***Location Key***

| | |
|---|---|
| Chem Lab | CL |
| Flamable Cabinet - A | FA |
| Flamable Cabinet - B | FB |
| Flamable Cabinet - C | FC |
| Poison Cabinet | PC |
| Storage Acid Cabinet | SA |
| MET Lab | MET |
| Mass Spec Room | Mass |
| Perchloric Acid Vault | P |
| Acid Fence Area | A |
| Flammable Shed | FS |
| Bucking Room | BR |
| Bulk around Mill | Mill |
| Stock Room | SR |
| Refrigerator | F |
| Storage | ST |
| Scale Room | SR |
| No Longer on Site | NA |

Appendix L-1
Laboratory Chemical Inventory

| Location | Chemical Name | Quantity | Unit | Density g/cm3 | Volume | $1cm^3$ ~ 1mL |
|---|---|---|---|---|---|---|
| | (F) electrade Ionalyzer | 0 | g | | 0 | ml |
| CL | 0-Tolidine Dihydrochloride | 100 | g | 1.03 | 97.1 | mL |
| | 1-Butanol | 0 | g | | 0 | ml |
| | (1-Hydroxyethylidene) diphosphenic acid | 0 | g | | 0 | ml |
| | 1 PH buffer solution | 0 | g | | 0 | ml |
| CL | 1,5 Diphenylcarbazone | 10 | g | 1.19 | 8.4 | mL |
| CL | 1,10 Phenanthroline | 80 | g | 1.25 | 64.0 | mL |
| CL | 1,10 Phenanthroline Ferrous Sulfate | 3,400 | g | 1 | 3,400.0 | mL |
| CL | 1,2-Cyclohexylene Dinitrilo Tetraacetic Acid | 50 | g | 1.48 | 33.8 | mL |
| FB | 1,4 Dioxane | 6,180 | g | 1.03 | 6,000.0 | mL |
| | 1.65 PH buffer solution | 0 | g | | 0 | ml |
| SR | 1-Amino-2-Naphthol-4-Sulfonic Acid | 25 | g | 1.627 | 15.4 | mL |
| F | 1-Butanol | 3,321 | g | 0.81 | 4,100.0 | mL |
| FC | 1-Ethyl-2((1,4dimethyl-2-phenyl-6-pyrimidinylidenemethal) Quinolinium Cholride | 0.5 | g | * | 5.0 | mL |
| | 2-(5-Bromo-2-pyridylazo)-5-(diethylamino)phenol | 0 | g | | 0 | ml |
| | 2-(2, 4-Dinitrophenylazo)-1-Naphthol-3, 6-disulfonic Acid Disodium Salt | 0 | g | | 0 | ml |
| | 2,2,4-Trimethyl pentane | 0 | g | | 0 | ml |
| CL | 2,2-BiPyridine | 10 | g | 1.106 | 9.0 | mL |
| CL | 2-Butoxy ethanol | 38 | lb | 0.9012 | 5.0 | gal |
| | (2-Carboxy-2'-hydroxy-5'-Sulfoformazyl) | 0 | g | | 0 | ml |
| FA | 2-Propanol | 98,086 | g | 0.785 | 15,000.0 | ml |
| FS | 2 PH buffer solution | 4,000 | g | 1 | 4,000.0 | mL |
| | Disodium | 0 | g | | 0 | ml |
| CL | 3-(i-decoxy) Propanoic Acid | | | Unknown | 100.0 | mL |
| SR | 3-(n-octoxy-n-decoxy) Propanoic Acid | | | Unknown | 100.0 | mL |
| | 3M KCL fill solution | 0 | g | | 0 | ml |
| SR | 4-Amino-2-Naphthalene-Sulfonic Acid | 25 | g | 1.502 | 16.6 | mL |
| F | 4 PH buffer solution | 3,500 | g | 1 | 3,500.0 | mL |
| SR | 4,4,4- Trifluoro-1-(2-Thienyl)-1,3-Butenediane | 50 | g | 1.415 | 35.3 | mL |
| | 4-amine-1-naphthalene Sulfuric Acid | 0 | g | | 0 | ml |
| CL | 4-Methyl-2-Pentanone | 40 | g | 0.8 | 50.0 | mL |
| FC | 4-Methyl-2-Pentanone | 18,000 | g | 0.8 | 22,500.0 | mL |
| | 5- Diphenyl Carbazone | 0 | g | | 0 | ml |
| FA | 5-(4-Dimethylaminobenzylidene) Rhodamine | 10 | g | 1.368 | 7.3 | mL |
| F | 59PH4940114 | | | Unknown | 10.0 | gal |
| A | 7 PH buffer solution | 3,500 | g | 1 | 3,500.0 | mL |
| SR | 8-Hydroxyquinoline | 600 | g | 1.034 | 580.3 | mL |
| SR | 8-Hydroxyquinoline | 40 | g | 1.034 | 38.7 | mL |
| CL | 8-Quinolinol 8-Hydroxy Quinoline | 450 | g | 1.04 | 432.7 | mL |

Appendix L-1
Laboratory Chemical Inventory

| Location | Chemical Name | Quantity | Unit | Density g/cm3 | Volume | 1cm³ ~ 1mL |
|---|---|---|---|---|---|---|
| SR | 10 PH buffer solution | 70,000 | g | 1 | 70,000.0 | mL |
| | 12.45 PH buffer solution | 0 | g | | 0 | mL |
| SR | Acetic Acid | 35,404 | g | 1.049 | 33,750.0 | mL |
| F | Acetic Anhydride | 1,296 | g | 1.08 | 1,200.0 | mL |
| FC | Acetone | 790 | g | 0.79 | 1,000.0 | mL |
| MET | Acetone | 158 | g | 0.79 | 200.0 | mL |
| | Acetylene | 0 | g | | 0 | mL |
| | ACS Reagent | 0 | g | | 0 | mL |
| SR | Adogen 2382 | 179.6 | g | 0.898 | 200.0 | mL |
| SR | Adogen 283 | 898 | g | 0.898 | 1,000.0 | mL |
| SR | Adogen 382 | 359.2 | g | 0.898 | 400.0 | mL |
| SR | AF 9000 | | | Unknown | 1,000.0 | mL |
| SR | Ag/AgCl | | | Unknown | 65.0 | mL |
| FC | Alamine 336 | 1,800 | g | 0.8 | 2,250.0 | mL |
| MET | Alcohol, Alfol 12LE | 1,660 | g | 0.83 | 2,000.0 | mL |
| | Alcohol, n-Amyl | 0 | g | | 0 | ml |
| CL | Alcohol Solvent, Denatured | 8,982 | g | 0.791 | 11,355.0 | mL |
| SR | Alcohol, Reagent | 19.0 | kg | 0.79 | 24.0 | L |
| FB | Alcohol, Reagent | 9.5 | kg | 0.79 | 12.0 | L |
| MET | Alcohol, Reagent | 1738.0 | g | 0.79 | 2,200.0 | mL |
| FS | Alcohol, Reagent | 12.6 | kg | 0.79 | 16.0 | L |
| BR | Alcohol, Reagent | 2.0 | kg | 0.79 | 2.5 | L |
| PC | Aliquat 336 | 416.24 | g | 0.88 | 1.0 | pt |
| MET | Aliquat 337 | 0.88 | kg | 0.88 | 1.0 | L |
| CL | Alizarin Red | 35 | g | 1.06 | 33.0 | mL |
| | Alizarin Yellow | 0 | g | | 0 | ml |
| CL | Alkaline Reagent | | | Unknown | 0.0 | 0 |
| CL | Aluminum 1000 mg/L | 250 | g | 1 | 250.0 | mL |
| SR | Aluminum Chloride | 800 | g | 2.44 | 327.9 | mL |
| SR | Aluminum Hydroxide | 500 | g | 2.4 | 208.3 | ml |
| SR | Aluminum Metal, granular | 750 | g | 2.7 | 277.8 | mL |
| | Aluminum Powder | 0 | g | | 0 | ml |
| SR | Aluminum Nitrate, Nonahydrate | 43,000 | g | 1.058 | 40,642.7 | mL |
| A | Aluminum Nitrate Solution | 321 | gal | 1.1 | 35.0 | gal |
| SR | Aluminum Nitrate 9-hydrate | 45,400 | g | 1.25 | 36,320.0 | mL |
| SR | Aluminum Potassium Sulfate 12 Hydrate Crystal | 500 | g | 1.757 | 284.6 | mL |
| SR | Aluminum Powder | 300 | g | 2.7 | 111.1 | mL |
| F | Aluminum Reagent 2 | | | Unknown | 60.0 | 0 |
| | Aluminum STD 5000 ppm | 0 | g | | 0 | ml |
| SR | Aluminum Sulfate Crystal | 250 | g | 1.69 | 147.9 | mL |
| SR | Aluminum Wire | 400 | g | 2.7 | 148.1 | mL |

Appendix L-1
Laboratory Chemical Inventory

| Location | Chemical Name | Quantity | Unit | Density g/cm3 | Volume | $1cm^3$ ~ 1mL |
|---|---|---|---|---|---|---|
| SR | Amberlite | 500 | g | 1.02 | 490.2 | mL |
| CL | AMCO Clear Turbidity 1.0 NTU | 4,000 | g | 1 | 4,000.0 | mL |
| CL | AMCO Clear Turbidity 10 NTU | 4,000 | g | 1 | 4,000.0 | mL |
| CL | AMCO Clear Turbidity 100 NTU | 4,000 | g | 1 | 4,000.0 | mL |
| CL | AMCO Clear Turbidity 1000 NTU | 4,000 | g | 1 | 4,000.0 | mL |
| | Amine | 0 | g | | 0 | ml |
| CL | Ammonia Standard | | | Unknown | 950.0 | mL |
| SR | Ammonium 1-Pyrrolidine Carbodithioate | 25 | g | * | 75.0 | mL |
| SR | Ammonium Acetate | 3,000 | g | 1.07 | 2,803.7 | mL |
| SR | Ammonium Bicarbonate | 11,100 | g | 1.586 | 6,998.7 | mL |
| SR | Ammonium Bifluoride | 4,536 | g | 1.5 | 3,024.0 | mL |
| SR | Ammonium Chloride | 5,268 | g | 1.52 | 3,465.8 | mL |
| PC | Ammonium Fluoride | 1600 | g | 1.11 | 1,441.4 | mL |
| | Ammonium Hydrogen Difluoride | 0 | g | | 0 | ml |
| CL | Ammonium Hydroxide | 26,940 | g | 0.898 | 30,000.0 | mL |
| SR | Ammonium Iodide | 4,000 | g | 2.51 | 1,593.6 | mL |
| PC | Ammonium Meta-Vanadate | 500 | g | 2.32 | 215.5 | mL |
| SR | Ammonium Meta-Vanadate | 150 | g | 2.32 | 64.7 | mL |
| SR | Ammonium Molybdate | 2,500 | g | 3.1 | 806.5 | mL |
| SR | Ammonium Molybdate-4-Hydrate Crystal | 50 | g | 2.498 | 20.0 | mL |
| SR | Ammonium Nitrate | 11,022 | g | 1.72 | 6,408.1 | mL |
| PC | Ammonium Oxalate | 19,300 | g | 1.5 | 12,866.7 | mL |
| SR | Ammonium Peroxy Disulfate | 3,000 | g | 1.98 | 1,515.2 | mL |
| SR | Ammonium Persulfate | 2,000 | g | 1.98 | 1,010.1 | mL |
| F | Ammonium Persulfate | 100 | g | 1.98 | 50.5 | mL |
| | Ammonium Phosphate, Monobasic | 0 | g | | 0 | ml |
| SR | Ammonium Sulfate | 3,000 | g | 1.77 | 1,694.9 | mL |
| | Ammonium Sulfate 12-hydrate | 0 | g | | 0 | ml |
| SR | Ammonium Thiocyanate | 20,100 | g | 1.3 | 15,461.5 | mL |
| SR | Ammonium Vanadate | 7,000 | g | 2.32 | 3,017.2 | mL |
| SR | Anion Exchange Resin | 450 | g | 0.7 | 642.9 | mL |
| PC | Antimony Potassium Tartrate | 500 | g | 2.6 | 192.3 | mL |
| PC | Antimony Powder | 5 | g | 6.69 | 0.7 | mL |
| CL | Arsenic 1000 mg/L | 353.5 | g | 1.01 | 350.0 | mL |
| CL | Arsenic STD | 121.2 | mg | 1.01 | 120.0 | mL |
| PC | Arsenic Trioxide | 3391.114 | g | 3.738 | 32.0 | oz. |
| SR | Arsenic Trioxide | 1,073 | g | 3.738 | 287.1 | mL |
| SR | Arsenious Oxide | 10 | g | 3.738 | 2.7 | mL |
| PC | Ascarite | 908 | g | 0.9 | 1,008.9 | mL |
| Mass | Atomic Spectroscopy Standard | | | Unknown | 0.0 | 0 |
| SA | Barbituric Acid | 100 | g | 1.455 | 68.7 | mL |

Appendix L-1
Laboratory Chemical Inventory

| Location | Chemical Name | Quantity | Unit | Density g/cm3 | Volume | $1cm^3$ ~ 1mL |
|---|---|---|---|---|---|---|
| CL | Barium 1000 mg/L | 127 | g | 1.013 | 125.0 | mL |
| | Barium 5000 ppm STD | 0 | g | | 0 | ml |
| | Barium Chloranilate | 0 | g | | 0 | ml |
| CL | Barium Chloride | 2276.265 | g | 1.2031 | 2.0 | qt |
| PC | Barium Chloride | 6,800 | g | 3.856 | 1,763.5 | mL |
| CL | Barium DiPhenyl amine sulfonate | 2 | g | * | 25.0 | mL |
| | Barium Hydroxide, Monohydrate | 0 | g | | 0 | ml |
| SR | Barium Nitrate | 908 | g | 3.23 | 281.1 | mL |
| FC | Barlene, 310 I | 393.5 | g | 0.787 | 500.0 | mL |
| SR | Bentonite | 2,500 | g | 2.4 | 1,041.7 | mL |
| FA | Benzaldehyde | 3,958 | g | 1.0415 | 3,800.0 | mL |
| F | Benzoic Oxime | 700 | g | 1.13 | 619.5 | mL |
| PC | Beryllium Sulfate | 113 | g | 2.443 | 46.3 | mL |
| PC | Bismuth Powder | 20 | g | 9.8 | 2.0 | mL |
| SR | Boileezers Granules | 2,000 | g | 4 | 500.0 | mL |
| | Boran 1000 mg/L | 0 | g | | 0 | ml |
| BR | Boraxo | 1,000 | g | 1.73 | 578.0 | mL |
| SR | Boric Acid | 10,150 | g | 1.435 | 7,073.2 | mL |
| CL | Boron 1000 mg/L | 100 | g | 1 | 100.0 | mL |
| FC | Brake Fluid | 974.38 | g | 1.03 | 946.0 | mL |
| PC | Bromine | | | Unknown | 0.0 | 0 |
| CL | Bromo Padap | 5 | g | 1.39 | 3.6 | mL |
| CL | Bromo Thymol blue | 10 | g | 1.25 | 8.0 | mL |
| CL | Bromocresol Green | 5 | g | 0.981 | 5.1 | mL |
| CL | Bromophenol blue | 110 | g | 0.954 | 115.3 | mL |
| | Bromophenol Blue, Sodium Salt | 0 | g | | 0 | ml |
| | Bromothymol Blue | 0 | g | | 0 | ml |
| CL | Brucine Sulfate | 10 | g | * | 40.0 | mL |
| MET | Burco LAF-6 | 600 | g | 1 | 600.0 | g |
| CL | Cadmium 1000 mg/mL | 506.5 | g | 1.013 | 500.0 | g |
| | Cadmium 5000 ppm STD | 0 | g | | 0 | ml |
| SR | Cadmium Metal | 500 | g | 8.64 | 57.9 | mL |
| SR | Cadmium Nitrate | 453.6 | g | 2.455 | 184.8 | mL |
| SR | Cadmium Powder | 10 | g | 8.64 | 1.2 | mL |
| SR | Calcium | 25 | g | 1.54 | 16.2 | mL |
| CL | Calcium 1000 mg/L | 750 | g | 1 | 750.0 | mL |
| SR | Calcium Acetate | 453 | g | 1.5 | 302.0 | mL |
| SR | Calcium Carbonate | 453 | g | 2.93 | 154.6 | mL |
| SR | Calcium Carbonate | 50 | g | 2.93 | 17.1 | mL |
| SR | Calcium Chloride Dihydrate | 2,500 | g | 1.71 | 1,462.0 | mL |
| SR | Calcium Chloride, Anhydrous | 1500 | g | 1.086 | 1,381.2 | mL |

Appendix L-1
Laboratory Chemical Inventory

| Location | Chemical Name | Quantity | Unit | Density g/cm3 | Volume | 1cm³ ~ 1mL |
|---|---|---|---|---|---|---|
| | Calcium Cyanide | 0 | g | | 0 | ml |
| PC | Calcium Fluoride | 950 | g | 3.18 | 298.7 | mL |
| SR | Calcium Hydroxide | 3,100 | g | 2.24 | 1,383.9 | mL |
| SR | Calcium Hydroxide | 800 | g | 2.24 | 357.1 | mL |
| SR | Calcium Nitrate | 2268 | g | 2.36 | 961.0 | mL |
| SR | Calcium Nitrate, 4-Hydrate | 500 | g | 1.86 | 268.8 | mL |
| SR | Calcium Oxide | 4,268 | g | 3.3 | 1,293.3 | mL |
| | Calcium reference solution | 0 | g | | 0 | ml |
| SR | Calcium Sulfite | 1,160 | g | 2.5 | 464.0 | mL |
| FS | Calumet 400-500 solvent | 1245 | g | 0.83 | 1.5 | L |
| SR | Carbon, Active (aqua pac) | | | Unknown | 40,942.0 | qt |
| SR | Carbons, Granular | 350 | g | 0.95 | 368.4 | mL |
| | Carboxy methyl Guar Gum | 0 | g | | 0 | ml |
| CL | Carminic Acid | 10 | g | 1.87 | 5.3 | mL |
| SR | Caustlag | 1300 | g | * | 2,000.0 | mL |
| SR | Ceric Ammonium Sulfate Dihydrate | 2,020 | g | * | 4,000.0 | mL |
| SR | Ceric Sulfate | 150 | g | 3.01 | 49.8 | mL |
| SR | Cerium Oxalate | 113 | g | * | 100.0 | mL |
| SR | Cesium Nitrate | 5 | g | 3.685 | 1.4 | mL |
| BR | Chem – FAC 100 | | | Unknown | 250.0 | mL |
| PC | Chesterton Moisture Shield | 397 | g | 0.8 | 496.3 | mL |
| CL | Chloramine-T-Hydrate | 10 | g | 1.4 | 7.1 | mL |
| FA | Chloride standard | 800 | g | 1 | 800.0 | mL |
| SR | Chloroform | 1484 | g | 1.484 | 1,000.0 | mL |
| | Chromerge | 0 | g | | 0 | ml |
| CL | Chromium 5000 mg/L | 100.0 | g | 1 | 100.0 | mL |
| PC | Chromium 1000 mg/L | 550.0 | g | 1 | 550.0 | mL |
| Mass | Chromium Trioxide | 300 | g | 2.7 | 111.1 | mL |
| SA | Chromium Cr 6 Standard | 337.5 | g | 2.7 | 125.0 | mL |
| | Citric Acid | 0 | g | | 0 | ml |
| MET | Citric Acid Anhydrate | 5,000 | g | 1.542 | 3,242.5 | mL |
| SR | Citric Acid Anhydrous | 250 | g | 1.542 | 162.1 | mL |
| | Citric Acid Monohydrate | 0 | g | | 0 | ml |
| SR | Cobalt Chloride | 25 | g | 3.35 | 7.5 | mL |
| SR | Cobalt Metal | 600 | g | 1.03 | 582.5 | mL |
| PC | Cobalt Nitrate 6-Hydrate | 500 | g | 1.88 | 266.0 | mL |
| F | Cobalt Powder | 5 | g | 8.9 | 0.6 | mL |
| | Cocoanut charcoal | 0 | g | | 0 | ml |
| CL | Conductivity Calibration Standard, NIST Traceable | 927 | g | 1.03 | 900.0 | ml |
| CL | Conductivity Traceable 1,000 µS | 13000 | g | 1 | 13,000.0 | ml |
| SR | Conductivity Traceable 150,000 µS | 1000 | g | 1 | 1,000.0 | ml |

Appendix L-1
Laboratory Chemical Inventory

| Location | Chemical Name | Quantity | Unit | Density g/cm3 | Volume | $1cm^3$ ~ 1mL |
|---|---|---|---|---|---|---|
| | Conostan 75 base oil for AA diluent | 0 | g | | 0 | ml |
| SR | Contrad 70 | 15,900 | g | 1.06 | 15,000.0 | mL |
| CL | Copper | 430 | g | 8.92 | 48.2 | mL |
| MET | Copper 1000 mg/L | 709.8 | g | 1.014 | 700.0 | mL |
| MET | Corn Starch | 454 | g | 0.67 | 677.6 | mL |
| MET | CP 1400P | 100 | g | * | 1,000.0 | mL |
| CL | CP 2000P | 50 | g | * | 500.0 | mL |
| F | Crystal Violet | 25 | g | 1.19 | 21.0 | mL |
| | Crystalline silica | 0 | g | | 0 | ml |
| SR | Cupferron Crystal | 2,500 | g | * | 8,000.0 | mL |
| PC | Cupric Sulfate 5-Hydrate | 2,300 | g | 2.284 | 1,007.0 | mL |
| CL | Cupric Sulfate Anhydrous | 454 | g | 3.603 | 126.0 | mL |
| FS | Curcumin Crystalline | 10 | g | 1.279 | 7.8 | mL |
| FC | Cyanex 923 | 24.2 | Kg | 0.88 | 27.5 | L |
| FA | Cyclohexane | 2723.35 | g | 0.7781 | 3,500.0 | mL |
| SA | Cyclohexane 98% | 5 | gal | | 5.0 | gal |
| FC | D-Gluconic Acid | 500 | g | 1.763 | 283.6 | mL |
| | D-Gluconic Acid Calcium Salt 99% | 0 | g | | 0 | ml |
| FB | Decyl Alcohol 99% | 820 | g | 0.82 | 1,000.0 | mL |
| FA | DEHPA | 779.2 | g | 0.974 | 800.0 | mL |
| SR | DEHPA extractant | 38.96 | g | 0.974 | 40.0 | mL |
| SR | DF 53A | | | Unknown | 250.0 | mL |
| FB | DF-57-85-1 | | | Unknown | 250.0 | mL |
| SR | Dialkyl Methyl amine | 1070 | g | 1.07 | 1,000.0 | mL |
| SA | Diatamacious Earth | 1,000 | g | 0.26 | 3,846.2 | mL |
| SR | Diaminocyclohexane | 400 | g | 0.931 | 429.6 | mL |
| CL | Diatomite | 25 | lb | 0.22 | 51,544.6 | mL |
| FB | Dibenzoyl Methane 98% | 140 | g | 1.138 | 123.0 | mL |
| FC | Dibutyl phosphate | 529 | g | 1.058 | 500.0 | mL |
| | Dibutyl Butylphosphonate | 0 | g | | 0 | ml |
| | mercuric sulfate) | 0 | g | | 0 | ml |
| SR | Dimethyl Sulfoxide | 0 | g | | 0 | ml |
| CL | Dioctylsodium Sulfosuccinate | 550 | g | 1.1 | 500.0 | mL |
| CL | DiPhenyl amine 4 sulfuric Acid | 10 | g | * | 20.0 | mL |
| | Diphenylamine-4-Sulfonic Acid | 0 | g | | 0 | ml |
| | Diphenyl-carbazone,-s | 0 | g | | 0 | ml |
| SR | DiPhenylThioCarbazone | 5 | g | 1.2 | 4.2 | mL |
| MET | Diphonix Resin | 800 | g | 0.3 | 2,666.7 | mL |
| CL | Diphonix Resin | 300 | g | 0.3 | 1,000.0 | mL |
| CL | DiPyridal | 5 | g | 1.106 | 4.5 | mL |
| SR | Disodium Ethylenediamine Tetraacetate | 500 | g | 1.01 | 495.0 | mL |

Appendix L-1
Laboratory Chemical Inventory

| Location | Chemical Name | Quantity | Unit | Density g/cm3 | Volume | $1cm^3$ ~ 1mL |
|---|---|---|---|---|---|---|
| MET | d-Tartaric Acid | 10,300 | g | 1.8 | 5,722.2 | mL |
| SR | DVS4F011 | | | Unknown | 100.0 | mL |
| SR | Ecopol-LLDS | 1,000 | g | * | 1,000.0 | mL |
| | Electrode filling solution | 0 | g | | 0 | ml |
| | Electrode storage solution | 0 | g | | 0 | ml |
| CL | Empigen BS/FQ | | | Unknown | 500.0 | mL |
| FS | Eriochrome black | 35 | g | 1.109 | 31.6 | mL |
| FC | Escaid 115 | 20 | L | | 20.0 | L |
| FB | Ether Anhydrous | 3210.3 | g | 0.7134 | 4,500.0 | mL |
| SR | Ethyl Acetate | 9471 | g | 0.902 | 10,500.0 | mL |
| CL | Ethylene Diamine Tetraacetic Acid | 1,000 | g | 0.86 | 1,162.8 | mL |
| SR | Ethylene Dinitrilo Tetraacetic acid | 75 | g | 0.86 | 87.2 | mL |
| | (ETHYLENEDINITRILO)-Tetraacetic Acid Disodium Sa | 0 | g | | 0 | ml |
| | Ethylene Glycol Monobutyle Ether | 0 | g | | 0 | ml |
| SR | Ferric Ammonium Sulfate Dodecahydrate | 1,500 | g | 1.71 | 877.2 | mL |
| SR | Ferric chloride 6-Hydrate | 300 | g | 1.82 | 164.8 | mL |
| SR | Ferric Chloride Hexahydrate | 1,500 | g | 1.82 | 824.2 | mL |
| SR | Ferrous Ammonium Sulfate | 11,500 | g | 1.86 | 6,182.8 | mL |
| SR | Ferrous Chloride | 1,000 | g | 3.16 | 316.5 | mL |
| | Ferrous Sulfate | 0 | | | | |
| Mass | Ferrous Sulfate Heptahydrate | 5,900 | g | 0.999 | 5,905.9 | mL |
| PC | Flan 6100 DRC Wash Solution | 500 | g | 1 | 500.0 | mL |
| SR | Flexane 94 liquid | 908 | g | * | 1,000.0 | mL |
| SR | Floc 912 SH | 150 | g | * | 150.0 | mL |
| SR | Floc 920 SH | 150 | g | * | 150.0 | mL |
| SR | Floc Acrylamide Homopolymer | 50 | g | * | 50.0 | mL |
| SR | Floc ChemTreat P-802E | 40 | lb | * | 5.0 | gal |
| SR | Floc Ethylene Oxide Polymer WSR Coagulant (2331) | 250 | g | * | 500.0 | mL |
| SR | Floc Ethylene Oxide Polymer WSR 205 (2195) | 250 | g | * | 500.0 | mL |
| SR | Floc Hycem AF 102 | 20 | g | * | 50.0 | mL |
| SR | Floc Hycem AF 104 | 20 | g | * | 50.0 | mL |
| SR | Floc Hycem AF 105 | 20 | g | * | 50.0 | mL |
| SR | Floc Hycem AF 205 | 20 | g | * | 50.0 | mL |
| SR | Floc Hycem AF 306 | 20 | g | * | 50.0 | mL |
| SR | Floc Hycem AF 308 | 20 | g | * | 50.0 | mL |
| SR | Floc Hycem AF 311 | 20 | g | * | 50.0 | mL |
| SR | Floc Hycem NF 301 | 20 | g | * | 50.0 | mL |
| SR | Floc Hycem NF 305 | 20 | g | * | 50.0 | mL |
| SR | Floc Hyperfloc AF 104 | 25 | g | * | 50.0 | mL |
| SR | Floc Hyperfloc AF MG 653 | 50 | lb | 49.9 | 454.5 | mL |
| SR | Floc Hysperse 1015 | 100 | g | * | 100.0 | mL |

Appendix L-1
Laboratory Chemical Inventory

| Location | Chemical Name | Quantity | Unit | Density g/cm3 | Volume | $1cm^3$ ~ 1mL |
|---|---|---|---|---|---|---|
| SR | Floc Hysperse 1016 | 100 | g | * | 100.0 | mL |
| SR | Floc Hysperse 1018 | 100 | g | * | 100.0 | mL |
| SR | Floc MagnaFloc 10 | 80 | g | * | 150.0 | mL |
| SR | Floc MagnaFloc 156 | 80 | g | * | 100.0 | mL |
| SR | Floc MagnaFloc 333 | 80 | g | * | 100.0 | mL |
| SR | Floc MagnaFloc 336 | 80 | g | * | 100.0 | mL |
| SR | Floc MagnaFloc 338 | 80 | g | * | 100.0 | mL |
| SR | Floc MagnaFloc 342 | 80 | g | * | 100.0 | mL |
| SR | Floc MagnaFloc 351 | 80 | g | * | 100.0 | mL |
| SR | Floc MagnaFloc 358 | 80 | g | * | 100.0 | mL |
| SR | Floc MagnaFloc 371 | 80 | g | * | 100.0 | mL |
| SR | Floc MagnaFloc 455 | 80 | g | * | 100.0 | mL |
| SR | Floc MagnaFloc 919 | 80 | g | * | 100.0 | mL |
| SR | Floc MagnaFloc 1011 | 80 | g | * | 100.0 | mL |
| SR | Floc MagnaFloc 7117 | 80 | g | * | 100.0 | mL |
| SR | Floc MagnaFloc 7692 | 80 | g | * | 100.0 | mL |
| SR | Floc NEO NS 4507 | 20 | g | * | 50.0 | mL |
| SR | Floc NEO NS 4525 | 20 | g | * | 50.0 | mL |
| SR | Floc NEO NS 6500 | 20 | g | * | 50.0 | mL |
| SR | Floc NEO NS 6501 | 20 | g | * | 50.0 | mL |
| SR | Floc NEO NS 6502 | 20 | g | * | 50.0 | mL |
| SR | Floc NEO NS 6502m | 20 | g | * | 50.0 | mL |
| SR | Floc NEO NS 6511 | 20 | g | * | 50.0 | mL |
| SR | Floc NEO NS 6555 | 20 | g | * | 50.0 | mL |
| SR | Floc Non-ionic | 50 | lb | 49.9 | 454.5 | mL |
| SR | Floc Percol E10 | 50 | g | * | 100.0 | mL |
| SR | Floc Percol 156 | 50 | g | * | 100.0 | mL |
| SR | Floc Percol 333 | 50 | g | * | 100.0 | mL |
| SR | Floc Percol 336 | 50 | g | * | 100.0 | mL |
| SR | Floc Percol 338 | 50 | g | * | 100.0 | mL |
| SR | Floc Percol 342 | 50 | g | * | 100.0 | mL |
| SR | Floc Percol 351 | 50 | g | * | 100.0 | mL |
| | Floc Percol 352 | 0 | g | | 0 | ml |
| SR | Floc Percol 358 | 50 | g | * | 100.0 | mL |
| SR | Floc Percol 371 | 50 | g | * | 100.0 | mL |
| SR | Floc Percol 408 | 50 | g | * | 100.0 | mL |
| SR | Floc Percol 455 | 50 | g | * | 100.0 | mL |
| SR | Floc Percol 727 | 50 | g | * | 100.0 | mL |
| SR | Floc Percol 728 | 50 | g | * | 100.0 | mL |
| SR | Floc Percol 919 | 50 | g | * | 100.0 | mL |
| SR | Floc Ucarfloc Polymer 30x B-6070 | 250 | g | * | 500.0 | mL |

Appendix L-1
Laboratory Chemical Inventory

| Location | Chemical Name | Quantity | Unit | Density g/cm3 | Volume | $1cm^3$ ~ 1mL |
|---|---|---|---|---|---|---|
| SR | Floc Ucarfloc Polymer 30x B-6107 | 250 | g | * | 500.0 | mL |
| SR | Floc Ucarfloc Polymer 30x C-6076 | 250 | g | * | 500.0 | mL |
| SR | Floc Ucarfloc Polymer 30x C-6102 | 250 | g | * | 500.0 | mL |
| SR | Floc Ucarfloc Polymer 30x H-6049 | 225 | g | * | 500.0 | mL |
| SR | Floc Ucarfloc Polymer 30x R-6046 | 750 | g | * | 1,000.0 | mL |
| SR | Floc Ucarfloc Polymer 30x S-6045 | 500 | g | * | 1,000.0 | mL |
| CL | Floc Ucarfloc Polymer 30x Batch 155836 | 250 | g | * | 500.0 | mL |
| SR | Fluoride standard solution | 1,350 | g | 1 | 1,350.0 | mL |
| FC | Fluoride standard solution | 425 | g | 1 | 425.0 | mL |
| | Fluoride 10 mg/L | 0 | g | | 0 | ml |
| SR | Formaldehyde | 1040.6 | g | 1.1 | 946.0 | mL |
| F | Fritz EP-9LMwB | | | Unknown | 1,000.0 | mL |
| CL | Gallium Metal | 1 | g | 5.904 | 0.2 | mL |
| CL | Gentian Violet | 100 | g | 1.19 | 84.0 | mL |
| SR | Glacial Acetic Acid | 40,931 | g | 1.0495 | 39,000.0 | mL |
| SR | Glycerin | 126 | g | 1.2636 | 100.0 | mL |
| SR | Greatfloc 5410 | 50 | g | * | 50.0 | mL |
| SR | Greatfloc 5413 | 50 | g | * | 50.0 | mL |
| FA | Greatfloc 5420 | 50 | g | * | 50.0 | mL |
| FC | Hexanes | 13.2 | Kg | 0.66 | 20.0 | Kg |
| FA | Hexanes | 99 | g | 0.66 | 150.0 | mL |
| SR | Hyamine, Hydroxide | 466.5 | g | 0.933 | 500.0 | mL |
| PC | Hydrazine Sulfate | 700 | g | 1.37 | 510.9 | mL |
| CL | Hydrazine Sulfate | 453 | g | 1.37 | 330.7 | mL |
| SA | Hydrazine Sulfate | 453 | g | 1.37 | 330.7 | mL |
| SR | Hydrobromic acid 49% | 10,200 | g | 1.49 | 6,845.6 | mL |
| CL | Hydrochloric acid | 41,688 | g | 1.15 | 36,250.0 | mL |
| A | Hydrochloric acid | 4,600 | g | 1.15 | 4,000.0 | mL |
| SR | Hydrochloric acid | 37,375 | g | 1.15 | 32,500.0 | mL |
| A | Hydrochloride (1N) | 230 | g | 1.15 | 200.0 | mL |
| CL | Hydrochloride (1N) | 11,500 | g | 1.15 | 10,000.0 | mL |
| F | Hydroflouric Acid | 8,750 | g | 1.25 | 7,000.0 | mL |
| SR | Hydrogen Peroxide | 2,712 | g | 1.13 | 2,400.0 | mL |
| CL | Hydroiodic acid | 1,000 | g | 1.96 | 510.2 | mL |
| | Hydroquinane | 0 | g | | 0 | ml |
| SR | Hydroquinone | 100 | g | 1.32 | 75.8 | mL |
| CL | Hydroquinone | 500 | g | 1.32 | 378.8 | mL |
| SR | Hydroxy Naphthol blue | 26 | g | 2.13 | 12.2 | mL |
| SR | Hydroxylamine Hydrochloride | 1,600 | g | 1.67 | 958.1 | mL |
| FC | Hydroxylamine Sulfate | 1,000 | g | 1.86 | 537.6 | mL |
| SR | Iodine Monochloride Solution | 1,060 | g | 1.06 | 1,000.0 | mL |

Appendix L-1
Laboratory Chemical Inventory

| Location | Chemical Name | Quantity | Unit | Density g/cm3 | Volume | $1cm^3$ ~ 1mL |
|---|---|---|---|---|---|---|
| PCs | Iodine Solution 1N | 500 | g | 1 | 500.0 | mL |
| FB | Iodine Sublimes | 454 | g | 3.835 | 118.4 | mL |
| CL | Ionquest 801 | | | Unknown | 400.0 | mL |
| SR | Iron 1000 mg/L | 761.25 | g | 1.015 | 750.0 | mL |
| | Iron 5000 ppm STD | 0 | g | | 0 | ml |
| SR | Iron Chips | 125 | g | 7.86 | 15.9 | mL |
| SR | Iron Metal | 1,200 | g | 7.86 | 152.7 | mL |
| SR | Iron Pyrites | 5,436 | g | 5.1 | 1,065.9 | mL |
| | Iron reference solution | 0 | g | | 0 | ml |
| SR | Iron Sulfate Hydrate | 2,500 | g | 3.097 | 807.2 | mL |
| FC | Iron Wire | 180 | g | 7.86 | 22.9 | mL |
| FS | Iso-Octane | 7.266 | Kg | 0.692 | 10.5 | L |
| FS | Iso-Octane | 22.144 | Kg | 0.692 | 32.0 | L |
| FS | Jet Fuel Type A | 16 | Kg | 0.8 | 20.0 | L |
| FS | Kerosene | 6.075 | Kg | 0.81 | 7.5 | L |
| MET | Kerosene, Plant | 16.2 | Kg | 0.81 | 20.0 | L |
| SR | KP5000 | 684 | g | * | 1,000.0 | mL |
| CL | Lanthanum Oxide | 520 | g | 6.51 | 79.9 | mL |
| CL | Lanthanum 1000 mg/L | 500 | g | 1 | 500.0 | mL |
| SA | L-Ascorbic Acid | 400 | g | 1.954 | 204.7 | mL |
| PC | L-Ascorbic Acid | 4,150 | g | 1.954 | 2,123.8 | mL |
| PC | Lead (II) Acetate Trihydrate | 500 | g | 2.55 | 196.1 | mL |
| CL | Lead (II) Carbonate | 500 | g | 6.14 | 81.4 | mL |
| PC | Lead 1000 µg/mL | 581.4 | g | 1.02 | 570.0 | mL |
| PC | Lead Metal | 3,400 | g | 11.34 | 299.8 | mL |
| PC | Lead Nitrate | 454 | g | 4.53 | 100.2 | mL |
| CL | Lead Oxide | 2,400 | g | 9.53 | 251.8 | mL |
| | Lead Reject | 0 | g | | 0 | ml |
| | Lead Standard | 0 | g | | 0 | ml |
| | Lime | 0 | g | | 0 | ml |
| PC | Lithium 1000 µg/mL | 515 | g | 1.03 | 500.0 | mL |
| SR | Lithium Fluoride | 3,400 | g | 2.64 | 1,287.9 | mL |
| ST | Lithium M-borate | 100 | g | 1.4 | 71.4 | mL |
| SR | Lithium Meta borate | 10,000 | g | 1.4 | 7,142.9 | mL |
| SR | Lithium Meta borate | 10,000 | g | 1.4 | 7,142.9 | mL |
| MET | Lithium Tetra borate | 250 | g | 0.25 | 1,000.0 | mL |
| CL | LIX 984 N | | | Unknown | 1,500.0 | mL |
| SR | Magnesium 1000 mg/L | 482.6 | g | 1.016 | 475.0 | mL |
| | Magnesium Carbonate | 0 | g | | 0 | ml |
| SR | Magnesium Nitrate | 200 | g | 0.889 | 225.0 | mL |
| PC | Magnesium Nitrate Hexahydrate | 1,000 | g | 1.63 | 613.5 | mL |

Appendix L-1
Laboratory Chemical Inventory

| Location | Chemical Name | Quantity | Unit | Density g/cm3 | Volume | 1cm$^3$ ~ 1mL |
|---|---|---|---|---|---|---|
| SR | Magnesium Oxide | 25 | g | 3.58 | 7.0 | mL |
| SR | Magnesium Oxide | 454 | g | 3.58 | 126.8 | mL |
| SR | Magnesium Perchlorate | 500 | g | 2.21 | 226.2 | mL |
| CL | Magnesium Sulfate | 3,000 | g | 1.07 | 2,803.7 | mL |
| SR | Manganese 1000 µg/ mL | 1,675 | g | 1.015 | 1,650.0 | mL |
| | Manganese 5000 ppm STD | 0 | g | | 0 | ml |
| SR | Manganese Carbonate | 2,350 | g | 3.12 | 753.2 | mL |
| SR | Manganese Chloride | 200 | g | 2.98 | 67.1 | mL |
| SR | Manganese Dioxide | 2,650 | g | 5.02 | 527.9 | mL |
| SR | Manganese Flake | 50 | g | 7.3 | 6.8 | mL |
| CL | Manganese Sulfate | 340 | g | 3.25 | 104.6 | mL |
| PC | M-Cresol purple | 25 | g | 1.37 | 18.2 | mL |
| PC | Mercuric Acetate | 100 | g | 3.29 | 30.4 | mL |
| PC | Mercuric Chloride | 250 | g | 5.44 | 46.0 | mL |
| SR | Mercuric Iodide | 150 | g | 6.36 | 23.6 | mL |
| | Mercuric lithinate | 0 | g | | 0 | ml |
| SR | Mercuric Nitrate (.1410 N) | 48,290 | g | 4.39 | 11,000.0 | mL |
| PC | Mercuric Nitrate Monohydrate | 1500 | g | 4.3 | 348.8 | mL |
| PC | Mercuric Sulfate | 113 | g | 6.47 | 17.5 | mL |
| CL | Mercury (II) Oxide | 100 | g | 11.14 | 9.0 | mL |
| | Mercury 100 STD ppm | 0 | g | | 0 | ml |
| PC | Mercury 1000 µg/mL | 625 | g | 1 | 625.0 | mL |
| FA | Mercury Metal | 7.5 | lb | 13.54 | 251.3 | mL |
| Mass | Metallo-Organic Standard 75 Base Oil | 2838.75 | g | 0.75 | 1.0 | gal |
| MET | Methanol Blank | 98.75 | g | 0.79 | 125.0 | mL |
| BR | Methanol | 31640 | g | 0.791 | 40,000.0 | mL |
| CL | Methanol | 5537 | g | 0.791 | 7,000.0 | mL |
| | Methanol in KOH | 0 | g | | 0 | ml |
| | Methyl isobutyl ketone | 0 | g | | 0 | ml |
| CL | Methyl orange | 175 | g | 0.987 | 177.3 | mL |
| CL | Methyl Red Hydrochloride | 25 | g | 0.8 | 31.3 | mL |
| CL | Methyl Red Sodium Salt | 60 | g | 0.791 | 75.9 | mL |
| CL | Methyl violet | 100 | g | | 150.0 | mL |
| FC | Methylene blue | 25 | g | 1 | 25.0 | mL |
| FA | Methylene Chloride | 10,544 | g | 1.318 | 8,000.0 | mL |
| FA | Methylene Chloride | 5,272 | g | 1.318 | 4,000.0 | mL |
| CL | Methyl Iso-Butyl Ketone | 64 | g | 0.802 | 80.0 | mL |
| PC | Molybdenum 1000 mg/L | 500 | g | 1 | 500.0 | mL |
| | Molybdenum STD 5000 ppm | 0 | g | | 0 | ml |
| SR | Molybdenum Powder | 100 | g | 10.3 | 9.7 | mL |
| SR | Molybdenum Trioxide | 1,240 | g | 4.692 | 264.3 | mL |

Appendix L-1
Laboratory Chemical Inventory

| Location | Chemical Name | Quantity | Unit | Density g/cm3 | Volume | $1cm^3$ ~ 1mL |
|---|---|---|---|---|---|---|
| FC | Molybdic Anhydride | 453 | g | 4.692 | 96.5 | mL |
| SR | Monoethanol Amine | 1,018 | g | 1.018 | 1,000.0 | mL |
| SR | MS-811 | | | Unknown | 500.0 | mL |
| CL | MSA-1 (New Resin) | | | Unknown | 500.0 | mL |
| FC | N-(1naphthyl) ethylene Diamine Dihydrochloride | 50 | g | * | 125.0 | mL |
| FA | n-Amyl Alcohol | 398.0768 | g | 0.8416 | 473.0 | mL |
| FC | n-Butyl Acetate | 720 | g | 0.9 | 800.0 | mL |
| FS | n-Butyl-Phosphate | | | Unknown | 250.0 | mL |
| BR | n-Butyl-Phosphate | | | Unknown | 48.0 | L |
| FC | n-Butyl-Phosphate | | | Unknown | 12.0 | L |
| | n-Decanal | 0 | g | | 0 | mL |
| PC | NEA-96 | 1217.5 | g | 2.435 | 500.0 | mL |
| SR | Nesslers Reagent | 1600 | g | 1.28 | 1,250.0 | mL |
| CL | Nickel | 110 | g | 8.9 | 12.4 | mL |
| SR | Nickel 1000 mg/L | 314.34 | g | 1.014 | 310.0 | mL |
| | Nickel 5000 mg/L | 0 | g | | 0 | mL |
| PC | Nickel Nitrate | 3,000 | g | 2.05 | 1,463.4 | mL |
| F | Nickel Powder | 10 | g | 8.9 | 1.1 | mL |
| CL | Nitrate ISA | 2,489 | g | 1.31 | 1,900.0 | mL |
| CL | Nitrate, nitrogen STD | 1,425 | g | 1 | 1,425.0 | mL |
| SR | Nitrazine yellow | 20 | g | * | 80.0 | mL |
| Mass | Nitric Acid | 55,025 | g | 1.42 | 38,750.0 | mL |
| MET | Nitric Acid | 3,763 | g | 1.42 | 2,650.0 | mL |
| CL | Nitric Acid | 2,840 | g | 1.42 | 2,000.0 | mL |
| A | Nitric Acid | 4,260 | g | 1.42 | 3,000.0 | mL |
| FA | Nitric Acid | 21,300 | g | 1.42 | 15,000.0 | mL |
| FC | Nitrobenzene | 13,200 | g | 1.2 | 11,000.0 | mL |
| | Nitrous Oxide | 0 | g | | 0 | mL |
| CL | NonEmulsifier 19N | 460 | g | 0.92 | 500.0 | mL |
| | Nonoxynol – 4 | 0 | g | | 0 | mL |
| SA | N-Phenylbenzohydroxamic Acid | 300 | g | 1.27 | 236.2 | mL |
| FC | Octyl Acid Phosphate | 1,000 | g | 1 | 1,000.0 | mL |
| SR | Oleic Acid | 895 | g | 0.895 | 1,000.0 | mL |
| SR | Oleic Acid | 3,000 | g | 1.09 | 2,752.3 | mL |
| CL | O-Phosphoric Acid | 36,000 | g | 1.6 | 22,500.0 | mL |
| MET | O-Phosphoric Acid | 4,160 | g | 1.6 | 2,600.0 | mL |
| A | O-Phosphoric Acid | 2,800 | g | 1.6 | 1,750.0 | mL |
| FA | O-Phosphoric Acid | 76,000 | g | 1.6 | 47,500.0 | mL |
| SR | Orform | | | Unknown | 5,500.0 | mL |
| CL | ORP Standard | 200 | g | 1 | 200.0 | mL |
| CL | ORP Standard | 950 | g | 1 | 950.0 | mL |

Appendix L-1
Laboratory Chemical Inventory

| Location | Chemical Name | Quantity | Unit | Density g/cm3 | Volume | $1cm^3$ ~ 1mL |
|---|---|---|---|---|---|---|
| SR | Oxalic Acid | 5,000 | g | 1.9 | 2,631.6 | mL |
| SR | Oxicol | 10 | g | * | 100.0 | mL |
| FS | Paint, LSA057 SCC KATEE | | | Unknown | 2.0 | pt |
| | P-802E Flocculent | 0 | g | | 0 | ml |
| FC | Pentyl Acetate | 1,000 | g | 0.876 | 1,141.6 | mL |
| P | Perchloric Acid | 29288 | g | 1.6736 | 17,500.0 | mL |
| | Phenanthroline | 0 | | | | |
| CL | Phenol Red | 25 | g | 1.477 | 16.9 | mL |
| CL | Phenolphtalein | 226 | g | 1.299 | 174.0 | mL |
| | Phosphoric Acid | 0 | g | | 0 | ml |
| CL | Phosphorus 1000 µg/mL | 500 | g | 1 | 500.0 | mL |
| | Phosphorus 5000 ppm STD | 0 | g | | 0 | ml |
| | Polymer 300 | 0 | g | | 0 | ml |
| | Polymer 302 | 0 | g | | 0 | ml |
| | Polymer 304 | 0 | g | | 0 | ml |
| | Polyol | 0 | g | | 0 | ml |
| | Polyox WSR Coagulant | 0 | g | | 0 | ml |
| | Polyox WSR-205 | 0 | g | | 0 | ml |
| | Potassium | 0 | g | | 0 | ml |
| CL | Potassium 1000 µg/mL | 861.05 | g | 1.013 | 850.0 | mL |
| | Potassium 5000 µg/mL | 0 | g | | 0 | ml |
| SR | Potassium Acetate | 250 | g | 1.57 | 159.2 | mL |
| SR | Potassium Bicarbonate | 500 | g | 2.17 | 230.4 | mL |
| SR | Potassium Biiodate | 50 | g | * | 50.0 | mL |
| SR | Potassium Biphthalate | 1,800 | g | 1.64 | 1,097.6 | mL |
| SR | Potassium Biphthalate Buffer | 32,720 | g | 1.636 | 20,000.0 | mL |
| SR | Potassium Bromate | 500 | g | 3.27 | 152.9 | mL |
| SR | Potassium Bromide | 5,600 | g | 3.119 | 1,795.4 | mL |
| SR | Potassium Carbonate | 400 | g | 2.43 | 164.6 | mL |
| SR | Potassium Chlorate | 2,250 | g | 2.32 | 969.8 | mL |
| CL | Potassium Chloride solution 4 M | 236.8 | g | 1 | 8.0 | oz |
| SR | Potassium Chloride | 1,500 | g | 1.98 | 757.6 | mL |
| SR | Potassium Chromate | 200 | g | 2.732 | 73.2 | mL |
| PC | Potassium Cyanide | 454 | g | 1.52 | 298.7 | mL |
| SA | Potassium dichromate | 5,450 | g | 7.14 | 763.3 | mL |
| SR | Potassium ferricyanide | 600 | g | 1.85 | 324.3 | mL |
| SR | Potassium Ferrocyanide trihydrate | 500 | g | 1.85 | 270.3 | mL |
| PC | Potassium Fluoride | 600 | g | 2.48 | 241.9 | mL |
| SR | Potassium Iodate | 500 | g | 3.93 | 127.2 | mL |
| CL | Potassium Iodide-Iodate | 500 | g | 1 | 500.0 | mL |
| SR | Potassium Iodide | 16,140 | g | 1.32 | 12,227.3 | mL |

Appendix L-1
Laboratory Chemical Inventory

| Location | Chemical Name | Quantity | Unit | Density g/cm3 | Volume | 1cm$^3$ ~ 1mL |
|---|---|---|---|---|---|---|
| SR | Potassium Nitrate | 50 | g | 2.109 | 23.7 | mL |
| SR | Potassium Nitrite | 250 | g | 1.92 | 130.2 | mL |
| PC | Potassium Oxalate | 4,500 | g | 2.127 | 2,115.7 | mL |
| PC | Potassium Oxalate Monohydrate | 2,500 | g | 2.127 | 1,175.4 | mL |
| SR | Potassium Perchlorate | 1,000 | g | 2.52 | 396.8 | mL |
| PC | Potassium Permanganate | 9,300 | g | 1.01 | 9,207.9 | mL |
| SA | Potassium Permanganate Solution | 6,000 | g | 1 | 6,000.0 | mL |
| CL | Potassium Perrhenate | 10 | g | 4.887 | 2.0 | mL |
| CL | Potassium Persulfate | 100 | g | 2.47 | 40.5 | mL |
| SR | Potassium Phosphate | 50 | g | 2.564 | 19.5 | mL |
| SR | Potassium Phosphate | 8856.9 | g | 2.34 | 1.0 | gal |
| SR | Potassium pyrosulfate | 500 | g | 2.28 | 219.3 | mL |
| SR | Potassium Sodium Tartrate 4-Hydrate | 1,400 | g | 1.05 | 1,333.3 | mL |
| PC | Potassium Sulfate | 100 | g | 2.66 | 37.6 | mL |
| SR | Potassium Sulfate | 900 | g | 2.66 | 338.3 | mL |
| SR | Potassium Thiocyanate | 9,750 | g | 1.886 | 5,169.7 | mL |
| FB | Primene | | | Unknown | 7,150.0 | mL |
| MET | Primene JM-T Amine | 900 | g | 0.834 | 1,079.1 | mL |
| FS | Primene JM-T Amine | 33,360 | g | 0.834 | 40,000.0 | mL |
| MET | Primene 81-R Amine | 900 | g | 0.82 | 1,097.6 | mL |
| MET | Primene TOA Amine | 910 | g | 0.77 | 1,181.8 | mL |
| FC | Professional Drain Cleaner | 998 | g | 1.05 | 950.0 | mL |
| FC | Propane (cylinder) | 400 | g | 0.493 | 811.4 | mL |
| | Propylether Chloride Guar Gum | 0 | g | | 0 | ml |
| Mass | Pump Oil | 13020.4 | g | 0.86 | 4.0 | gal |
| FB | Pyridine | 3,928 | g | 0.9819 | 4,000.0 | mL |
| | Pyrogallate Absorption stable solution, (Potassium Hydroxide Solution) | 0 | g | | 0 | ml |
| SR | Quinhydrone | 2,100 | g | 1.32 | 1,590.9 | mL |
| FC | Quinoline | 545 | g | 1.09 | 500.0 | mL |
| FC | Red Gaye Oil | 1,652 | g | 0.826 | 2,000.0 | mL |
| SR | Rexyn 101 | 500 | g | 1.2 | 416.7 | mL |
| SR | Rexyn 300 | 200 | g | 1.2 | 166.7 | mL |
| SR | SAG 101 | | | Unknown | 350.0 | mL |
| CL | Salt (kiln dried) | 45 | lb | 1.199 | 17,023.9 | mL |
| MET | Salt, Medium | 200 | g | 1.199 | 166.8 | mL |
| SR | Sea sand | 10,000 | g | 2.6 | 3,846.2 | mL |
| CL | Selenium 1000 μg/mL | 127.5 | g | 1.02 | 125.0 | mL |
| PC | Selenium Oxide | 10 | g | 4.81 | 2.1 | mL |
| CL | Silicon 1000 mg/L | 485 | g | 0.97 | 500.0 | mL |
| | Silicon 5000 mg/L | 0 | g | | 0 | ml |

Appendix L-1
Laboratory Chemical Inventory

| Location | Chemical Name | Quantity | Unit | Density g/cm3 | Volume | $1cm^3$ ~ 1mL |
|---|---|---|---|---|---|---|
| | Silicon Carbide | 0 | g | | 0 | ml |
| CL | Silver 1000 µg/mL | 125 | g | 1 | 125.0 | mL |
| | Silver Chloride | 0 | g | | 0 | ml |
| PC | Silver Nitrate | 2,600 | g | 4.35 | 597.7 | mL |
| SR | Silver Nitrate | 69,600 | g | 4.35 | 16,000.0 | mL |
| PC | Silver sulfate | 200 | g | 5.45 | 36.7 | mL |
| CL | Sodium 1000 mg/L | 202.6 | g | 1.013 | 200.0 | mL |
| F | Sodium Acetate | 500 | g | 1.528 | 327.2 | mL |
| SR | Sodium Acetate Anhydrous | 1,000 | g | 1.528 | 654.5 | mL |
| SR | Sodium Acetate trihydrate | 2,450 | g | 1.45 | 1,689.7 | mL |
| SR | Sodium Ammonium Phosphate | 950 | g | 1.54 | 616.9 | mL |
| PC | Sodium Arsenite | 500 | g | 1.87 | 267.4 | mL |
| SR | Sodium Bicarbonate | 11,200 | g | 2.16 | 5,185.2 | mL |
| SR | Sodium Bisulfate | 8,700 | g | 2.1 | 4,142.9 | mL |
| SR | Sodium Borate | 400 | g | 1.73 | 231.2 | mL |
| SR | Sodium Carbonate, Anhydrous | 7,500 | g | 2.53 | 2,964.4 | mL |
| MET | Sodium Carbonate, Anhydrous | 3,000 | g | 2.53 | 1,185.8 | mL |
| SR | Sodium Chlorate | 7,000 | g | 2.49 | 2,811.2 | mL |
| MET | Sodium Chlorate | 1,500 | g | 2.49 | 602.4 | mL |
| SR | Sodium Chloride | 10,950 | g | 1.199 | 9,132.6 | mL |
| SR | Sodium Chloride Solution | 3,784 | g | 1 | 3,784.0 | mL |
| SR | Sodium Citrate | 6,000 | g | 1.008 | 5,952.4 | mL |
| PC | Sodium Cyanide | 500 | g | 1.6 | 312.5 | mL |
| CL | Sodium Diphenylamine-4-Sulfonate | 40 | g | * | 80.0 | mL |
| PC | Sodium Fluoride | 10,050 | g | 1.02 | 9,852.9 | mL |
| PC | Sodium Hydrosulfide | 1,000 | g | 1.79 | 558.7 | mL |
| SR | Sodium Hydroxide | 5791.05 | g | 1.53 | 1.0 | gal |
| MET | Sodium Hydroxide (1N) | 1,560 | g | 1.04 | 1,500.0 | mL |
| SR | Sodium Hydroxide (1N) SS264 | 11,440 | g | 1.04 | 11,000.0 | mL |
| MET | Sodium Hydroxide (50%) | 3,060 | g | 1.53 | 2,000.0 | mL |
| SR | Sodium Hydroxide (50%) | 10,710 | g | 1.53 | 7,000.0 | mL |
| SR | Sodium Hydroxide pellets | 12,000 | g | 1.515 | 7,920.8 | mL |
| SR | Sodium m-Bisulfite | 17,500 | g | 1.48 | 11,824.3 | mL |
| SR | Sodium Molybdate | 1,000 | g | 3.78 | 264.6 | mL |
| SR | Sodium Nitrate | 17,000 | g | 1.1 | 15,454.5 | mL |
| | Sodium Nitrite | 0 | g | | 0 | ml |
| SR | Sodium Oxalate | 400 | g | 2.34 | 170.9 | mL |
| SR | Sodium Peroxide | 1,000 | g | 2.8 | 357.1 | mL |
| SR | Sodium Persulfate | 150 | g | 2.4 | 62.5 | mL |
| SR | Sodium phosphate deca-hydrate | 500 | g | 1.82 | 274.7 | mL |
| SR | Sodium Phosphate Tribasic | 1,350 | g | 1.62 | 833.3 | mL |

Appendix L-1
Laboratory Chemical Inventory

| Location | Chemical Name | Quantity | Unit | Density g/cm3 | Volume | $1cm^3$ ~ 1mL |
|---|---|---|---|---|---|---|
| SR | Sodium Phosphate, Dibasic 12-Hydrate | 750 | g | 1.52 | 493.4 | mL |
| | Sodium Pyrophosphate Decahydrate P.A. | 0 | g | | 0 | ml |
| CL | Sodium reconditioning solution | 2,850 | g | 1 | 2,850.0 | mL |
| SR | Sodium Salicylate | 400 | g | 0.35 | 1,142.9 | mL |
| SR | Sodium Silicate | 600 | g | 2.33 | 257.5 | mL |
| CL | Sodium Standard | 120 | g | 1 | 120.0 | mL |
| SR | Sodium Sulfate | 2,000 | g | 2.68 | 746.3 | mL |
| | Sodium Sulfate, 12-Hydrate | 0 | g | | 0 | ml |
| SR | Sodium Sulfate, Anhydrous (granular) | 2,500 | g | 2.68 | 932.8 | mL |
| SR | Sodium Sulfate, Anhydrous (powder) | 2,500 | g | 2.68 | 932.8 | mL |
| SR | Sodium Sulfhydrate | 2,500 | g | 1.79 | 1,396.6 | mL |
| | Sodium Sulfide | 0 | g | | 0 | ml |
| | Sodium Sulfite | 0 | g | | 0 | ml |
| SR | Sodium Sulfite, Anhydrous | 11,000 | g | 2.63 | 4,182.5 | mL |
| SR | Sodium Sulfonate | 500 | g | 1 | 500.0 | mL |
| SR | Sodium Tartrate Dihydrate | 1,050 | g | 1.82 | 576.9 | mL |
| SR | Sodium Thiocyanate | 3,850 | g | 1.295 | 2,973.0 | mL |
| SR | Sodium Thiosulfate Anhydrous | 14,280 | g | 1.01 | 14,138.6 | mL |
| SR | Sodium tripoly phosphate | 500 | g | 0.4 | 1,250.0 | mL |
| SR | Sodium Tungstate | 400 | g | 4.18 | 95.7 | mL |
| | Sodium Tungstate, Dihydrate | 0 | g | | 0 | ml |
| FC | Soltrol 220 (Aliphatic Hydrocarbene) | 401.5 | g | 0.803 | 500.0 | mL |
| SR | Soluble Starch | 40 | g | 1.5 | 26.7 | mL |
| | Solvent Extraction Diluent | 0 | g | | 0 | ml |
| | Stabilizer for STD solution | 0 | g | | 0 | ml |
| SR | Stannous Chloride, Dihydrate | 2,700 | g | 2.71 | 996.3 | mL |
| CL | Starch, soluble potato, powder | 300 | g | 1.5 | 200.0 | mL |
| MET | Starch Solution | 1,000 | g | 1 | 1,000.0 | mL |
| SR | Stearic Acid | 25 | g | 0.84 | 29.8 | mL |
| F | Stilbene | 5 | g | 1.14 | 4.4 | mL |
| CL | Strontium 1000 μg/mL | 125 | g | 1 | 125.0 | mL |
| SR | Strontium Carbonate | 450 | g | 3.7 | 121.6 | mL |
| SR | Strontium Chloride | 250 | g | 3 | 83.3 | mL |
| SR | Succinic Anhydride | 250 | g | 1.572 | 159.0 | mL |
| SR | Sulfa salicylic Acid Dihydrate | 2,000 | g | 0.8 | 2,500.0 | mL |
| SR | Sulfa Ver 4 (sulfate reagent) | 450 | g | 2.68 | 167.9 | mL |
| SA | Sulfamic Acid | 2,250 | g | 2.12 | 1,061.3 | mL |
| SR | Sulfanilamide | 100 | g | 1.08 | 92.6 | mL |
| SA | Sulfanilic Acid | 100 | g | 1.485 | 67.3 | mL |
| SR | SulfaSalicylic Acid | 700 | g | 1.705 | 410.6 | mL |
| | Sulfate Anion STD | 0 | g | | 0 | ml |

Appendix L-1
Laboratory Chemical Inventory

| Location | Chemical Name | Quantity | Unit | Density g/cm3 | Volume | $1cm^3$ ~ 1mL |
|---|---|---|---|---|---|---|
| | Sulfate Reagent (Barrium Chloride Mixture) | 0 | g | | 0 | ml |
| CL | Sulfate-S 1000 µg/mL | 500 | g | 1 | 500.0 | mL |
| CL | Sulfosalicylic Acid | 620 | g | 1.705 | 363.6 | mL |
| CL | Sulfur 1,000 ppm | 390 | g | 1 | 390.0 | mL |
| SR | Sulfur Sublimed | 1,000 | g | 2.36 | 423.7 | mL |
| CL | Sulfuric Acid | 2,500 | g | 1 | 2,500.0 | mL |
| MET | Sulfuric Acid | 2,750 | g | 1 | 2,750.0 | mL |
| A | Sulfuric Acid | 37,500 | g | 1 | 37,500.0 | mL |
| SR | Sulfuric Acid (.1N) | 2,000 | g | 1 | 2,000.0 | mL |
| SR | Sulfuric Acid (1N) | 31,280 | g | 1.84 | 17,000.0 | mL |
| SR | Sulfuric Acid, N/10 | 16,770 | g | 1.29 | 13,000.0 | mL |
| | SX diluent (Conoco) | 0 | g | | 0 | ml |
| FB | SX Solvent Extraction Diluent | | | Unknown | 200.0 | mL |
| MET | TA-100 Sample | | | Unknown | 500.0 | mL |
| SR | Tannic Acid | 1,400 | g | 2.129 | 657.6 | mL |
| CL | Tantalum 1000 µg/mL | | | Unknown | 200.0 | mL |
| FB | TBP | 1,964 | g | 0.982 | 2,000.0 | mL |
| MET | TCHEM Defoamer 4110 | | | Unknown | 200.0 | mL |
| SR | Test Lead | 70 | lb | 11.34 | 2,800.0 | mL |
| SA | Tetrasodium (salt dihydrate) | 800 | g | | 1,000.0 | mL |
| PC | Thalic Nitrate | 25 | g | | 125.0 | mL |
| CL | Thallium Nitrate | 1 | g | 5.55 | 1.0 | mL |
| SR | THAM (tris (Hydroxymethyl) Aminomethane) also TRIS | 1,000 | g | 1.353 | 739.1 | mL |
| | Tharin | 0 | g | | 0 | ml |
| CL | ThenoylTriFluoroacetone | 50 | g | * | 30.0 | mL |
| PC | Thio Acetamide | 500 | g | 1.37 | 365.0 | mL |
| F | ThioAcetamide | 400 | g | 1.37 | 292.0 | mL |
| CL | Thorium 1000 mg/L | 600 | g | 1 | 600.0 | mL |
| CL | Thorin | 15 | g | * | 30.0 | mL |
| CL | Thymol blue | 10 | g | * | 80.0 | mL |
| SR | Tin Metal | 500 | g | 7.3 | 68.5 | mL |
| | TISAB w/CDTA | 0 | g | | 0 | ml |
| SR | TISAB II w/CDTA | 4,055 | g | 1.07 | 3,790.0 | mL |
| CL | TISAB III w/CDTA | 80 | g | 1.07 | 75.0 | mL |
| SR | Titanic Oxide | 500 | g | 4.26 | 117.4 | mL |
| CL | Titanium 1000 mg/L | 150 | g | 1 | 150.0 | mL |
| FB | Toluene | 10363.2 | g | 0.8636 | 12,000.0 | mL |
| CL | Trans – 1,2-DiAminocyclohexane Tetra Acetic Acid | 5 | g | * | 10.0 | mL |
| FC | Tributyl Phosphate | 16,154 | g | 0.979 | 16,500.0 | mL |
| | Tricapryl Methyl Ammonium Chloride | 0 | g | | 0 | ml |

Appendix L-1
Laboratory Chemical Inventory

| Location | Chemical Name | Quantity | Unit | Density g/cm3 | Volume | 1cm$^3$ ~ 1mL |
|---|---|---|---|---|---|---|
| FC | Trichloroethylene | 7,644 | g | 1.47 | 5,200.0 | mL |
| | Tridecyl Alcohol | 0 | g | | 0 | ml |
| CL | Triethanolamine | 31,640 | g | 1.13 | 28,000.0 | mL |
| SR | Triethanolamine | 27,120 | g | 1.13 | 24,000.0 | mL |
| FC | Triethylamine | 8,760 | g | 0.73 | 12,000.0 | mL |
| CL | Trioctylphosphine Oxide | 500 | g | 0.88 | 568.2 | mL |
| SR | Trioctylphosphine Oxide 99% | 500 | g | 0.88 | 568.2 | mL |
| SR | Trioctylphosphine Oxide 90% | 500 | g | 0.88 | 568.2 | mL |
| SR | Tris | 2,510 | g | 1.353 | 1,855.1 | mL |
| F | Tris | 1,500 | g | 1.353 | 1,108.6 | mL |
| | Tris Hydroxy methyl amino methane | 0 | g | | 0 | ml |
| SR | Turbidity Standard | 3,700 | g | 1 | 3,700.0 | mL |
| CL | Uranium 1000 µg/mL | 515 | g | 1.03 | 500.0 | mL |
| F | Uranium Complexant | | | Unknown | 0.0 | 0 |
| PC | Uranium Oxide | 400 | g | 10.96 | 36.5 | mL |
| PC | Uranium Oxide Impurity Standard | 150 | g | 10.96 | 13.7 | mL |
| | Uranium Plasma emission STD | 0 | g | | 0 | ml |
| SR | Uranyl Acetate | 1,816 | g | * | 1,500.0 | mL |
| PC | Uranyl Acetate | 50 | g | * | 50.0 | mL |
| SR | Urea | 7,500 | g | 1.335 | 5,618.0 | mL |
| SR | Vaccum Pump Oil | 41 | lb | 0.9 | 5.5 | gal |
| | Vanadium | 0 | g | | 0 | ml |
| CL | Vanadium 1000 µg/mL | 500 | g | 1 | 500.0 | mL |
| | Vanadium 5000 µg/mL | 0 | g | | 0 | ml |
| PC | Vanadium Pentoxide | 800 | g | 6.11 | 130.9 | mL |
| PC | Vanadyl Sulfate | 400 | g | 2.5 | 160.0 | mL |
| FA | Varsol 110 Solvent | 3,288 | g | 0.822 | 4,000.0 | mL |
| FS | Varsol 110 Solvent | 411 | g | 0.822 | 500.0 | mL |
| | Victawat 12 | 0 | g | | 0 | ml |
| | Vinegar | 0 | g | | 0 | ml |
| BR | WD-40 | 72.816 | g | 0.82 | 3.0 | oz. |
| SR | Witbreak 770 | 1,020 | g | 1.02 | 1,000.0 | mL |
| SR | Witbreak RTC-426 | 118 | g | 1.18 | 100.0 | mL |
| SR | Witconol DNP-45 | 500 | g | 1.06 | 500.0 | mL |
| SR | Witconol NP-40 | 501 | g | 1.06 | 501.0 | mL |
| SR | Witconate P-1020Bust | 250 | g | 1.05 | 250.0 | mL |
| SR | YSl 3682 Zobell solution | | | Unkown | 125.0 | mL |
| | Zinc 5000 ppm STD | 0 | g | | 0 | ml |
| SR | Zinc Acetate | 700 | g | 1.84 | 380.4 | mL |
| SR | Zinc Metal | 1,500 | g | 7.14 | 210.1 | mL |
| SR | Zinc Sulfate | 500 | g | 1.005 | 497.5 | mL |

Appendix L-1
Laboratory Chemical Inventory

| Location | Chemical Name | Quantity | Unit | Density g/cm3 | Volume | $1cm^3$ ~ 1mL |
|---|---|---|---|---|---|---|
| | Zincan | 0 | g | | 0 | ml |
| CL | Zincon | 2 | g | * | 20.0 | mL |
| CL | Zirconium 1000 mg/L | 816 | g | 1.02 | 800.0 | mL |
| SR | Zirconium Chloride | 100 | g | 2.8 | 35.7 | mL |
| SR | Zirconium Oxide | 453 | g | 5.89 | 76.9 | mL |
| | Zirconium STD (1000 ppm Zr) | 0 | g | | 0 | ml |
| | Zirconium Sulfate | 0 | g | | 0 | ml |
| | Zirconyl Chloride | 0 | g | | 0 | ml |

*Notes:*
Specific gravity infromatin is unavailable for some reagants and standards. Volume on site is provided.

Appendix L-2
Current Mill Chemicals Inventory

| Location | Chemical Name | Quantity (lbs) | Specific Gravity or Bulk Density | | Approximate Volume (gal) |
|---|---|---|---|---|---|
| Mill | Caustic 50% | 71,525 | 1.00 | sp.g | 8,586 |
| Mill | Salt | 117,470 | 2.16 | sp.g | 6,529 |
| Mill | Soda ash silo | 61,328 | 0.99 | sp.g | 7,437 |
| Mill | East ammonia | 55,554 | 5.15 | lb/gal | 10,787 |
| Mill | West ammonia | 109,794 | 5.15 | lb/gal | 21,319 |
| Mill | Sulfuric Acid 94% | 3,752,986 | 1.84 | sp.g | 244,858 |
| Mill | Ammonium sulfate north | 53,787 | 65.00 | lb/cu.ft | 6,066 |
| Mill | Ammonium sulfate south | 50,248 | 65.00 | lb/cu.ft | 5,666 |
| Mill | Ammonium Sulfate Super Sacks | 18,000 | 65.00 | lb/cu.ft | 2,030 |
| Mill | Sodium chlorate 1- 50% | 19,825 | 6.13 | lb/gal | 3,234 |
| Mill | Sodium chlorate 2- 50% | 67,171 | 6.13 | sp.g | 10,958 |
| Mill | Sodium chlorate 3- 50% | 0 | 6.13 | sp.g | 0 |
| Mill | Flocculant [1] | 39,600 | 0.80 | sp.g | 5,942 |
| Mill | Alamine 336 | 0 | 0.80 | sp.g | 0 |
| Mill | Alamine 336 Totes [2] | 30,600 | 0.80 | sp.g | 4,592 |
| Mill | Hyper Floc 757 Coagulant | 0 | 0.80 | sp.g | 0 |
| Mill | Liquified Natural Gas | 89,425 | 0.40 | sp.g | 26,838 |
| Mill | Tri-decyl alcohol [3] | 23,485 | 0.83 | sp.g | 3,397 |
| Mill | Propane | 23,605 | 0.50 | sp.g | 5,622 |
| Mill | Kerosene | 20,545 | 0.82 | sp.g | 3,026 |
| Mill | De-Scaler (ChemSearch 150 or equivalent) | 660 | 1.16 | sp.g | 68 |
| Mill | Soda ash Super Sacks | 82,000 | 0.99 | sp.g | 9,943 |
| Mill | Diatomaceous Earth Filter Aid | 70,200 | 2.30 | sp.g | 3,664 |
| Mill | Perlite Filter Aid | 10,623 | 2.30 | sp.g | 554 |
| Mill | Hydrogen Peroxide 50% | 7,189 | 1.20 | sp.g | 722 |
| Mill | Sodium Chlorate Super Sacks | 46,000 | 1.32 | sp.g | 4,199 |

1. The Mill uses a number of comparable polymer flocculants depending on the specific feed.

2. Current tertiary amine product name as purchased from BASF.
Alternatively, the Mill has and may continue to use other tertiary amines with comparable chemical properties.

3. Current alcohol used as modifier. Alternatively, the Mill has and may continue to use other secondary and tertiary alcohols, including isodecanol, among others, to improve tertiary amine/U/kerosene solubility.

Appendix L-3
Cleaners

| ***Location*** | ***Cleaners (LAB)*** | ***Quantity*** |
|---|---|---|
| CL | Windex | 968 mL |
| CL | Dawn | 5,842 Ml |
| CL | Fantastik | 946 mL |
| CL | Ajax | 4,257 mL |
| CL | Alcotabs | 3,060 g |
| CL | Baking Soda | 5,235 g |
| CL | Alconox | 5,500 g |
| CL | Mop&Glow | 100 mL |
| CL | Lysol | 1,500 mL |
| CL | Palmolive | 773 mL |
| CL | Pledge | 2,124 g |
| CL | Jewelers Rouge Polishing Compound | 454 g |
| CL | Liqui-Nox Cleaner | 0 |

| ***Location*** | ***Cleaners (MET LAB)*** | ***Quantity*** |
|---|---|---|
| MET | Dawn | 1,242 mL |
| MET | Baking Soda | 6,351 g |
| MET | Mop&Glow | 1,892 mL |
| MET | Lysol | 1,300 mL |

Appendix L-4
Historic/Formerly Used Chemicals

## Chemicals Formerly Used at Mill/No Longer Used or Present on Site [1]

| Location of Storage or Use | Chemical | Form | Time Period of Use | Total Quantity Used | Current Status |
|---|---|---|---|---|---|
| Leach circuit | Ammonium Bi-fluoride | Dry solid in SuperSaks | Several months during 1997 or 1998 | No more than several thousand lbs. | None on site since 1998 |
| Leach circuit | Hydrochloric Acid | Drummed liquid | Several months during 1997 or 1998 | No more than 10,000 gallons | None on site since 1998 [3] |
| Uranium SX | J-Mt primary amine | Drummed Liquid | Several months during 1997 or 1998 | No more than 2,000 gallons | None on site since 1998 |
| Uranium SX | Tri octyl phosphine oxide ("TOPO") | Drummed liquid | Several months during 1997 or 1998 | No more than 2,000 gallons | None on site since 1998 |

1. These reagents were used during processing of one alternate feed for 6 months in 1997/1998, and have not been used before or since.
2. Total quantities used are also the total quantities purchased over life of the alternate feed project, that is, total on site was this quantitiy or less.
3. Unused residual consumed from 1997 to 1999 for cleaning purposes.