

Table 2-1
Wastes Generated by MINS and discharged into the IWTP/SSTP
Feasibility Study
Investigation Area H1
Mare Island, Vallejo, California

Waste Generated	Amount	Source	Disposal Method	Years Disposed	Literature Cited	Subarea(s) Affected
Acid, alkaline, heavy metals	Unknown	Battery shop	IWTP	Unknown	PRC, 1996f	IWTP, IW Pipeline, Sludge Treatment/Surface Impoundment Subarea
Phosphoric, sulfuric, hydrochloric, and acetic acid	Ten tanks with a capacity of 170 to 2,735 gallons discharged twice a year	Boiler Shop	Neutralized and discharged to IWTP	Unknown	E&E, 1983	IWTP, IW Pipeline, Sludge Treatment/Surface Impoundment Subarea
Solvent	"very small amount"	Building 112	IWTP	After 1981	E&E, 1983; PRC, 1996f	IWTP, IW Pipeline, Sludge Treatment/Surface Impoundment Subarea
High Solids	Unknown	Building 120	IWTP	Unknown	PRC, 1996f	IWTP, IW Pipeline, Sludge Treatment/Surface Impoundment Subarea
Oil/Grease, Solvents, High Solids, Heavy Metals	Unknown	Central Tool Shop	IWTP	Unknown	PRC, 1996f	IWTP, IW Pipeline, Sludge Treatment/Surface Impoundment Subarea
Non-salvageable sulfuric acid	Unknown	Electrical/Electronics Shop	IW Pretreatment plant T-3	Since 1973	E&E, 1983	IWTP, IW Pipeline, Sludge Treatment/Surface Impoundment Subarea
Acid-contaminated rinsewater	5000 gallons/day	Electrical/Electronics Shop	IW Pretreatment plant T-3 (neutralization and metals removal)	Unknown	E&E, 1983	IWTP, IW Pipeline, Sludge Treatment/Surface Impoundment Subarea
Alkaline, acid, phosphates, heavy metals, chelate, solvents, oil/grease, high solids	Unknown	Electrical/Electronics Shop	IW Pretreatment plant T-3 (neutralization and metals removal)	Unknown	PRC, 1996f	IWTP, IW Pipeline, Sludge Treatment/Surface Impoundment Subarea
Solutions of cyanide; lye; caustic soda; chromic acid; muriatic, sulfuric, and nitric acids; sodium hydroxide; and various solutions for tin, lead, and nickel plating	75 gallons/minute as of 1972	Electrical/Electronics Shop	IWTP	After 1972	E&E, 1983	IWTP, IW Pipeline, Sludge Treatment/Surface Impoundment Subarea
High Solids	Unknown	Fiberglass shop	IWTP	Unknown	PRC, 1996f	IWTP, IW Pipeline, Sludge Treatment/Surface Impoundment Subarea

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Heavy metals, acid, oil/grease, phosphates	Unknown	Flask Passivation, Hose Flushing	IWTP	Unknown	PRC, 1996f	IWTP, IW Pipeline, Sludge Treatment/Surface Impoundment Subarea
Diesel, oil/grease, high solids	Unknown	Fuel Oil Pump House	IWTP	Unknown	PRC, 1996f	IWTP, IW Pipeline, Sludge Treatment/Surface Impoundment Subarea
Cleaning solvents, primarily kerosene with some "test fluids" and paint strippers	200 gallons/year	Inside Machine Shop	IWTP	Unknown	E&E, 1983	IWTP, IW Pipeline, Sludge Treatment/Surface Impoundment Subarea
High solids, oil/grease, heavy metals from water/bead blast	Unknown	Inside Machine Shop	IWTP	Unknown	PRC, 1996f	IWTP, IW Pipeline, Sludge Treatment/Surface Impoundment Subarea
Heavy Metals	Unknown	Lead Casting Shop	IWTP	Unknown	PRC, 1996f	IWTP, IW Pipeline, Sludge Treatment/Surface Impoundment Subarea
Phosphates, alkaline, heavy metals	Unknown	Metal Cleaning	IWTP	Unknown	PRC, 1996f	IWTP, IW Pipeline, Sludge Treatment/Surface Impoundment Subarea
X-ray developing and fixing solutions, acid, solvents	"small volumes"	Naval Regional Medical Center Branch Clinic	SSTP	Unknown	E&E, 1983	IWTP, IW Pipeline, Sludge Treatment/Surface Impoundment Subarea
Photochemicals, Silver	Unknown	Navy Publication and Printing Service Branch Office	IWTP	Unknown	PRC, 1996f	IWTP, IW Pipeline, Sludge Treatment/Surface Impoundment Subarea
Alkaline, acid, phosphates, heavy metals, chelate, oil/grease, photochemicals	Unknown	Nuclear and non-nuclear pipe shop	IWTP	Unknown	PRC, 1996f	IWTP, IW Pipeline, Sludge Treatment/Surface Impoundment Subarea
Heavy metals, acid, oil/grease, phosphates, diesel	Unknown	Oil Reclamation Association - drum, railroad car, tank rinsing	IWTP	Unknown	PRC, 1996f	IWTP, IW Pipeline, Sludge Treatment/Surface Impoundment Subarea
Paint, thinner, "contaminated water"	1000 gallons/day plus an additional 1500 gallons/week	Paint Shop	IWTP	Unknown	E&E, 1983	IWTP, IW Pipeline, Sludge Treatment/Surface Impoundment Subarea

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Rinsewaters from dip tanks containing cleansers, deoxidizers, alodines, irridite	1000 gallons/day	Paint Shop	IWTP	Unknown	E&E, 1983	IWTP, IW Pipeline, Sludge Treatment/Surface Impoundment Subarea
Photochemicals, phosphates, solvents, heavy metals, sandblast abrasive ^a , organotin, anticorrosion materials, chromium	Unknown	Paint Shop	IWTP	Unknown	PRC, 1996f	IWTP, IW Pipeline, Sludge Treatment/Surface Impoundment Subarea
Cleansers, deoxidizers, alodines, irridite	12,000 gallons/year	Paint Shop	IWTP	Unknown	E&E, 1983	IWTP, IW Pipeline, Sludge Treatment/Surface Impoundment Subarea
Heavy metals, high solids, photochemicals, solvents	Unknown	Paint Shop	IWTP	Unknown	PRC, 1996f	IWTP, IW Pipeline, Sludge Treatment/Surface Impoundment Subarea
Wastewater contaminated with alcohol, ketones, thinners, epoxies, paints, Brulin cleaner, silver nitrate, glacial acetic acid, Oakite, tetrafluoroethylene	200 gallons/day	Paint Shop	SSTP, IWTP, solids and floatables to landfill	Unknown	E&E, 1983	IWTP, IW Pipeline, Sludge Treatment/Surface Impoundment Subarea, Landfill
Wastewater containing sulfuric acid, sodium dichromate, trisodium phosphate, soda ash, sodium hydroxide, nitric acid	3000 gallons/day	Pipe Shop	IWTP	Prior to 1976	E&E, 1983	IWTP, IW Pipeline, Sludge Treatment/Surface Impoundment Subarea
"Dip Tanks" containing sulfuric acid, sodium dichromate, trisodium phosphate, soda ash, sodium hydroxide, nitric acid	Greater than 14,000 gallons/month	Pipe Shop	IWTP	Prior to 1976	E&E, 1983	IWTP, IW Pipeline, Sludge Treatment/Surface Impoundment Subarea
Wastewater containing sodium hydroxide, sodium gluconate, soap, sodium carbonate, and sulfuric acid	1000 gallons/day	Pipe Shop	IWTP	Unknown	E&E, 1983	IWTP, IW Pipeline, Sludge Treatment/Surface Impoundment Subarea
Concentrated "bath dump" containing sodium hydroxide, sodium gluconate, soap, sodium carbonate and sulfuric acid	1500 gallons/month	Pipe Shop	IWTP	Unknown	E&E, 1983	IWTP, IW Pipeline, Sludge Treatment/Surface Impoundment Subarea
Rinse wastewater containing acetone and alcohol	5000 gallons/day	Pipe Shop	IWTP	Unknown	E&E, 1983	IWTP, IW Pipeline, Sludge Treatment/Surface Impoundment Subarea

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Phosphates, alkaline, heavy metals, cyanide	Unknown	Plating Shop	IWTP	Unknown	PRC, 1996f	IWTP, IW Pipeline, Sludge Treatment/Surface Impoundment Subarea
Phosphates, solvents, heavy metals, solids	Unknown	Public Works Shop	IWTP	Unknown	PRC, 1996f	IWTP, IW Pipeline, Sludge Treatment/Surface Impoundment Subarea
Rinse wastewater from etching and deoxidizer dip tank operations ("Oakite 160" etching solution, "Oakite" deoxidizer (chromic acid), caustic soda, "chronachrome", metal brighteners, rust inhibitors, brightening compounds)	800 gallons/day as of 1972	Sheetmetal Operation	IWTP after 1972	Unknown	E&E, 1983	IWTP, IW Pipeline, Sludge Treatment/Surface Impoundment Subarea
Lubricating oils, cleaners, liquid wastes	300 gallons per year as of 1982	Shipfitting shop	Unknown	Unknown	E&E, 1983	Waste Sump/Lead Oxide Subarea, IWTP, IW Pipeline, Landfill, Historical Disposal Areas
Wastewaters contaminated with Stoddard solvent, kerosene, oil, grease, detergent	56 gallons per minute as of 1972	Transportation Shop	SSTP as of 1972	Unknown	E&E, 1983	IWTP, IW Pipeline, Sludge Treatment/Surface Impoundment Subarea
Oily wastes and solvents	Unknown	Utilities Shop	Mare Island Strait until 1980, Unknown after 1980 probably IWTP	Unknown	E&E, 1983	IWTP, IW Pipeline, Sludge Treatment/Surface Impoundment Subarea

^a "Sandblast abrasive" consists of a nickel and copper slag abrasive containing paint, organotin, anti-corrosion material, marine growth, lead, mercury, copper, rust, scale, and other metals