



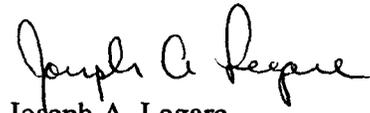
Mr Tim Rehder  
Mr Steven Gunderson  
00-DOE-00096

2

OCT 13 1999

Some of the data used for the ER Ranking has not been validated at this time, but we anticipate that the data will be validated in FY00. Any changes in ranking due to data validation will be incorporated into the ER Ranking as necessary, and your agencies will be notified of those changes.

If you should have any technical question regarding this list, please contact Norma I Castaneda at (303) 966-4226 or contact me at (303) 966-5918.



Joseph A. Legare  
Assistant Manager  
For Environment and Infrastructure

Enclosure

cc w/Enc  
A Rampertaap, EM-45, HQ  
G Kleeman, EPA  
C Spreng, CDPHE  
~~Administrative Report~~

cc w/o Enc  
J Rampe, DAMEI, RFFO  
G Hill, AI, RFFO  
R Tyler, ER/WM, RFFO  
N Castaneda, ER/WM, RFFO  
L Brooks, K-H  
L Butler, K-H

ER Ranking

Statu	Rank	HSS Number and Name	Total Tank Contents	Total Ground Water	Total Subsurface Soil	Total Surface Soil	Total Chemical Score	ALF Score	SW Impact Score Multiplier	Potential for Further Release Multiplier	Professional Judgement Multiplier	Total Priority Score	Exceeds Tier 1 AL	General Comments
C-96	1	109 Ryan' Pit		33679	2	1	33681	10	2	3	1	60	yes	Source removed
C-96	2	110 Trench T 3		26101	1612	1	27713	10	2	3	1	60	yes	Source removed
C-96	3	111 Trench T-4		26101	78	1	26179	10	2	3	1	60	yes	Source removed
C-99	4	108 Trench T 1		11	11080	1	11091	9	1	3	2	54	yes	FY98 source removed treatment and trench fill in FY99
C-97	5	113 Mound		19084	6	1	19071	9	3	2	1	54	yes	Source of Mound Plume, removed
IAC-99	6	112/155/140/183 903 Pad and Lip Area		41428	1449	108	42983	10	2	2	1	40	yes	Characterization complete FY99 remediation planned for FY2001
IAC-99	7	East Trenches Plume		26105	2325	2	26105	10	3	1	1	30	yes	Treatment cell installed 1999
IAC-98	8	118 1, 132 and 121 Tanks 9 & 10		50000000			50003521	10	1.5	2	1	30	yes	Plume Source, sampling in progress 8/99 Progress Report
IAC-98	9	Mound Plume		19087			19087	9	3	1	1	27	yes	Groundwater collection and treatment system in place
IAC-96	10	Tank T-40 within IHSS 121		3570	1	1	3570	7	1	3	1	21	yes	Source removed tank foamed and stabilized
IAC-96	11	124/1124/2/125 PW Tank T 16N within IHSS 121		1453	1	1	1453	7	1	3	1	21	yes	Source removed, tank foamed and stabilized
IAC-96	12	Tanks T 21-3 122-Underground Tanks within IHSS 121		270	1	29	1050	7	1	3	1	21	yes	Tank foamed and stabilized PAHs in surface soil and groundwater
IAC-96	13	124.3 Process Wastewater Tank T 14 within IHSS 121		1000	1	1	1000	6	1	3	1	18	yes	Source removed, tank foamed and stabilized
IAC-99	14	101 Solar Ponds		2403	1	14	2417	7	2	1	1	14	yes	H-HRA 10-4 to 10-6 groundwater from 118 T not used in ra long
IAC-99	15	Solar Ponds Plume		2403	1	1	2403	7	2	1	1	14	yes	Treatment cell installed 1999
IAC-99	16	174' in PU & D Yard		340	1260	41	1641	7	1	1.5	1	10.5	yes	Completed Characterization Report in 1999
IAC-99	17	903 Pad & Ryan Pit Plume		73365			73365	10	1	1	1	10	yes	Impact to surface water in the Woman C creek drainage not established
IAC-99	18	Carbon Tetrachloride Plume (118 1)		50000000			50000000	10	1	1	1	10	yes	DNAFL present, sampling in progress 8/99 Progress Report
IAC-99	19	881 Hillside Plume		9167			9167	8	1	1	1	8	yes	No impact on surface water in the Woman C creek drainage
IAC-99	20	Industrial Area Plume		2615			2615	7	1	1	1	7	yes	No known impact on surface water
IAC-99	21	Tank T 29 (Tank 207) within IHSS 121		15	1	1	4125	7	1	2	0.5	7	yes	New 1995 data-PAHs in surface soil
IAC-99	22	160 Rad Site Bldg 684 Parking Lot		578	1	1	579	6	1	1	1	6	yes	Paved
IAC-99	23	158 Rad Site B55/1B554		418	1	1	418	5	1	1	1	5	no	Paved
IAC-99	24	Building 881 Area Plume		257	7		257	5	1	1	1	5	yes	No pathway known
IAC-99	25	Building 881 UBC		257	1		257	5	1	1	1	5	no	Compliance, presumptive remedy for los
IAC-99	26	114-Present Landfill		415	1	31	446	5	2	1	0.5	5	no	Continued monitoring
IAC-99	27	Present Landfill Area Pl m		415	1	1	415	5	2	1	0.5	5	no	Score includes newly discovered sample data
IAC-99	28	111 4 SE Trenches T 7		215	128	1	128	4	1	1	1	4	yes	H-HRA less than 10-6 metals
IAC-99	29	165 Triangle Area		553	1	14	229	4	2	1	1	4	yes	1988 investigation-no surface water impact, cont. monitoring
IAC-99	30	PU&D Yard Plume		553	1	2	553	6	1	1	0.5	3	no	Tank foamed and stabilized tank not br ched
IAC-99	31	129 Tank T-4 outside steam plant		1	1	1	2	1	1	3	1	3	no	Tanks in service, part of HPAWL
IAC-99	32	126.2 Tank T-8 within IHSS 121		1	1	1	1	1	1	3	1	3	no	Organics in groundwater
IAC-99	33	111.8 Trench T 11		96	1	1	96	3	1	1	1	3	no	Combination due to B779
IAC-99	34	Building 779 UBC		46	64	64	64	2	1	1	1	2	no	PAHs in surface soil
IAC-99	35	Tank T 27 within IHSS 121		46	59	59	59	2	1	1	1	2	no	Overlap Solar Ponds Area (HSS 101)
IAC-99	36	143 771 Outfall		46	3	3	49	2	1	1	1	2	no	OU-5 H-HRA, 10E-4 to 10-6
IAC-99	37	176 SAW Yard		46	26	26	26	2	1	1	1	2	no	OU-5 H-HRA, 10E-4 to 10-6
IAC-99	38	131 Rad Site #1 700 Area		44	4	4	4	1	1	2	1	2	no	OU-5 H-HRA, 10E-4 to 10-6
IAC-99	39	133 4 Ash Pit #4		44	1	2	46	2	1	1	1	2	no	OU-5 H-HRA, 10E-4 to 10-6
IAC-99	40	133 1 Ash Pit #1		44	2	2	46	2	1	1	1	2	no	OU-5 H-HRA, 10E-4 to 10-6
IAC-99	41	133 2 Ash Pit #2		44	2	1	46	2	1	1	1	2	no	OU-5 H-HRA, 10E-4 to 10-6
IAC-99	42	133 3 Ash Pit #3		44	1	1	44	2	1	1	1	2	no	OU-5 H-HRA, 10E-4 to 10-6
IAC-99	43	Old Landfill Area Plume		174	1	1	174	4	1	1	0.5	2	no	OU-5 H-HRA, 10E-4 to 10-6
IAC-99	44	115 Original Landfill		172	1	27	199	4	1	1	0.5	2	no	OU-5 H-HRA, 10E-4 to 10-6
IAC-99	45	Bowman Pond (PAC 700-1109), 139 TN(e) tanks spill		12	14	36	50	2	1	1	0.5	1	no	Investigation complete-1989 Solar Ponds cell to treat water
IAC-99	46	190 Caustic Leak		9	4	1	12	1	1	1	1	1	no	Evaluating using approved NANFA process
IAC-99	47	Building 123 Site (HSSs 148 121 123 UBC RCRA Unit 40)		9	1	20	20	1	1	1	1	1	no	Building removed to the slab in FY98
IAC-99	48	120 1 North Fiberglassing area		16	16	16	16	1	1	1	1	1	no	Contamination probably from 400 Complex
IAC-99	49	150.3 Rad Site Between B771 & B772		13	13	13	13	1	1	1	1	1	no	Active RCRA unit
IAC-99	50	214 750-Pad pond/crater/saltcrust storage		5	5	5	10	1	1	1	1	1	no	

3

ER Ranking

Slufru	Rank	#ISS Number and Name	Total Tank Contents	Total Ground Water	Total Subsurface Soil	Total Surface Soil	Total Chemical Score	AUF Score	SW Impact Score Multiplier	Potential for Further Release Multiplier	Professional Judgement Multiplier	Total Priority Score	Exceeds Tier 1 AL	General Comments
	47	157.2 Rad Site south		2		5	7	1	1	1	1	1	no	PCB Mt above AL, listed under PCB 9
	48	120.2 West Fiberglassing Area				6	6	1	1	1	1	1	no	
	49	144 Sewer line overflow				4	4	1	1	1	1	1	no	
	50	136.2 Cooling Tower Pond East of B444				4	4	1	1	1	1	1	no	
	51	163.1 Rad Site 700 North B774				2	2	1	1	1	1	1	no	
	52	Building 440 Site			8		8	1	1	1	1	1	no	
	53	177-OJ 10		1		2	2	1	1	1	1	1	no	Delta from Analysis of Soils East of Bldg 440? August 1998
	54	196 in Old Landfill		44	1	1	44	2	1	1	0.5	1	no	PCB Mt above AL
	55	119.1 OU 1 Solvent Spill Site		1	29	3	32	2	1	1	0.5	1	no	HFRA, 10E-4 to 10-6
	56	139.2 Hydrofluoric Acid Tank spills				19	19	1	1	1	0.5	0.5	no	CAD/CROO amendment pending
	57	111.2 Trench T-5		1	1	1	1	1	1	1	0.5	0.5	no	PAHs in surface soil
	58	153 ON Burn Pit		1	1		1	0	1	1	1	0	no	Under PA fence
	59	164.3 Rad Site #2, 800 Area, 887 Pad				1	1	0	1	1	1	0	no	
	60	127 Low level Rad waste leak					1	0	1	1	1	0	no	
	61	188 Valve Vault 11, 12 and 13				1	1	0	1	1	1	0	no	
	62	150.4 Rad Site NW of B750				1	1	0	1	1	1	0	no	Associated with NPMV
	63	159 Rad Site B559		1	1		1	0	1	1	1	0	no	
	64	111.3 SE Trenches T-6				1	1	0	1	1	1	0	no	
	65	111.5 SE Trenches T-8		1	1		1	0	1	1	1	0	no	
	66	111.6 SE Trenches T-9		1	1		1	0	1	1	1	0	no	
	67	138 Bldg 779 Cooling Tower Blowdown				1	1	0	1	1	1	0	no	
	68	164.2 Rad Site #2, 800 Area Bldg 888 Spill		1	1		1	0	1	1	1	0	no	
	69	111.7 SE Trenches T-10			1		1	0	1	1	1	0	no	
	70	137 Bldg 712/713 Cooling Tower Blowdown					0	0	1	1	1	0	no	
	71	118.2 Solvent Spills North End of Bldg 707		1		1	0	0	1	1	1	0	no	Evaluate using approved NANFA process
	72	121-PO8 OPWL Pipeline, 135 R, Bldg 881					0	0	1	1	1	0		Evaluate using approved NANFA process
	73	121-F67 OPWL Pipeline, 112 R, Bldg. 122					0	0	1	1	1	0		Evaluate using approved NANFA process
	74	Tank 12 within HSS 121					0	0	1	1	1	0		Evaluate using approved NANFA process
	75	Tank 31 within HSS 121					0	0	1	1	1	0		Evaluate using approved NANFA process
	76	Tank 33 within HSS 121					0	0	1	1	1	0		Evaluate using approved NANFA process
	77	Tank 34 within HSS 121					0	0	1	1	1	0		Evaluate using approved NANFA process
	78	Tank 35 within HSS 121				n	0	0	1	1	1	0		Evaluate using approved NANFA process
	79	175 S&W B, 960 Container Storage Facility			n	1	0	0	1	1	1	0		Evaluate using approved NANFA process
	80	182 444/653 Drum Storage Area		n			0	0	1	1	1	0		Evaluate using approved NANFA process
	81	205 Sump 89 Acid Site, SE B-460				1	0	0	1	1	1	0	no	Evaluate using approved NANFA process
	82	204 Insulation D-388 HW Tank B374				1	0	0	1	1	1	0		Evaluate using approved NANFA process
	83	207 Insulation B444 Acid Dumpsters				1	0	0	1	1	1	0		Evaluate using approved NANFA process
	84	208 Insulation 444/447 Waste Storage			n		0	0	1	1	1	0		Evaluate using approved NANFA process
	85	187 Solvents Acid Spill: B443				n	0	0	1	1	1	0		Evaluate using approved NANFA process
	86	194/89 Lighting Metal Destruction Site					0	0	1	1	1	0		Evaluate using approved NANFA process
	87	134/83 Lithium Metal Destruction Site		1	1	<1	0	0	1	1	1	0		Evaluate by NANFA process/ B335 D&D
	88	150.8 Landfill Deck				1	0	0	1	1	1	0		Evaluate by NANFA process/ B335 D&D
	89	184 Pallet Burn Site				1	0	0	1	1	0.5	0		Evaluate with NANFA PCB Hot Spot only
														Removed during PA construction, verify only
				134		1	134	4	1	2	2	16	no	Excipient data indicates free product present
				156		1	156	4	1	1	2	8		Known containment plume
				142	n	1	0	1	1	1	2	2		Many known spills
						n	0	7	1	1	2	14	yes	9-HSS 121 to be characterized in 2004
														Not characterized, probably highly contaminated
														Not characterized, probably highly contaminated
														Not characterized, probably highly contaminated

ER Ranking

Rev 9/99

Status	Rank	#ISS Number and Name	Total Tank Contents	Total Ground Water	Total Subsurface Soil	Total Surface Soil	Total Chemical Score	ALF Score	SW Impact Score Multiplier	Potential for Further Release Multiplier	Professional Judgement Multiplier	Total Priority Score	Exceed Tier 1 AL	General Comments
	NV	149 1 OPWL to SEPS within #ISS 121												Not characterized probably highly contaminated
	NV	149.2 OPWL to SEPS within #ISS 121												Not characterized, probably highly contaminated
	NV	215 Abandoned sump in 774 with #ISS 121												Not characterized, probably highly contaminated
	NV	New Process Waste Lines (PAC-002-504)												Not characterized, probably highly contaminated
	NV	Storm Drains (PAC-000-505)												T be characterized in 2003
	NV	Fining Range and Target Area												T be characterized in 2003
	NV	142 1 Pond A-1												Not characterized, Pb Present and possibly depleted U
	NV	142 10 Pond C-1												OU-6 HARA, 10E-4 to 10-6 risk, disposition after IA D&D
	NV	142 11 Pond C-2												OU-6 HARA, less than 10-6 disposition after IA D&D
	NV	142.12 Walnut and Indiana Pond												OU-6 HARA, less than 10-6 disposition after IA D&D
	NV	142.2 Pond A-2												OU-6 RFRRI Passed CDPHE screen, disposition after IA D&D
	NV	142.3 Pond A-3												OU-6 HARA, 10E-4 to 10-6 risk, disposition after IA D&D
	NV	142.4 Pond A-4												Passed CDPHE screen w/ pond and sediment data
	NV	142.5 Pond B-1												OU-6 HARA, 10E-4 to 10-6 risk, disposition after IA D&D
	NV	142.6 Pond B-2												OU-6 HARA, 10E-4 to 10-6 risk, disposition after IA D&D
	NV	142.7 Pond B-3												OU-6 HARA, 10E-4 to 10-6 risk, disposition after IA D&D
	NV	142.8 Pond B-4												OU-6 HARA, 10E-4 to 10-6 risk, disposition after IA D&D
	NV	142.9 Pond B-5												OU-6 HARA, 10E-4 to 10-6 risk, disposition after IA D&D
	NV	Bldg 774 UBC (146 1 146 2 146 3 146 4 146 5, 146 6)												OU-6 HARA, 10E-4 to 10-6 risk, disposition after IA D&D
	NV	150 1 Rad Site N of 771												OU-6 HARA, 10E-4 to 10-6 risk, disposition after IA D&D
	NV	150.2 Rad Site W of 771/776												OU-6 HARA, 10E-4 to 10-6 risk, disposition after IA D&D
	NV	117 1 (North Site) & 197/Scrap Metal Storage												OU-6 HARA, 10E-4 to 10-6 risk, disposition after IA D&D
	NV	161 W of 664												OU-6 RFRRI Passed CDPHE screen w/ pond and sediment data
	NV	117.2 Middle Site Chemical Storage												Tanks removed 1971 rad data exceeded Tier 1 levels
	NV	128 Oil Burn Pit #1												Paved old data exists
	NV	150 7 Rad Site S of 778												Paved old data exists
	NV	163.2 Amertorium Slab												Suspected source-known burned material
	NV	213 904 Pad; Pomcrete Storage												Waste staging area-lack of data
	NV	116 1 Bldg 447 W Loading Dock												Source
	NV	116.2 Bldg 444 S Loading Dock												Tread to Building 335 D&D Project
	NV	136 1 Cooling Tower Pond W of 444												Rad Screens only
	NV	148 Waste Leach												HFGa Survey
	NV	150.8 Rad Site S of 779												Active RCRA Unit, not sampled
	NV	173 Rad Site Bldg 991												
	NV	184 Rad Site 991 Steam												
	NV	162 700 Area												
	NV	PAC 900-1307 Explosive Bonding Pit												
NFA		PAC NV 1501 Asbestos Boiler IPULD Yard												
NFA		PAC NE 1408 OU-2 Tard Wall												
NFA		PAC NE-1409 Interceptor Trench Pump Houses												
NFA		PAC 900-1309 OU-2 Field Treatability Unit												
NFA		PAC 900-1311 Sepsic Tank East of Building 991												
NFA		PAC 900-1312 OU-2 water Spill												
NFA		PAC 900-1313 Seps Area Near OU-2 Influent Piping												
NFA		164.1 Rad Site #2 800 Area												
NFA		170, 174.3 (174b) PULD Storage Areas												
NFA		117.3 S Chemical Storage Site												
NFA		123 1 Valve Vault #7												
NFA		135 Bldg 337 Cooling Tower												
NFA		147.2 Bldg 881 Conversion Activity												
NFA		151 Fuel Oil Leak												

ER Ranking

Statu	Rank	IRSS Number and Name	Total Tank Contents	Total Ground Water	Total Subsurface Soil	Total Surface Soil	Total Chemical Score	ALF Score	SW Impact Score Multiplier	Potential for Further Release Multiplier	Professional Judgement Multiplier	Total Priority Score	Exceeds Tier 1 AL	General Comments
NFA		156 1 Radioactive Site					0	0	1	1	1	0		Evaluated using existing data and approved NAFNA process
NFA		172 Central Avenue Waste Spill					0	0	1	1	1	0	no	Evaluated using existing data and approved NAFNA process
NFA		181 Building 334 Cargo Container Area					0	0	1	1	1	0		Evaluated using existing data and approved NAFNA process
NFA		188 Acid Leak Southeast of Bldg. 374					0	0	1	1	1	0		Evaluated using existing data and approved NAFNA process
NFA		191 Hydrogen Peroxide Leak					0	0	1	1	1	0		Evaluated using existing data and approved NAFNA process
NFA		210 Bldg 980 Cargo Container					0	0	1	1	1	0		Evaluated using existing data and approved NAFNA process
NFA		216.2 East Spray Field OU 2					0	0	1	1	1	0		PPRG ratio less than 1 2 downgradient wells
NFA		216.3 East Spray Field OU 2					0	0	1	1	1	0		PPRG ratio less than 1 2 downgradient wells
NFA		133.5 Incinerator					0	0	1	1	1	0		
NFA		133.6 Concrete Wash Pad					0	0	1	1	1	0		
NFA		141 Sludge Dispense Area					0	0	1	1	1	0		
NFA		152 Fuel Oil Tank 221 Spill					0	0	1	1	1	0		
NFA		156.2 Soil Disposal Area					0	0	1	1	1	0		
NFA		166 1 Landfill Trench A					0	0	1	1	1	0		
NFA		166.2 Landfill Trench B					0	0	1	1	1	0		
NFA		166.3 Landfill Trench C					0	0	1	1	1	0		
NFA		167 1 N Landfill Spray Area					0	0	1	1	1	0		
NFA		167.2 Landfill Pond Spray Area					0	0	1	1	1	0		
NFA		167.3 Landfill South Spray Area					0	0	1	1	1	0		
NFA		168 Hydrogen Peroxide Spill					0	0	1	1	1	0		
NFA		183 Gas Detox Facility					0	0	1	1	1	0		
NFA		189 Nitric Acid Tank					0	0	1	1	1	0		
NFA		203 Inactive Hazardous Waste Storage Area					0	0	1	1	1	0		
NFA		209 Surface Disturbances					0	0	1	1	1	0		
NFA		216 1 East Spray Field OU 6					0	0	1	1	1	0		
NFA		F167.3 Former S Spray Field					0	0	1	1	1	0		
C-97		102 Oil Sludge Pit					0	0	1	1	1	0		
C-97		103 Chemical Barrel					1	0	1	1	1	0		
C-97		104 Liquid Dumping					10	4	2	1	1	4	yes	
C-97		105 1 W Out-of-Service Fuel Tank					0	0	2	1	1	0		
C-97		105.2 E Out-of-Service Fuel Tank					0	0	2	1	1	0		
C-97		106 Outfall					0	0	2	1	1	0		
C-97		107 Hillside Oil Leak					0	0	2	1	1	0		
C-97		119.2 Solvent Spill Site					9	1	2	1	1	1	no	
C-97		130 800 Area Road Site #1					34	2	2	1	1	2	yes	
C-97		145 Sanitary Waste Line Leak					0	0	2	1	1	0		
C-97		199 Office Land Surface					0	0	1	1	1	0		
C-97		200 Great Western Reservoir					0	0	1	1	1	0		
C-97		201 Standley Lake					0	0	1	1	1	0		
C-97		202 Moser Reservoir					0	0	1	1	1	0		
C-97		168 West Spray Field					190	4	1	1	1	2	no	
C-95		178 B881 Drum Storage, Rm. 165					0	0	1	1	1	0		
C-95		179 B865 Drum Storage, Rm. 145					0	0	1	1	1	0		
C-95		180 B883 Drum Storage, Rm. 104					0	0	1	1	1	0		
C-95		204 Original Uranium Chip Resistor					0	0	1	1	1	0		
C-95		211 B881 Drum Storage #26-R211					0	0	1	1	1	0		
C-95		217 B881 Cyanide Treatment #32					0	0	1	1	1	0		
C-94		185 Solvent Spill					0	0	1	1	1	0		
C-94		182 Anti-freeze spill					3	1	1	1	1	0.5	no	
C-94		193 Steam Condensate					0	0	1	1	1	0		
C-94		194 Solvent Spill					0	0	1	1	1	0		

6

ER Ranking

Stat	Rank	#SS Number and Name	Total Tank Contents	Total Ground Water	Total Subsurface Soil	Total Surface Soil	Total Chemical Score	ALF Score	SW Impact Score Multiplier	Potential for Further Release Multiplier	Professional Judgement Multiplier	Total Priority Score	Exceeds Tier 1 AL	General Comments
C-94		195 Nickel Carbonyl Disposal					0	0	1	1	0.5	0		OJ-16 NFA CADPROD complete
C-96		Closure complete												
IAC-96		Interim Action Complete												
NFA		Evaluated and recommended for NatNFA status												
INV		Needs further investigation												
LOW		Low priority												

77