

APPENDIX A
SOIL SAMPLING LOGS

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HTRW DRILLING LOGS-MAPS

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HTRW DRILLING LOG		DISTRICT: Louisville		HOLE NUMBER LL2-064, 071	
1. COMPANY NAME: SAIC		2. DRILL SUBCONTRACTOR: NA		SHEET 1 OF 1	
3. PROJECT: RVAAP, Load Line 2 Phase II RI			4. LOCATION: BLDG DB-27		
5. NAME OF DRILLER: NA			6. MANUFACTURERS DESIGNATION OF DRILL: NA		
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT		8. HOLE LOCATION: multiple see map			
SS BOWL SS SPON 3" SS AUGER WITH EXTENSION		9. SURFACE ELEVATION: N/A			
		10. DATE STARTED: 07/24/01		11. DATE COMPLETED: 07/24/01	
12. OVERBURDEN THICKNESS: N/A		15. DEPTH GROUNDWATER ENCOUNTERED: N/A			
13. DEPTH DRILLED INTO ROCK: N/A		16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED: N/A			
14. TOTAL DEPTH OF HOLE: 0-		17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): N/A			
18. GEOTECHNICAL SAMPLES		DISTURBED		UNDISTURBED	
20. SAMPLES FOR CHEMICAL ANALYSIS		VOC		METALS	
		SVOX		CYANIDE	
22. DISPOSITION OF HOLE		BACKFILLED		MONITORING WELL	
		Bentonite		NA	
		OTHER (SPECIFY)		OTHER (SPECIFY)	
		PCBs		PESTICIDES	
		OTHER (SPECIFY)		EXPLOSIVES	
		23. SIGNATURE OF INSPECTOR		B. Williams	

LOCATION SKETCH/COMMENTS

SCALE: NOT TO SCALE

LL2-064

1007.57 TOC KHP

563514.92 N 01/1/01

23744 01.30E ALSO

SEE MAP ON PG 3

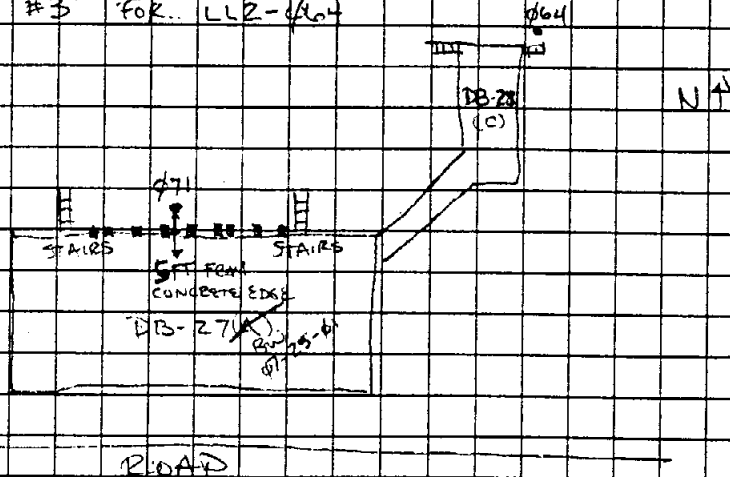
IN LOGBOOK: "LOAD LINE 2, SOIL SAMPLING, LOGBOOK #3" FOR LL2-064

LL2-071

1003.23 TOC

563248.72 N KHP

23744 178.77E 01/1/01



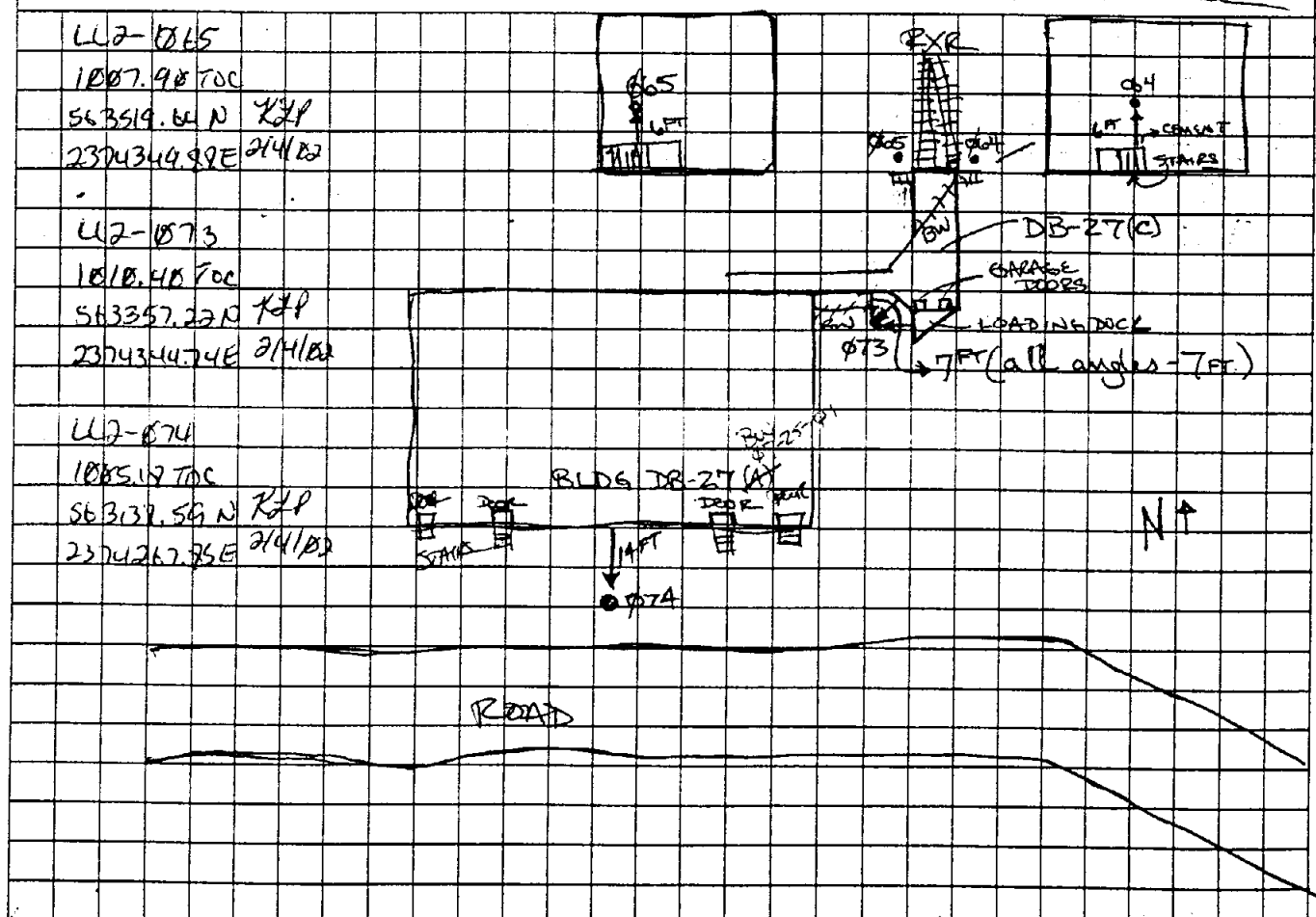
PROJECT: RVAAP, Load Line 2 Phase II RI

HOLE NUMBER LL2-064, 071

HTRW DRILLING LOG		DISTRICT: Louisville		HOLE NUMBER: LL2- φ74 , φ73, φ65	
1. COMPANY NAME: SAIC		2. DRILL SUBCONTRACTOR: NA		SHEET 1 OF 1	
3. PROJECT: RVAAP, Load Line 2 Phase II RI			4. LOCATION: Bldg DB27		
5. NAME OF DRILLER: NA			6. MANUFACTURERS DESIGNATION OF DRILL: N/A		
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT: SS BOWL, SS DRON, 3" SS AUGER w/ EXTENSION			8. HOLE LOCATION: Multiple locations (see map)		
			9. SURFACE ELEVATION: N/A		
			10. DATE STARTED: φ7-24-φ1		
			11. DATE COMPLETED: φ7-24-φ1		
12. OVERBURDEN THICKNESS: N/A			15. DEPTH GROUNDWATER ENCOUNTERED: N/A		
13. DEPTH DRILLED INTO ROCK: N/A			16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED: N/A		
14. TOTAL DEPTH OF HOLE: 7-24-φ1, 0-φ-			17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): N/A		
18. GEOTECHNICAL SAMPLES: N/A		DISTURBED		UNDISTURBED	
20. SAMPLES FOR CHEMICAL ANALYSIS: VOC, PCB, METALS, OTHER (SPECIFY) EXPLOSIVES		21. TOTAL CORE RECOVERY: N/A		23. SIGNATURE OF INSPECTOR: B. Will	
22. DISPOSITION OF HOLE: BACKFILLED (Bentonite), MONITORING WELL (N/A), OTHER (SPECIFY)					

LOCATION SKETCH/COMMENTS

SCALE: NOT TO SCALE



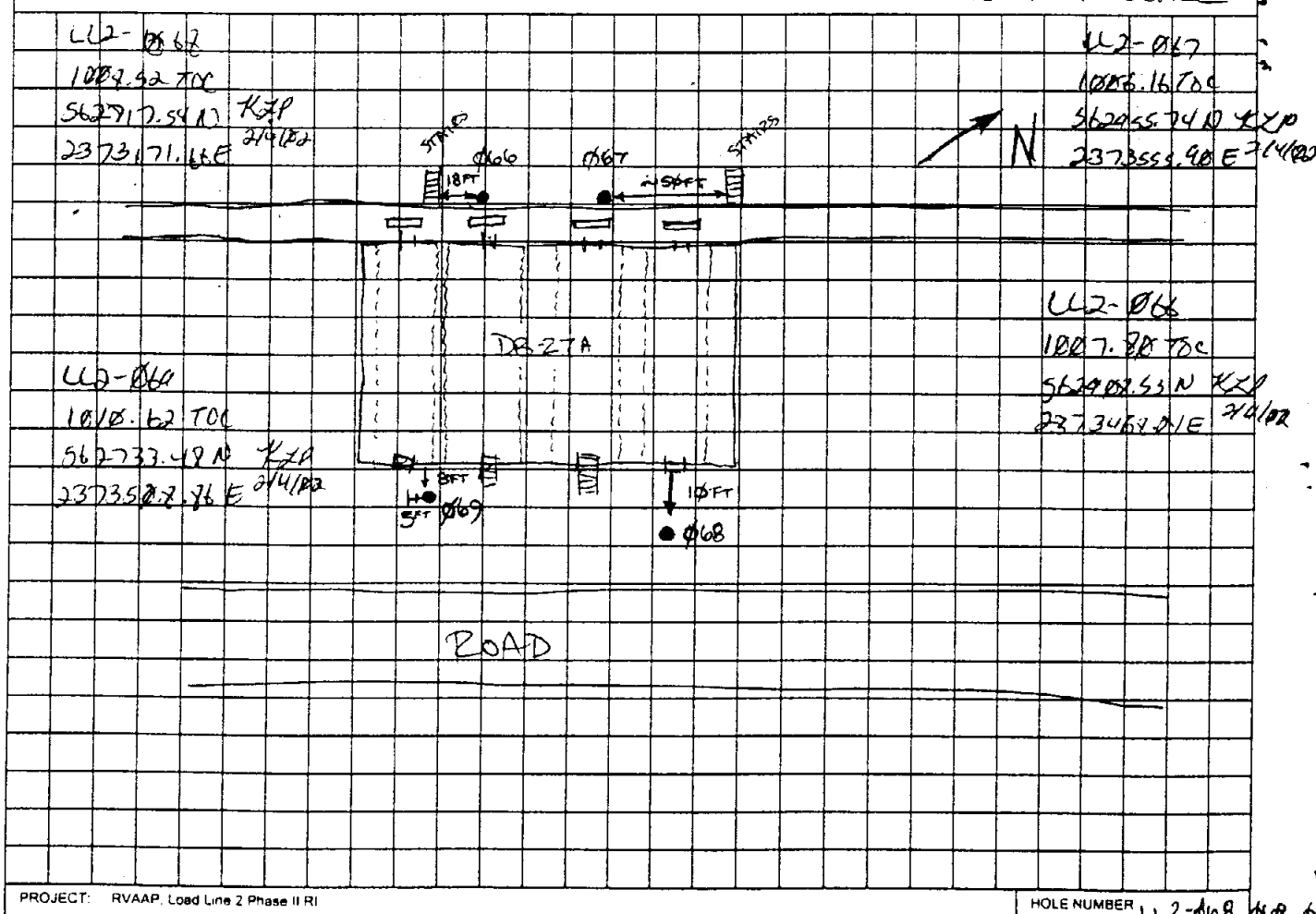
HTRW DRILLING LOG		DISTRICT: Louisville		HOLE NUMBER LL2-066	
1. COMPANY NAME: SAIC		2. DRILL SUBCONTRACTOR: NA		SHEET <u>1</u> OF <u>1</u>	
3. PROJECT: RVAAP, Load Line 2 Phase II RI			4. LOCATION: LL2		
5. NAME OF DRILLER: N/A			5. MANUFACTURERS DESIGNATION OF DRILL: N/A		
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT		8. HOLE LOCATION: BUILDING DB-27A (SW CORNER)			
3" SS AUGER w/ EXTENSION		9. SURFACE ELEVATION: N/A			
SS BOWL					
SS SPOON					
12. OVERBURDEN THICKNESS N/A			10. DATE STARTED: 07/26/01		
13. DEPTH DRILLED INTO ROCK N/A			11. DATE COMPLETED: 07/26/01		
14. TOTAL DEPTH OF HOLE 0-			15. DEPTH GROUNDWATER ENCOUNTERED: N/A		
			16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED: N/A		
			17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): N/A		
18. GEOTECHNICAL SAMPLES		DISTURBED		UNDISTURBED	
20. SAMPLES FOR CHEMICAL ANALYSIS		VOC		METALS	
SNOC		CYANIDE		OTHER (SPECIFY) PCB	
22. DISPOSITION OF HOLE		BACKFILLED		OTHER (SPECIFY)	
Bentonite		MONITORING WELL		23. SIGNATURE OF INSPECTOR: B. Williams	
19. TOTAL NUMBER OF CORE BOXES N/A			21. TOTAL CORE RECOVERY N/A		
LOCATION SKETCH/COMMENTS SCALE: NOT TO SCALE					
SEE PG 51 OF LOGBOOK: "LOAD LINE 2, SOIL SAMPLING, LOG BOOK #3" FOR MAP OF LL2-066 LL2-066 1007.80 TDC 562908.53 N KAP 2373468.21 E 2/4/02					
PROJECT: RVAAP, Load Line 2 Phase II RI					HOLE NUMBER LL2-066

HTRW DRILLING LOG			DISTRICT: Louisville			HOLE NUMBER L12-468, 469, 470, 471		
1. COMPANY NAME: SAIC			2. DRILL SUBCONTRACTOR: NA			SHEET 1 OF 1 ON MAP-DESCRIPTION ON PG 51 52		
3. PROJECT: RVAAP, Load Line 2 Phase II RI				4. LOCATION: L12 - BLDG DB-27A				
5. NAME OF DRILLER: N/A				6. MANUFACTURERS DESIGNATION OF DRILL: N/A				
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT		3 IN. SS AUGER w/ EXTENSION SS BOWL SS 4000			8. HOLE LOCATION: (SEE BORING LOG & MAP FOR OTHER LOCATIONS) NE CORNER OF DB-27A B/N BLDG & RM			
				9. SURFACE ELEVATION: N/A				
				10. DATE STARTED: 07/26/81		11. DATE COMPLETED: 07/26/81		
12. OVERBURDEN THICKNESS: N/A				15. DEPTH GROUNDWATER ENCOUNTERED: N/A				
13. DEPTH DRILLED INTO ROCK: N/A				16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED: N/A				
14. TOTAL DEPTH OF HOLE: 0-				17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): N/A				
18. GEOTECHNICAL SAMPLES		DISTURBED		UNDISTURBED		19. TOTAL NUMBER OF CORE BOXES: N/A		
20. SAMPLES FOR CHEMICAL ANALYSIS		Xc		METALS		OTHER (SPECIFY)		21. TOTAL CORE RECOVERY: N/A
		X		TEB		EXPLOSIVES		
22. DISPOSITION OF HOLE		BACKFILLED		MONITORING WELL		OTHER (SPECIFY)		23. SIGNATURE OF INSPECTOR: B.W.H.
		Bentonite		NA				

LOCATION SKETCH/COMMENTS

SCALE:

NOT TO SCALE



PROJECT: RVAAP, Load Line 2 Phase II RI

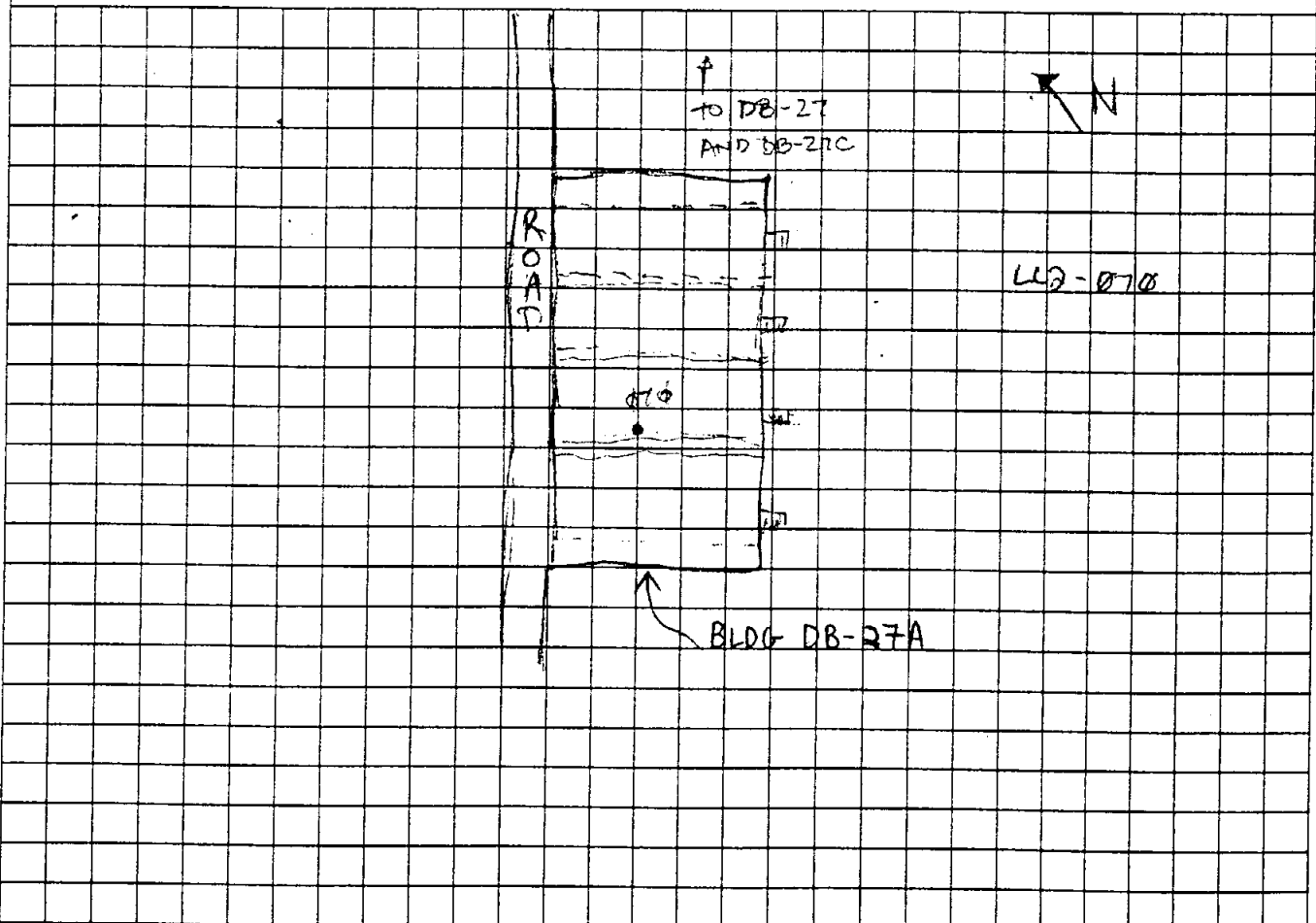
HOLE NUMBER LL2-~~668~~ ~~669~~, 667

066 ON MAP -
DESCRIPTION ON
PG 57-59

HTRW DRILLING LOG		DISTRICT: Louisville		HOLE NUMBER LL2-070	
1. COMPANY NAME: SAIC		2. DRILL SUBCONTRACTOR: NA		SHEET 1 OF 1	
3. PROJECT: RVAAP, Load Line 2 Phase II RI			4. LOCATION: LL2		
5. NAME OF DRILLER: N/A			6. MANUFACTURERS DESIGNATION OF DRILL: NA		
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT		8. HOLE LOCATION: FLOOR INSIDE DB-27A			
SS. Spoon SS. Bowl 3" SS AUGER WITH EXTENSION		9. SURFACE ELEVATION: N/A			
		10. DATE STARTED: 07/25/01		11. DATE COMPLETED: 07/25/01	
12. OVERBURDEN THICKNESS: N/A		15. DEPTH GROUNDWATER ENCOUNTERED: N/A			
13. DEPTH DRILLED INTO ROCK: N/A		16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED: N/A			
14. TOTAL DEPTH OF HOLE: 6'		17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): N/A			
18. GEOTECHNICAL SAMPLES		DISTURBED		UNDISTURBED	
19. TOTAL NUMBER OF CORE BOXES: N/A		20. SAMPLES FOR CHEMICAL ANALYSIS		21. TOTAL CORE RECOVERY (%)	
VOC		METALS		OTHER (SPECIFY)	
K		PCBs		EXPLOSIVES	
22. DISPOSITION OF HOLE		BACKFILLED		MONITORING WELL	
BENTONITE		NA		OTHER (SPECIFY)	
				23. SIGNATURE OF INSPECTOR: B. Williams	

LOCATION SKETCH/COMMENTS

SCALE: NOT TO SCALE



PROJECT: RVAAP, Load Line 2 Phase II RI

HOLE NUMBER LL2-070

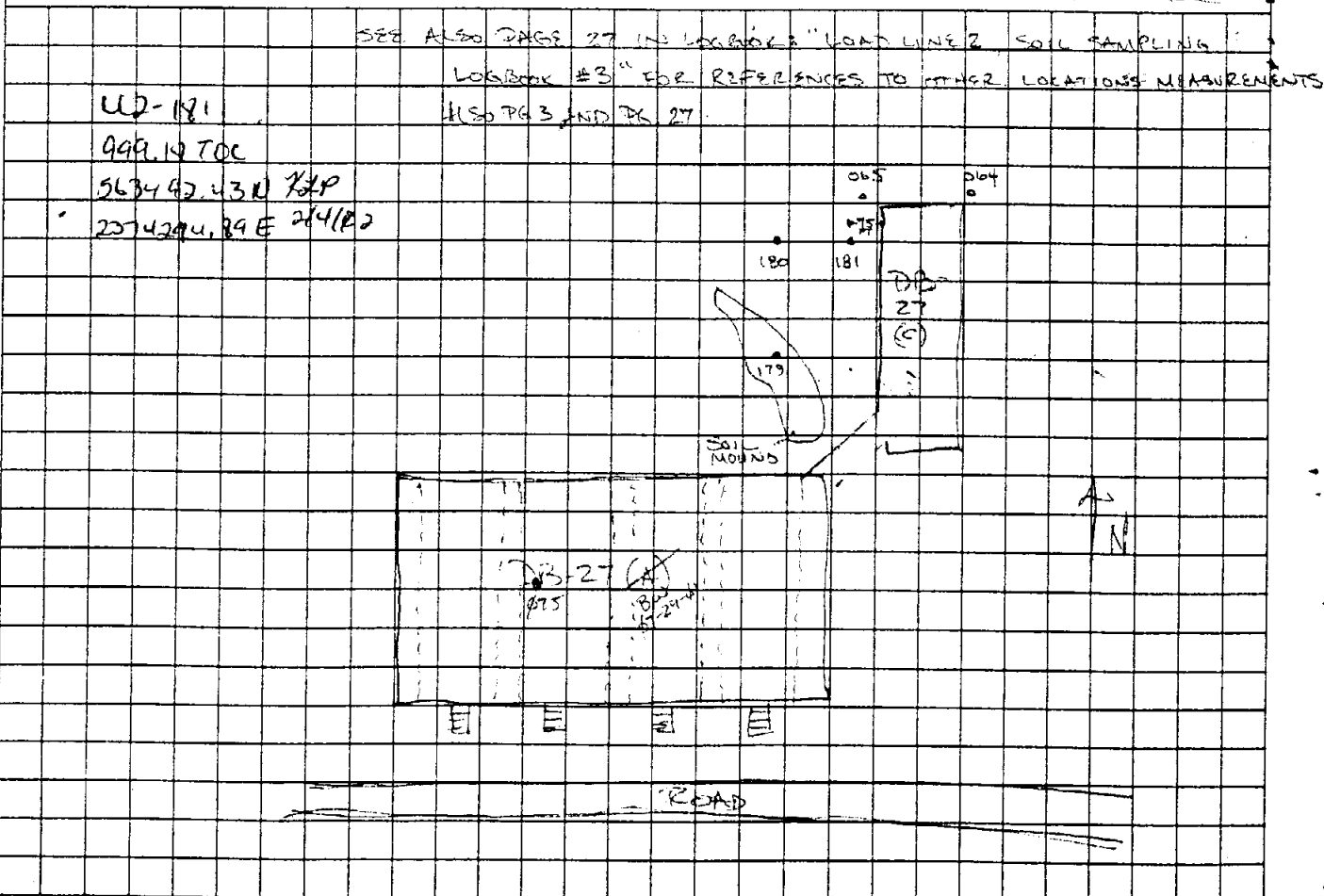
HTRW DRILLING LOG		DISTRICT: Louisville		HOLE NUMBER LL2-072	
1. COMPANY NAME: SAIC		2. DRILL SUBCONTRACTOR: NA		SHEET 1 OF 1	
3. PROJECT: RVAAP, Load Line 2 Phase II RI			4. LOCATION: BLDG DB-27		
5. NAME OF DRILLER: NA			5. MANUFACTURERS DESIGNATION OF DRILL: N/A		
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT 5" PEXOL SS - GREEN 3" SS AUGER w/ EXTENSION			8. HOLE LOCATION: multiple (see map)		
			9. SURFACE ELEVATION:		
			10. DATE STARTED: 6/25/01		
			11. DATE COMPLETED: 6/25/01 BW 6/24/01		
12. OVERBURDEN THICKNESS: N/A			15. DEPTH GROUNDWATER ENCOUNTERED: N/A		
13. DEPTH DRILLED INTO ROCK: N/A			16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED: N/A		
14. TOTAL DEPTH OF HOLE: 0'-			17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): N/A		
18. GEOTECHNICAL SAMPLES		DISTURBED		UNDISTURBED	
20. SAMPLES FOR CHEMICAL ANALYSIS		VOC		METALS	
		X		X	
22. DISPOSITION OF HOLE		BACKFILLED		MONITORING WELL	
		Bentomite			
				19. TOTAL NUMBER OF CORE BOXES: N/A	
				21. TOTAL CORE RECOVERY: N/A	
				23. SIGNATURE OF INSPECTOR: B. Williams	

LOCATION SKETCH/COMMENTS		SCALE: NOT TO SCALE	
PROJECT: RVAAP, Load Line 2 Phase II RI		HOLE NUMBER: LL2-072	

HTRW DRILLING LOG		DISTRICT: Louisville		HOLE NUMBER U2-181, 075	
1. COMPANY NAME: SAIC		2. DRILL SUBCONTRACTOR: NA		SHEET 1 OF 1	
3. PROJECT: RVAAP, Load Line 2 Phase II RI			4. LOCATION: Bluffs DB-27 and DB-27C		
5. NAME OF DRILLER: NA			6. MANUFACTURERS DESIGNATION OF DRILL: N/A		
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT		8. HOLE LOCATION: multiple (see map)			
SS SPOON SS BOWL 3" SS AUGER WITH EXTENSION		9. SURFACE ELEVATION: N/A			
		10. DATE STARTED: 6/25/01		11. DATE COMPLETED: 6/25/01	
12. OVERBURDEN THICKNESS: N/A		15. DEPTH GROUNDWATER ENCOUNTERED: N/A			
13. DEPTH DRILLED INTO ROCK: N/A		16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED: N/A			
14. TOTAL DEPTH OF HOLE: 6'		17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): N/A			
18. GEOTECHNICAL SAMPLES	DISTURBED	UNDISTURBED	19. TOTAL NUMBER OF CORE BOXES		
20. SAMPLES FOR CHEMICAL ANALYSIS	VOC X	(METALS) PCBS	(OTHER SPECIFY) EXPLOSIVES	OTHER SPECIFY X	OTHER SPECIFY X
21. TOTAL CORE RECOVERY: N/A					
22. DISPOSITION OF HOLE	BACKFILLED Bentonite	MONITORING WELL NA	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR: B. Williams	

LOCATION SKETCH/COMMENTS

SCALE: NOT TO SCALE



PROJECT: RVAAP, Load Line 2 Phase II RI

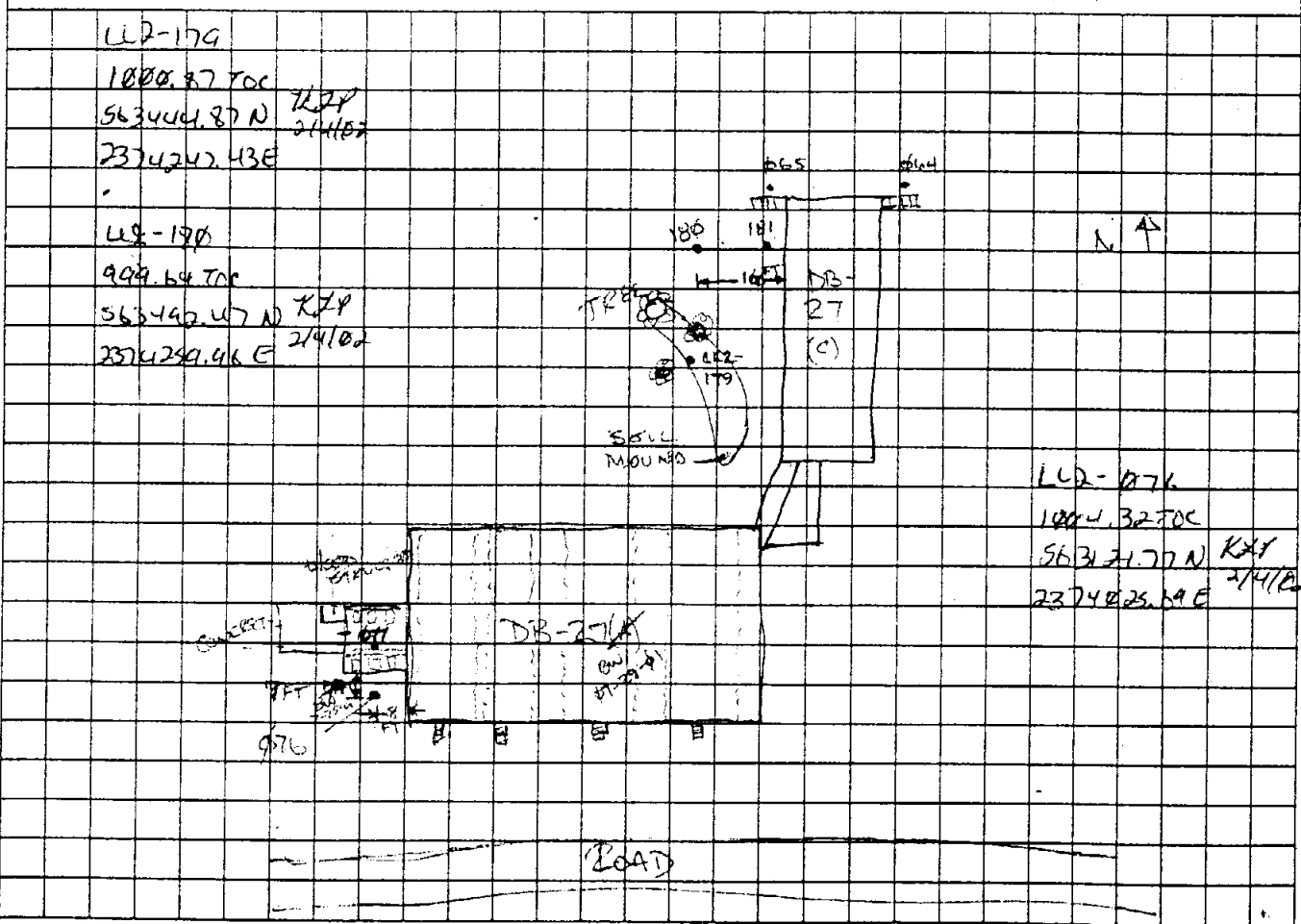
HOLE NUMBER U2-181, 075

27
477,476

HTRW DRILLING LOG		DISTRICT: Louisville		HOLE NUMBER LL2-179, 180, 477, 476	
1. COMPANY NAME: SAIC		2. DRILL SUBCONTRACTOR: NA		SHEET 1 of 1	
3. PROJECT: RVAAP, Load Line 2 Phase II RI			4. LOCATION: Bldgs. DB-27 and DB-27C		
5. NAME OF DRILLER: NA			5. MANUFACTURERS DESIGNATION OF DRILL: N/A		
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT 55 FOWL 55 JAW 3" 55 AUGER w/ EXTENSION			8. HOLE LOCATION: multiple (see map)		
			9. SURFACE ELEVATION: N/A		
			10. DATE STARTED: 6/7/25/01		
			11. DATE COMPLETED: 6/7/25/01		
12. OVERBURDEN THICKNESS: N/A			15. DEPTH GROUNDWATER ENCOUNTERED: N/A		
13. DEPTH DRILLED INTO ROCK: N/A			16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED: N/A		
14. TOTAL DEPTH OF HOLE: 0-			17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): N/A		
18. GEOTECHNICAL SAMPLES		DISTURBED		UNDISTURBED	
20. SAMPLES FOR CHEMICAL ANALYSIS		(VOC)		(METALS)	
SVOC		PCBs		METALS	
22. DISPOSITION OF HOLE		BACKFILLED		MONITORING WELL	
Bentonite		NA		OTHER (SPECIFY)	
19. TOTAL NUMBER OF CORE BOXES		OTHER (SPECIFY)		OTHER (SPECIFY)	
		EXPLOSIVES		X	
21. TOTAL CORE RECOVERY: N/A%		23. SIGNATURE OF INSPECTOR		B. Williams	

LOCATION SKETCH/COMMENTS

SCALE: NOT TO SCALE



PROJECT: RVAAP, Load Line 2 Phase II RI

HOLE NUMBER LL2-179, 180, 477, 476
470

QR 0-802 27
 HOLE NUMBER NA 080, 081, 082, 083, 084, 085, 086
 SHEET 1 OF 1

HTRW DRILLING LOG		DISTRICT: Louisville		HOLE NUMBER NA	
1. COMPANY NAME: SAIC		2. DRILL SUBCONTRACTOR: NA		080, 081, 082, 083, 084, 085, 086	
3. PROJECT: RVAAP Load Line 2 Phase II RI			4. LOCATION: LL2 Bldg. DA-6		
5. NAME OF DRILLER: M. Rios / SAIC			6. MANUFACTURERS DESIGNATION OF DRILL: 3" hand auger S.S.		
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT: 3" Duckfoot auger			8. HOLE LOCATION: NA		
NA			9. SURFACE ELEVATION: NA		
SAIC 8/1/01			10. DATE STARTED: 7/25/01		
			11. DATE COMPLETED: 7/26/01		
12. OVERBURDEN THICKNESS: NA			15. DEPTH GROUNDWATER ENCOUNTERED: NA		
13. DEPTH DRILLED INTO ROCK: NA			16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED: NA		
14. TOTAL DEPTH OF HOLE: NA			17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): NA		
18. GEOTECHNICAL SAMPLES		DISTURBED		UNDISTURBED	
20. SAMPLES FOR CHEMICAL ANALYSIS		VOC		OTHER (SPECIFY):	
22. DISPOSITION OF HOLE		BACKFILLED		OTHER (SPECIFY):	
		MONITORING WELL		23. SIGNATURE OF INSPECTOR: J. McDougall	
19. TOTAL NUMBER OF CORE BOXES: NA		21. TOTAL CORE RECOVERY: NA			
LOCATION SKETCH/COMMENTS: Building DA-6					
SCALE: NONE					
Hand-drawn location sketch on a grid. The sketch shows Building DA-6 and various sampling points (LL2-080 to LL2-086) with coordinates and distances. Key data points from the sketch include: - LL2-081: 1009.34 TOC, 561538.40 N, 2374210.35 E, 7/4/02 - LL2-082: 1009.43 TOC, 561518.53 N, 2374220.79 E, 7/4/02 - LL2-083: 1009.18 TOC, 561446.05 N, 237410.32 E, 7/4/02 - LL2-084: 1009.18 TOC, 561446.05 N, 237410.32 E, 7/4/02 - LL2-085: 1009.18 TOC, 561446.05 N, 237410.32 E, 7/4/02 - LL2-086: 1009.18 TOC, 561446.05 N, 237410.32 E, 7/4/02					
PROJECT: RVAAP, Load Line 2 Phase II RI		HOLE NUMBER NA			

LL2-080, 081, 082, 083, 084, 085, 086

HTRW DRILLING LOG		DISTRICT: Louisville		HOLE NUMBER LL2-094	
1. COMPANY NAME: SAIC		2. DRILL SUBCONTRACTOR: NA		SHEET 1 OF 1	
3. PROJECT: RVAAP, Load Line 2 Phase II RI			4. LOCATION: LL2		
5. NAME OF DRILLER: N/A			5. MANUFACTURERS DESIGNATION OF DRILL: N/A		
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT		8. HOLE LOCATION: EAST SIDE (RAILROAD SIDE) OF DA-21			
3" SS AUGER W/ EXTENSION SS BOWL SS SPIN SPOON 226 ft		9. SURFACE ELEVATION: N/A			
		10. DATE STARTED: 07/26/01		11. DATE COMPLETED: 07/26/01	
12. OVERBURDEN THICKNESS: N/A		15. DEPTH GROUNDWATER ENCOUNTERED: N/A			
13. DEPTH DRILLED INTO ROCK: N/A		16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED: N/A			
14. TOTAL DEPTH OF HOLE: 0-		17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): N/A			
18. GEOTECHNICAL SAMPLES		DISTURBED		UNDISTURBED	
20. SAMPLES FOR CHEMICAL ANALYSIS		VAC		METALS	
		X		OTHER (SPECIFY) PCBs	
22. DISPOSITION OF HOLE		BACKFILLED		MONITORING WELL	
		Bentonite		NA	
				19. TOTAL NUMBER OF CORE BOXES: N/A	
				OTHER (SPECIFY) X	
				OTHER (SPECIFY) X	
				21. TOTAL CORE RECOVERY: N/A	
				23. SIGNATURE OF INSPECTOR: B. Williams	
LOCATION SKETCH/COMMENTS					
SCALE: NOT TO SCALE					
LL2-094 1009.04 TDC 561946.03 N L2P 2374091.38 E 2/4/02 DA-21 ↑ TO DA-7 RAILROAD VAD N 094					
PROJECT: RVAAP, Load Line 2 Phase II RI				HOLE NUMBER: LL2-094	

CR 10-1802
LL2-095

57

HTRW DRILLING LOG		DISTRICT: Louisville		HOLE NUMBER 11/A	
1. COMPANY NAME: SAIC		2. DRILL SUBCONTRACTOR: NA		SHEET 1 OF 1	
3. PROJECT: RVAAP, Load Line 2 Phase II RI			4. LOCATION: near building D-6A		
5. NAME OF DRILLER: SAIC			5. MANUFACTURERS DESIGNATION OF DRILL: NH		
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT		3" Bucket auger			
		8. HOLE LOCATION: LL2			
		9. SURFACE ELEVATION: NA			
		10. DATE STARTED: 7/26/01		11. DATE COMPLETED: 7/26/01	
12. OVERBURDEN THICKNESS NA		15. DEPTH GROUNDWATER ENCOUNTERED: N/A			
13. DEPTH DRILLED INTO ROCK NA		16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED: NA			
14. TOTAL DEPTH OF HOLE NA		17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): NA			
18. GEOTECHNICAL SAMPLES		DISTURBED		UNDISTURBED	
20. SAMPLES FOR CHEMICAL ANALYSIS		VOC		OTHER (SPECIFY)	
		X			
22. DISPOSITION OF HOLE		BACKFILLED		MONITORING WELL	
				23. SIGNATURE OF INSPECTOR	
				21. TOTAL CORE RECOVERY N/A	

LOCATION SKETCH/COMMENTS

SCALE: NONE

LL2-087
100811.70C
561147.59N
2374455.69E

LL2-090
100877.70C
561876.10N
237442.57E

MAP ON PAGE
#13 LOCATIONS
OF LL2-083, 090, 093, 097

LL2-095
100847.370C
560547.13N
2374781.83E

LL2-099
10087.90C
56052.92N
2374238.14E

LL2-092
10087.5370C
560493.05N
237424571E

DA-5

WALKWAY

PROJECT: RVAAP, Load Line 2 Phase II RI

HOLE NUMBER: NA

HTRW DRILLING LOG		DISTRICT: Louisville		HOLE NUMBER LL2-097, 096	
1. COMPANY NAME: SAIC		2. DRILL SUBCONTRACTOR: NA		SHEET 1 OF 1	
3. PROJECT: RVAAP, Load Line 2 Phase II RI			4. LOCATION: LL2		
5. NAME OF DRILLER: N/A			6. MANUFACTURERS DESIGNATION OF DRILL: N/A		
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT		8. HOLE LOCATION:			
5" S S AUGER W/ EXTENSION		SETTLING POND EAST OF DB-10 AND WEST OF DA-21			
SS BOWL		9. SURFACE ELEVATION: N/A			
SS SPOON		10. DATE STARTED: 6/26/01			
		11. DATE COMPLETED: 6/26/01			
12. OVERBURDEN THICKNESS: N/A			13. DEPTH GROUNDWATER ENCOUNTERED: N/A		
14. DEPTH DRILLED INTO ROCK: N/A			15. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED: N/A		
16. TOTAL DEPTH OF HOLE: 0-			17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): N/A		
18. GEOTECHNICAL SAMPLES		DISTURBED		UNDISTURBED	
20. SAMPLES FOR CHEMICAL ANALYSIS		21. TOTAL CORE RECOVERY		22. SIGNATURE OF INSPECTOR	
097 VAC FOR 096 - SEE TASK ACTIVITY 098 X 099 X 100 X 101 X 102 X 103 X 104 X 105 X 106 X 107 X 108 X 109 X 110 X 111 X 112 X 113 X 114 X 115 X 116 X 117 X 118 X 119 X 120 X 121 X 122 X 123 X 124 X 125 X 126 X 127 X 128 X 129 X 130 X 131 X 132 X 133 X 134 X 135 X 136 X 137 X 138 X 139 X 140 X 141 X 142 X 143 X 144 X 145 X 146 X 147 X 148 X 149 X 150 X 151 X 152 X 153 X 154 X 155 X 156 X 157 X 158 X 159 X 160 X 161 X 162 X 163 X 164 X 165 X 166 X 167 X 168 X 169 X 170 X 171 X 172 X 173 X 174 X 175 X 176 X 177 X 178 X 179 X 180 X 181 X 182 X 183 X 184 X 185 X 186 X 187 X 188 X 189 X 190 X 191 X 192 X 193 X 194 X 195 X 196 X 197 X 198 X 199 X 200 X 201 X 202 X 203 X 204 X 205 X 206 X 207 X 208 X 209 X 210 X 211 X 212 X 213 X 214 X 215 X 216 X 217 X 218 X 219 X 220 X 221 X 222 X 223 X 224 X 225 X 226 X 227 X 228 X 229 X 230 X 231 X 232 X 233 X 234 X 235 X 236 X 237 X 238 X 239 X 240 X 241 X 242 X 243 X 244 X 245 X 246 X 247 X 248 X 249 X 250 X 251 X 252 X 253 X 254 X 255 X 256 X 257 X 258 X 259 X 260 X 261 X 262 X 263 X 264 X 265 X 266 X 267 X 268 X 269 X 270 X 271 X 272 X 273 X 274 X 275 X 276 X 277 X 278 X 279 X 280 X 281 X 282 X 283 X 284 X 285 X 286 X 287 X 288 X 289 X 290 X 291 X 292 X 293 X 294 X 295 X 296 X 297 X 298 X 299 X 300 X 301 X 302 X 303 X 304 X 305 X 306 X 307 X 308 X 309 X 310 X 311 X 312 X 313 X 314 X 315 X 316 X 317 X 318 X 319 X 320 X 321 X 322 X 323 X 324 X 325 X 326 X 327 X 328 X 329 X 330 X 331 X 332 X 333 X 334 X 335 X 336 X 337 X 338 X 339 X 340 X 341 X 342 X 343 X 344 X 345 X 346 X 347 X 348 X 349 X 350 X 351 X 352 X 353 X 354 X 355 X 356 X 357 X 358 X 359 X 360 X 361 X 362 X 363 X 364 X 365 X 366 X 367 X 368 X 369 X 370 X 371 X 372 X 373 X 374 X 375 X 376 X 377 X 378 X 379 X 380 X 381 X 382 X 383 X 384 X 385 X 386 X 387 X 388 X 389 X 390 X 391 X 392 X 393 X 394 X 395 X 396 X 397 X 398 X 399 X 400 X 401 X 402 X 403 X 404 X 405 X 406 X 407 X 408 X 409 X 410 X 411 X 412 X 413 X 414 X 415 X 416 X 417 X 418 X 419 X 420 X 421 X 422 X 423 X 424 X 425 X 426 X 427 X 428 X 429 X 430 X 431 X 432 X 433 X 434 X 435 X 436 X 437 X 438 X 439 X 440 X 441 X 442 X 443 X 444 X 445 X 446 X 447 X 448 X 449 X 450 X 451 X 452 X 453 X 454 X 455 X 456 X 457 X 458 X 459 X 460 X 461 X 462 X 463 X 464 X 465 X 466 X 467 X 468 X 469 X 470 X 471 X 472 X 473 X 474 X 475 X 476 X 477 X 478 X 479 X 480 X 481 X 482 X 483 X 484 X 485 X 486 X 487 X 488 X 489 X 490 X 491 X 492 X 493 X 494 X 495 X 496 X 497 X 498 X 499 X 500 X 501 X 502 X 503 X 504 X 505 X 506 X 507 X 508 X 509 X 510 X 511 X 512 X 513 X 514 X 515 X 516 X 517 X 518 X 519 X 520 X 521 X 522 X 523 X 524 X 525 X 526 X 527 X 528 X 529 X 530 X 531 X 532 X 533 X 534 X 535 X 536 X 537 X 538 X 539 X 540 X 541 X 542 X 543 X 544 X 545 X 546 X 547 X 548 X 549 X 550 X 551 X 552 X 553 X 554 X 555 X 556 X 557 X 558 X 559 X 560 X 561 X 562 X 563 X 564 X 565 X 566 X 567 X 568 X 569 X 570 X 571 X 572 X 573 X 574 X 575 X 576 X 577 X 578 X 579 X 580 X 581 X 582 X 583 X 584 X 585 X 586 X 587 X 588 X 589 X 590 X 591 X 592 X 593 X 594 X 595 X 596 X 597 X 598 X 599 X 600 X 601 X 602 X 603 X 604 X 605 X 606 X 607 X 608 X 609 X 610 X 611 X 612 X 613 X 614 X 615 X 616 X 617 X 618 X 619 X 620 X 621 X 622 X 623 X 624 X 625 X 626 X 627 X 628 X 629 X 630 X 631 X 632 X 633 X 634 X 635 X 636 X 637 X 638 X 639 X 640 X 641 X 642 X 643 X 644 X 645 X 646 X 647 X 648 X 649 X 650 X 651 X 652 X 653 X 654 X 655 X 656 X 657 X 658 X 659 X 660 X 661 X 662 X 663 X 664 X 665 X 666 X 667 X 668 X 669 X 670 X 671 X 672 X 673 X 674 X 675 X 676 X 677 X 678 X 679 X 680 X 681 X 682 X 683 X 684 X 685 X 686 X 687 X 688 X 689 X 690 X 691 X 692 X 693 X 694 X 695 X 696 X 697 X 698 X 699 X 700 X 701 X 702 X 703 X 704 X 705 X 706 X 707 X 708 X 709 X 710 X 711 X 712 X 713 X 714 X 715 X 716 X 717 X 718 X 719 X 720 X 721 X 722 X 723 X 724 X 725 X 726 X 727 X 728 X 729 X 730 X 731 X 732 X 733 X 734 X 735 X 736 X 737 X 738 X 739 X 740 X 741 X 742 X 743 X 744 X 745 X 746 X 747 X 748 X 749 X 750 X 751 X 752 X 753 X 754 X 755 X 756 X 757 X 758 X 759 X 760 X 761 X 762 X 763 X 764 X 765 X 766 X 767 X 768 X 769 X 770 X 771 X 772 X 773 X 774 X 775 X 776 X 777 X 778 X 779 X 780 X 781 X 782 X 783 X 784 X 785 X 786 X 787 X 788 X 789 X 790 X 791 X 792 X 793 X 794 X 795 X 796 X 797 X 798 X 799 X 800 X 801 X 802 X 803 X 804 X 805 X 806 X 807 X 808 X 809 X 810 X 811 X 812 X 813 X 814 X 815 X 816 X 817 X 818 X 819 X 820 X 821 X 822 X 823 X 824 X 825 X 826 X 827 X 828 X 829 X 830 X 831 X 832 X 833 X 834 X 835 X 836 X 837 X 838 X 839 X 840 X 841 X 842 X 843 X 844 X 845 X 846 X 847 X 848 X 849 X 850 X 851 X 852 X 853 X 854 X 855 X 856 X 857 X 858 X 859 X 860 X 861 X 862 X 863 X 864 X 865 X 866 X 867 X 868 X 869 X 870 X 871 X 872 X 873 X 874 X 875 X 876 X 877 X 878 X 879 X 880 X 881 X 882 X 883 X 884 X 885 X 886 X 887 X 888 X 889 X 890 X 891 X 892 X 893 X 894 X 895 X 896 X 897 X 898 X 899 X 900 X 901 X 902 X 903 X 904 X 905 X 906 X 907 X 908 X 909 X 910 X 911 X 912 X 913 X 914 X 915 X 916 X 917 X 918 X 919 X 920 X 921 X 922 X 923 X 924 X 925 X 926 X 927 X 928 X 929 X 930 X 931 X 932 X 933 X 934 X 935 X 936 X 937 X 938 X 939 X 940 X 941 X 942 X 943 X 944 X 945 X 946 X 947 X 948 X 949 X 950 X 951 X 952 X 953 X 954 X 955 X 956 X 957 X 958 X 959 X 960 X 961 X 962 X 963 X 964 X 965 X 966 X 967 X 968 X 969 X 970 X 971 X 972 X 973 X 974 X 975 X 976 X 977 X 978 X 979 X 980 X 981 X 982 X 983 X 984 X 985 X 986 X 987 X 988 X 989 X 990 X 991 X 992 X 993 X 994 X 995 X 996 X 997 X 998 X 999 X 1000 X		097 VAC FOR 096 - SEE TASK ACTIVITY 098 X 099 X 100 X 101 X 102 X 103 X 104 X 105 X 106 X 107 X 108 X 109 X 110 X 111 X 112 X 113 X 114 X 115 X 116 X 117 X 118 X 119 X 120 X 121 X 122 X 123 X 124 X 125 X 126 X 127 X 128 X 129 X 130 X 131 X 132 X 133 X 134 X 135 X 136 X 137 X 138 X 139 X 140 X 141 X 142 X 143 X 144 X 145 X 146 X 147 X 148 X 149 X 150 X 151 X 152 X 153 X 154 X 155 X 156 X 157 X 158 X 159 X 160 X 161 X 162 X 163 X 164 X 165 X 166 X 167 X 168 X 169 X 170 X 171 X 172 X 173 X 174 X 175 X 176 X 177 X 178 X 179 X 180 X 181 X 182 X 183 X 184 X 185 X 186 X 187 X 188 X 189 X 190 X 191 X 192 X 193 X 194 X 195 X 196 X 197 X 198 X 199 X 200 X 201 X 202 X 203 X 204 X 205 X 206 X 207 X 208 X 209 X 210 X 211 X 212 X 213 X 214 X 215 X 216 X 217 X 218 X 219 X 220 X 221 X 222 X 223 X 224 X 225 X 226 X 227 X 228 X 229 X 230 X 231 X 232 X 233 X 234 X 235 X 236 X 237 X 238 X 239 X 240 X 241 X 242 X 243 X 244 X 245 X 246 X 247 X 248 X 249 X 250 X 251 X 252 X 253 X 254 X 255 X 256 X 257 X 258 X 259 X 260 X 261 X 262 X 263 X 264 X 265 X 266 X 267 X 268 X 269 X 270 X 271 X 272 X 273 X 274 X 275 X 276 X 277 X 278 X 279 X 280 X 281 X 282 X 283 X 284 X 285 X 286 X 287 X 288 X 289 X 290 X 291 X 292 X 293 X 294 X 295 X 296 X 297 X 298 X 299 X 300 X 301 X 302 X 303 X 304 X 305 X 306 X 307 X 308 X 309 X 310 X 311 X 312 X 313 X 314 X 315 X 316 X 317 X 318 X 319 X 320 X 321 X 322 X 323 X 324 X 325 X 326 X 327 X 328 X 329 X 330 X 331 X 332 X 333 X 334 X 335 X 336 X 337 X 338 X 339 X 340 X 341 X 342 X 343 X 344 X 345 X 346 X 347 X 348 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HTRW DRILLING LOG		DISTRICT: Louisville		HOLE NUMBER 102, 100, 101	
1. COMPANY NAME: SAIC		2. DRILL SUBCONTRACTOR: NA		SHEET 1 OF 6	
3. PROJECT: RVAAP, Load Line 2 Phase II RI			4. LOCATION: LL2 Bldgs DB13		
5. NAME OF DRILLER: Ty Grivat			6. MANUFACTURERS DESIGNATION OF DRILL: N/A		
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT basket auger		9. HOLE LOCATION: LL2-102, 101, 100			
SU 811/01		9. SURFACE ELEVATION: N/A			
12. OVERBURDEN THICKNESS: N/A		15. DEPTH GROUNDWATER ENCOUNTERED: N/A			
13. DEPTH DRILLED INTO ROCK: N/A		16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED: N/A			
14. TOTAL DEPTH OF HOLE: N/A		17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): N/A			

18. GEOTECHNICAL SAMPLES		DISTURBED		UNDISTURBED		19. TOTAL NUMBER OF CORE BOXES	
20. SAMPLES FOR CHEMICAL ANALYSIS		VOC		METALS		OTHER (SPECIFY)	
See activity log							
22. DISPOSITION OF HOLE		BACKFILLED		MONITORING WELL		OTHER (SPECIFY)	
						21. TOTAL CORE RECOVERY %	

LOCATION SKETCH/COMMENTS

SCALE: NTS

LL2-100
10089.27 TOC
562397.25N
2372968.50E

LL2-101
10089.45 TOC
562559.94 N
2372870.47E

LL2-102
10089.43 TOC
562559.43 N
2372968.13E

DB13 DB13B

PROJECT RVAAP, Load Line 2 Phase II RI

HOLE NUMBER 102, 100, 101

LL2-103
 LL2-104
 LL2-105
 LL2-217
 LL2-105
 LL2-108
 KZP
 2/4/82
 LL2-107

HTRW DRILLING LOG		DISTRICT: Louisville		HOLE NUMBER: LL2-109, 178	
1. COMPANY NAME: SAIC		2. DRILL SUBCONTRACTOR: NA		SHEET 1 OF 1	
3. PROJECT: RVAAP, Load Line 2 Phase II RI			4. LOCATION: LL2		
5. NAME OF DRILLER: N/A			6. MANUFACTURERS DESIGNATION OF DRILL: NA		
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT		8. HOLE LOCATION: 109: NE OF BLDG. DB-2			
3" SS AUGER W/ EXTENSION		9. SURFACE ELEVATION: N/A			
SS BOWL		10. DATE STARTED:			
SS SPOON		11. DATE COMPLETED:			
12. OVERBURDEN THICKNESS: N/A			15. DEPTH GROUNDWATER ENCOUNTERED: N/A		
13. DEPTH DRILLED INTO ROCK: N/A			16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED: N/A		
14. TOTAL DEPTH OF HOLE: 0-			17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): N/A		
18. GEOTECHNICAL SAMPLES		DISTURBED		UNDISTURBED	
20. SAMPLES FOR CHEMICAL ANALYSIS		VOC		METALS	
22. DISPOSITION OF HOLE		BACKFILLED		MONITORING WELL	
Bentonite		NA		OTHER (SPECIFY)	
19. TOTAL NUMBER OF CORE BOXES: N/A		21. TOTAL CORE RECOVERY: N/A		23. SIGNATURE OF INSPECTOR: B. Williams	
LOCATION SKETCH/COMMENTS: SEE ALSO PAGE 94 (LL2-176, 188, 175, 113, 177) OF LOGBOOK: "LOAD LINE 2; SOIL SAMPLING; LOGBOOK #3" SCALE: NOT TO SCALE					
PROJECT: RVAAP, Load Line 2 Phase II RI				HOLE NUMBER: LL2-109, 178	

LL2-110, 186, 187, 189 ce 91

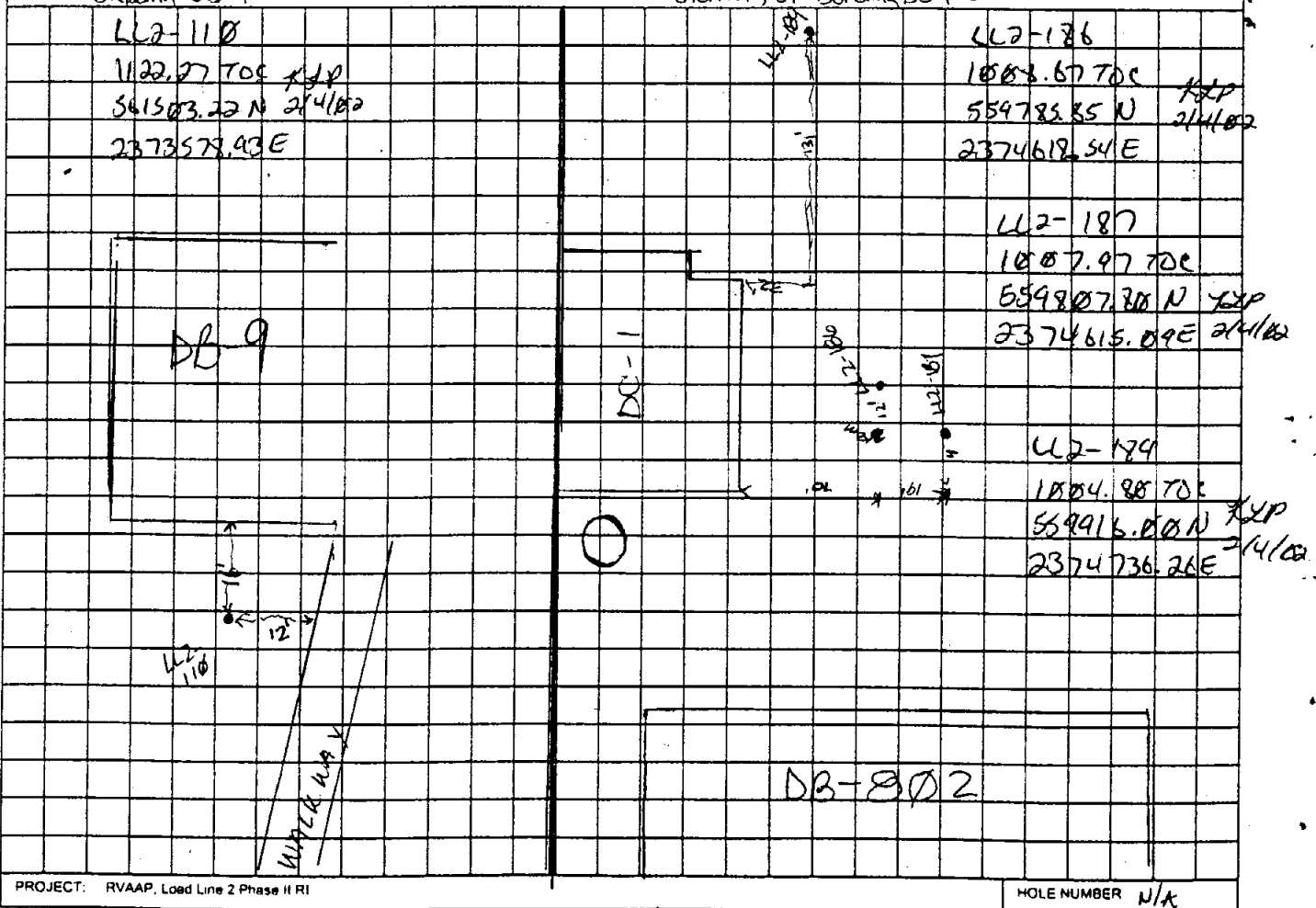
HTRW DRILLING LOG		DISTRICT: Louisville		HOLE NUMBER N/A	
1. COMPANY NAME: SAIC		2. DRILL SUBCONTRACTOR: NA		SHEET L of 1	
3. PROJECT: RVAAP, Load Line 2 Phase II RI			4. LOCATION: <u>LOAD LINE 2</u>		
5. NAME OF DRILLER: <u>SAIC</u>			6. MANUFACTURERS DESIGNATION OF DRILL: <u>N/A</u>		
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT: <u>3" (1.0) SS HAND AUGER</u>			8. HOLE LOCATION: <u>LL2</u>		
SAIC 8/1/01			9. SURFACE ELEVATION: <u>NA</u>		
			10. DATE STARTED: <u>7/20/01</u>		11. DATE COMPLETED:
12. OVERBURDEN THICKNESS: <u>N/A</u>			15. DEPTH GROUNDWATER ENCOUNTERED: <u>NA</u>		
13. DEPTH DRILLED INTO ROCK: <u>N/A</u>			16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED: <u>NA</u>		
14. TOTAL DEPTH OF HOLE: <u>N/A</u>			17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): <u>NA</u>		
18. GEOTECHNICAL SAMPLES		DISTURBED		UNDISTURBED	
20. SAMPLES FOR CHEMICAL ANALYSIS		VOC		OTHER (SPECIFY)	
				<u>VARIOUS</u>	
22. DISPOSITION OF HOLE		BACKFILLED		MONITORING WELL	
				OTHER (SPECIFY)	
				23. SIGNATURE OF INSPECTOR: <u>[Signature]</u>	
19. TOTAL NUMBER OF CORE BOXES: <u>N/A</u>		21. TOTAL CORE RECOVERED: <u>N/A</u>			

LOCATION SKETCH/COMMENTS

Building DB-9

SCALE: NONE

Vicinity of Building DC-1 a



PROJECT: RVAAP, Load Line 2 Phase II RI

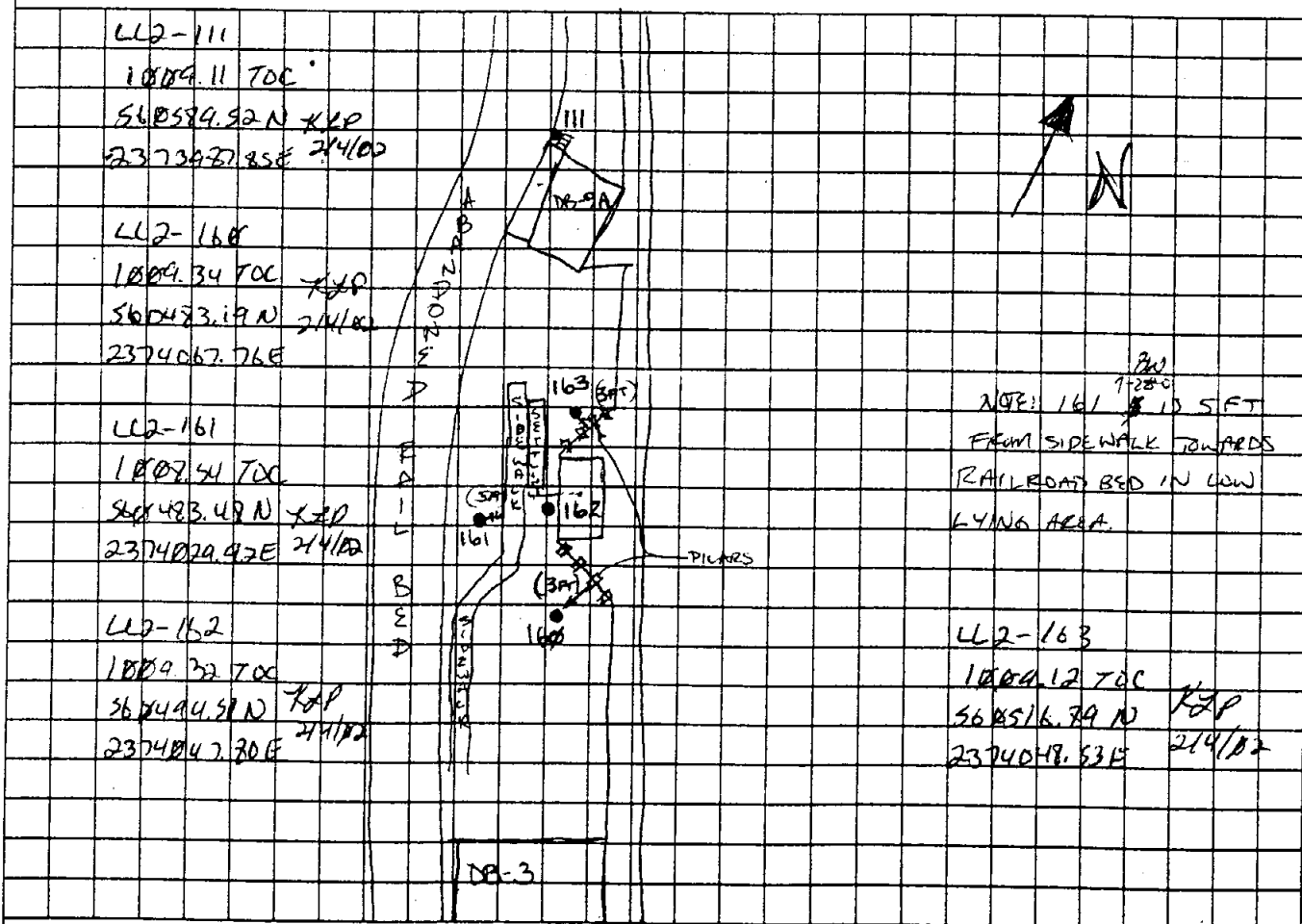
HOLE NUMBER N/A

115

HTRW DRILLING LOG		DISTRICT: Louisville		HOLE NUMBER LL2-161, 162, 163, 111	
1. COMPANY NAME: SAIC		2. DRILL SUBCONTRACTOR: NA		SHEET 1 OF 1	
3. PROJECT: RVAAP, Load Line 2 Phase II RI			4. LOCATION: LL2		
5. NAME OF DRILLER: N/A			6. MANUFACTURERS DESIGNATION OF DRILL: N/A		
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT		8. HOLE LOCATION:			
3" SS AUGER W/ EXTENSION		SETTLING BASIN BETWEEN DB-3 AND DB-9A			
SS BOWL		9. SURFACE ELEVATION: N/A			
SS SPONG		10. DATE STARTED: 7/27/01			
		11. DATE COMPLETED:			
12. OVERBURDEN THICKNESS: N/A		15. DEPTH GROUNDWATER ENCOUNTERED: N/A			
13. DEPTH DRILLED INTO ROCK: N/A		16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED: N/A			
14. TOTAL DEPTH OF HOLE: 6-		17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): N/A			
18. GEOTECHNICAL SAMPLES		DISTURBED		UNDISTURBED	
20. SAMPLES FOR CHEMICAL ANALYSIS		VOC		METALS	
SEE ANALYTICAL PARAMETERS ON SPECIFIC BORING LOGS AND ACTIVITY LOG SHEET		OTHER (SPECIFY)		OTHER (SPECIFY)	
22. DISPOSITION OF HOLE		BACKFILLED		MONITORING WELL	
Bentonite		NA		OTHER (SPECIFY)	
				23. SIGNATURE OF INSPECTOR: B. Williams	
19. TOTAL NUMBER OF CORE BOXES: N/A		21. TOTAL CORE RECOVERY: N/A %			

LOCATION SKETCH/COMMENTS

SCALE: NOT TO SCALE



PROJECT: RVAAP, Load Line 2 Phase II RI

A-23

HOLE NUMBER LL2-161, 162, 163, 111

34

HTRW DRILLING LOG		DISTRICT: Louisville		CR 11-02 112, 215, 216, 217		HOLE NUMBER	
1. COMPANY NAME: SAIC		2. DRILL SUBCONTRACTOR: NA		SHEET 1 OF 6		NA 8/10	
3. PROJECT: RVAAP, Load Line 2 Phase II RI				4. LOCATION: DB10 & DB9			
5. NAME OF DRILLER: Ty				6. MANUFACTURERS DESIGNATION OF DRILL: N/A			
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT: 55. Type powered bucket auger				8. HOLE LOCATION: LL2			
9. SURFACE ELEVATION:				10. DATE STARTED: 7/27/01			
11. DATE COMPLETED:				12. OVERBURDEN THICKNESS: N/A			
13. DEPTH DRILLED INTO ROCK: N/A				15. DEPTH GROUNDWATER ENCOUNTERED: N/A			
14. TOTAL DEPTH OF HOLE: N/A				16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED: N/A			
17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): NA				18. GEOTECHNICAL SAMPLES			
DISTURBED		UNDISTURBED		19. TOTAL NUMBER OF CORE BOXES		21. TOTAL CORE RECOVERY %	
20. SAMPLES FOR CHEMICAL ANALYSIS: See activity log		VOC		METALS		OTHER (SPECIFY)	
22. DISPOSITION OF HOLE: BACKFILLED		MONITORING WELL		OTHER (SPECIFY)		23. SIGNATURE OF INSPECTOR: [Signature]	

LOCATION SKETCH/COMMENTS

SCALE: NTS

LL2-112
1009.50 TOC
562161.28 N KXP
23730.93 E 2/4/02

LL2-107
1009.16 TOC
562279.26 N KXP
23730.32.23 E 2/4/02

LL2-217
1009.05 TOC
562519.33 N KXP
23724.73.97 E 2/4/02

LL2-216
1137.96 TOC
56176.9.98 N KXP
23730.93.03 E 2/4/02

LL2-215
1127.99 TOC KXP
56151.58 N 2/4/02
23730.93.38 E

LL2-215

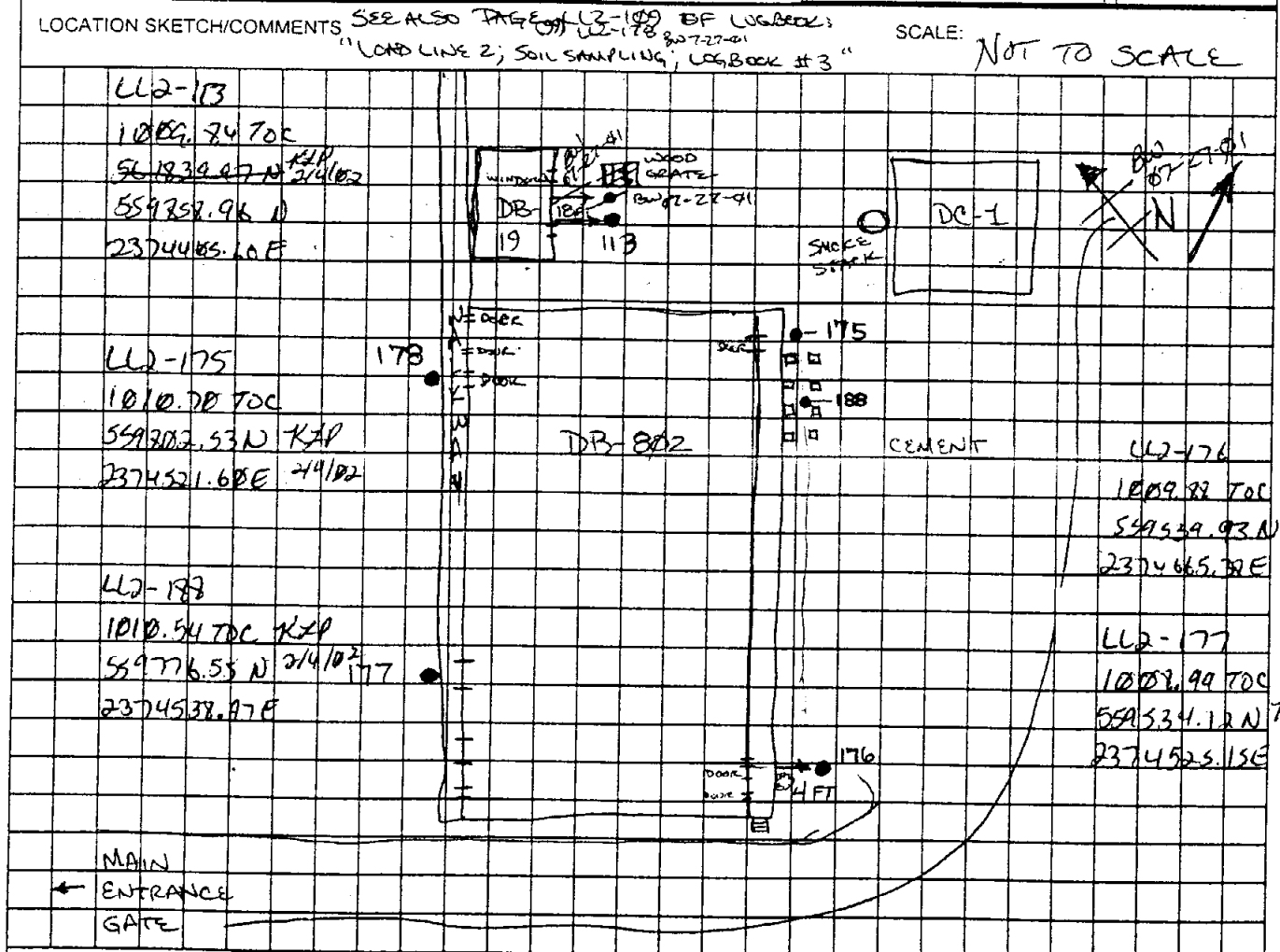
Bldg DB9

PROJECT RVAAP, Load Line 2 Phase II RI

HOLE NUMBER 215, 216, 217

91

HTRW DRILLING LOG		DISTRICT: Louisville		HOLE NUMBER LL2-176, 188, 175, 113, 177	
1. COMPANY NAME: SAIC		2. DRILL SUBCONTRACTOR: NA		SHEET 1 OF 1	
3. PROJECT: RVAAP, Load Line 2 Phase II RI			4. LOCATION: LL2		
5. NAME OF DRILLER: N/A			6. MANUFACTURERS DESIGNATION OF DRILL:		
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT SS BOWL SS SPOON 3" SS AUGER w/ EXTENSION		8. HOLE LOCATION: SE 20 7-27-01 176: SW OF DB-802; 188: NE OF DB-802; 175: NE OF DB-802			
			9. SURFACE ELEVATION: N/A		
			10. DATE STARTED: 8/27/01		11. DATE COMPLETED:
12. OVERBURDEN THICKNESS: N/A			15. DEPTH GROUNDWATER ENCOUNTERED: N/A		
13. DEPTH DRILLED INTO ROCK: N/A			16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED: N/A		
14. TOTAL DEPTH OF HOLE: 0-			17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): N/A		
18. GEOTECHNICAL SAMPLES		DISTURBED		UNDISTURBED	
20. SAMPLES FOR CHEMICAL ANALYSIS		VOC		OTHER (SPECIFY)	
		SEE BORING LOGS FOR ANALYSES			
22. DISPOSITION OF HOLE		BACKFILLED		MONITORING WELL	
		Bentonite		NA	
				23. SIGNATURE OF INSPECTOR: B.Williams	
19. TOTAL NUMBER OF CORE BOXES		21. TOTAL CORE RECOVERY			
		NA			



PROJECT: RVAAP, Load Line 2 Phase II RI	HOLE NUMBER: LL2-176, 188, 175, 113, 177
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HTRW DRILLING LOG		DISTRICT: Louisville		HOLE NUMBER	
1. COMPANY NAME: SAIC		2. DRILL SUBCONTRACTOR: NA		LL2-167, 166, 165, 114	
3. PROJECT: RVAAP, Load Line 2 Phase II RI		4. LOCATION: LL2		SHEET 1 OF 1	
5. NAME OF DRILLER: N/A		6. MANUFACTURERS DESIGNATION OF DRILL: N/A		164	
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT: 3" SS AUGER w/ EXTENSION SS BRACE SS SCREW		8. HOLE LOCATION: BUILDING DB-3 AND DB-24A			
		9. SURFACE ELEVATION: N/A			
		10. DATE STARTED: 6/27/01		11. DATE COMPLETED: 6/27/01	
12. OVERBURDEN THICKNESS: N/A		15. DEPTH GROUNDWATER ENCOUNTERED: N/A			
13. DEPTH DRILLED INTO ROCK: N/A		16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED: N/A			
14. TOTAL DEPTH OF HOLE: 0		17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): N/A			
18. GEOTECHNICAL SAMPLES		DISTURBED		UNDISTURBED	
19. TOTAL NUMBER OF CORE BOXES: N/A					
20. SAMPLES FOR CHEMICAL ANALYSIS: SEE BORING LOG FOR SPECIFIC ANALYSES AS WELL AS ACTIVITY LOG		VOC		METALS	
		OTHER (SPECIFY)		OTHER (SPECIFY)	
21. TOTAL CORE RECOVERY: N/A					
22. DISPOSITION OF HOLE: BACKFILLED Bentonite		MONITORING WELL: NA		OTHER (SPECIFY)	
		23. SIGNATURE OF INSPECTOR: B. Williams			
LOCATION SKETCH/COMMENTS				SCALE: NOT TO SCALE	
PROJECT: RVAAP, Load Line 2 Phase II RI					
HOLE NUMBER: LL2-167, 166, 165					

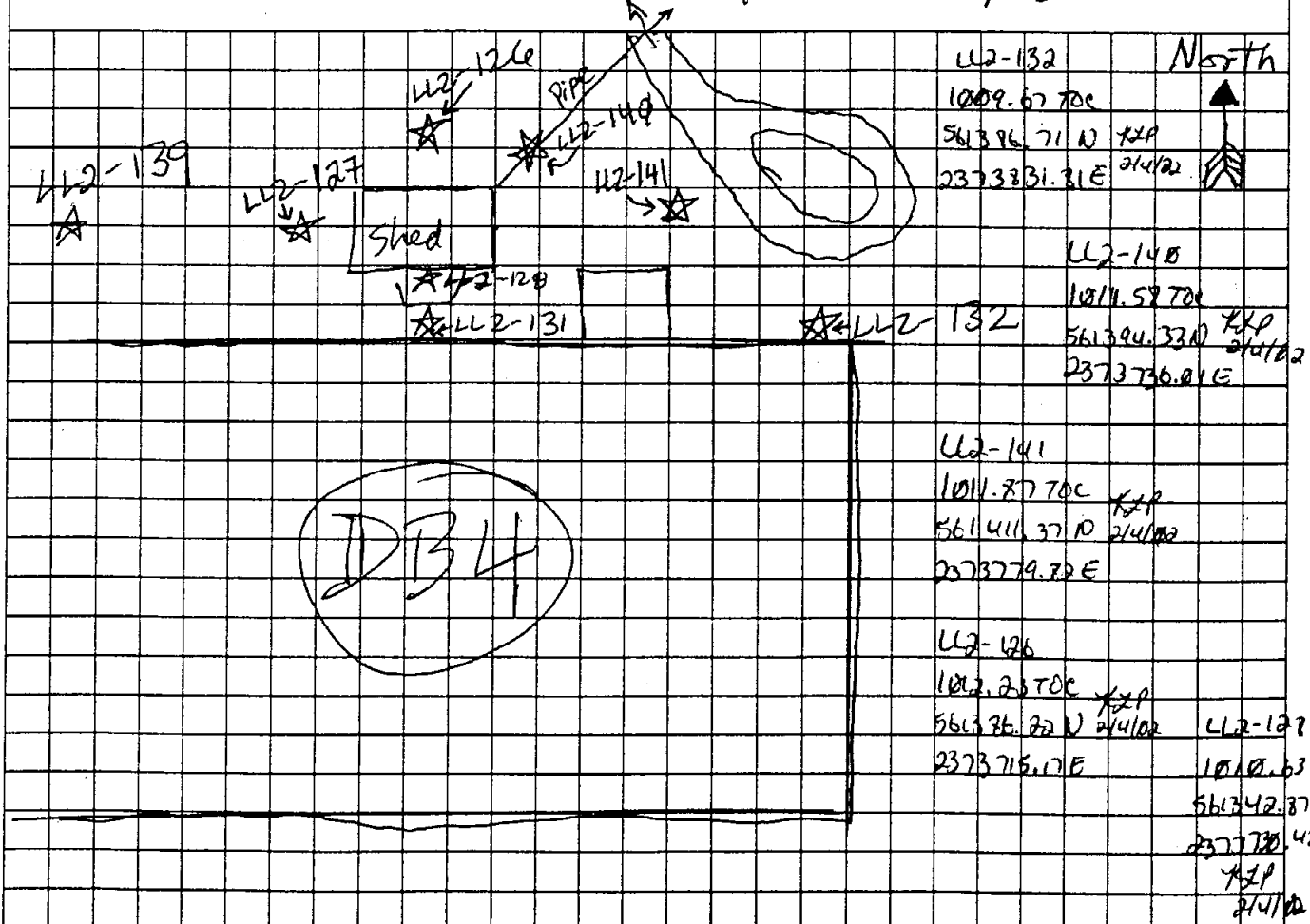
HTRW DRILLING LOG		DISTRICT: Louisville		CR 10-02	HOLE NUMBER NA
1. COMPANY NAME: SAIC		2. DRILL SUBCONTRACTOR: NA			SHEET 1 of 1
3. PROJECT: RVAAP, Load Line 2 Phase II RI			4. LOCATION: <i>Load line #2</i>		
5. NAME OF DRILLER: <i>SAIC</i>			6. MANUFACTURERS DESIGNATION OF DRILL:		
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT: <i>3" bucket auger</i>			8. HOLE LOCATION: <i>around building DB-10</i>		
<i>SL 8/1/01</i>			9. SURFACE ELEVATION: <i>NA</i>		
			10. DATE STARTED: <i>7/25/01</i>		
12. OVERBURDEN THICKNESS: <i>NA</i>			15. DEPTH GROUNDWATER ENCOUNTERED: <i>NA</i>		
13. DEPTH DRILLED INTO ROCK: <i>NA</i>			16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED: <i>NA</i>		
14. TOTAL DEPTH OF HOLE: <i>NA</i>			17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): <i>NA</i>		
18. GEOTECHNICAL SAMPLES		DISTURBED		UNDISTURBED	
20. SAMPLES FOR CHEMICAL ANALYSIS		VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)
		<i>X</i>	<i>X</i>	<i>ASPHALT</i>	
22. DISPOSITION OF HOLE		BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR
					<i>[Signature]</i>
19. TOTAL NUMBER OF CORE BOXES: <i>NA</i>			21. TOTAL CORE RECOVERY: <i>NA</i>		
LOCATION SKETCH/COMMENTS: <i>Building DB-10</i>			SCALE: <i>NONE</i>		
<i>LL2-117</i> <i>10813.29 TOC</i> <i>561896.08 N</i> <i>2373411.26 E</i> <i>LL2-118</i> <i>10809.69 TOC</i> <i>561760.44 N</i> <i>2373401.53 E</i> <i>LL2-119</i> <i>10810.33 TOC</i> <i>561777.21 N</i> <i>2373437.50 E</i> <i>4'</i> <i>LL2-115</i> <i>10809.20 TOC</i> <i>561839.5 N</i> <i>2373287.99 E</i> <i>DB-10</i> <i>LL2-118</i> <i>OVERHANG</i> <i>35'</i> <i>30'</i> <i>40'</i> <i>LL2-119</i> <i>LL2-117</i> <i>LL2-116</i> <i>10809.38 TOC</i> <i>561871.06 N</i> <i>2373333.59 E</i>					
PROJECT: RVAAP, Load Line 2 Phase II RI			HOLE NUMBER: <i>NA</i>		

HTRW DRILLING LOG		DISTRICT: Louisville		HOLE NUMBER
1. COMPANY NAME: SAIC		2. DRILL SUBCONTRACTOR: NA		SHEET 1 OF 1
3. PROJECT: RVAAP, Load Line 2 Phase II RI		4. LOCATION: LOAD LINE 2		
5. NAME OF DRILLER: SAIC		6. MANUFACTURERS DESIGNATION OF DRILL: N/A		
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT: 3" (ID) SS HAND (BUCKET) AUGER		8. HOLE LOCATION: AROUND OR IN BUILDING DB-10		
9. SURFACE ELEVATION: NA		10. DATE STARTED: 7/25/01		
11. DATE COMPLETED: 7/25/01		12. OVERBURDEN THICKNESS: N/A		
13. DEPTH DRILLED INTO ROCK: N/A		15. DEPTH GROUNDWATER ENCOUNTERED: NA		
14. TOTAL DEPTH OF HOLE: N/A		16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED: NA		
17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): NA		18. GEOTECHNICAL SAMPLES		
19. TOTAL NUMBER OF CORE BOXES		20. SAMPLES FOR CHEMICAL ANALYSIS		
21. TOTAL CORE RECOVERY: N/A		22. DISPOSITION OF HOLE		
23. SIGNATURE OF INSPECTOR: [Signature]		24. SCALE: NONE		
LOCATION SKETCH/COMMENTS: Building DB-10				
LL2-120 1009.62 TOC 561707.79 N 2373429.34 E LL2-121 1008.78 TOC 561650.29 N 2373421.89 E LL2-122 1137.47 TOC 561638.56 N 2373436.72 E				
PROJECT: RVAAP, Load Line 2 Phase II RI		HOLE NUMBER: NA		

HTRW DRILLING LOG		DISTRICT: Louisville		CK 10-02		HOLE NUMBER N/A	
1. COMPANY NAME: SAIC		2. DRILL SUBCONTRACTOR: NA				SHEET 1 OF 1	
3. PROJECT: RVAAP, Load Line 2 Phase II RI				4. LOCATION: Bldg. DB-3, DB-4, DB-10 area			
5. NAME OF DRILLER: NA				6. MANUFACTURERS DESIGNATION OF DRILL: n/a			
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT		35 spin and broom that has been de-conned		8. HOLE LOCATION: Bldg. DB-3, DB-4, DB-10 area			
				9. SURFACE ELEVATION: n/a			
				10. DATE STARTED: 8/24/01		11. DATE COMPLETED: 8/26/01	
12. OVERBURDEN THICKNESS: n/a				15. DEPTH GROUNDWATER ENCOUNTERED: n/a			
13. DEPTH DRILLED INTO ROCK: n/a				16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED: n/a			
14. TOTAL DEPTH OF HOLE: n/a				17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): n/a			
18. GEOTECHNICAL SAMPLES		DISTURBED		UNDISTURBED		19. TOTAL NUMBER OF CORE BOXES: n/a	
20. SAMPLES FOR CHEMICAL ANALYSIS		VOC		METALS		OTHER (SPECIFY)	
see text page							
22. DISPOSITION OF HOLE		BACKFILLED		MONITORING WELL		OTHER (SPECIFY)	
n/a							
				23. SIGNATURE OF INSPECTOR: Kathryn C. McLeod			
LOCATION SKETCH/COMMENTS				SCALE: NONE			
				3 sketches on one map #3			
PROJECT: RVAAP, Load Line 2 Phase II RI				HOLE NUMBER: N/A			

HTRW DRILLING LOG		DISTRICT: Louisville		HOLE NUMBER 132, 140, 141, 126, 128	
1. COMPANY NAME: SAIC		2. DRILL SUBCONTRACTOR: NA		SHEET 1 OF 6	
3. PROJECT: RVAAP, Load Line 2 Phase II R1			4. LOCATION: LL2 Bldg DB4		
5. NAME OF DRILLER: Ty Grivat			6. MANUFACTURERS DESIGNATION OF DRILL: N/A		
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT: SS bucket auger			8. HOLE LOCATION: Bldg DB4 LL2		
SM 8/1/07			9. SURFACE ELEVATION:		
12. OVERBURDEN THICKNESS: N/A			10. DATE STARTED: 7/26/01		
13. DEPTH DRILLED INTO ROCK: N/A			11. DATE COMPLETED: 7/26/01		
14. TOTAL DEPTH OF HOLE: N/A			15. DEPTH GROUNDWATER ENCOUNTERED: N/A		
			16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED: N/A		
18. GEOTECHNICAL SAMPLES: NA			19. TOTAL NUMBER OF CORE BOXES: NA		
20. SAMPLES FOR CHEMICAL ANALYSIS: see activity log			21. TOTAL CORE RECOVERY: %		
22. DISPOSITION OF HOLE: BACKFILLED			23. SIGNATURE OF INSPECTOR: Jimmy Proctor		

LOCATION SKETCH/COMMENTS



PROJECT: RVAAP, Load Line 2 Phase II R1	HOLE NUMBER: Bldg DB4
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HTRW DRILLING LOG		DISTRICT: Louisville		CR 11-02 127, 129, 130, 131	
1. COMPANY NAME: SAIC		2. DRILL SUBCONTRACTOR: NA		HOLE NUMBER 127, 129, 130, 131 SHEET 1 OF 6	
3. PROJECT: RVAAP, Load Line 2 Phase II RI			4. LOCATION: Bldg DB4, U2		
5. NAME OF DRILLER: T Grivat			6. MANUFACTURERS DESIGNATION OF DRILL: N/A		
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT Grivat-powered SS bucket auger			8. HOLE LOCATION: RR between DB4 & DB9		
See sketch			9. SURFACE ELEVATION: 649.81 TOC 561334.24N 2373734.44E 2/4/02		
			10. DATE STARTED: 7/26/01 11. DATE COMPLETED: 7/27/01		
12. OVERBURDEN THICKNESS: N/A			15. DEPTH GROUNDWATER ENCOUNTERED: N/A		
13. DEPTH DRILLED INTO ROCK: N/A			16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED: N/A		
14. TOTAL DEPTH OF HOLE: N/A			17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): N/A		
18. GEOTECHNICAL SAMPLES		DISTURBED		UNDISTURBED	
20. SAMPLES FOR CHEMICAL ANALYSIS		VOC		OTHER (SPECIFY)	
22. DISPOSITION OF HOLE		BACKFILLED		OTHER (SPECIFY)	
21. TOTAL CORE RECOVERY %		23. SIGNATURE OF INSPECTOR		24. SCALE: NTS	

LOCATION SKETCH/COMMENTS

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LL2-128, 132, 213, 214 CR 11-02

HTRW DRILLING LOG		DISTRICT: Louisville		HOLE NUMBER 213, 214			
1. COMPANY NAME: SAIC		2. DRILL SUBCONTRACTOR: NA		SHEET 1 of 6			
3. PROJECT: RVAAP, Load Line 2 Phase II RI			4. LOCATION: DB4, DB4A, DB9A, & DB3				
5. NAME OF DRILLER: 1 1/2 bucket auger			6. MANUFACTURERS DESIGNATION OF DRILL: N/A				
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT			8. HOLE LOCATION: RR tracks between DB4 & DB3				
SU 8 1/4" DI			9. SURFACE ELEVATION:				
			10. DATE STARTED: 7/27/01			11. DATE COMPLETED: 7/28/01	
			12. OVERBURDEN THICKNESS: N/A			15. DEPTH GROUNDWATER ENCOUNTERED: N/A	
13. DEPTH DRILLED INTO ROCK: N/A			16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED: N/A				
14. TOTAL DEPTH OF HOLE: N/A			17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): N/A				
18. GEOTECHNICAL SAMPLES		DISTURBED		UNDISTURBED			
20. SAMPLES FOR CHEMICAL ANALYSIS		VOC		METALS			
21. TOTAL CORE RECOVERY %		OTHER (SPECIFY)		OTHER (SPECIFY)			
22. DISPOSITION OF HOLE		BACKFILLED		MONITORING WELL			
		OTHER (SPECIFY)		23. SIGNATURE OF INSPECTOR			

LOCATION SKETCH/COMMENTS

SCALE: **NTS**

LL2-214
1041.07 TOC **KXP**
561047.35 N **2/4/02**
2373827.65 E

LL2-213
1049.05 TOC **KXP**
560344.33 N **2/4/02**
2374067.57 E

LL2-128
1049.67 TOC **KXP**
561336.71 N **2/4/02**
2373831.81 E

LL2-128
1010.63 TOC **KXP**
561342.87 N **2/4/02**
2373730.42 E

Bldg DB4

Bldg DB4A

Bldg DB9A

Bldg DB3

North

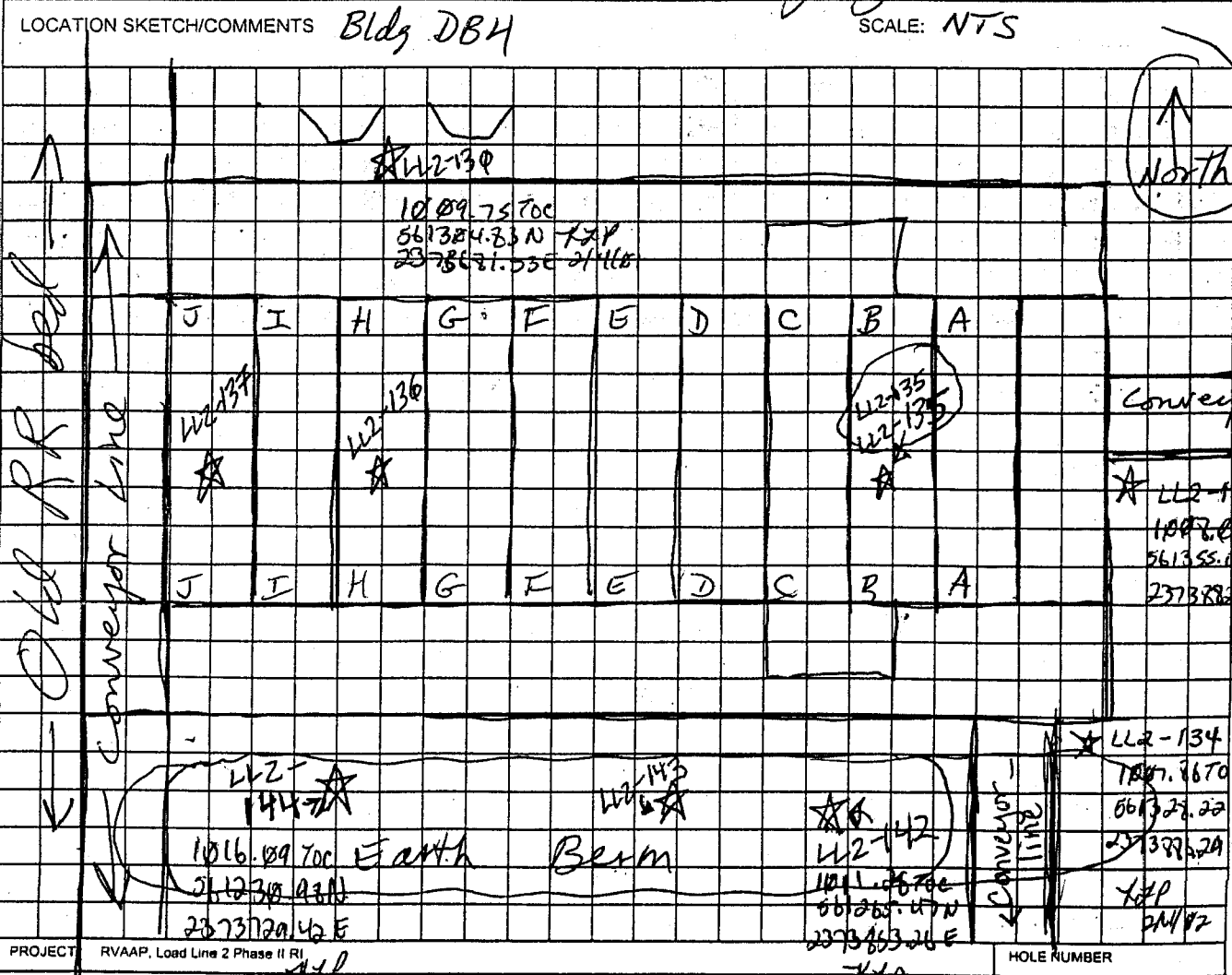
PROJECT: RVAAP, Load Line 2 Phase II RI		HOLE NUMBER	
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A-32

LL2-128, 132, 213, 214 CR 11-02

CR 11-97 135, 136 50
SH 133, 134, 135, 136
137, 142, 143, 144, 137.

HTRW DRILLING LOG		DISTRICT: Louisville		HOLE NUMBERS 133, 134, 135, 136	
1. COMPANY NAME: SAIC		2. DRILL SUBCONTRACTOR: NA		SHEET 1 OF 6	
3. PROJECT: RVAAP, Load Line 2 Phase II RI			4. LOCATION: Bldg DB4		
5. NAME OF DRILLER: Ty			6. MANUFACTURERS DESIGNATION OF DRILL:		
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT 55 bucket auger powered by a raging Cajun			8. HOLE LOCATION: LL2		
SU 8/1/02			9. SURFACE ELEVATION: 1013.31 TOC 561261.47 N 2373725.61 E 2/14/02		
10. DATE STARTED: 7/28/01			11. DATE COMPLETED:		
12. OVERBURDEN THICKNESS: N/A			15. DEPTH GROUNDWATER ENCOUNTERED: N/A		
13. DEPTH DRILLED INTO ROCK: N/A			16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED: N/A		
14. TOTAL DEPTH OF HOLE: N/A			17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): N/A		
18. GEOTECHNICAL SAMPLES		DISTURBED		UNDISTURBED	
19. TOTAL NUMBER OF CORE BOXES		20. SAMPLES FOR CHEMICAL ANALYSIS		21. TOTAL CORE RECOVERY %	
See activity log		VOC		METALS	
22. DISPOSITION OF HOLE		BACKFILLED		MONITORING WELL	
23. SIGNATURE OF INSPECTOR		OTHER (SPECIFY)		OTHER (SPECIFY)	
Jimmy Botun		OTHER (SPECIFY)		OTHER (SPECIFY)	



LL2-145, 146, 147, 153, 154, 155, 156, 157

CR 10-02

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HTRW DRILLING LOG		DISTRICT: Louisville		HOLE NUMBER N/A	
1. COMPANY NAME: SAIC		2. DRILL SUBCONTRACTOR: NA		SHEET 1 OF 1	
3. PROJECT: RVAAP, Load Line 2 Phase II RI			4. LOCATION: LOAD LINE 2		
5. NAME OF DRILLER: SAIC			6. MANUFACTURERS DESIGNATION OF DRILL: N/A		
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT: 3" (110) SS HAND ROVER			8. HOLE LOCATION: VICINITY OF BUILDING DB-4A		
SAIC 8/1/01			9. SURFACE ELEVATION: NA		
			10. DATE STARTED: 7/27/01		11. DATE COMPLETED:
12. OVERBURDEN THICKNESS: N/A			15. DEPTH GROUNDWATER ENCOUNTERED: NA		
13. DEPTH DRILLED INTO ROCK: N/A			16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED: NA		
14. TOTAL DEPTH OF HOLE: N/A			17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): NA		
18. GEOTECHNICAL SAMPLES		DISTURBED		UNDISTURBED	
20. SAMPLES FOR CHEMICAL ANALYSIS		VOC		OTHER (SPECIFY)	
		X		OTHER (SPECIFY)	
22. DISPOSITION OF HOLE		BACKFILLED		MONITORING WELL	
				OTHER (SPECIFY)	
19. TOTAL NUMBER OF CORE BOXES: N/A				21. TOTAL CORE RECOVERED: N/A	
23. SIGNATURE OF INSPECTOR: [Signature]					
LOCATION SKETCH/COMMENTS: --- -- -- -- -- DRIP EDGE					
SCALE: NONE					
PROJECT: RVAAP, Load Line 2 Phase II RI					
HOLE NUMBER: N/A					

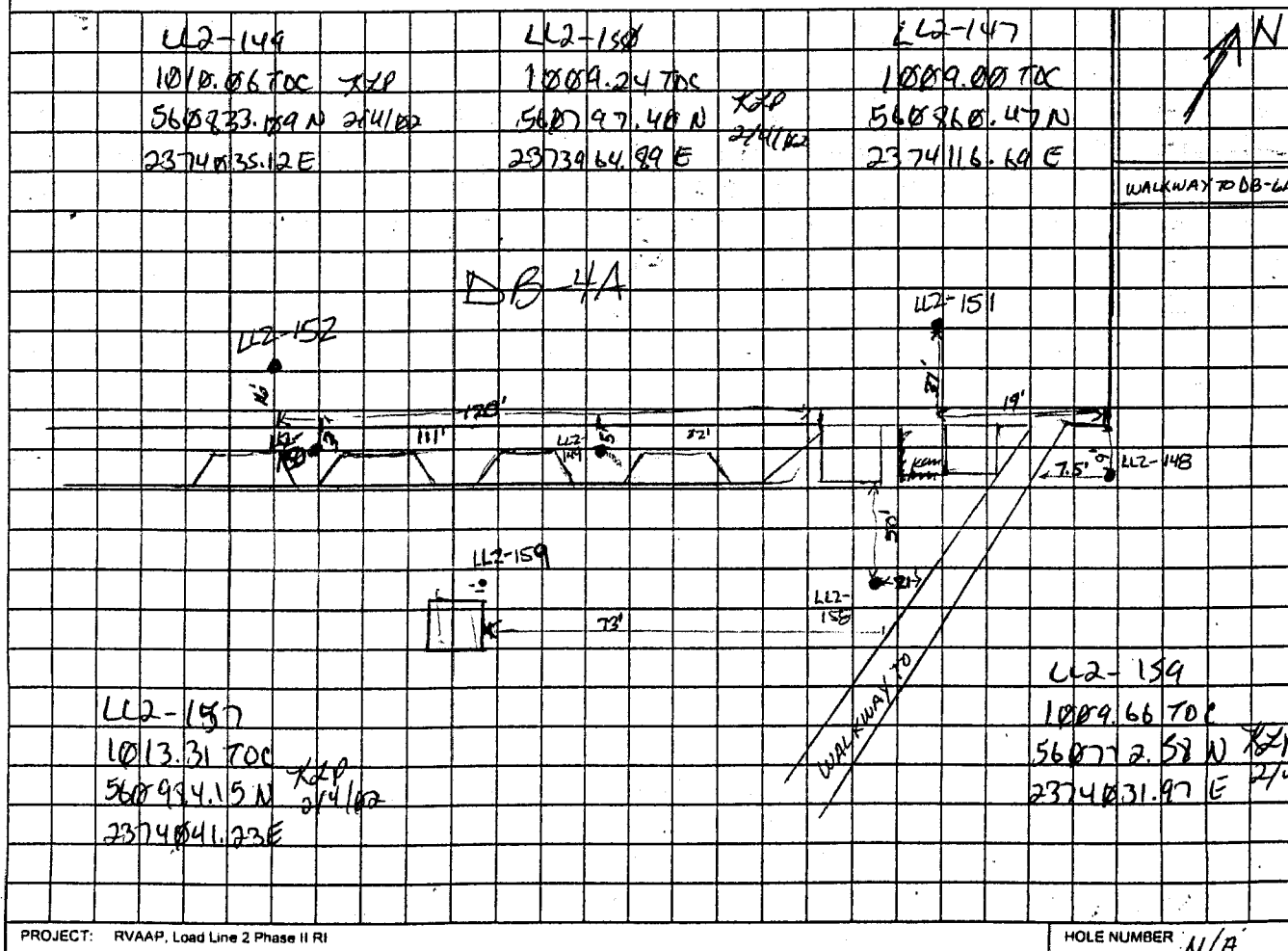
LL2-147, 149, 150, 151, 152, 157, 159

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HTRW DRILLING LOG		DISTRICT: Louisville CR 10-02		HOLE NUMBER N/A	
1. COMPANY NAME: SAIC		2. DRILL SUBCONTRACTOR: NA		SHEET 1 OF 1	
3. PROJECT: RVAAP, Load Line 2 Phase II RI			4. LOCATION: LOAD LINE 2		
5. NAME OF DRILLER: MARTHA CLOUGH			6. MANUFACTURERS DESIGNATION OF DRILL: N/A		
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT 3" (1.0) SS HAND AUGER			8. HOLE LOCATION: VICINITY OF BUILDING DB-4A		
SM 8/1/01			9. SURFACE ELEVATION: N/A		
			10. DATE STARTED: 7/27/01		
12. OVERBURDEN THICKNESS N/A			15. DEPTH GROUNDWATER ENCOUNTERED: NA		
13. DEPTH DRILLED INTO ROCK N/A			16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED: NA		
14. TOTAL DEPTH OF HOLE N/A			17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): NA		
18. GEOTECHNICAL SAMPLES		DISTURBED		UNDISTURBED	
20. SAMPLES FOR CHEMICAL ANALYSIS		VOC		OTHER (SPECIFY)	
		X		OTHER (SPECIFY) N/A	
22. DISPOSITION OF HOLE		BACKFILLED		MONITORING WELL	
				OTHER (SPECIFY)	
				23. SIGNATURE OF INSPECTOR Kathryn C. McLeod	
19. TOTAL NUMBER OF CORE BOXES N/A		21. TOTAL CORE RECOVERY N/A			

LOCATION SKETCH/COMMENTS

SCALE: NONE



PROJECT: RVAAP, Load Line 2 Phase II RI

HOLE NUMBER N/A

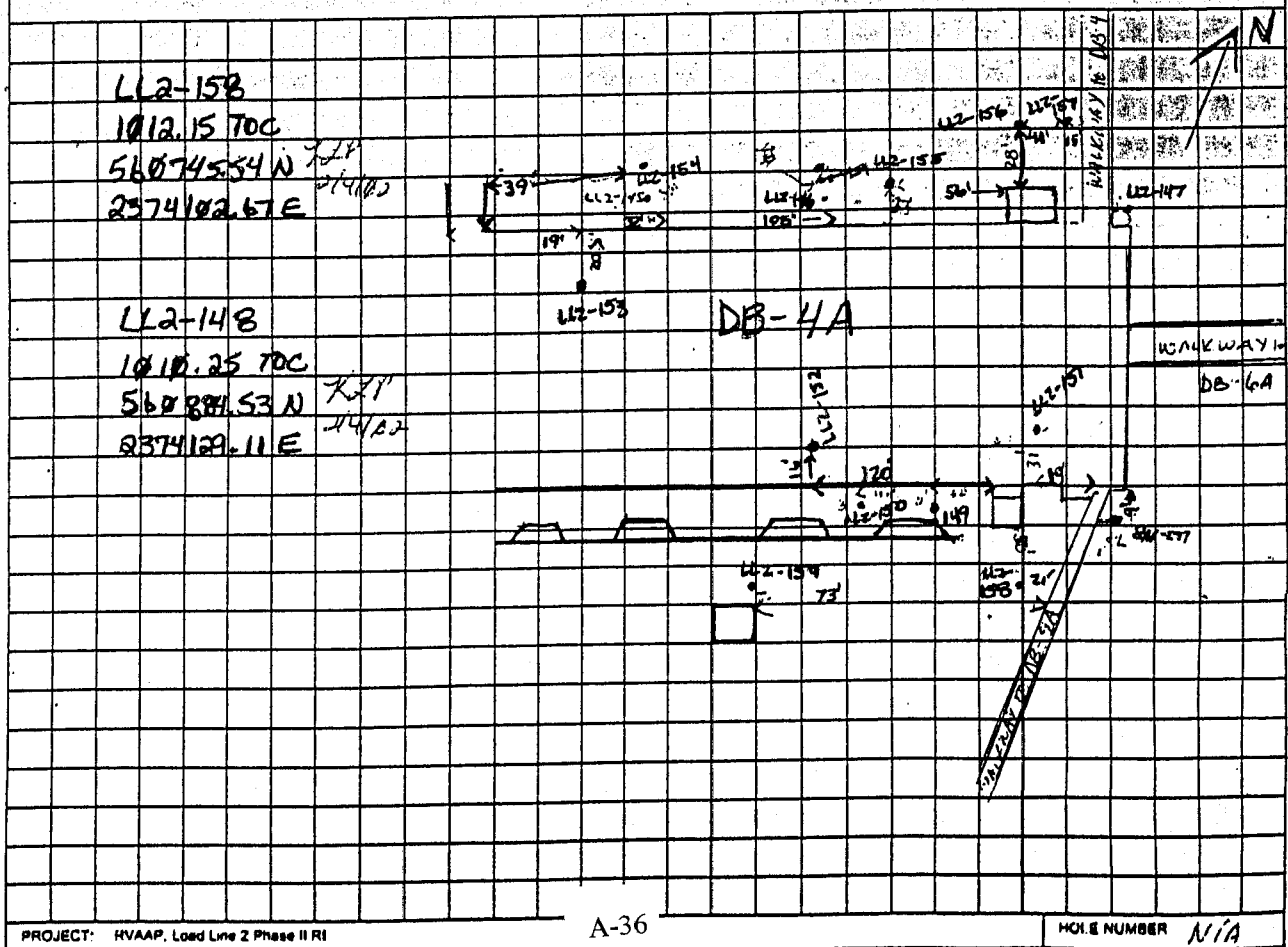
LL2-147, 149, 150, 151, 152, 157, 159 CR 10-02

LL2-148, 149, 150, 151, 152, 153, 159

HTRW DRILLING LOG		DISTRICT: Louisville		HOLE NUMBER N/A	
1. COMPANY NAME: SAIC		2. DRILL SUBCONTRACTOR: NA		SHEET 1 OF 1	
3. PROJECT: RVAAP, Load Line 2 Phase II RI			4. LOCATION: LOAD LINE 2		
5. NAME OF DRILLER: MARTHA CLOUGHER			6. MANUFACTURERS DESIGNATION OF DRILL: N/A		
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT		8. HOLE LOCATION: In the vicinity of Building DB-4A			
3" (10) SS HAND AUGER		9. SURFACE ELEVATION: NA			
SM 8/1/01		10. DATE STARTED: 7/27/01		11. DATE COMPLETED: 7/27/01	
12. OVERBURDEN THICKNESS N/A		15. DEPTH GROUNDWATER ENCOUNTERED: N/A			
13. DEPTH DRILLED INTO ROCK N/A		16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED: N/A			
14. TOTAL DEPTH OF HOLE N/A		17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): NA			
18. GEOTECHNICAL SAMPLES		DISTURBED		UNDISTURBED	
19. TOTAL NUMBER OF CORE BOXES N/A		VOC		METALS	
20. SAMPLES FOR CHEMICAL ANALYSIS		OTHER (SPECIFY)		OTHER (SPECIFY)	
21. TOTAL CORE RECOVERY 100%		OTHER (SPECIFY)		OTHER (SPECIFY)	
22. DISPOSITION OF HOLE		BACKFILLED		MONITORING WELL	
23. SIGNATURE OF INSPECTOR: <i>William McCarroll</i>		OTHER (SPECIFY)			

LOCATION SKETCH/COMMENTS

SCALE: **NONE**



PROJECT: RVAAP, Load Line 2 Phase II RI

A-36

HOLE NUMBER **N/A**

LL2-148, 149, 150, 151, 152, 153, 159

LL2-169, 170, 171, 172 CR
16-02

HTRW DRILLING LOG		DISTRICT: Louisville		HOLE NUMBER NA																										
1. COMPANY NAME: SAIC		2. DRILL SUBCONTRACTOR: NA		SHEET 1 OF 1																										
3. PROJECT: RVAAP, Load Line 2 Phase II RI			4. LOCATION: LOAD LINE 2																											
5. NAME OF DRILLER: SATC			6. MANUFACTURERS DESIGNATION OF DRILL: N/A																											
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT: 3" (10) SS BUCKET AUGER			8. HOLE LOCATION: AROUND BUILDING DC-1																											
9. SURFACE ELEVATION:			10. DATE STARTED: 7/24/01																											
11. DATE COMPLETED: 7/24/01			12. OVERBURDEN THICKNESS: N/A																											
13. DEPTH DRILLED INTO ROCK: N/A			15. DEPTH GROUNDWATER ENCOUNTERED: N/A																											
14. TOTAL DEPTH OF HOLE: N/A			16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED: NA																											
17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): NA			18. GEOTECHNICAL SAMPLES																											
DISTURBED		UNDISTURBED		19. TOTAL NUMBER OF CORE BOXES: N/A																										
20. SAMPLES FOR CHEMICAL ANALYSIS		VOC		OTHER (SPECIFY)																										
X		X		OTHER (SPECIFY) N/A																										
22. DISPOSITION OF HOLE		BACKFILLED		23. SIGNATURE OF INSPECTOR																										
X		MONITORING WELL		Other (Specify)																										
21. TOTAL CORE RECOVERY: N/A		OTHER (SPECIFY)		7/24/01																										
LOCATION SKETCH/COMMENTS: Building DC-1																														
SCALE: NONE																														
<table border="1"> <thead> <tr> <th>Hole ID</th> <th>Depth (ft)</th> <th>Top of Core (ft)</th> <th>Bottom of Core (ft)</th> <th>Remarks</th> </tr> </thead> <tbody> <tr> <td>LL2-169</td> <td>1089.71</td> <td>71.00</td> <td>5549.60</td> <td>72P 8/4/02</td> </tr> <tr> <td>LL2-170</td> <td>1089.12</td> <td>70.00</td> <td>5549.34</td> <td>80N 72P 8/4/02</td> </tr> <tr> <td>LL2-171</td> <td>1089.23</td> <td>70.00</td> <td>5549.79</td> <td>38N 8/4/02</td> </tr> <tr> <td>LL2-172</td> <td>1087.76</td> <td>70.00</td> <td>5548.53</td> <td>89N 72P 8/4/02</td> </tr> </tbody> </table>						Hole ID	Depth (ft)	Top of Core (ft)	Bottom of Core (ft)	Remarks	LL2-169	1089.71	71.00	5549.60	72P 8/4/02	LL2-170	1089.12	70.00	5549.34	80N 72P 8/4/02	LL2-171	1089.23	70.00	5549.79	38N 8/4/02	LL2-172	1087.76	70.00	5548.53	89N 72P 8/4/02
Hole ID	Depth (ft)	Top of Core (ft)	Bottom of Core (ft)	Remarks																										
LL2-169	1089.71	71.00	5549.60	72P 8/4/02																										
LL2-170	1089.12	70.00	5549.34	80N 72P 8/4/02																										
LL2-171	1089.23	70.00	5549.79	38N 8/4/02																										
LL2-172	1087.76	70.00	5548.53	89N 72P 8/4/02																										
PROJECT: RVAAP, Load Line 2 Phase II RI																														
HOLE NUMBER: NA																														

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HTRW DRILLING LOG			DISTRICT: Louisville			HOLE NUMBER LL2-184		
1. COMPANY NAME: SAIC			2. DRILL SUBCONTRACTOR: NA			SHEET <u>1</u> OF <u>1</u>		
3. PROJECT: RVAAP, Load Line 2 Phase II RI				4. LOCATION: off RR track, W. of DCI building				
5. NAME OF DRILLER: <u>Beau Williams</u>				6. MANUFACTURERS DESIGNATION OF DRILL: <u>Bucket Auger</u>				
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT <u>3 1/2" SS bucket auger</u> <u>SS spoon & SS bowl</u>				8. HOLE LOCATION: <u>station LL2-184, off RR tracks</u>				
				9. SURFACE ELEVATION: <u>N/A ^{KHP} 1003.48 TO C ^{KHP} 2/1/02</u>				
				10. DATE STARTED: <u>8/13/01</u>		11. DATE COMPLETED: <u>8/13/01</u>		
12. OVERBURDEN THICKNESS: <u>N/A</u>				15. DEPTH GROUNDWATER ENCOUNTERED: <u>N/A</u>				
13. DEPTH DRILLED INTO ROCK: <u>N/A</u>				16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED: <u>N/A</u>				
14. TOTAL DEPTH OF HOLE: <u>N/A</u>				17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): <u>N/A</u>				
18. GEOTECHNICAL SAMPLES		DISTURBED		UNDISTURBED		19. TOTAL NUMBER OF CORE BOXES: <u>N/A</u>		
20. SAMPLES FOR CHEMICAL ANALYSIS		VOC		METALS		OTHER (SPECIFY)		21. TOTAL CORE RECOVERY: <u>N/A</u> %
<u>See text page</u>								
22. DISPOSITION OF HOLE		BACKFILLED		MONITORING WELL		OTHER (SPECIFY)		23. SIGNATURE OF INSPECTOR: <u>Charles Canale</u>
<u>Bentonite Plug</u>		☒						
LOCATION SKETCH/COMMENTS						SCALE: <u>not to scale</u>		
559805.23 N 2370970.98 E <u>2/1/02</u> DCI building for map located to 2021 Gravel RR Bed concrete overpass concrete overpass LL2-184								
PROJECT: RVAAP, Load Line 2 Phase II RI						HOLE NUMBER: LL2-184		

42

LL2-241, 244, 253
CR 10-02

HTRW DRILLING LOG		DISTRICT: Louisville		HOLE NUMBER multiple	
1. COMPANY NAME: SAIC		2. DRILL SUBCONTRACTOR: NA		SHEET 1 OF 1	
3. PROJECT: RVAAP, Load Line 2 Phase II RI		4. LOCATION: DA-21 Building			
5. NAME OF DRILLER: Beau Williams		6. MANUFACTURERS DESIGNATION OF DRILL: Bucket auger			
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT 3 1/2" SS bucket auger SS spoon, SS bowl		8. HOLE LOCATION: DA-21 Building			
		9. SURFACE ELEVATION: N/A			
		10. DATE STARTED: 8-13-01		11. DATE COMPLETED:	
12. OVERBURDEN THICKNESS: n/a		15. DEPTH GROUNDWATER ENCOUNTERED: N/A			
13. DEPTH DRILLED INTO ROCK: n/a		16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED: n/a			
14. TOTAL DEPTH OF HOLE: n/a		17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): N/A			
18. GEOTECHNICAL SAMPLES	DISTURBED	UNDISTURBED	19. TOTAL NUMBER OF CORE BOXES: n/a		
20. SAMPLES FOR CHEMICAL ANALYSIS see text page	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)
22. DISPOSITION OF HOLE Bentonite Plug	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR Charles Canell	
LOCATION SKETCH/COMMENTS			SCALE: not to scale		
PROJECT: RVAAP, Load Line 2 Phase II RI			HOLE NUMBER: multiple		

50

LL2-243,260

HTRW DRILLING LOG		DISTRICT: Louisville		CR 10-02		HOLE NUMBER Multiple	
1. COMPANY NAME: SAIC		2. DRILL SUBCONTRACTOR: NA				SHEET 1 OF 1	
3. PROJECT: RVAAP, Load Line 2 Phase II RI				4. LOCATION: near DB-3 building			
5. NAME OF DRILLER: Beau Williams				6. MANUFACTURERS DESIGNATION OF DRILL: bucket auger			
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT: 3 1/2" SS, bucket auger SS spoon, SS bowl				8. HOLE LOCATION: near DB-3 building			
				9. SURFACE ELEVATION: N/A			
				10. DATE STARTED: 8-13-01		11. DATE COMPLETED:	
12. OVERBURDEN THICKNESS: N/A				15. DEPTH GROUNDWATER ENCOUNTERED: N/A			
13. DEPTH DRILLED INTO ROCK: N/A				16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED: N/A			
14. TOTAL DEPTH OF HOLE: N/A				17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): N/A			
18. GEOTECHNICAL SAMPLES		DISTURBED		UNDISTURBED		19. TOTAL NUMBER OF CORE BOXES: N/A	
20. SAMPLES FOR CHEMICAL ANALYSIS: see text page		VOC		METALS		OTHER (SPECIFY)	
22. DISPOSITION OF HOLE: bentonite plug		BACKFILLED		MONITORING WELL		OTHER (SPECIFY)	
						23. SIGNATURE OF INSPECTOR: [Signature]	
LOCATION SKETCH/COMMENTS						SCALE: not to scale	
PROJECT: RVAAP, Load Line 2 Phase II RI						HOLE NUMBER Multiple	

LL2-255, 256, 257, 258

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HTRW DRILLING LOG		DISTRICT: Louisville		HOLE NUMBER: Multiple	
1. COMPANY NAME: SAIC		2. DRILL SUBCONTRACTOR: NA		SHEET 1 OF 1	
3. PROJECT: RVAAP, Load Line 2 Phase II RI			4. LOCATION: DA-6 building area		
5. NAME OF DRILLER: Bean Williams, Paul Lycot			6. MANUFACTURERS DESIGNATION OF DRILL: bucket auger		
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT: 3/4" SS bucket auger, SS spoon, SS bucket			8. HOLE LOCATION: DA-6 building area		
			9. SURFACE ELEVATION: N/A		
			10. DATE STARTED: 8-13-01		11. DATE COMPLETED: 8/14/01
12. OVERBURDEN THICKNESS: n/a			15. DEPTH GROUNDWATER ENCOUNTERED: N/A		
13. DEPTH DRILLED INTO ROCK: n/a			16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED: N/A		
14. TOTAL DEPTH OF HOLE: N/A			17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): N/A		
18. GEOTECHNICAL SAMPLES		DISTURBED		UNDISTURBED	
20. SAMPLES FOR CHEMICAL ANALYSIS: See text page		VOC		METALS	
22. DISPOSITION OF HOLE: bentonite plug		BACKFILLED		MONITORING WELL	
				OTHER (SPECIFY)	
				OTHER (SPECIFY)	
				OTHER (SPECIFY)	
				21. TOTAL CORE RECOVERY: n/a	
				23. SIGNATURE OF INSPECTOR: Charles Canale	
LOCATION SKETCH/COMMENTS			SCALE: not to scale		
DA-6 building covered walkway LL2-255 LL2-256 LL2-257 LL2-258 covered walkway LL2-255 1009.64 TOC 561536.66 N 2374186.13 E 2/1/02 LL2-256 1009.60 TOC 561540.79 N 2374178.01 E 2/1/02 LL2-257 1009.57 TOC 561569.35 N 2374171.57 E 2/1/02 LL2-258 1009.49 TOC 561355.82 N 2373895.20 E 2/1/02					
PROJECT: RVAAP, Load Line 2 Phase II RI			HOLE NUMBER: Multiple		

274 WKS 1-20-03
LL2-271, 272, 273 01-20-02

14

HTRW DRILLING LOG			DISTRICT: Louisville			HOLE NUMBER MULTIPLE		
1. COMPANY NAME: SAIC			2. DRILL SUBCONTRACTOR: NA			SHEET 1 OF 1		
3. PROJECT: RVAAP, Load Line 2 Phase II RI				4. LOCATION: Load Line 2				
5. NAME OF DRILLER: PAUL LOCOT				6. MANUFACTURERS DESIGNATION OF DRILL: BUCKET AUGER				
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT 3" SS. BUCKET AUGER SS. BOWL SS. SPOON				8. HOLE LOCATION: NEAR SETTLING BASIN				
				9. SURFACE ELEVATION: N/A				
				10. DATE STARTED: N/A		11. DATE COMPLETED: N/A		
12. OVERBURDEN THICKNESS: N/A				15. DEPTH GROUNDWATER ENCOUNTERED: N/A				
13. DEPTH DRILLED INTO ROCK: N/A				16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED: N/A				
14. TOTAL DEPTH OF HOLE: N/A				17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): N/A				
18. GEOTECHNICAL SAMPLES		DISTURBED		UNDISTURBED		19. TOTAL NUMBER OF CORE BOXES: N/A		
20. SAMPLES FOR CHEMICAL ANALYSIS		VOC		METALS		OTHER (SPECIFY)		21. TOTAL CORE RECOVERY: N/A
SEE INDIVIDUAL BORING LOGS								
22. DISPOSITION OF HOLE		BACKFILLED		MONITORING WELL		OTHER (SPECIFY)		23. SIGNATURE OF INSPECTOR: B. Williams
BENTONITE PLUG								
LOCATION SKETCH/COMMENTS								
SCALE: NOT TO SCALE								
PROJECT: RVAAP, Load Line 2 Phase II RI								
HOLE NUMBER MULTIPLE								

HTRW DRILLING LOG – LOGS

LL2-064	A-47
LL2-065	A-48
LL2-066	A-49
LL2-067	A-50
LL2-068	A-51
LL2-069	A-52
LL2-070	A-53
LL2-071	A-54
LL2-072	A-55
LL2-073	A-56
LL2-074	A-57
LL2-075	A-58
LL2-076	A-59
LL2-077	A-60
LL2-078	A-61
LL2-079	A-62
LL2-080	A-63
LL2-081	A-64
LL2-082	A-65
LL2-083	A-66
LL2-084	A-67
LL2-085	A-68
LL2-086	A-69
LL2-087	A-71
LL2-088	A-72
LL2-089	A-73
LL2-090	A-74
LL2-091	A-75
LL2-092	A-76
LL2-093	A-77
LL2-094	A-78
LL2-095	A-79
LL2-096	A-80
LL2-097	A-81
LL2-098	A-82
LL2-099	A-83
LL2-100	A-84
LL2-101	A-85
LL2-102	A-86
LL2-103	A-87
LL2-104	A-88
LL2-105	A-89
LL2-106	A-90
LL2-107	A-91
LL2-108	A-92
LL2-109	A-93

LL2-110	A-94
LL2-111	A-95
LL2-112	A-96
LL2-113	A-97
LL2-114	A-98
LL2-115	A-99
LL2-116	A-100
LL2-117	A-101
LL2-118	A-102
LL2-119	A-103
LL2-120	A-104
LL2-121	A-105
LL2-122	A-106
LL2-123	A-107
LL2-124	A-108
LL2-126	A-109
LL2-127	A-110
LL2-128	A-111
LL2-129	A-112
LL2-130	A-113
LL2-131	A-114
LL2-132	A-115
LL2-133	A-116
LL2-134	A-117
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LL2-137	A-120
LL2-139	A-121
LL2-140	A-122
LL2-141	A-123
LL2-142	A-124
LL2-143	A-125
LL2-144	A-126
LL2-145	A-127
LL2-146	A-128
LL2-147	A-129
LL2-148	A-130
LL2-149	A-131
LL2-150	A-132
LL2-151	A-133
LL2-152	A-134
LL2-153	A-135
LL2-154	A-136
LL2-155	A-137
LL2-156	A-138
LL2-157	A-139
LL2-158	A-140
LL2-159	A-141
LL2-160	A-142
LL2-161	A-143
LL2-162	A-144

LL2-163	A-145
LL2-164	A-146
LL2-165	A-147
LL2-166	A-148
LL2-167	A-149
LL2-169	A-150
LL2-170	A-151
LL2-171	A-152
LL2-172	A-153
LL2-173	A-154
LL2-174	A-155
LL2-175	A-156
LL2-176	A-157
LL2-177	A-158
LL2-178	A-159
LL2-179	A-160
LL2-180	A-161
LL2-181	A-162
LL2-184	A-163
LL2-186	A-164
LL2-187	A-165
LL2-188	A-166
LL2-189	A-167
LL2-194	A-168
LL2-195	A-169
LL2-196	A-170
LL2-197	A-171
LL2-198	A-172
LL2-199	A-173
LL2-200	A-174
LL2-201	A-175
LL2-202	A-176
LL2-203	A-177
LL2-204	A-178
LL2-205	A-179
LL2-206	A-180
LL2-207	A-181
LL2-208	A-182
LL2-209	A-183
LL2-210	A-184
LL2-211	A-185
LL2-213	A-186
LL2-214	A-187
LL2-215	A-188
LL2-216	A-189
LL2-217	A-190
LL2-241	A-191
LL2-244	A-192
LL2-253	A-193
LL2-255	A-194
LL2-256	A-195

LL2-257	A-196
LL2-258	A-197
LL2-260	A-198
LL2-274	A-199
LL2-272	A-200
LL2-273	A-201

HTRW DRILLING LOG

HOLE NUMBER LL2-004

PROJECT: RVAAP, Load Line 2 Phase II RI

INSPECTOR P. Williams

SHEET 1 OF 1

ELEV (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO. (F)	REMARKS (G)
	0.0	CLAY WITH SOME SAND AND TRACES OF GRAVEL. SAND IS POORLY GRADED AND IS FINE TO MEDIUM GRAINED, ANGULAR TO SUB-ANGULAR, GRAVEL IS ANGULAR TO SUB-ANGULAR	N/A	N/A	LL2-0084	
	0.5	10YR 4/2 DARK GRAYISH BROWN MOIST	MISSING PID			
	1.0					
	1.5					
	2.0					
	2.5					
	3.0					
	3.5					
	4.0					
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HOLE NUMBER 4205

INSPECTOR

SHEET OF

PROJECT: RVAAP, Load Line 2 Phase II RI

A-48

HOLE NUMBER 1-2-~~11~~ B

865 7242

HOLE NUMBER LL2-066

INSPECTOR B. Williams

SHEET 1 OF 1.

PROJECT: RVAAP, Load Line 2 Phase II RI

A-49.

HOLE NUMBER LL2-066

HOLE NUMBER LL2-067

B William

SHEET 1 OF 1

[illegible]

PROJECT: RVAAP, Load Line 2 Phase II RI

A-50

HOLE NUMBER LL2-067

HOLE NUMBER 42068

INSPECTOR B. Williams

SHEET 1 OF 1

A-51

HOLE NUMBER LL2-068

HOLE NUMBER U2-069

PROJECT: RVAAP, Load Line 2 Phase II RI

INSPECTOR

SHEET 1 OF 1

[illegible]

PROJECT: RVAAP, Load Line 2 Phase II RI

A-524

HOLE NUMBER LL2-069

INSPECTOR B. W. Williams

SHEET 1 OF 1

PROJECT: RVAAP, Load Line 2 Phase II RI

HOLE NUMBER LL2-070

HOLE NUMBER LL2-071

INSPECTOR

SHEET 1 OF 1

PROJECT: RVAAP, Load Line 2 Phase II RI

HOLE NUMBER: 42-071

HOLE NUMBER **LL2-072**

INSPECTOR E. Williams

SHEET | OF |

HOLE NUMBER LL2-072

HOLE NUMBER LL2-073

INSPECTOR

SHEET OF

[illegible]

HTRW DRILLING LOG						HOLE NUMBER <u>LL2-074</u>
PROJECT: RVAAP, Load Line 2 Phase II RI			INSPECTOR <u>B. Williams</u>		SHEET <u>1</u> OF <u>1</u>	
ELEV. (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO. (F)	REMARKS (G)
	0.5	SANDY-CLAY (CL) WITH SOME GRAVEL, SAND IS POORLY GRADED, GRAVEL IS WELL GRADED, ANGULAR TO SUB-ANGULAR, SEVERAL GRASS ROOT FRAGMENTS	N/A MISSING PID	N/A	LL2-0712	
	1.0	10 YR 5/4-YELLOWISH BROWN DRY				
8-28-01 vjb						

WELL NUMBER 442-076

SHEET 1 OF 1

PROJECT: RVAAP, Load Line 2 Phase II RI

INSPECTOR

SHEET 1 OF 1

[illegible]

HOLE NUMBER LLC-077

INSPECTOR B. Williams

SHEET 1 OF 1

ELEV (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO (F)	REMARKS (G)
		CONCRETE				
	0.5	POORLY GRADED SAND WITH TRACES OF SAND SILT (SP) AND 1/20% FINE	φ-φ	N/A	U2-φ19	
	1.0	SAND IS MEDIUM TO FINE GRAINED, ANGULAR, MODERATELY BENDE, (YELLOWISH GREEN)	φ-φ			
	1.5	1 1/4" C/B (0.5 FT - 1.1 FT)				
		CLAY WITH TRACES OF SILT, STIFF, MOIST, MODERATELY PLASTIC. GREENISH GRAY SGY 6/1 (1.1 FT - 1.5 FT)				
		8-28-01 4/6				

PROJECT: RVAAP, Load Line 2 Phase II RI

A-60

HOLE NUMBER 112-677

28

HTRW DRILLING LOG						HOLE NUMBER LL2-078
PROJECT: RVAAP, Load Line 2 Phase II RI			INSPECTOR B. Williams		SHEET 1 OF 1	
ELEV. (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO. (F)	REMARKS (G)
REFUSAL	0.5 1.0	CLAYEY SAND WITH GRAVEL (SC) MOIST, DENSE, GRAVEL IS ANGULAR, SAND IS WELL GRADED, FINE TO COARSE DARK BROWN (1X4R 3/3)	0.0 PPM	N/A	LL2-0720 LL2-1171 DUPLICATE LL2-1196 SPLIT	REFUSAL
19-24-01 Q4						

68

HTRW DRILLING LOG						HOLE NUMBER LL2-079
PROJECT: RVAAP, Load Line 2 Phase II RI			INSPECTOR B. W. H. [Signature]		SHEET 1 OF 1	
ELEV. (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO (F)	REMARKS (G)
	0.5	SILTY CLAY-(CL), MOIST, SOFT, SLIGHTLY PLASTIC, YELLOWISH BROWN (10YR 5/4)	Φ.Φ	N/A	LL2-0723	
	1.0	SILTY CLAY WITH SOME GRAVEL- (CL), MOIST, SOFT, SLIGHTLY PLASTIC, YELLOWISH BROWN (10YR 5/4)	PPM			
29-21-01 29-21-01						

412-0800

HOLE NUMBER

PROJECT: RVAAP, Load Line 2 Phase II RI

INSPECTOR KATHLEEN C. MCCORMICK

SHEET / OF

PROJECT: RVAAP, Load Line 2 Phase II RI

A-63

LL2-080

HOLE NUMBER

U2-031

SHEET (OF)

INSPECTOR J. De Vaughn

HOLE NUMBER

HTRW DRILLING LOG						LL2-082	HOLE NUMBER
PROJECT: RVAAP, Load Line 2 Phase II RI			INSPECTOR: J. DeVaughn		SHEET 1 OF 1		
ELEV (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO (F)	REMARKS (G)	
	0'	ML- Silt with clay, trace angular gravel, dry, firm, not plastic 7.5 4R 4/2 brown with trace 7.5 4R 4/11 brown mottle	0 ppm			Sample LL2 0732 @ 1500	
	0.5'	Refusal on rock at 0.5'				J. DeVaughn 7-25-01	
	1.0'	(S) 8/10					

INSPECTOR KATHLEEN C. MCGORMICKREMARKS
(G)

05'

 1.0×10^{-1}

(ML) SILT - w/ FINE SAND,
SOME CLAY, non plastic,
LIGHT YELLOWISH BROWN 2.5Y6/3,
DRY

Oppm

LL20735
@
1546

LL2-~~083~~ was
marked as LL2-~~084~~
in the Work Plan,
incorrectly
(on the map)

Kathryn McLeod 7/25/01

5/28/10

SHEET (OF (

PROJECT: RVAAP, Load Line 2 Phase II RI

INSPECTOR

J. DeVaughn

ELEV.
(A)

DEPTH
(B)

DESCRIPTION OF MATERIALS

HEADSPACE SCREENING RESULTS

GEOTECH
SAMPLE
OR CORE BOX

ANALYTICAL
SAMPLE NO.
(F)

REMARKS
(G)

Concrete slab floor.

 ϕ ppm

sample 1120738
@ 1425

0.5

SW - Sand med. to coarse,
some pea gravel, damp, not
plastic, 7.5 YR 4/2 brown,
loose, gravel rounded.

△

1.5' ~~1.0'~~

2.25.01

J. W. Doughton 7-25-01

8/10/19

PROJECT: RVAAP, Load Line 2 Phase II RI

A-67-

U2-084

[illegible]

HOLE NUMBER

INSPECTOR

J. De Vangheluwe

SHEET 1 OF 1

PROJECT:	RVAAP, Load Line 2 Phase II RI	A-68	U2-085	HOLE NUMBER
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HTRW DRILLING LOG						LL2-086	HOLE NUMBER
PROJECT: RVAAP, Load Line 2 Phase II RI			INSPECTOR: KATHRYN L. MCCORMICK		SHEET 1 OF 2		
ELEV (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO (F)	REMARKS (G)	
	0.5'	(ML) SANDY SILT w/ GRAVEL, ANGULAR GRAVEL, LOOSE, DARK BROWN 10YR 3/3 - NAIL FOUND	0 ppm		LL20740		
					LL21168	FIELD DUPE	
					LL21193	SPLIT	
	1.0'	(CL) CLAY, MED PLASTICITY MOTTLED VERY DARK GRAYISH BROWN 10YR 3/2 & DARK YELLOWISH BROWN 10YR 3/6 DRY			0820	SEE page 27 for Site Sketch KCM 7/26/01	
	1.5'	(CL) CLAY, mottled Very Dark Grayish Brown 10YR 3/2 & Dark Yellowish Brown 10YR 3/6, very dry	NA		LL20740	→ for propellants - Surface Soil Sample	
	2.0'				LL20741		
					@ 1145		
					LL21211	(split)	
					LL21186	(Dup)	
	2.5'						
	3.0'						
	3.5'	(CL) Clay, mottled Very Dark Grayish Brown 10YR 3/2 & Dark Yellowish Brown 10YR 3/6, very dry	100% NA		LL20742		
	4.0'		0.8 ppm in breathing zone		@ 0910		
	4.5'						
	5.0'						

KCM 7/29/01

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7/50/70

PROJECT: RVAAP, Load Line 2 Phase II RI

INSPECTOR T. DeVanah

SHEET 2 OF 2

ELEV (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOCHEM SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO. (F)	REMARKS (G)
	5.0	Same as above with 10YR 5/1 gray mottle				Sample UZ1005 at 0825
	5.5					
	5.8					
	6.0		J. DeYoung 7-30-01			
	6.5					
	7.0		SMA 8/1/01			

SHEET 1 OF 1

HOLE NUMBER: 113-087

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HTRW DRILLING LOG						LL2-088	HOLE NUMBER
PROJECT: RVAAP, Load Line 2 Phase II RI			INSPECTOR J. DeVaughn		SHEET 1 OF 1		
ELEV. (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO. (F)	REMARKS (G)	
	0	SD-Sand, trace silt, rounded pea gravel, loose, not plastic, damp, 7.5 YR 4/3 brown, angular gravel at bottom	7 ppm			Sample LL20746 @ 0905	
	0.5						
	1.0	J. DeVaughn 7.26.01 SM 8/11/01					
	1.5						
	2.0						
	2.5						
	3.0						
	3.5						
	4.0						
	4.5						
	5.0						
	5.5						
	6.0						
	6.5						
	7.0						
	7.5						
	8.0						

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PROJECT	RVAAP, Load Line 2 Phase II RI	LL2-088	HOLE NUMBER
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HOLE NUMBER

PROJECT: RVAAP, Load Line 2 Phase II RI

INSPECTOR

I. De Variabelen

SHEET 1 OF 1

HOLE NUMBER

PROJECT: RVAAP, Load Line 2 Phase II RI

INSPECTOR

J. DeVaughn

SHEET OF

ELEV (A)	DEPTH (B) ↓	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOTECH. SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO (F)	REMARKS (G)
	0'	Concrete floor slab				
	0.5'	SW - Sand with silt, abundant rounded pea gravel, damp, slightly plastic, trace clay, 7.5 yr 4/3 brown, soft	Ø ppm			Sample LL2-0756 @ 0.930
	1.0'					
	1.5'			J. W. Daugherty 7-26-01		
				SUN 8/1/01		
PROJECT: RVAAP, Load Line 2 Phase II RI A-75 LL2-091 HOLE NUMBER						

HOLE NUMBER

SHEET 1 OF 1

HOLE NUMBER

HTRW DRILLING LOG					112-093		HOLE NUMBER
PROJECT: RVAAP, Load Line 2 Phase II RI			INSPECTOR: J. De Vangelin		SHEET 1 OF 1		
ELEV (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO. (F)	REMARKS (G)	
	0'	CL - Clay and silt, dry, trace fine sand, firm, not plastic, trace subangular gravel to 1 cm	Open			Sample 112-0757 @ 1' 30"	
	0.5'	7.5 YR 6/1 gray and 7.5 YR 5/6 strong brown mottled					
	1.0'	7.5 YR 4/2 overall					
	1.0'	Same as above, dry	J. De Vangelin	7-26-01		Sample 112-0745 @ 0' 45"	
		Not Sampled					
	3.5'	Refusal on rock	J. De Vangelin	7-30-01			
			J. De Vangelin	7-30-01			

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HTRW DRILLING LOG						HOLE NUMBER LL2-094
PROJECT: RVAAP, Load Line 2 Phase II RI			INSPECTOR B. Williams		SHEET 1 OF 1	
ELEV. (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO (F)	REMARKS (G)
	0.5	CLAY (CL) WITH TRACES OF GRAVEL, MOIST, MODERATELY STIFF, MODERATELY PLASTIC, GRAVEL IS ANGULAR, OLIVE BROWN (2.57 4/4)	Φ.Φ PPM	N/A	LL2-0760	Φ.2-Φ.8 MOTTLED Φ.1 DISCOLORED DEEP RUST RED COLOR
	1.0	Same as above	NA	NA	LL2-0761 @ 1320	
	2.0	Refusal @ 1.7' BGS (bedrock)				Refusal 7/30/01
09-24-01 SM						

HTRW DRILLING LOG

HOLE NUMBER LL2-096

PROJECT: RVAAP, Load Line 2 Phase II RI

INSPECTOR B. Williams

SHEET 1 OF 1

ELEV. (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO. (F)	REMARKS (G)
	0.5	CLAY WITH TRACES OF SAND (CL) SAND IS MEDIUM GRAIN, ANGULAR, SLIGHT TO MODERATELY PLASTIC, MOTTLED GRAY (10 YR 6/1) YELLOWISH BROWN (10 YR 5/8), MODERATELY STIFF	Φ.Φ PPM	N/A	LL2-096 LL2-1169 DUPLICATE LL2-1194 SPLIT	SAMPLED FOR VOC, SVOC, PCB, METALS, AND EXTRACTS
	1.0	(OL-OH) ORGANIC SILT WITH TRACES OF SAND & GRAVEL, NON TO SLIGHTLY PLASTIC, BLACK (10 YR 2/1) DECOMPOSING LEAVES & ROOTLETS				
09-24-01						
SL						

PROJECT: RVAAP, Load Line 2 Phase II RI

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HOLE NUMBER LL2-096

HTRW DRILLING LOG

HOLE NUMBER LL2-097

PROJECT: RVAAP, Load Line 2 Phase II RI

INSPECTOR B. Williams

SHEET / OF 1

ELEV. (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO. (F)	REMARKS (G)
		(OL-04) ORGANIC SILT WITH TRACES OF SAND AND GRAVEL, SLIGHTLY TO NON-PLASTIC, BLACK (10YR 2/1) CLAY WITH TRACES OF SAND, MOIST, MODERATELY STIFF, SLIGHTLY TO MODERATELY PLASTIC, GRAY (10YR 6/1) MOTTLED WITH YELLOWISH- BROWN (10YR 6/8)	0.0 PPM 0.0 PPM	N/A	112- 0769	SAMPLED FOR METALS, PBBs, EXPLOSIVES
		112-24-01 N/A				

PROJECT	RVAAP, Load Line 2 Phase II RI
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HOLE NUMBER LL2-097

HOLE NUMBER

PROJECT: RVAAP, Load Line 2 Phase II RI

INSPECTOR

MATT ROSE

SHEET	OF
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[illegible]

HOLE NUMBER

HOLE NUMBER	442-102
SHEET	3 OF 6

INSPECTOR Groton

SHEET 3 OF 6

PROJECT	RVAAP, Load Line 2 Phase II RI
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HOLE NUMBER LL2-102

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HTRW DRILLING LOG

HOLE NUMBER **LL2-143**

PROJECT: RVAAP, Load Line 2 Phase II RI

INSPECTOR **Groton**

SHEET **3** OF **6**

ELEV. (A)	DEPTH (B) (ft)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO. (F)	REMARKS (G)
	1.0	Soft, homogeneous, poorly graded gravel with sand, dark yellowish brown (10YR 4/4) mixture of pea gravel and coarse chunks of slag	NA 7/6 Ø. Ø ppm 13896 PID	NA	LL20707 VOC Exp Metals PCBs	dry, nonplastic
Scale markings (0 to 100 ft) and a diagonal line crossing the page.						

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PROJECT: RVAAP, Load Line 2 Phase II RI

HOLE NUMBER **LL2143**

HOLE NUMBER

INSPECTOR Grotan

SHEET 2 OF 2

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HOLE NUMBER

SHEET 6 OF 6

PROJECT: RVAAP, Load Line 2 Phase II RI

INSPECTOR

Griffin

SHEET 6 OF 6

ELEV. (A)	DEPTH (B) <i>(ft)</i>	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEO TECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO (F)	REMARKS (G)
	<i>1.8</i>	<i>moist, yellowish brown (10YR 5/6) sand w/ gravel subangular up to lin. wide</i>	<i>Ø. Ø mm 13890 P.D.</i>	<i>NA</i>	<i>4420793 metals PCBs explosives</i>	

PROJECT: RVAAP, Load Line 2 Phase II RI
A-89
HOLE NUMBER *4420793*

HTRW DRILLING LOG

HOLE NUMBER LL2-146

PROJECT: RVAAP, Load Line 2 Phase II RI

INSPECTOR Groton

SHEET 4 OF 6

ELEV (A)	DEPTH (B) (ft)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO (F)	REMARKS (G)
	1.0	dark yellowish brown (over yll) silt with sand and gravel homogenous, dry	NA	NA	LL20796 metals PCBs Explosives	
Silt silt						

PROJECT: RVAAP, Load Line 2 Phase II RI

A-90

HOLE NUMBER

LL2-146

HTRW DRILLING LOG

HOLE NUMBER LL2-107

PROJECT: RVAAP, Load Line 2 Phase II RI

INSPECTOR Grotan

SHEET 5 OF 6

ELEV (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO (F)	REMARKS (G)
	(54)	Dark yellowish brown (10YR4/4) gravel with sand, dry,	NA	NA	LL20799 metals explosives PCBs	

1.0

PROJECT: RVAAP, Load Line 2 Phase II RI

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HOLE NUMBER LL2-107

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SHEET 3 OF 6

1000

HTRW DRILLING LOG

HOLE NUMBER 42-109

PROJECT: RVAAP, Load Line 2 Phase II RI

INSPECTOR B. Williams

SHEET / OF /

ELEV. (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEO TECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO (F)	REMARKS (G)
	0.5 1.0	CLAY (CL), MOIST, STIFF, MODERATELY PLASTIC, YELLOWISH BROWN (16YR 5/6)	Φ. Φ PDM	N/A	U2- 7895	ANALYZED FOR METALS, PCB, AND EXPLOSIVES
No - 2H - 1 - 1 SM						
PROJECT:		RVAAP, Load Line 2 Phase II RI				A-93
					HOLE NUMBER	U2-105

PROJECT: RVAAP, Load Line 2 Phase II RI

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HOLE NUMBER 42-109

HOLE NUMBER

PROJECT: RVAAP, Load Line 2 Phase II RI

INSPECTOR Kathryn C McCormick

SHEET 1 QF 1

[illegible]

HOLE NUMBER 662-111

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HTRW DRILLING LOG						HOLE NUMBER 112
PROJECT: RVAAP, Load Line 2 Phase II RI				INSPECTOR		SHEET 2 OF 6
ELEV. (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO (F)	REMARKS (G)
	1.0	Coarse railroad ballast 1-3+ in. esd removed by backhoe	0.0 ppm 13894 PID	NA		
	2.0	10YR 4/6 dark yellowish brown moist sand with gravel	0.0 ppm	NA	420814	
		refusal at ~ 22 inches bgs				

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HTRW DRILLING LOG						HOLE NUMBER LL2-113
PROJECT: RVAAP, Load Line 2 Phase II RI			INSPECTOR: B. Williams		SHEET 1 OF 1	
ELEV. (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO. (F)	REMARKS (G)
	0.5	SILTY CLAY WITH SOME GRAVEL (CL) MOIST, SOFT, SLIGHTLY PLASTIC, ANGULAR GRAVEL, YELLOWISH BROWN 10YR 5/4	0.0 PPM	N/A	LL2-0817	ANALYZED FOR: METALS, PCBS, AND EXPLOSIVES
	1.0	SILTY GRAVEL WITH SOME SAND, (GW-GM) MOIST, DENSE, YELLOWISH BROWN 10YR 5/4 GRAVEL IS ANGULAR & WELL SAND				
A-97						

0.5
1.0

HOLE NUMBER

INSPECTOR MATT ROET

SHEET / OF /

HOLE NUMBER / 12-115

HTRW DRILLING LOG						HOLE NUMBER	
PROJECT: RVAAP, Load Line 2 Phase II RI			INSPECTOR: <i>[Signature]</i>		SHEET 1 OF 1		
ELEV (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO (F)	REMARKS (G)	
	0.5	SP-SM - Poorly graded sand w/ silt and little medium gravel, surface veg., dark yellowish brown 10YR 4/6, dry	0.0 ppm		120826 1050		
	1.0	REFUSAL @ 0.8' BGS				<i>[Signature]</i> Hole Rod	
0.8' BGS 12/1/12							

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HTRW DRILLING LOG						HOLE NUMBER
PROJECT: RVAAP, Load Line 2 Phase II RI			INSPECTOR: <i>[Signature]</i>		SHEET 1 OF 1	
ELEV (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO (F)	REMARKS (G)
		SP-SM - Poorly graded sand with silt and gravel, surface veg., brown to 5R5/2, dry 1.1 ppr			420829 1116	
	0.5	REFUSAL @ 0.5' BGS				<i>[Signature]</i> 7/25/01
	1.0	SILTY SAND				

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HTRW DRILLING LOG						112-118	HOLE NUMBER
PROJECT: RVAAP, Load Line 2 Phase II RI			INSPECTOR <i>[Signature]</i>		SHEET OF		
ELEV (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO (F)	REMARKS (G)	
	0.5	SP-SM - Poorly graded sand with silt and medium sub angular gravel, yellowish brown ϕ 1/8", dry	ϕ 0ppm		LL20832 W 114-03 LL20808 1155		
	1.0	<i>[Signature]</i>	7/25/01			REFUSAL @ 0.8' BES	
<i>Su 8/1/01</i>							

PROJECT: RVAAP, Load Line 2 Phase II RI	A-102	HOLE NUMBER 112-118
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HTRW DRILLING LOG						HOLE NUMBER	
PROJECT: RVAAP, Load Line 2 Phase II RI				INSPECTOR: Kathryn C. McCormick		SHEET 1 OF 1	
ELEV (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO. (F)	REMARKS (G)	
	0.5	(GW-GM) WELL GRADED GRAVEL W/ SILT + SAND, ANGULAR, BROWN 10YR 5/3, DRY W/ SURFACE VEGETATION			LL2 0841 0835		
		REFUSAL @ 0.7' BES				7/25/01	
8/1/01							

HOLE NUMBER

PROJECT: RVAAP, Load Line 2 Phase II RI

INSPECTOR KATHRYN C. Mc CORMICK

SHEET OF

[illegible]

PROJECT: RVAAP, Load Line 2 Phase II RI

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HOLE NUMBER LL2-02

LL2-123

HOLE NUMBER

PROJECT: RVAAP, Load Line 2 Phase II Rf

INSPECTOR KATHRYN C. McLOERNICK

SHEET	OF
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[illegible]

HOLE NUMBER

PROJECT: RVAAP, Load Line 2 Phase II RI

INSPECTOR KATHRYN C. Mc CORMICK

SHEET / OF /

[illegible]

HTRW DRILLING LOG						HOLE NUMBER <u>U2-126</u>
PROJECT: RVAAP, Load Line 2 Phase II RI				INSPECTOR <u>Graton</u>		SHEET <u>5</u> OF <u>6</u>
ELEV (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO (F)	REMARKS (G)
	<u>0.5</u> <u>1.0</u>	<u>dry, dark yellowish brown</u> <u>(10YR 4/4) silt w/ few coarse</u> <u>fragments (gravel) native ss</u> <u>cross st, gray (10YR 5/1) clay (lean)</u> <u>with yellowish brown (10YR 5/10)</u> <u>mottles, small amt of gravel native ss</u>	<u>Ø, Ø ppm</u> <u>13896</u> <u>PID</u>	<u>NA</u>	<u>U20850</u> <u>U21166</u> <u>U21191</u>	<u>silt w/ gravel</u> <u>lean clay w/ gravel</u>
<u>END</u> <u>8/10</u>						

PROJECT: RVAAP, Load Line 2 Phase II RI	A-109	HOLE NUMBER <u>126</u>
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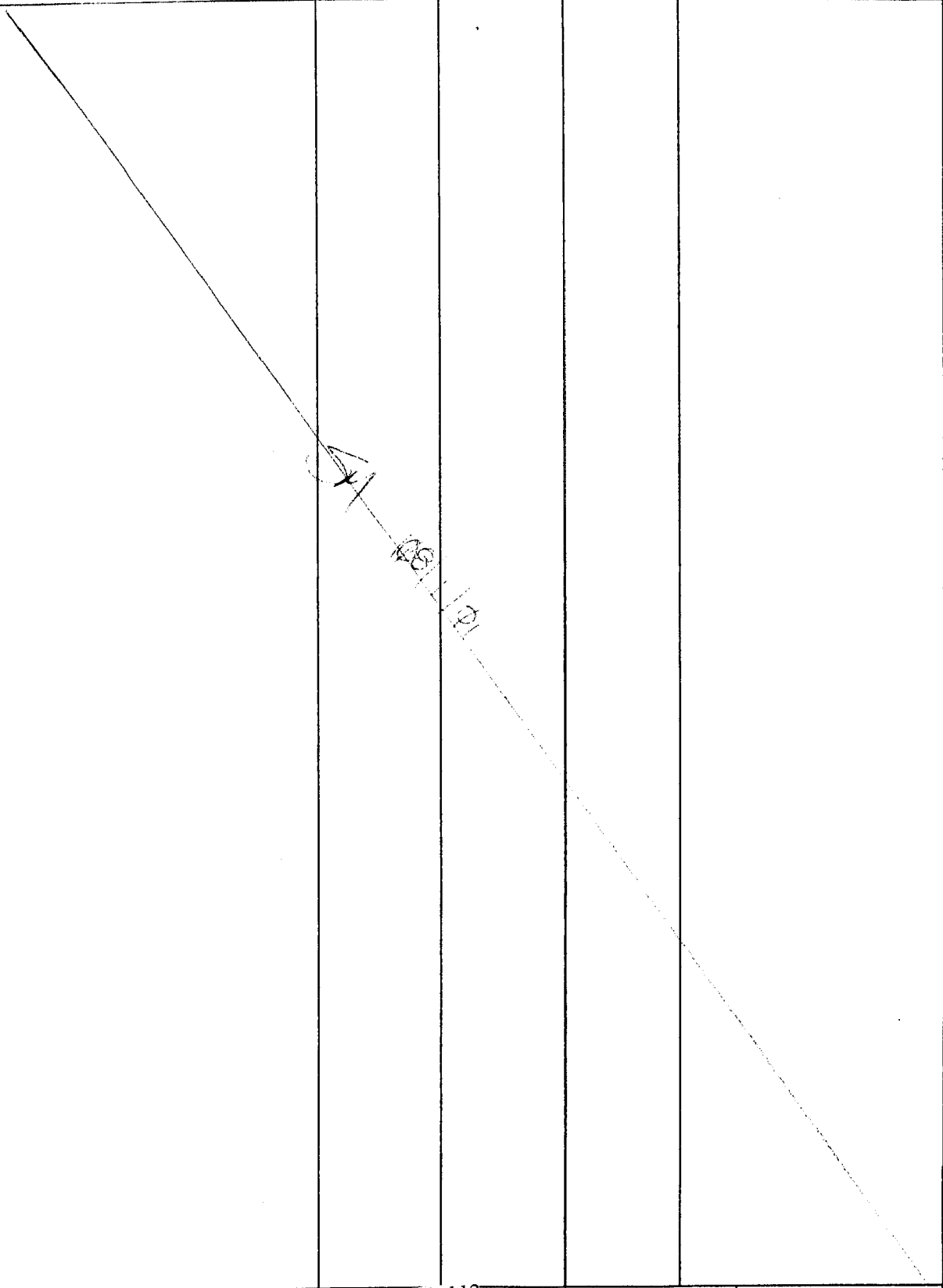
ELEV (A)	DEPTH (B) (ft)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO. (F)	REMARKS (G)
	1.0	dry, dark grayish brown (10YR 4/2) lean clay w/ gravel (angular pieces of ss)	φ. φ ppm 13896 PID	NA	LL20853	
SHA 03110						

PROJECT: RVAAP, Load Line 2 Phase II RI

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HOLE NUMBER 127

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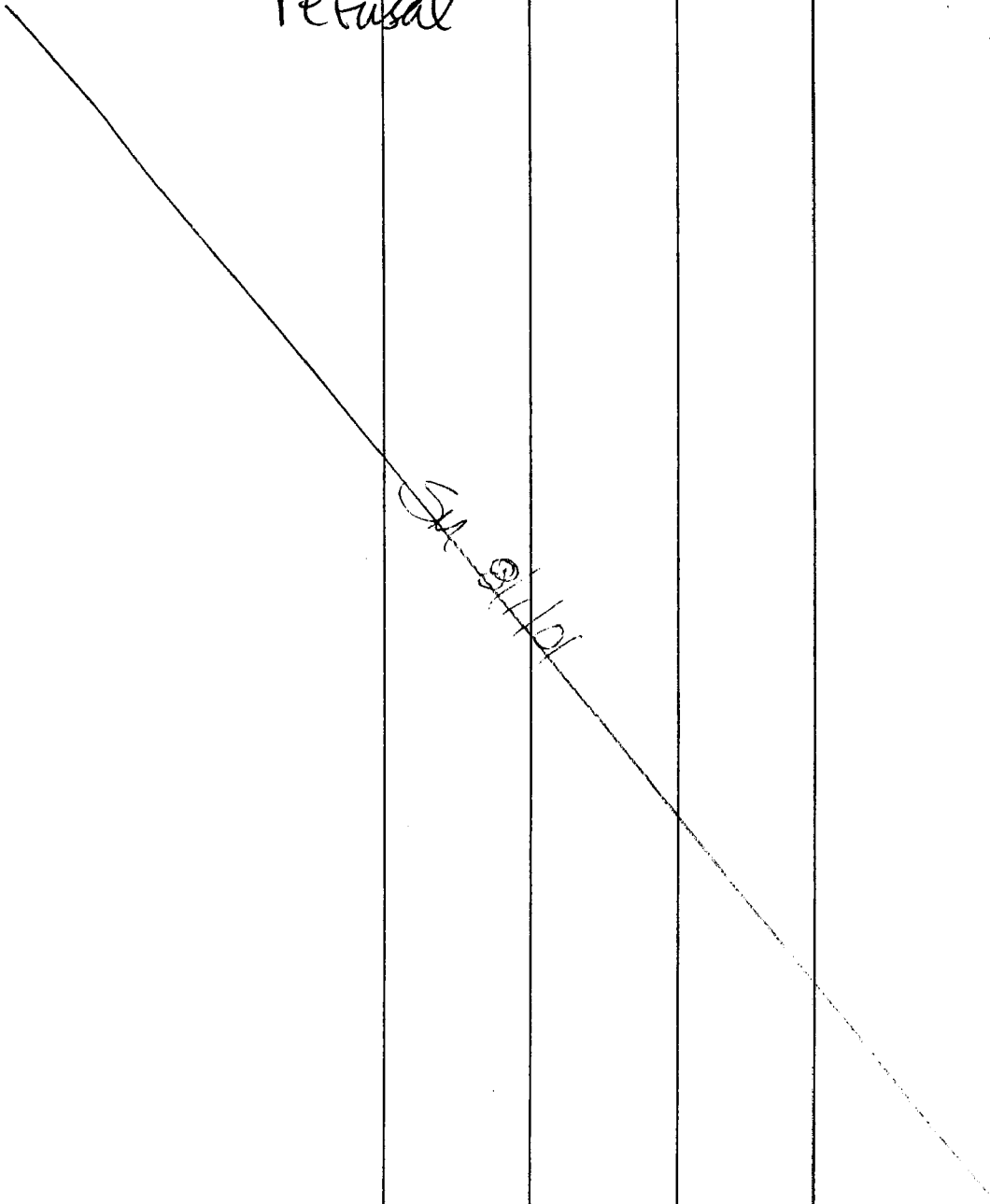
HTRW DRILLING LOG						HOLE NUMBER 129
PROJECT: RVAAP, Load Line 2 Phase II RI				INSPECTOR <i>Grotton</i>		SHEET 5 OF 6
ELEV. (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO. (F)	REMARKS (G)
	(4)	moist, plastic, lean clay matrix is gray (10YR 5/1) w/ abundant brownish yellow (10YR 6/8) mottles	Ø.Ø ppm 13896 PID	NA	420859 421165 421190	
	1.0					

HTRW DRILLING LOG

PROJECT: RVAAP, Load Line 2 Phase II RI

INSPECTOR *Groton*

HOLE NUMBER *130*
SHEET *6* OF *6*

ELEV. (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO (F)	REMARKS (G)
	<i>(4)</i> 1.0	moist to dry, poorly graded gravel with silt (dark yellowish brown (WYKWH)) ↓	0.0 ppm 13896 PID	NA	LL20862	refusal at 10-11 in. bgs
	2.0	same as 1.0 ft ↓	0.0 ppm PID 13854	NA	LL20863 ↓	increasing moisture content w/ depth
refusal 						

PROJECT: RVAAP, Load Line 2 Phase II RI

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HOLE NUMBER *130*

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HTRW DRILLING LOG						HOLE NUMBER 131
PROJECT: RVAAP, Load Line 2 Phase II RI			INSPECTOR Gordon		SHEET 2 OF 6	
ELEV. (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO (F)	REMARKS (G)
	1.0	dry to moist, dark yellowish brown (10YR 4/4) poorly graded gravel w/ silt	Ø. Ø ppm PID 13896	NA	H2Ø865	
See cell 10						

HTRW DRILLING LOG

HOLE NUMBER 42-132

PROJECT: RVAAP, Load Line 2 Phase II RI

INSPECTOR Griston

SHEET 2 OF 6

ELEV. (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO (F)	REMARKS (G)
	0.0	moist, granular, very dark brown (10 YR 3/2) gravel (slay) w/ sand	0.0 ppm 13896 PID	NA	LL20868	
	1.0	gray (N6/0) and strong brown (7.5 YR 5/6) mottles;	0.0 ppm PID	NA	LL20869 LL21185	JAL
	2.0	moist, plastic, fat clay; black (N 2.5/6) large mottles	13854		LL21210	
		yellowish brown (10 YR 5/6) sandy clay				
	3.0	same as 1.0-2.5 ft. Sandy clay 10 YR 5/6 yellowish brown with N6/0 grey clay (fat, mottled)	0.0 ppm PID 13854	NA	LL20870	
SM 8/1/12						

PROJECT: RVAAP, Load Line 2 Phase II RI

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HOLE NUMBER 42-132

HTRW DRILLING LOG

HOLE NUMBER 133

PROJECT: RVAAP, Load Line 2 Phase II RI

INSPECTOR

SHEET 6 OF 6

ELEV (A)	DEPTH (B) (ft)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO. (F)	REMARKS (G)
	1.0	mostly dry, dark brown (10YR 3/3), lean clay with gray (10YR 5/1) and yellowish brown (10YR 5/8) mottles, subangular pieces of sandstone	0-0 ppm 13854 PID	NA	LL20871	
	2.0	Same as 1.0 ft moist, gray (10YR 5/1) plastic, fat clay w/ yellowish brown (10YR 5/8) mottles, coarse	0-0 ppm		LL20872	
	3.0	same, damp				
	3.2	Refusal on rock				Sample LL20873 @ 101d
J. W. Dwyer 7-30-01 54 8/1/01						

PROJECT: RVAAP, Load Line 2 Phase II RI

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HOLE NUMBER

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HTRW DRILLING LOG						HOLE NUMBER 134
PROJECT: RVAAP, Load Line 2 Phase II RI			INSPECTOR <i>Grotr</i>		SHEET 5 OF 6	
ELEV. (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO (F)	REMARKS (G)
	1.0	mostly dry, yellowish brown (10 YR 5/4) lean clay with gray (10 YR 5/1) and yellowish brown (10 YR 5/8) mottles, subangular pieces of sandstone	φ. φ ppm 13854 PID	NA	LL2φ874	
	2.0	dm. lean, gray (10 YR 5/1) clay and gravel with yellowish brown (10 YR 5/8) subangular pieces of sandstone & RR slag	φ. φ ppm PID 13854	NA	LL2φ875	
refusal at 27 inches						

HTRW DRILLING LOG

HOLE NUMBER **135**

PROJECT: RVAAP, Load Line 2 Phase II RI

INSPECTOR **Grotton**

SHEET **6** OF **6**

ELEV. (A)	DEPTH (B) (ft)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO. (F)	REMARKS (G)
	1.0	moist, dark yellowish brown (10 YR 4/4), well- graded sand	0.0 ppm PID 13854	NA	420877	

PROJECT: RVAAP, Load Line 2 Phase II RI

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HOLE NUMBER **135**

HTRW DRILLING LOG

HOLE NUMBER 136

PROJECT: RVAAP, Load Line 2 Phase II RI

INSPECTOR *Coston*

SHEET 5 OF 6

ELEV (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO (F)	REMARKS (G)
	<i>(ft)</i> 1.0	<i>moist, brownish yellow (H&R 6/6) well-graded Sand</i>	<i>0.0 ppm PID 13854</i>	<i>NA</i>	<i>LL20878</i>	
<i>8/1/21</i>						

PROJECT: RVAAP, Load Line 2 Phase II RI

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HOLE NUMBER 136

HTRW DRILLING LOG

PROJECT: RVAAP, Load Line 2 Phase II RI

INSPECTOR *Gorton*

HOLE NUMBER *137*
SHEET *4* OF *6*

ELEV. (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO. (F)	REMARKS (G)
	<i>(ft)</i>	<i>moist, dark yellowish brown (10YR 4/6) poorly graded sand with clay and gravel (small angular pieces of sandstone)</i>	<i>0.4 ppm PID 13854</i>	<i>NA</i>	<i>LL26879</i>	<i>See narrative on pg 49 & location map on pg 54</i>

PROJECT: RVAAP, Load Line 2 Phase II RI

A-120

HOLE NUMBER *136*
LL2137

HTRW DRILLING LOG

PROJECT: RVAAP, Load Line 2 Phase II RI

INSPECTOR

Gordon

HOLE NUMBER

139

SHEET 4 OF 6

ELEV (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO (F)	REMARKS (G)
	(ft)	dry, brown (10 YR 4/3) silt w/ angular pieces of SS gravel up to 1 in. esd	φ. φ ppm 13896 PID	NA	420881	
	1.0	139 0.81 1.0				

PROJECT: RVAAP, Load Line 2 Phase II RI

A-121

HOLE NUMBER

139

HTRW DRILLING LOG

HOLE NUMBER **442-140**

PROJECT: RVAAP, Load Line 2 Phase II RI

INSPECTOR **G. Eaton**

SHEET **3** OF **6**

ELEV (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO (F)	REMARKS (G)
	(ft)	dry gravel (slag) with sand; gravel ranged from 0.5 to 2 in. + esd refusal at 0.75 ft	0.0 ppm 13896 P.D.	NA	LL20884	
	1.0	140 11/10/17				

HTRW DRILLING LOG

HOLE NUMBER 141

PROJECT: RVAAP, Load Line 2 Phase II RI

INSPECTOR Grotton

SHEET 3 OF 6

ELEV (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO. (F)	REMARKS (G)
	1.6	most to dry silt w/ gravel dark brown (10 YR 3/3) gravel angular to subangular pieces of native sandstone	P.O. ppm 13896 PID	NA	424887 421172 421197	
A-123						

PROJECT: RVAAP, Load Line 2 Phase II RI

A-123

HOLE NUMBER

141

3

HTRW DRILLING LOG						HOLE NUMBER 142
PROJECT: RVAAP, Load Line 2 Phase II RI			INSPECTOR Grotton		SHEET 4 OF 6	
ELEV (A)	DEPTH (B) (ft)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO (F)	REMARKS (G)
	1.0	dry, brown (10YR 5/3) lean clay with gravel, angular to subangular pieces of sand-stone	φ. φ ppm 13854 PID	NA	LL20890	
Drill bit						

HOLE NUMBER

HTRW DRILLING LOG					HOLE NUMBER	
PROJECT: RVAAP, Load Line 2 Phase II RI			INSPECTOR: Kathryn C McCormick		SHEET 1 OF 1	
ELEV (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO. (F)	REMARKS (G)
	0.5'	(SP) Poorly graded Sand, trace silt fine Sand, pea gravel - subrounded to rounded, loose, Brown 10YR 4/3 dry w/ surface vegetation			LL2992E @ 0.420	1/8" metal wire + a bolt in hole
	1.0'	(-P) Poorly graded Gravel - & Sand, Fine to med. gravel, fine sand, angular Brown 10YR 4/3, dry		KCM 7/27/01		Refusal @ 1.0' Bes
A-130 01/10/01						

PROJECT: RVAAP, Load Line 2 Phase II RI

INSPECTOR Kathryn C McCormick

SHEET / OF /

HOLE NUMBER

HTRW DRILLING LOG					LL2-151		HOLE NUMBER
PROJECT: RVAAP, Load Line 2 Phase II RI			INSPECTOR: Kathryn C. McCormick			SHEET 1 OF 1	
ELEV (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO (F)	REMARKS (G)	
		CONCRETE					
	0.5'	(SW) Well graded sand (Subbase fill) w/ fine gravel, loose, surrounded BROWN T.S.YR 4/3, damp		1/2 km	LL2-0917 w/ 0825		
	1.0'	(CL) CLAY, medium plasticity mottled BROWN T.S.YR 5/2 and Strong BROWN T.S.YR 4/6, DRY				10cm 7/27/01	
		SM 8/1/01					

LL2-152

69

INSPECTOR Kathryn C. McCormick

SHEET / OF /

[illegible]

HTRW DRILLING LOG						LL2-153	HOLE NUMBER
PROJECT: RVAAP, Load Line 2 Phase II RI				INSPECTOR Kathryn C McCormick		SHEET 1 OF 1	
ELEV (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO (F)	REMARKS (G)	
		Concrete				Below 3 in of water in hole. Water was bailed out before weighing.	
	0.5'	(SW) Wellgraded Sand (SUBBASE FILL) w/ Angular Gravel & silt, to subrounded Brown id yr 4/3, moist			LL20919 @ 0400		
	1.0'	(CL) CLAY, silty plasticity, Brown 7.5 yr 4/3 LIGHT OLIVE BROWN 2.5 yr 4/3				KCM 7/27/01	
S.M. 8/11/01							

HTRW DRILLING LOG					LL2-154		HOLE NUMBER
PROJECT: RVAAP, Load Line 2 Phase II RI			INSPECTOR: <i>V. McCormick</i>			SHEET 1 OF 1	
ELEV. (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO (F)	REMARKS (G)	
	0.5	(CL) silty clay, low plasticity, trace gravel angular, trace fine sand, loose, Brown 10YR 4/3, dry			LL20920 @ 1055		
	1.0'					KCM 7/27/01	
<i>SEALED 8/1/01</i>							

85

HTRW DRILLING LOG					HOLE NUMBER	
PROJECT: RVAAP, Load Line 2 Phase II RI			INSPECTOR: Kathryn C. McCormick		SHEET 1 OF 1	
ELEV (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO. (F)	REMARKS (G)
	0.5'	CLAYEY KCM (ML) Silt w/ medium to coarse sand, fine gravel angular to subrounded, loose, Yellowish Brown 10YR 5/4, dry	7/27/01		LL2-923 @ 1545	w/ Surface Vegetation
	1.0'	(CL) Sandy Clay w/ gravel, med - coarse sand, fine - med gravel, subangular to subrounded, loose, Dark Yellowish Brown 10YR 4/4				RETAINED @ 0.9' DEEP KCM 7/27/01

84

HTRW DRILLING LOG						HOLE NUMBER
PROJECT: RVAAP, Load Line 2 Phase II RI			INSPECTOR: Kathryn C McLoonich		SHEET 1 OF 1	
ELEV. (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO. (F)	REMARKS (G)
	0.5'	^{KCM 7/27/01} (ML) Silt, clastic , w/ some clay and fine & coarse sand, trace fine gravel subangular yellowish brown 10R 5Y4, dry w/ surface vegetation			LL20926 @ 1520	
	1.0'					^{KCM 7/27/01}
DU 8/1/01						

SHEET , OF)

HOLE NUMBER

12

HTRW DRILLING LOG				LL2-158		HOLE NUMBER
PROJECT: RVAAP, Load Line 2 Phase II RI			INSPECTOR: Kathryn C Mc Cormick			SHEET 1 OF 1
ELEV. (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO (F)	REMARKS (G)
	0.5'	(ML) Silt w/ trace fine Sand, trace Clay, trace Gravel, non- plastic - Dark Yellowish Brown 10YR 4/4, dry w/ surface vegetation			LL20932 Duplicate LL21180 Split LL21205 @ 1000	
	1.0'	(GP) Poorly Graded Gravel - Fine, Large Gravel, subangular to angular, w/ some Silt, Dark Yellowish Brown 10YR 4/4, clay			1000	Refusal @ 0.9' BGS
SM 01/10/1						

HOLE NUMBER

PROJECT: RVAAP, Load Line 2 Phase II RI

INSPECTOR Kathryn C Mc Cormick.

SHEET 7 OF 1

[illegible]

HOLE NUMBER LL2-160

INSPECTOR

SHEET / OF /

HOLE NUMBER LL2-160

HTRW DRILLING LOG

HOLE NUMBER **LL2-161**

PROJECT: RVAAP, Load Line 2 Phase II RI

INSPECTOR **B. Williams**

SHEET **1** OF **1**

ELEV. (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEO TECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO. (F)	REMARKS (G)
	0.5 1.0	CLAY WITH TRACES OF SAND AND GRAVEL, MOIST, (CL), STIFF, SLIGHTLY TO MODERATELY PLASTIC, LIGHT OLIVE BROWN (2.5Y5/3) 0.5-1.0 MOTTLED YELLOWISH BROWN (10YR 5/8)	0.0 PPM	N/A	LL2-0941 1700	ANALYZED FOR: METALS, PHS AND EXPLOSIVES
09-24-01 15						

PROJECT RVAAP, Load Line 2 Phase II RI

A-143

HOLE NUMBER **LL2-161**

HTRW DRILLING LOG

HOLE NUMBER **LL2-162**

PROJECT: RVAAP, Load Line 2 Phase II RI

INSPECTOR **B. Williams**

SHEET **1** OF **1**

ELIV (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C) WITH TRACES OF ANGULAR GRAVEL	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO (F)	REMARKS (G)
	0.5	SANDY CLAY (CL), MOIST, SAND IS FINE GRAINED AND ANGULAR, MEDIUM STIFF, SLIGHTLY PLASTIC, YELLOWISH BROWN (10YR 5/6)	Φ. Φ DPM	N/A	LL2-0944 0928	ANALYZED FOR: HCS, PCBs, METALS, AND EXPLOSIVES
	1.0	Φ 0-1.0 - SAME AS ABOVE BUT LESS SAND.				
	1.5	same as above, dry				Sample LL2-0945 @ 1045
	2.0					
	2.5					
	3.0					
		J. C. Layton 7-31-01				
		09-24-01 SU				

PROJECT: RVAAP, Load Line 2 Phase II RI

A-144

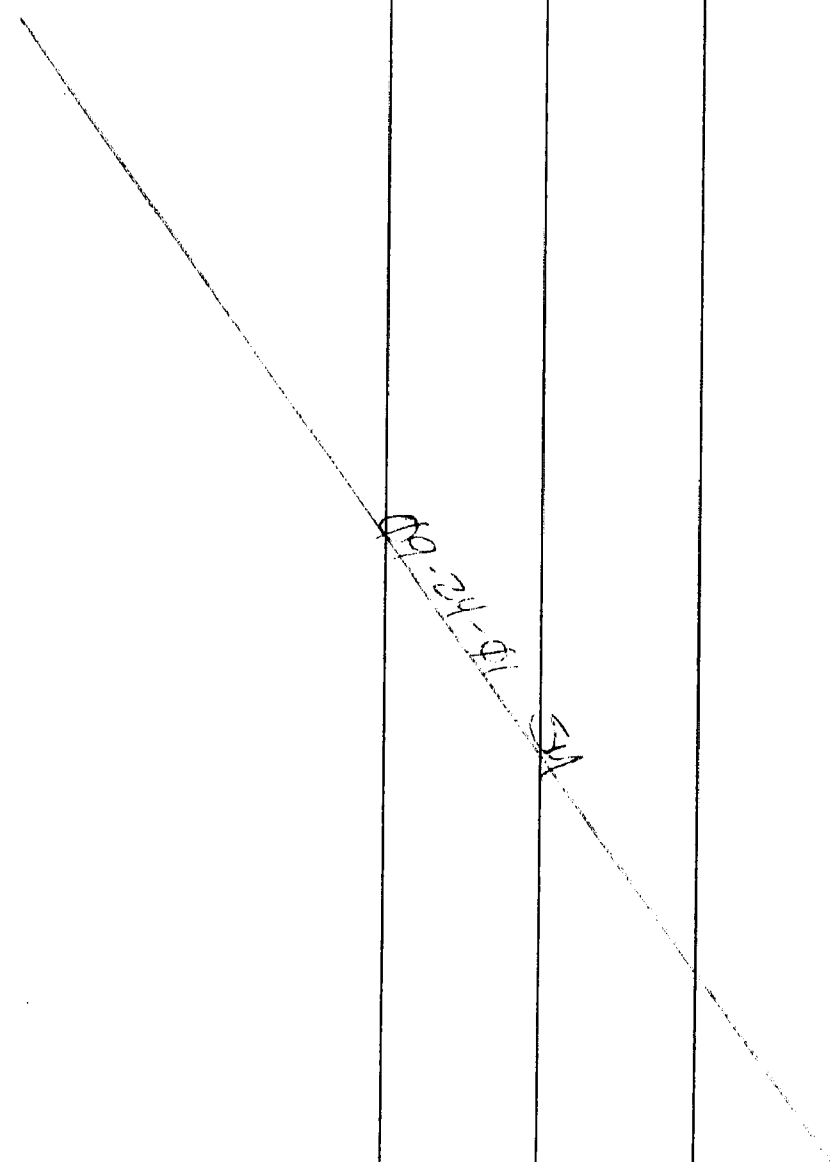
HOLE NUMBER **LL2-162**

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HTRW DRILLING LOG						HOLE NUMBER LL2-163
PROJECT: RVAAP, Load Line 2 Phase II RI			INSPECTOR <i>B. Williams</i>		SHEET 1 OF 1	
ELEV (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO (F)	REMARKS (G)
	0.5 1.0	SANDY CLAY WITH TRACES OF ANGULAR GRAVEL (CG), MOIST, SAND IS FINE GRAINED AND ANGULAR, MEDIUM STIFF, SLIGHTLY PLASTIC, YELLOWISH BROWN (10YR 5/6) 0.6-1.0 - SAME AS ABOVE BUT LESS SAND.	0.0 PPM	N/A	LL2-19947 10925	ANALYZED FOR: METALS, PCBS, EXPLOSIVES PAINT CHIPS
10.24 11 12						

0.5
1.0

12

HTRW DRILLING LOG						HOLE NUMBER LL2-164
PROJECT: RVAAP, Load Line 2 Phase II RI			INSPECTOR B. Williams		SHEET 1 OF 1	
ELEV (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO (F)	REMARKS (G)
	0.5 1.0	CLAY WITH SOME GRAVEL (CL), MOIST, SLIGHTLY TO MODERATELY PLASTIC, GRAVEL IS ANGULAR, MODERATELY STIFF, BROWN, (10/42 5/3)	0.0 PPM	N/A	LL2-0954 LL2-1167 DUPLICATE LL2-1192 SPLIT	ANALYZED FOR: SOCS, UCS, PCBS, PESTICIDES, METALS, CYANIDE, AND EXPLOSIVES GLASS, PAINT CHIPS, BRICK
						

PROJECT: RVAAP, Load Line 2 Phase II RI

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HOLE NUMBER LL2-164

HTRW DRILLING LOG

HOLE NUMBER **LL2-165**

PROJECT: RVAAP, Load Line 2 Phase II RI

INSPECTOR *B. Williams*

SHEET **1** OF **1**

ELEV (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO (F)	REMARKS (G)	
	11.5 PERFORM	WELL GRADED GRAVEL W/ SAND (GP), NEIST, DENSE, BLACK (10YR 2/1) FRAGMENTS	Φ-Φ PPM	N/A	LL2-0953 14.5	ANALYZED FOR: VOCs, SVOCs, PCBS, PESTICIDES, METALS, CYANIDE, AND EXPLOSIVES - PAINT CHIPS, PLASTIC, GLASS	
	11.6						

24-01 54

HOLE NUMBER LL2-166

INSPECTOR P. Lucot

SHEET 1 OF 1

ELEV (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO (F)	REMARKS (G)
	0.5'	POORLY GRADED GRAVEL WITH TRACES OF SILT (GP-GM), MOIST, VERY DENSE, ANGULAR, COARSE, VERY DARK GRAYISH BROWN (10YR 7/2) Rockwires	0.0 ppm	N/A	LL2-0956 1625	-Pison Ivy on surface -R.R. Ballast gravel -Several nails and pieces of glass on/or near surface ANALYZED FOR: VOC, SVOC, PCB, METALS & EXPLOSIVES
	1.0'					
	1.5'	Sandy gravel (GW) gravel with graded, angular, into coarse, dense, and moist and c. Dark yellowish brown (10YR 7/4)	0.0 ppm	NA	LL2- 0957 1458	Track has cleared R12 ballast to 2.5' ft. bgs, sample collected from sidewalk at excavation on 1.0-2.5' and 2.5-3.0' collected by auger from floor of excavation 7-29-01
	2.0'					
	2.5'					
	3.0'					
		09-24-01 Seal				

PROJECT: RVAAP, Load Line 2 Phase II RI
A-148
HOLE NUMBER LL2-166

HTRW DRILLING LOG						HOLE NUMBER LL2-167
PROJECT: RVAAP, Load Line 2 Phase II RI			INSPECTOR B. Williams		SHEET 1 OF 1	
ELEV. (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEO TECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO. (F)	REMARKS (G)
	0.5'	Poorly graded GRAVEL with traces of silt (sp-gm), moist, very dense, angular, coarse, very dark grayish brown (10 & R 8/2).	$\phi-\phi$ PPM	N/A	LL2-0959 1622	ANALYZED FOR: VOC's, SVOC's, PCB'S, METALS, AND EXPLOSIVES
	1.0' - 1.5' 2.0'	CLAY with traces of sand and gravel (cl), moist, soft to moderately stiff, slightly to moderately plastic, sand is angular, gravel is fine and angular, olive brown (10 & R 4/3)	$\phi-\phi$ ppm	N/A	LL2-0960 7/29/01 @ (#55) JRL 1415	Analyzed For Metals & Explosives (#PCBS, JRL PCBs) JRL (Refusal on Rock @ 2.0')
	2.5'					
	3.0'					
A hand-drawn sketch across the bottom half of the log shows two distinct soil layers dipping towards the right. The upper layer contains some small circles representing pebbles or gravel. A diagonal line labeled "Q9-24-Q1" runs through both layers.						

LL2-170

5

[illegible]

PROJECT: RVAAP, Load Line 2 Phase II RI

INSPECTOR, KATHRYN C. McLENNICH

SHEET / OF /

[illegible]

HOLE NUMBER

PROJECT: RVAAP, Load Line 2 Phase II RI

INSPECTOR

SHEET / OF

PROJECT: RVAAP, Load Line 2 Phase II RI

A-154

HOLE NUMBER

ER 112-173

INSPECTOR

MATT ROOT

SHEET / OF

43-174

HOLE NUMBER 442-175

INSPECTOR B. Williams

SHEET / OF /

PROJECT	RVAAP, Load Line 2 Phase II RI	A-156	HOLE NUMBER	LL2-175
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HTRW DRILLING LOG

HOLE NUMBER LL2-176

PROJECT: RVAAP, Load Line 2 Phase II RI

INSPECTOR

B. Williams

SHEET 1 OF 1

ELEV. (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO. (F)	REMARKS (G)
REFUSAL	0.5	CLAYEY GRAVEL WITH SOME SAND (GW-GC), MOIST, WELL GRADED, ANGULAR GRAVEL, DENSE, YELLOWISH BROWN (184R S/B) ROOTLETS	P.Φ PPM	N/A	LL2-098Φ FOR BW Φ 7-27-41	ANALYZED FOR: METALS, C-16, PCB, AND EXPLOSIVES
Dr. 2H-01 SA						

HOLE NUMBER U2-178

SHEET 1 OF 1

PROJECT: RVAAP, Load Line 2 Phase II RI

INSPECTOR

SHEET 1 OF 1

[illegible]

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HTRW DRILLING LOG						HOLE NUMBER LL2-180
PROJECT: RVAAP, Load Line 2 Phase II RI			INSPECTOR B. W. H.		SHEET 1 OF 1	
ELEV (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO (F)	REMARKS (G)
	0.5	SILTY CLAY WITH SOME SAND (CL), DRY (DUSTY), SOFT, SLIGHTLY PLASTIC, DARK GRAYISH BROWN, 1 1/2 YR. WITH ROOTS	0.5 TPM	N/A	LL2-0992	
	1.0	REFUSAL				
A-161						

0.5
1.0

0.25-0.1
1/6

HOLE NUMBER 12-181

HTRW DRILLING LOG

HOLE NUMBER LL2184

PROJECT: RVAAP, Load Line 2 Phase II RI

INSPECTOR C. Canoll

SHEET 1 OF 1

ELEV (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO (F)	REMARKS (G)
	0.5 1.0	Silty clay w/ some gravel (CL) moist, slightly to moderately plastic gravel angular brown (10 YR 5/3)	Φ. Φ ppm PID didn't reg. strong odor	N/A	LL2 0833 8-13-01 @ 0905	to "steel pipe broken off at 65" - odor not site - methanol? - roots
NO HITS Kew 8/27/01						

PROJECT: RVAAP, Load Line 2 Phase II RI

A-163

HOLE NUMBER LL2184

74

HTRW DRILLING LOG						LLZ-186	HOLE NUMBER
PROJECT: RVAAP, Load Line 2 Phase II RI			INSPECTOR <i>V. McCormick</i>			SHEET 1 OF 1	
ELEV. (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO. (F)	REMARKS (G)	
	0.5'	(SW) well graded sand, loose, some fine gravel, subrounded to rounded			LLZ1010 @ 0955		
	1.0'	Dark Yellowish Brown 10YR 4/4, dry				VCN 8/25/01	
<i>SLT 8/11/01</i>							

HTRW DRILLING LOG						HOLE NUMBER
PROJECT: RVAAP, Load Line 2 Phase II RI			INSPECTOR		SHEET 1 OF 1	
ELEV (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO (F)	REMARKS (G)
	0.0	GRAVELEY SAND WITH TRACES OF SILT	Φ.Φ PPM	N/A	LL2-1010	ANALYZED FOR: METALS, PCBs, AND EXPLOSIVES
REFUSAL	0.5	TO SUB ANGULAR, MOIST, LOOSE DARK YELLOWISH BROWN (10YR 3/4)	Φ.Φ PPM	N/A	LL2-1017	Φ.1 FT → CHANGE TAINT ON SURFACE Φ.1 FT → WINDOW GUARD
REFUSAL IN ALL HOLES	1.0	SANDY GRAVEL GRAVEL IS WELL SORTED, ANGULAR TO BOUNDED, 1/4" (V.R.T), MOIST, YELLOW (10YR 7/6)			NOT SENT	ANALYZED FOR: METALS, C.H.G, EXPLOSIVES TO LABS FOR ANALYSIS
Φ.Φ - 24-0 SM						

442-189

HOLE NUMBER

INSPECTOR *K McCormick*

SHEET 1 OF 1

A-167

442-189

HOLE NUMBER

LLZ-194

PROJECT: RVAAP, Load Line 2 Phase II RI

INSPECTOR K. McCormick

SHEET 1 OF 1

PROJECT:	RVAAP, Load Line 2 Phase II RI	A-168	LL2-194	HOLE NUMBER
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HOLE NUMBER

SHEET / OF /

PROJECT:	RVAAP, Load Line 2 Phase II RI	A-170	LL2-196	HOLE NUMBER
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LL2-197

HOLE NUMBER

23

PROJECT: RVAAP, Load Line 2 Phase II RI

INSPECTOR K Mc Cormick

SHEET 1 OF 1

ELEV (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO (F)	REMARKS (G)
	0.5 1.0	ML-SILT, trace Clay, not plastic, Yellowish Brown 10YR 5/4, dry	n/A	n/A	2221037 @ 1346	
9/27/01 cc no hits						
PROJECT: RVAAP, Load Line 2 Phase II RI A-171 112-197 HOLE NUMBER						

PROJECT: RVAAP, Load Line 2 Phase II RI

A-171

LL2-197

HOLE NUMBER

22

HTRW DRILLING LOG						U2-198	HOLE NUMBER
PROJECT: RVAAP, Load Line 2 Phase II RI			INSPECTOR J. DeYoung			SHEET 1 OF 1	
ELEV. (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO (F)	REMARKS (G)	
	0'	ML Silt, trace clay, gravelly, dry. firm, not plastic 104R6/4 lt. yellowish brown	n/a	n/a		Sample U21038 @ 1130	
	1'	J. DeYoung 7-31-01					
		8/27/01 CC no hits					
		7					

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PROJECT: RVAAP, Load Line 2 Phase II RI

A-172

U2-198

HOLE NUMBER

14

HTRW DRILLING LOG						HOLE NUMBER
PROJECT: RVAAP, Load Line 2 Phase II RI			INSPECTOR		SHEET 1 OF 1	
ELEV (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO (F)	REMARKS (G)
	0'	ML-Silt with clay, dry, not plastic, firm, fine small gravel, not plastic, 10YR 6/4 Lt. yellowish brown	N/A	N/A		Sample LL2-200 at 0040
	1'	J. DeVaughn 7-31-01				
no hits 8/27/01 cc						

15

SHEET OF

no hits 5/27/01 cc

HOLE NUMBER

SHEET 1 OF 1

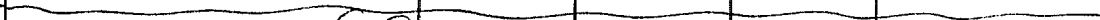
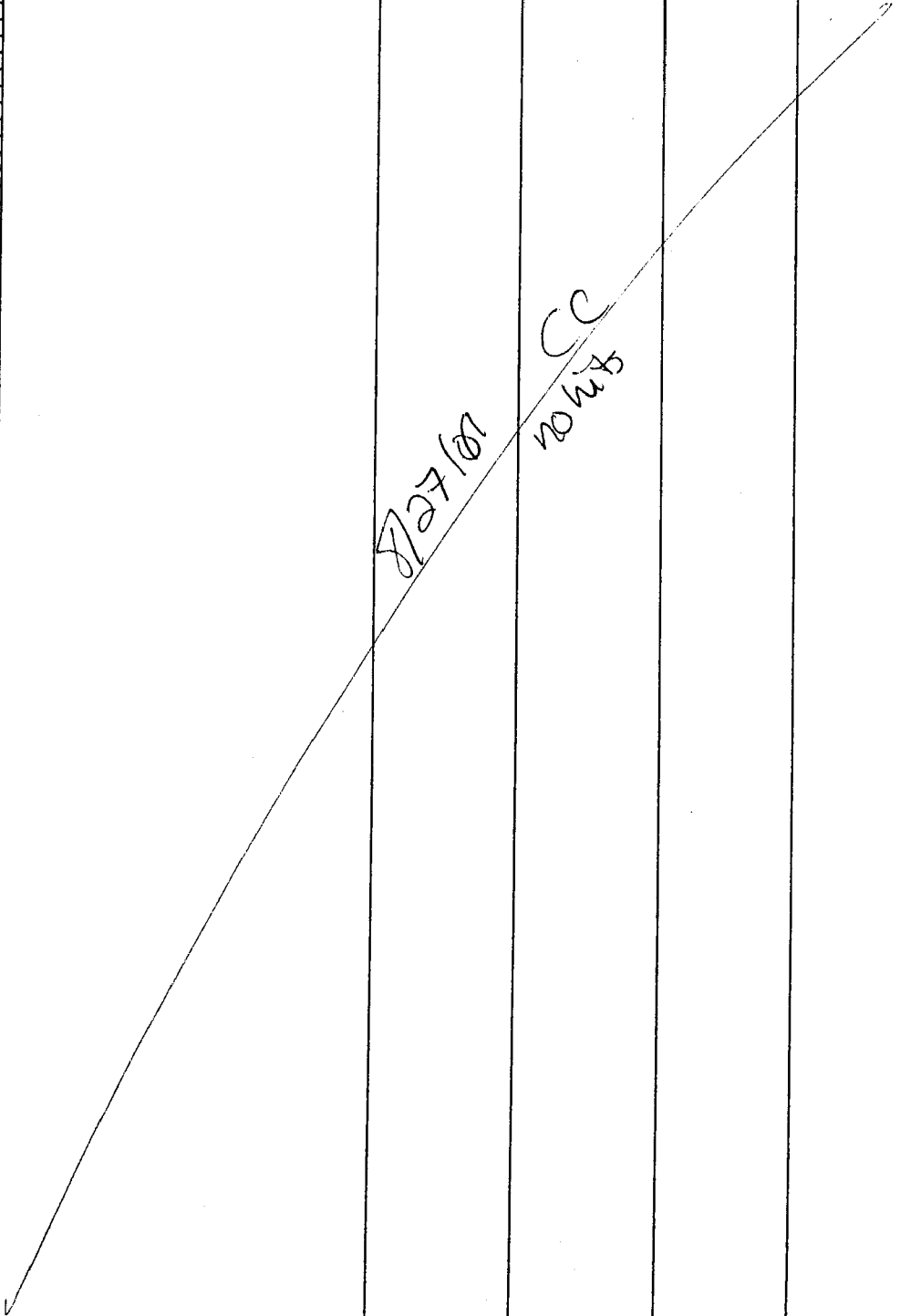
PROJECT:	RVAAP, Load Line 2 Phase II RI	A-176	662-202	HOLE NUMBER
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PROJECT: RVAAP, Load Line 2 Phase II RI

INSPECTOR

J. De Vangheluwe

SHEET 4 OF 4

ELEV. (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO. (F)	REMARKS (G)
	0'	ML-Silt with clay, dry, firm, not plastic, some gravel 104R5/4 yellowish brown	N/A	N/A		Sample LL21043 @ 1015
	1'	 <i>John 7-3-01</i>				
		 <i>7/27/01</i> <i>CC</i> <i>4m</i> <i>2015</i>				

HTRW DRILLING LOG					42-204		HOLE NUMBER
PROJECT: RVAAP, Load Line 2 Phase II RI			INSPECTOR J. DeVaughn		SHEET 1 OF 1		
ELEV. (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO (F)	REMARKS (G)	
	0'	ML-Silt with clay, dry, firm, trace gravel, not plastic 104R 6/4 H. yellowish brown	n/A	n/A		Sample 421044 @ 0945	
	1'	J. DeVaughn 7-31-01					
		8/27/01 CC no hits					
		A-178					
		PROJECT: RVAAP, Load Line 2 Phase II RI				42-204	
						HOLE NUMBER	

PROJECT: RVAAP, Load Line 2 Phase II RI

INSPECTOR

SHEET / OF /

ELEV
(A)DEPTH
(B)

DESCRIPTION OF MATERIALS

HEADSPACE SCREENING RESULTS

GEOTECH
SAMPLE
OR CORE BOX

ANALYTICAL
SAMPLE NO.
(F)REMARKS
(G)

Job:
location
and alt.
ast of map location

05

05

 i, ϕ

ML - fine sandy silt w/
little gravel (< 5%), light
olive brown, 2.5Y 6/3, dry
surface, veg. present
Refusal @ 0.5' BGS

NA

NA

LL21045
@1645

Matthew Ruff
7/30/01

8/27/81 cc no hts

4

rather good

INSPECTOR

Walter Ford

4

A-180

HOLE NUMBER

ER LL2-204

44-2-207

7

INSPECTOR

SHEET / OF

HOLE NUMBER 112-20

[illegible]

SHEET / OF

PROJECT: RVAAP, Load Line 2 Phase II RI

INSPECTOR

ELEV
(A)DEPT 10
(B)

DESCRIPTION OF MATERIALS

HEADSPACE SCREENING RESULTS

GEOTECH
SAMPLE
OR CORE BOX

ANALYTICAL
SAMPLE NO.
(F)

REMARKS
(G)

0.5

1.4

MH - clayey silt w/ little
(5%) fine sand, brown,
7.5% 4/3 dry, surface
vegetation

NA

NA

LL21049
@K120

Refusal @ 0.5' BGS on
rocks + rock

Walter Kott 7/30/01

8/27/01

CC no huts

PROJECT: RVAAP, Load Line 2 Phase II RI

A-183

HOLE NUMBER

PROJECT: RVAAP, Load Line 2 Phase II RI

INSPECTOR

SHEET

OF

[illegible]

13

SHEET 1 OF 1

ELEV (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO (F)	REMARKS (G)
	0'	ML-Silt with some clay, 10YR 6/3 pale brown, firm, not plastic, dry (cobble at 0.5' in center hole)	n/A	n/A	U2-1051 8:10 @ 7/31/91	Sample U2-1051 @ 0.5'
	1'	J. DeDough 7-31-91				
		8-27-01 CC no hits				
PROJECT: RVAAP, Load Line 2 Phase II RI A-185 U2-211 HOLE NUMBER						

44

HTRW DRILLING LOG						HOLE NUMBER 213
PROJECT: RVAAP, Load Line 2 Phase II RI			INSPECTOR: Groton		SHEET 3 OF 6	
ELEV. (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO. (F)	REMARKS (G)
	1.0	Coarse rr ballast	Φ.Φ ppm PID 13896	NA	421053	
		yellowish brown (MRS6) lean clay	Φ.Φ ppm 13896	NA	421053	
	2.0	refusal				
C-1 8/1/81						

HOLE NUMBER 214

INSPECTOR

SHEET 2 OF 10

PROJECT.	RVAAP, Load Line 2 Phase II RI	A-187	HOLE NUMBER	442 214
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INSPECTOR

SHEET 6 OF 6

215

58

HTRW DRILLING LOG						HOLE NUMBER 216
PROJECT: RVAAP, Load Line 2 Phase II RI				INSPECTOR Gorton		SHEET 5 OF 6
ELEV (A)	DEPTH (B) (ft)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO. (F)	REMARKS (G)
	1.0	Coarse rr ballast (slag) up to 3 in. esd	NA 0.0 ppm 13896	NA	4421159	
	2.0	dark yellowish brown (w/ 2 4/10) clay sandy lean clay	0.0 ppm 13896	NA	4421056	
		MS refusal	PID			
SM 8114						

1.0

2.0

HTRW DRILLING LOG

HOLE NUMBER **217**

PROJECT: RVAAP, Load Line 2 Phase II RI

INSPECTOR **Groton**

SHEET **4** OF **6**

ELEV. (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO. (F)	REMARKS (G)
		Coarse r ballast (slay) up to 3 in. esd	NA	NA	NA	
		dark yellowish brown (to yellow) poorly graded sand w/ silt and gravel	Ø. 4 ppm PID	NA	U21057	
	1.0	refusal	13896			
OK 8/1/12						

PROJECT: RVAAP, Load Line 2 Phase II RI

A-190

HOLE NUMBER **217**

HOLE NUMBER 11224M

PROJECT: RVAAP, Load Line 2 Phase II RI

INSPECTOR

C. Canall

SHEET OF

OF

ELEV
(A)

DEPT
(8)

DESCRIPTION OF MATERIALS

HEADSPACE SCREENING RESULTS

GEOTECH
SAMPLE
OR CORE BOX

ANALYTICAL
SAMPLE NO
(F)REMARKS
(G)

Q5:

 $1.\phi$

(CL) Clay with some silt and traces of sand; gravel, moist, mod. plastic, gravel angular to subangular, moder. stiff, yellow mottled (10YR 7/4) - changed color at due to next grain (10YR 7/1) and yellowish brown (10YR 5/4) mottled

Ø.Ø ppm

N/A

420847
8-13-91
11:00

Leaves

KUM 8/27/01
NOTES

PROJECT: RVAAP, Load Line 2 Phase II RI

A-192

HOLE NUMBER LL2-244

HTRW DRILLING LOG

HOLE NUMBER **LL2 253**

PROJECT: RVAAP, Load Line 2 Phase II RI

INSPECTOR **C. Canall**

SHEET **1** OF **1**

ELEV. (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO (F)	REMARKS (G)
	0.5' 1.0'	(CL) Clay with some silt and traces of sand and gravel, moist, moder. plastic, graded angular to sub-angular, mod. stiff Yellow (10YR 7/6) - (changed to mottled color at 0.6 - 1.0 light gray (10YR 7/1) and yellowish brown (10YR 5/6)	ØØppn	N/A	LL2 Ø842 8-13-Ø1 14' Ø8	dig all holes under the roadway
<i>Ken 8/27/01</i> <i>NO HITS</i>						

PROJECT: RVAAP, Load Line 2 Phase II RI

A-193

HOLE NUMBER **LL2 253**

HOLE NUMBER 62-255

INSPECTOR

C. Canall

SHEET (OH

PROJECT:	RVAAP, Load Line 2 Phase II RI	A-194	HOLE NUMBER	62255
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HTRW DRILLING LOG						HOLE NUMBER (12 25)
PROJECT: RVAAP, Load Line 2 Phase II RI			INSPECTOR C. Canall		SHEET 1 OF 1	
ELEV (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO. (F)	REMARKS (G)
	0.5 1.0	Gravelly silt with some sand (mk) moist, stiff, slight to none plasticity, gravel angular graded (coarse to fine) Dark Gray or Brown (10% or 1/2)	Ø Ø ppm Refusal Center @ .5	N/A	LL-2-0845 8-13-81 16:25	Refusal in top 3 holes at .7 - Center hole refusal @ .5
6-13-81 cc						

60

HTRW DRILLING LOG

HOLE NUMBER U2257

PROJECT: RVAAP, Load Line 2 Phase II RI

INSPECTOR

C. Canall

SHEET 1 OF 1

ELEV (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO (F)	REMARKS (G)
	0.5 1.0	Sandy silt w/ some gravel and traces of clay (mL), most moderately stiff, slightly plastic, gravel is angular and poorly graded fine to med. grain. (104252)	ØØ ppm	N/A	U2 Ø846 8-14-ØØØ 8:25	1 of 3 holes refused @ 0.10 → roots and ants
<u>10m 8/27/01</u> <u>No hits</u>						

PROJECT: RVAAP, Load Line 2 Phase II RI

A-196

HOLE NUMBER U2257

HTRW DRILLING LOG

HOLE NUMBER **U2258**

PROJECT: RVAAP, Load Line 2 Phase II RI

INSPECTOR

C. Canall

SHEET 1 OF 1

ELEV (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO (F)	REMARKS (G)
	05 10	Sandy silt w/ some gravel and clay (m), moist stiff, non plastic gravel is well graded, angular yellowish brown (10% R5%)	0.0 ppm	N/A	U20864 8-14-91 9.05	- roots - cobble refusal @ 7 in 1 of 3 holes
REM 8/27/01 NO HITS						

PROJECT: RVAAP, Load Line 2 Phase II RI

A-197

HOLE NUMBER **U2258**

HOLE NUMBER 260

INSPECTOR C. Canall

SHEET { OF }

PROJECT: RVAAP, Load Line 2 Phase II RI

A-198

HOLE NUMBER 42-210

4

HTRW DRILLING LOG						HOLE NUMBER <u>LL2-274</u>
PROJECT: RVAAP, Load Line 2 Phase II RI			INSPECTOR <u>B. Williams</u>		SHEET <u>1</u> OF <u>1</u>	
ELEV. (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO (F)	REMARKS (G)
	0.5 1.0 [Scale markings from 0 to 100]	CLAY WITH SOME SILT AND TRACES OF GRAVEL (CL), MOIST, STIFF, MODERATELY PLASTIC, MOTTLED GRAY (10% S/L) AND YELLOWISH BROWN (10% S/E)	0.0 PPM	N/A	LL2 0686 08/25/01 408 FOR: METALS & EXPLOSIVES	ROOT FRAGMENTS, LESS THAN 0.1 FT OF DECOMPOSING LEAVES AND ORGANIC MAT'L CENTER HOLE IN DRY CHANNEL (DITCH)
8/27/01 cc no hts						

LL2-274
01-20-03

LL2-274
01-20-03

HOLE NUMBER LU-272

INSPECTOR

SHEET 1 OF 1

[illegible]

PROJECT: RVAAP, Load Line 2 Phase II R

A-200

HOLE NUMBER 442-272

PROJECT: RVAAP, Load Line 2 Phase II RI

INSPECTOR

P. Lucot

SHEET 1 OF 1

[illegible]

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