+03	2.65E+03	3.71E+03
75-89-8	Trifluoroethanol, 2,2,2-; (Trifluoroethyl alcohol D3)	L	3.97E+02	1.13E+03	3.20E+03	5.89E+03	9.09E+03	1.27E+04

22502-27-8	Trifluoro-l-(2-thienyl)-1,3-butanedione (4,4,4-) boron difluoride	S	1.16E+04	3.29E+04	9.35E+04	1.72E+05	2.65E+05	3.71E+05
75-46-7	Trifluoromethane (Fluorofrom)	G	2.35E+04	6.67E+04	1.89E+05	3.49E+05	5.38E+05	7.52E+05
98-16-8	Trifluoromethyl)benzenamine, 3-(; (m-Aminobenzyl fluoride)	L	2.58E+05	7.31E+05	2.08E+06	3.82E+06	5.89E+06	8.24E+06
1582-09-8	Trifluralin; (2,6-dinitro-N,N-dipropyl-4-(trifluoromethyl) benzenamine	S	4.64E+04	1.32E+05	3.74E+05	6.88E+05	1.06E+06	1.48E+06
2757-28-0	Triheptylamine, 6,6',6''-trimethyl-; (Triisooctylamine)	L	1.21E+04	3.44E+04	9.76E+04	1.80E+05	2.77E+05	3.88E+05
100-99-2	Triisobutylaluminum	L	1.27E+06	3.62E+06	1.03E+07	1.89E+07	2.91E+07	4.08E+07
25549160	Triisooctylamine	L	1.21E+04	3.44E+04	9.77E+04	1.80E+05	2.77E+05	3.88E+05
102-24-9	Trimethoxyboroxine	L	9.82E+03	2.79E+04	7.91E+04	1.46E+05	2.24E+05	3.14E+05
2487-90-3	Trimethoxysilane	L	2.44E+01	6.92E+01	1.96E+02	1.96E+02	5.58E+02	7.80E+02
512-56-1	Trimethyl phosphate; (TMP)	L	5.34E+04	1.52E+05	4.30E+05	7.92E+05	1.22E+06	1.71E+06
121-45-9	Trimethyl phosphite; (TMP)	L	1.57E+04	4.44E+04	1.26E+05	2.32E+05	3.58E+05	5.01E+05
25265-77-4	Trimethyl-1,3-pentanediol monoisobutyrate2,2,4-; (Texanol)	L	2.55E+05	7.23E+05	2.05E+06	3.78E+06	5.82E+06	8.15E+06
20324-34-9	Trimethyl-2,5,8,11-tetraoxatetradecan-13-ol, 4,7,10-	S	3.87E+04	1.10E+05	3.12E+05	5.74E+05	8.84E+05	1.24E+06
55702-61-9	Trimethyl-2-hexene, 4,4,5-	S	3.87E+04	1.10E+05	3.12E+05	5.74E+05	8.84E+05	1.24E+06
75-50-3	Trimethylamine (<45% solution)	L	4.66E+02	1.32E+03	3.75E+03	6.91E+03	1.07E+04	1.49E+04
75-50-3	Trimethylamine [2L ~ 1.1kg]	G	1.87E+02	5.31E+02	1.51E+03	2.77E+03	4.27E+03	5.98E+03
88-05-1	Trimethylaniline, 2,4,6-	L	2.18E+05	6.18E+05	1.75E+06	3.23E+06	4.98E+06	6.97E+06
526-73-8	Trimethylbenzene, 1,2,3-	L	2.38E+05	6.76E+05	1.92E+06	3.53E+06	5.44E+06	7.62E+06
25551-13-7	Trimethylbenzene, 1,2,3-; (Data for mixed isomers) Aqualyte(tm), LSC cocktail	L	1.58E+05	4.47E+05	1.27E+06	2.34E+06	3.60E+06	5.04E+06
95-63-6	Trimethylbenzene, 1,2,4-; (Pseudocumene)	L	4.67E+05	1.32E+06	3.76E+06	6.92E+06	1.07E+07	1.49E+07
75-77-4	Trimethylchlorosilane	L	1.47E+02	4.17E+02	1.18E+03	2.18E+03	3.36E+03	4.70E+03
62238-01-1	Trimethyldecane, 2,2,8-	L	2.99E+04	8.48E+04	2.41E+05	4.43E+05	6.83E+05	9.56E+05
62108-23-0	Trimethyldecane, 2,5,6-	L	2.99E+04	8.48E+04	2.41E+05	4.43E+05	6.83E+05	9.56E+05
62338-09-4	Trimethyldecane, 3,3,4-	L	5.72E+03	1.62E+04	4.61E+04	8.48E+04	1.31E+05	1.83E+05
3522-94-9	Trimethylhexane, 2,2,5-	L	2.41E+04	6.83E+04	1.94E+05	3.57E+05	5.51E+05	7.70E+05
62016-28-8	Trimethyloctane, 2,2,6-	L	2.83E+04	8.03E+04	2.28E+05	4.20E+05	6.47E+05	9.05E+05
98060-52-7	Trimethyloctane, 2,3,6-	G	9.88E+02	2.81E+03	7.96E+03	1.47E+04	2.26E+04	3.16E+04
62016-34-6	Trimethyloctane, 2,3,7-	L	2.83E+04	8.03E+04	2.28E+05	4.20E+05	6.47E+05	9.05E+05
62016-37-9	Trimethyloctane, 2,4,6-	L	2.83E+04	8.03E+04	2.28E+05	4.20E+05	6.47E+05	9.05E+05
54166-32-4	Trimethyloctane, 2,6,6-	L	2.83E+04	8.03E+04	2.28E+05	4.20E+05	6.47E+05	9.05E+05
824-11-3	Trimethylolpropane phosphite	S	9.28E+02	2.63E+03	7.48E+03	1.38E+04	2.12E+04	2.97E+04
824-11-3	Trimethylolpropane phosphite	Pwd	9.28E+01	2.63E+02	7.48E+02	1.38E+03	2.12E+03	2.97E+03
540-84-1	Trimethylpentane, 2,2,4-	L	1.24E+04	3.52E+04	9.99E+04	1.84E+05	2.83E+05	3.97E+05
108-75-8	Trimethylpyridine, 2,4,6- (2,4,6-COLLIDINE)	L	2.48E+04	7.05E+04	2.00E+05	3.68E+05	5.68E+05	7.95E+05
1066-40-6	Trimethylsilanol	L	9.41E+01	2.67E+02	7.58E+02	1.40E+03	2.15E+03	3.01E+03

Distances from the Centroid located at Modern Radiological Science Complex /TA-48

Attachment 35 MRSC



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Data Sources: Compass Direction/ MRSC Center point\Xavier:\Projects\05-Projects\05-0057\Shapefiles
DOE Boundary; Los Alamos National Laboratory,
FWO Utilities and Infrastructure; 01 February 2003
ENV-ECR GIS TEAM
May 19, 2005
Map Reference # 05-0057-02

Projection: New Mexico State Plane Coordinates, Central Zone, North American Datum 1983.

Attachment 36 MRSC

Chemical CAS Number	Maximum Inventory (lbs)	Physical Form
Arsenic (V) Oxide Hydrate and associated compounds 1327-53-3	4500	Powder
Cadmium and compounds 7440-43-9	6840	Powder
Chromic Acid 7738-94-5	20,000	10% solution
Copper Sulfate and compounds 7758-98-7	36,000	Powder
Cyanides 57-12-5	466**	Granules and in solutions
Hydrochloric Acid 7647-01-0	13,960	37% solution
Lithium Hydride and associated compounds 7580-67-8	399 1800	Powder Solid
Nitric Acid 7697-37-2	4610	99% solution
Sodium Fluoride 7681-49-4	68,400	Powder
Sodium Hydroxide 1310-73-2	100,000	<50% solution
Sulfuric Acid 7664-93-9	100,000	98% solution
Zirconium Compounds 744-67-7	45,000	Powder