

APPENDIX B
SURFACE WATER/SEDIMENT LOGS

THIS PAGE INTENTIONALLY LEFT BLANK.

APPENDIX B
SURFACE WATER/SEDIMENT LOGS

LL2-046	B-5
LL2-048	B-7
LL2-049	B-9
LL2-050	B-11
LL2-052	B-13
LL2-053	B-15
LL2-054	B-17
LL2-055	B-19
LL2-182	B-23
LL2-183	B-25
LL2-185	B-27
LL2-212	B-29
LL2-226	B-31
LL2-227	B-33
LL2-228	B-35
LL2-229	B-37
LL2-230	B-39
LL2-231	B-41
LL2-232	B-43
LL2-233	B-45
LL2-234	B-47
LL2-235	B-49
LL2-236	B-51
LL2-237	B-53
LL2-238	B-55
LL2-239, 240, 254	B-57
LL2-242	B-60
LL2-245	B-62
LL2-246	B-64
LL2-247	B-66
LL2-248	B-68
LL2-249	B-70
LL2-250	B-72
LL2-251	B-74
LL2-252	B-76
LL2-259	B-78
LL2-271	B-80
LL2-254	B-82

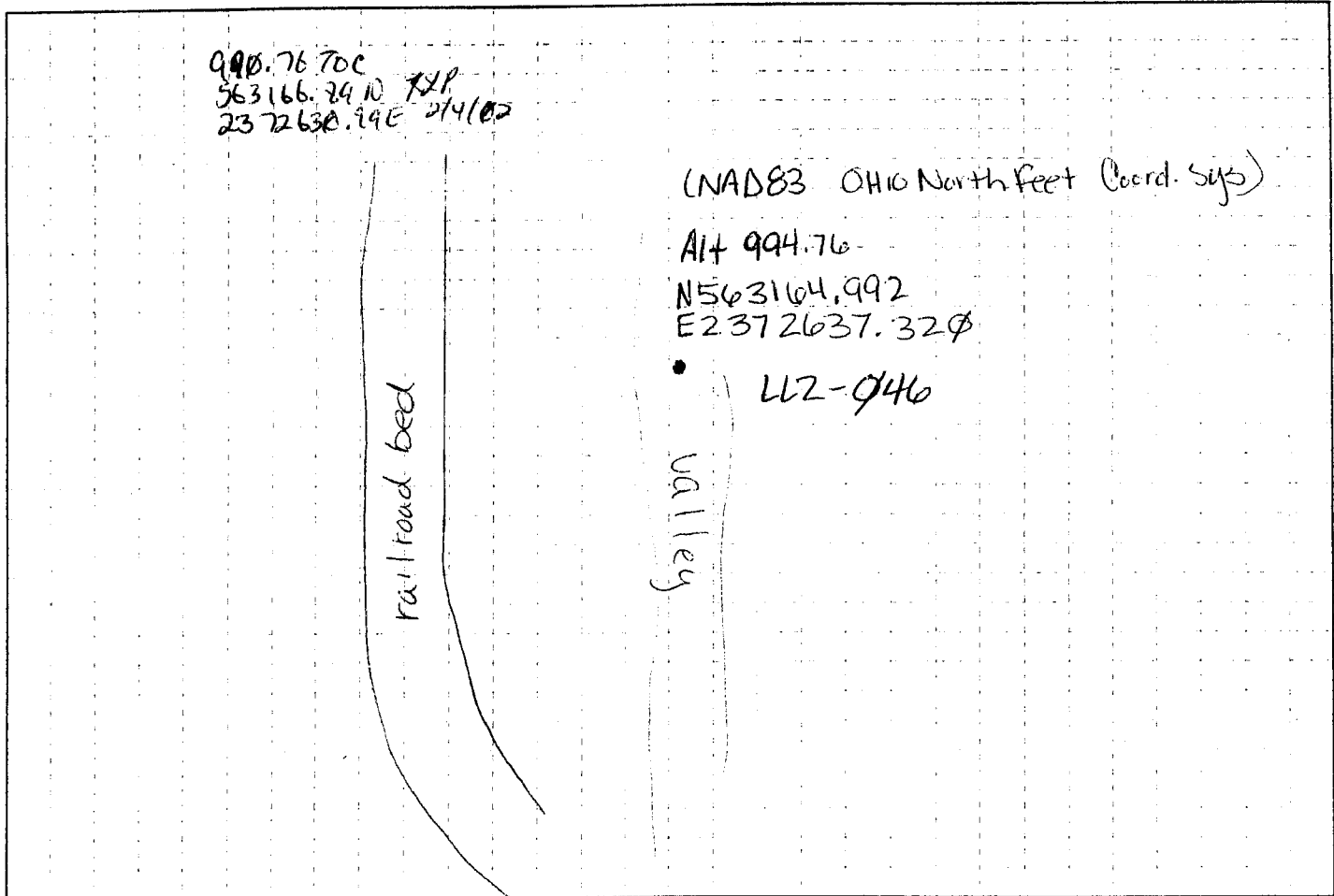
THIS PAGE INTENTIONALLY LEFT BLANK.

LOCATION SKETCH

PROJECT NO: Load Line 2 Phase I RI

DELIVERY ORDER NO ECAS 186

STATION ID NUMBER: LL2 - 046	STATION DESCRIPTOR: in a low lying depression
SEDIMENT ID NUMBER: LL21098	SEDIMENT DATE & TIME: 7/29/01 1520
SURFACE WATER ID NUMBER:	SURFACE WATER DATE & TIME:



SW Quality Field Parameters:		
pH _____	D.O. _____	NORTHING: EASTING:
Conductivity _____	Temperature _____	
Turbidity _____	Other _____	

COMMENTS:

RECORDED BY: <i>Kirkpatrick McCornick</i>	DATE: 07-29-01	QA CHECK BY: <i>[Signature]</i>	DATE: 07-24-01
--	-------------------	------------------------------------	-------------------

SEDIMENT LOG

LL2-046

STATION NUMBER

PROJECT: RVAAP, Load Line 2 Phase II RI

INSPECTOR K. McCormick

SHEET 1 OF 1

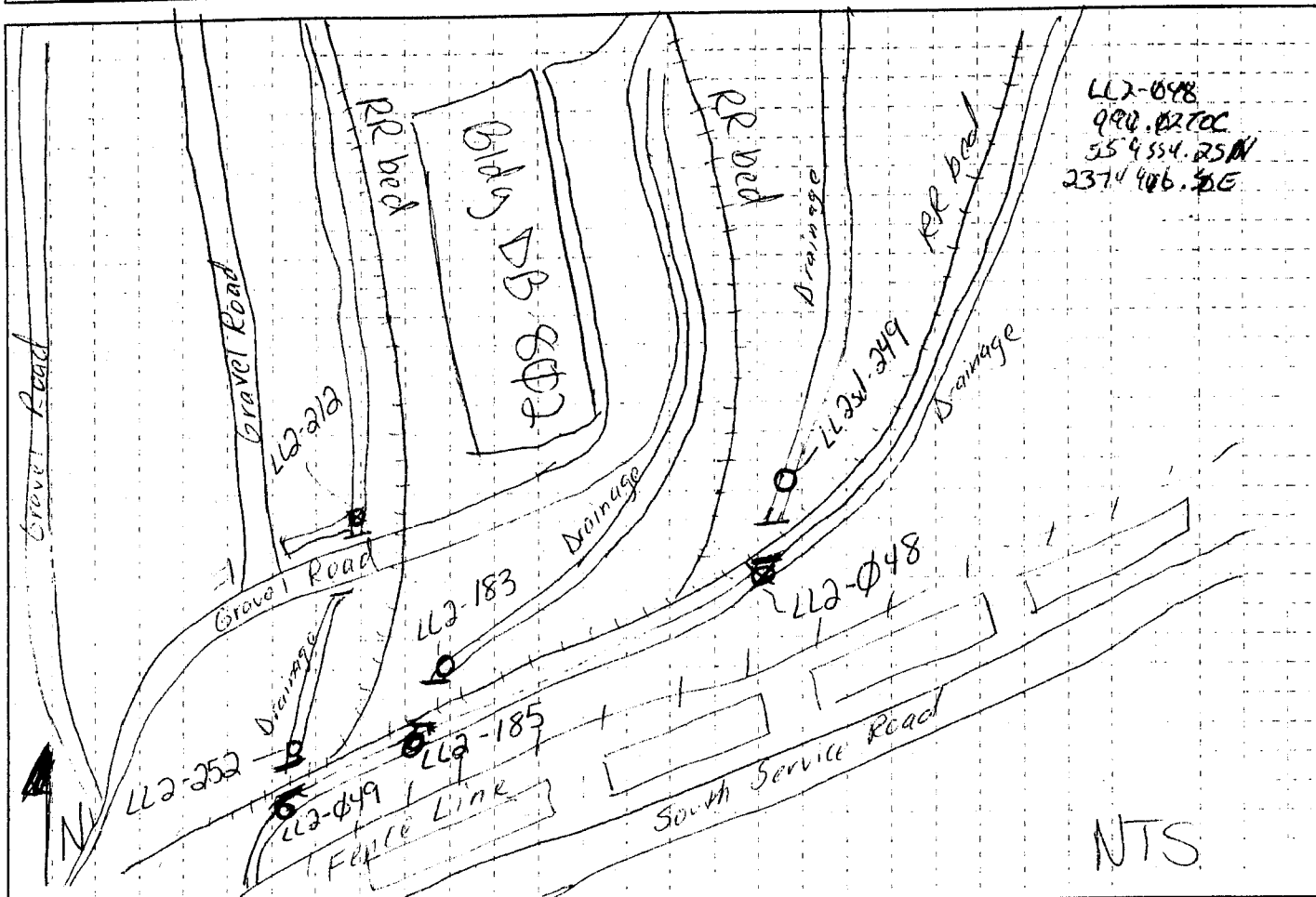
ELEV (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE	ANALYTICAL SAMPLE NO. (F)	REMARKS (G)
		(ML) clayey silt, w/ twigs, leaves at surface, dark Brown 10YR 3/3			LL27098 @152φ	Location in a low lying depression alongside railroad bed. Steep hills. Kern 7/22/01

LOCATION SKETCH

PROJECT NO: Load Line 2 Phase II RI

DELIVERY ORDER NO. ECAS 180

STATION ID NUMBER: LL2sd-048	STATION DESCRIPTOR: drainage adjacent to RR tracks @ ^(S) end of LL2
SEDIMENT ID NUMBER: LL2sd-048-1120-SD	SEDIMENT DATE & TIME: 07-27-01 1030
SURFACE WATER ID NUMBER: LL2sw-048-1124-SW	SURFACE WATER DATE & TIME: 07-27-01 1015



SW Quality Field Parameters:		NORTHING:
pH <u>7.39</u>	D.O. <u>1.53 mg/L</u>	SW 09/17/01
Conductivity <u>0.337 mS/cm</u>	Temperature <u>16.5°C</u>	
Turbidity <u>26 NTU</u>	Other <u>N/A</u>	
		EASTING:

COMMENTS: Surface water sample was re-assigned from station LL2-049 because no surface water was present @ LL2-049. Surface water was collected from stagnant puddle.

RECORDED BY: <u>Molly/AE</u>	DATE: <u>7-27-01</u>	QA CHECK BY: <u>B.W. Williams</u>	DATE: <u>09/17/01</u>
------------------------------	----------------------	-----------------------------------	-----------------------

SEDIMENT LOG

STATION NUMBER *LL2sd-048*

PROJECT: RVAAP, Load Line 2 Phase II RI

INSPECTOR *MSM, SEM*

SHEET 1 OF 1

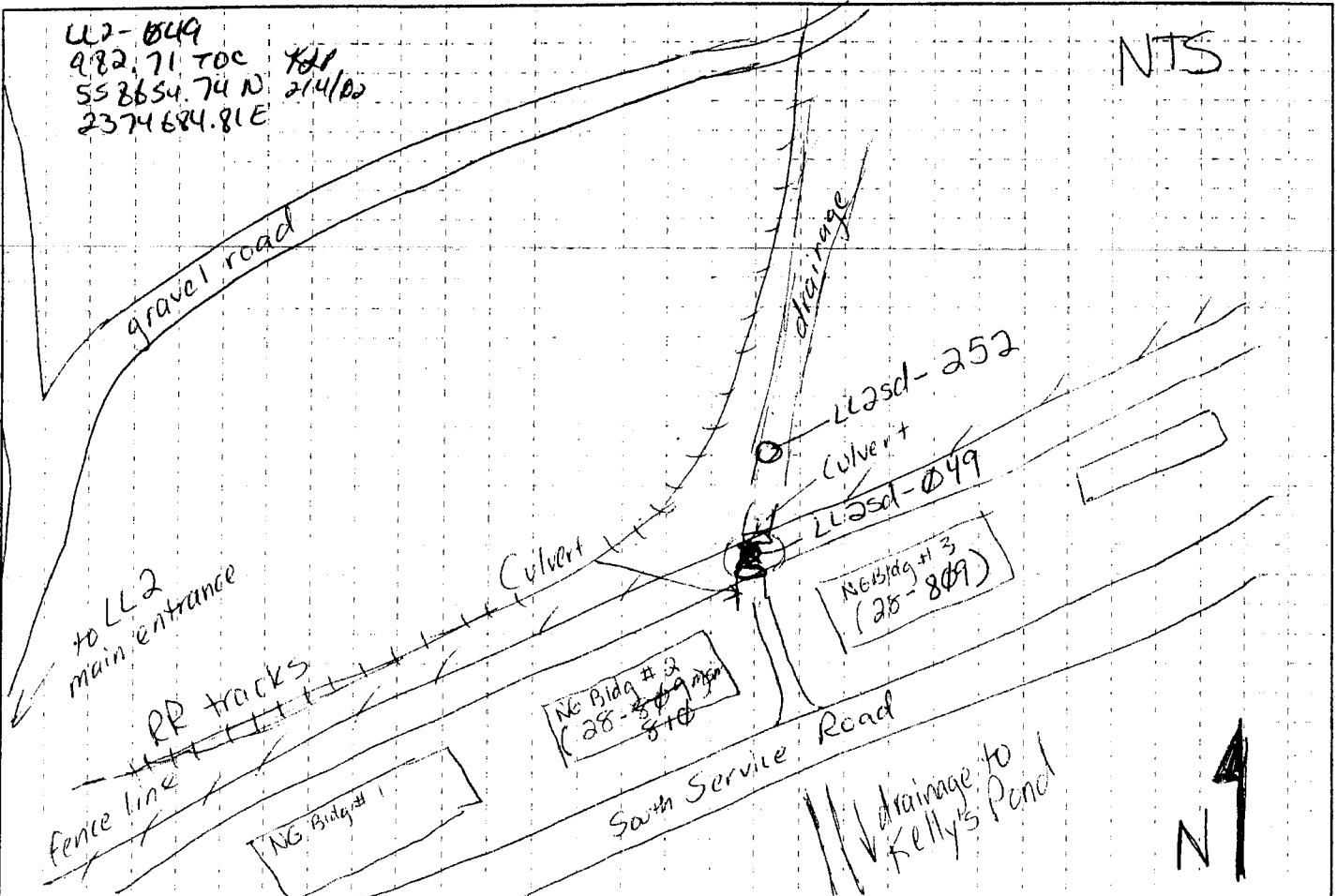
ELEV (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE	ANALYTICAL SAMPLE NO. (F)	REMARKS (G)
	0.5'	<i>dark brown sandy silt with organic matter, sticks, and leaves.</i>	<i>0.0 ppm</i>	<i>N/A</i>	<i>LL2sd-048-1120</i> <i>LL2sd-048-1124</i>	<i>Sediment sample (subaqueous)</i> <i>surface water sample (stagnant)</i>
	1.0'					
<div style="position: absolute; top: 50%; left: 50%; transform: translate(-50%, -50%); opacity: 0.5;"> <p><i>MSM 7-27-01</i></p> </div>						

LOCATION SKETCH

PROJECT NO: Load Line 2 Phase II RI

DELIVERY ORDER NO. ECAS 136

STATION ID NUMBER: LL2sd-049	STATION DESCRIPTOR: Ditch @ Southern ACC boundary; Phase I Sta. LL2sd-049
SEDIMENT ID NUMBER: LL2sd-049-1123-SD Dup: LL2sd-049-1173-SD Split: LL2sd-049-1198-SD	SEDIMENT DATE & TIME: 07-27-01 0910
SURFACE WATER ID NUMBER: No water in ditch	SURFACE WATER DATE & TIME: N/A



SW Quality Field Parameters:		
pH <u>N/A</u>	D.O. _____	NORTHING: <u>115m</u>
Conductivity <u>N/A</u>	Temperature _____	EASTING: _____
Turbidity _____	Other _____	

COMMENTS:
 [Handwritten signature and date: 07/17/01]

RECORDED BY: [Handwritten signature]	DATE: 07-27-01	QA CHECK BY: [Handwritten signature]	DATE: 07/17/01
---	-------------------	---	-------------------

SEDIMENT LOG

STATION NUMBER *LL2sd-049*

PROJECT: RVAAP, Load Line 2 Phase II RI INSPECTOR *MSM, SEM* SHEET 1 OF 1

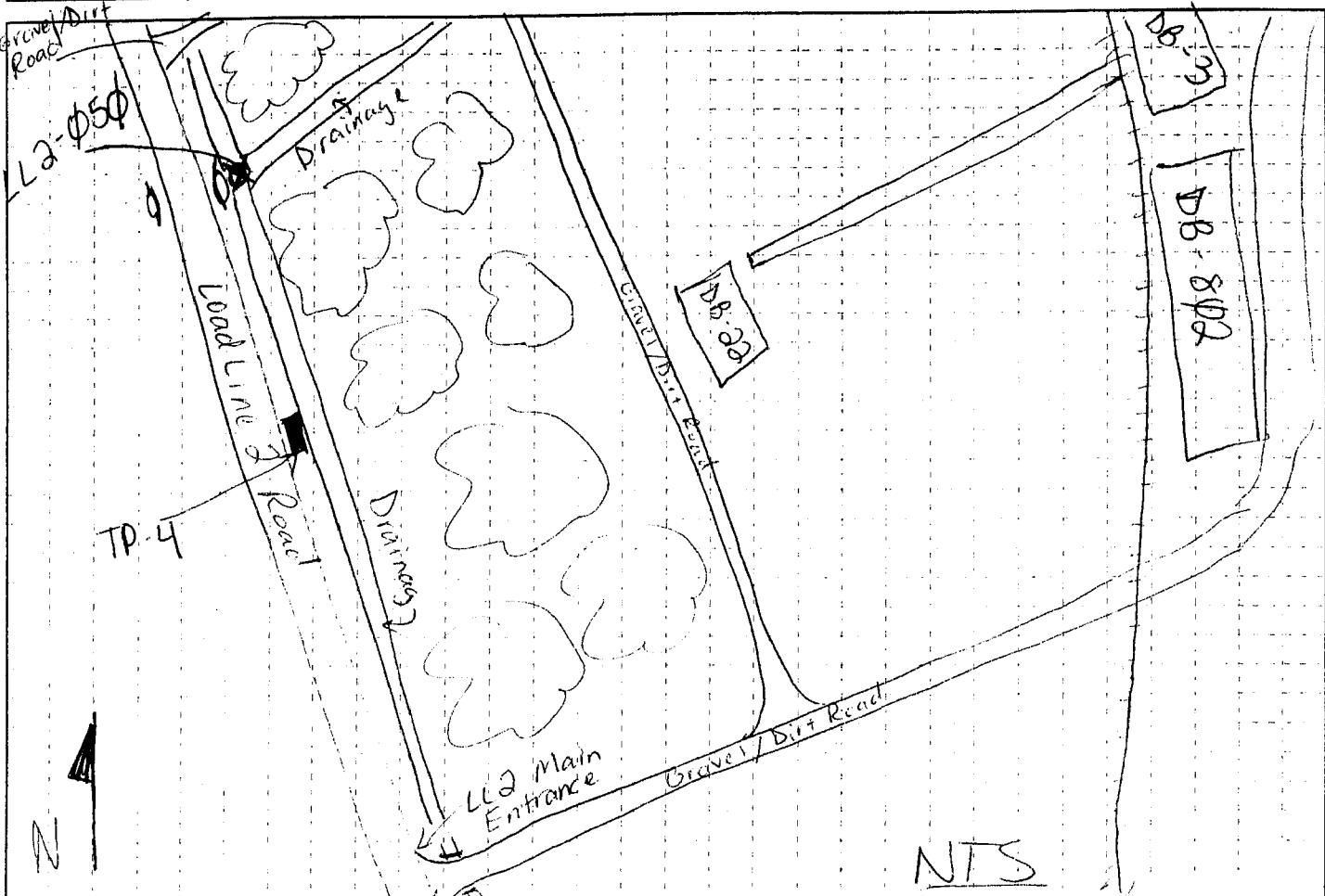
ELEV (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE	ANALYTICAL SAMPLE NO. (F)	REMARKS (G)
	0.5'	<i>dark brown, sandy gravel with ~15% silt</i>	<i>0, 0 ppm</i>	<i>N/A</i>	<i>LL2sd-049-1183 SD LL2sd-049-1173 SD LL2sd-049-1198 SD</i>	<i>regular sample duplicate " split "</i>
	1'					
<div style="position: absolute; top: 50%; left: 50%; transform: translate(-50%, -50%); opacity: 0.5;"> <p><i>MSM 7-27-01</i></p> </div>						

PROJECT: RVAAP, Load Line 2 Phase II RI STATION NUMBER *LL2sd-049*

LOCATION SKETCH

PROJECT NO: Load Line 2 Phase II RI **DELIVERY ORDER NO:** ECAS 186

STATION ID NUMBER: LL2sd-050	STATION DESCRIPTOR: drainage SW of LL2
SEDIMENT ID NUMBER: LL2sd-050-1099-SD	SEDIMENT DATE & TIME: 07-27-01
SURFACE WATER ID NUMBER: N/A	SURFACE WATER DATE & TIME: N/A



SW Quality Field Parameters:		
pH _____	D.O. _____	NORTHING: _____
Conductivity _____	Temperature _____	EASTING: _____
Turbidity _____	Other _____	

COMMENTS: _____

BW
07/27/01

RECORDED BY: <i>Molly M</i>	DATE: 7/27/01	QA CHECK BY: <i>B. Williams</i>	DATE: 09/17/01
-----------------------------	----------------------	---------------------------------	-----------------------

SEDIMENT LOG

STATION NUMBER *LL2sd-050*

PROJECT: RVAAP, Load Line 2 Phase II RI

INSPECTOR *MSM, SEM*

SHEET 1 OF 1

ELEV (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE	ANALYTICAL SAMPLE NO (F)	REMARKS (G)
	0.5'	dark brown, sandy silt with fine to medium gravel and organic matter	ϕ, ϕ ppm	N/A	LL2sd-050-1099-SD	sediment sample
	1.0'					
<div style="position: absolute; top: 50%; left: 50%; transform: translate(-50%, -50%); opacity: 0.5;"> <p><i>MSM 7-27-01</i></p> </div>						

LOCATION SKETCH

PROJECT NO: Load Line 2 Phase II (E)

DELIVERY ORDER NO: ECAS 186

STATION ID NUMBER: LL2-052	STATION DESCRIPTOR: S. of Pond
SEDIMENT ID NUMBER: LL2-1127	SEDIMENT DATE & TIME: 7/30/01 @ 1445
SURFACE WATER ID NUMBER: LL2-1128	SURFACE WATER DATE & TIME: 7/30/01 @ 1430

See map on page # 66 of Logbook # LL2 SW/SED # 2

972.26 TDC
558166.84 N KLP
2375807.24 E 01/4/03

SW Quality Field Parameters:		NORTHING: EASTING:
pH <u>8.99 SU</u>	D.O. <u>8.24 mg/l</u>	
Conductivity <u>0.165 ms/cm²</u>	Temperature <u>32.1 °C</u>	
Turbidity <u>84 NTU</u>	Other _____	

COMMENTS:

RECORDED BY: <i>Paul Goford</i>	DATE: <u>7/30/01</u>	QA CHECK BY: <u>SKR</u>	DATE:
---------------------------------	----------------------	-------------------------	-------

SEDIMENT LOG

STATION NUMBER **LL2-052**

PROJECT: RVAAP, Load Line 2 Phase II RI

INSPECTOR **P. Lucot**

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

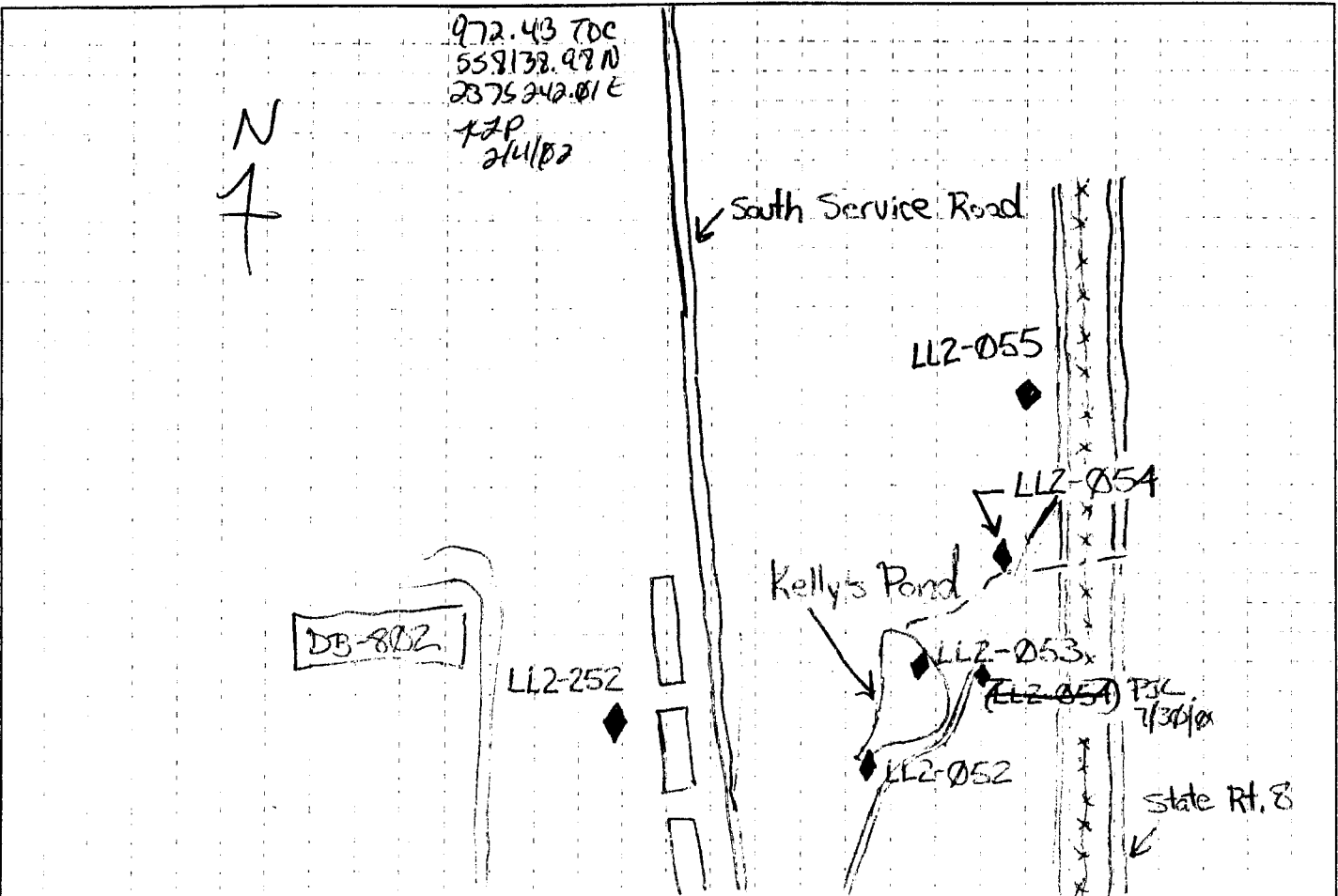
ELEV (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE	ANALYTICAL SAMPLE NO. (F)	REMARKS (G)
	0.5' 1.0'	Silty CLAY (OL), wet, very soft, slightly to moderately plastic, dark greenish grey (SGV 4/1).	N/A	N/A	LL2-1127 7/30/01 @ 1445	Collected surface water sample # LL2-1128 on 7/30/01 @ 1430.
		0.8'				
<div style="position: absolute; top: 50%; left: 50%; transform: translate(-50%, -50%); opacity: 0.5;"> <p>LL2-1127 7/30/01</p> </div>						

LOCATION SKETCH

PROJECT NO: Load Line 2 Phase IRR

DELIVERY ORDER NO. ECAS-186

STATION ID NUMBER: LL2-053	STATION DESCRIPTOR: N. of Kelly's Pond
SEDIMENT ID NUMBER: LL2-1129	SEDIMENT DATE & TIME: 7/30/01 @ 1400
SURFACE WATER ID NUMBER: LL2-1130	SURFACE WATER DATE & TIME: 7/30/01 @ 1340



SW Quality Field Parameters:		
pH <u>8.32 SU</u>	D.O. <u>8.76 mg/l</u>	NORTHING:
Conductivity <u>0.171 mS/cm</u>	Temperature <u>30.1°C</u>	EASTING:
Turbidity <u>86 NTU</u>	Other _____	

COMMENTS:

RECORDED BY: <i>Ralph [Signature]</i>	DATE: <u>7/30/01</u>	QA CHECK BY: <u>SILR</u>	DATE:
---------------------------------------	----------------------	--------------------------	-------

SEDIMENT LOG

STATION NUMBER **LL2-053**

PROJECT: RVAAP, Load Line 2 Phase II R1

INSPECTOR **P. Luot**

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

ELEV. (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE	ANALYTICAL SAMPLE NO. (F)	REMARKS (G)
		Silty CLAY with traces of sand and gravel (OL), wet, very soft, slightly plastic to moderately plastic, sand and gravel are angular, very dark gray (N3M).	N/A	LL2-1129 7/30/01 @ 1400	LL2-1129 7/30/01 @ 1400	Surface water sample # LL2-1130, 7/30/01 @ 1340
		0.8'				
<div style="border: 1px solid black; padding: 5px; display: inline-block; transform: rotate(-45deg);"> P.L. 7/30/01 </div>						

LOCATION SKETCH

PROJECT NO: Load Line 2 Phase II RI

DELIVERY ORDER NO: ECAS 186

STATION ID NUMBER: LL2-05A	STATION DESCRIPTOR: N. of Kelly's Pond down spillway
SEDIMENT ID NUMBER: LL21131	SEDIMENT DATE & TIME: 7/30/01 @ 1635
SURFACE WATER ID NUMBER: N/A	SURFACE WATER DATE & TIME: N/A

434.53 TOC
558024.69 N. KLP
2375708.25 E 2/4/02

See page # 166 of LL2 SW/SED #2

SW Quality Field Parameters:

pH _____	D.O. _____
Conductivity _____	Temperature _____
Turbidity _____	Other _____

PSL
7/30/01

NORTHING:

EASTING:

COMMENTS:

RECORDED BY: <i>Paul J. Smith</i>	DATE: <i>7/30/01</i>	QA CHECK BY: <i>SLR</i>	DATE: _____
-----------------------------------	----------------------	-------------------------	-------------

SEDIMENT LOG

STATION NUMBER **LL2-054**

PROJECT: RVAAP, Load Line 2 Phase II RI

INSPECTOR **P. Lucot**

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

ELEV (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE	ANALYTICAL SAMPLE NO. (F)	REMARKS (G)
	0.5'	Silty CLAY (CL), moist, stiff, moderately plastic, brown (10YR 4/3) Bottom of Boring 0.5'	N/A	LL2-1131 7/30/01 @ 1635	LL2-1131 7/30/01 @ 1635	No surface water at this location.
<div style="position: absolute; top: 50%; left: 50%; transform: translate(-50%, -50%); opacity: 0.5;"> <p>P.L. 7/30/01</p> </div>						

PROJECT: RVAAP, Load Line 2 Phase II RI

STATION NUMBER **LL2-054**

LOCATION SKETCH

PROJECT NO: Load Line 2 Phase II RI

DELIVERY ORDER NO: ECAS 186

STATION ID NUMBER: LLZ-055	STATION DESCRIPTOR: Resample Phase I Station LLZ-056 N. of concrete headwall @ SW
SEDIMENT ID NUMBER:	SEDIMENT DATE & TIME: South Patrol Road 2/10/02
SURFACE WATER ID NUMBER: LLZ1134	SURFACE WATER DATE & TIME: 7/30/01 @ 1710

See page #6 of Logbook LLZ SW/SED #2

939.70 TOE
552133.40 N
2376309.67 E
Kdr
2/4/02

SW Quality Field Parameters:

pH _____

D.O. _____

NORTHING:

Conductivity _____

Temperature _____

Turbidity _____

Other _____

EASTING:

COMMENTS:

RECORDED BY:

DATE

QA CHECK BY:

DATE

SKR

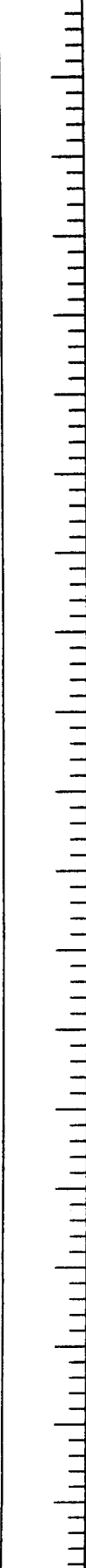
SEDIMENT LOG

STATION NUMBER **LL2-055**

PROJECT: RVAAP, Load Line 2 Phase II RI

INSPECTOR **P. Lucot**

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

ELEV (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE	ANALYTICAL SAMPLE NO. (F)	REMARKS (G)
						<p>Collected SW sample # <u>LL21134</u> on 7/30/01 @ 1710</p>

PROJECT: RVAAP, Load Line 2 Phase II RI

STATION NUMBER **LL2-055**

LOCATION SKETCH

PROJECT NO: Load Line 2 Phase I RI

DELIVERY ORDER NO: ECAS 186

STATION ID NUMBER: LL2-055	STATION DESCRIPTOR: Resample Phase I Station LL2-055
SEDIMENT ID NUMBER: LL21133	SEDIMENT DATE & TIME: 7/31/01 1147
SURFACE WATER ID NUMBER:	SURFACE WATER DATE & TIME:

439.70 TOC
558.133.40 N
2376309.67E

see app on
M 54

SW Quality Field Parameters:		NORTHING: EASTING:
pH _____	D.O. _____	
Conductivity _____	Temperature _____	
Turbidity _____	Other _____	

COMMENTS: bucket auger for sediment
 and 7/31/01

RECORDED BY: <i>Jimmy Carter</i>	DATE: 7/31/01	QA CHECK BY: <i>By [Signature]</i>	DATE: 8/1/01
----------------------------------	---------------	------------------------------------	--------------

SEDIMENT LOG

STATION NUMBER **055**

PROJECT: RVAAP, Load Line 2 Phase II RI

INSPECTOR

SHEET OF

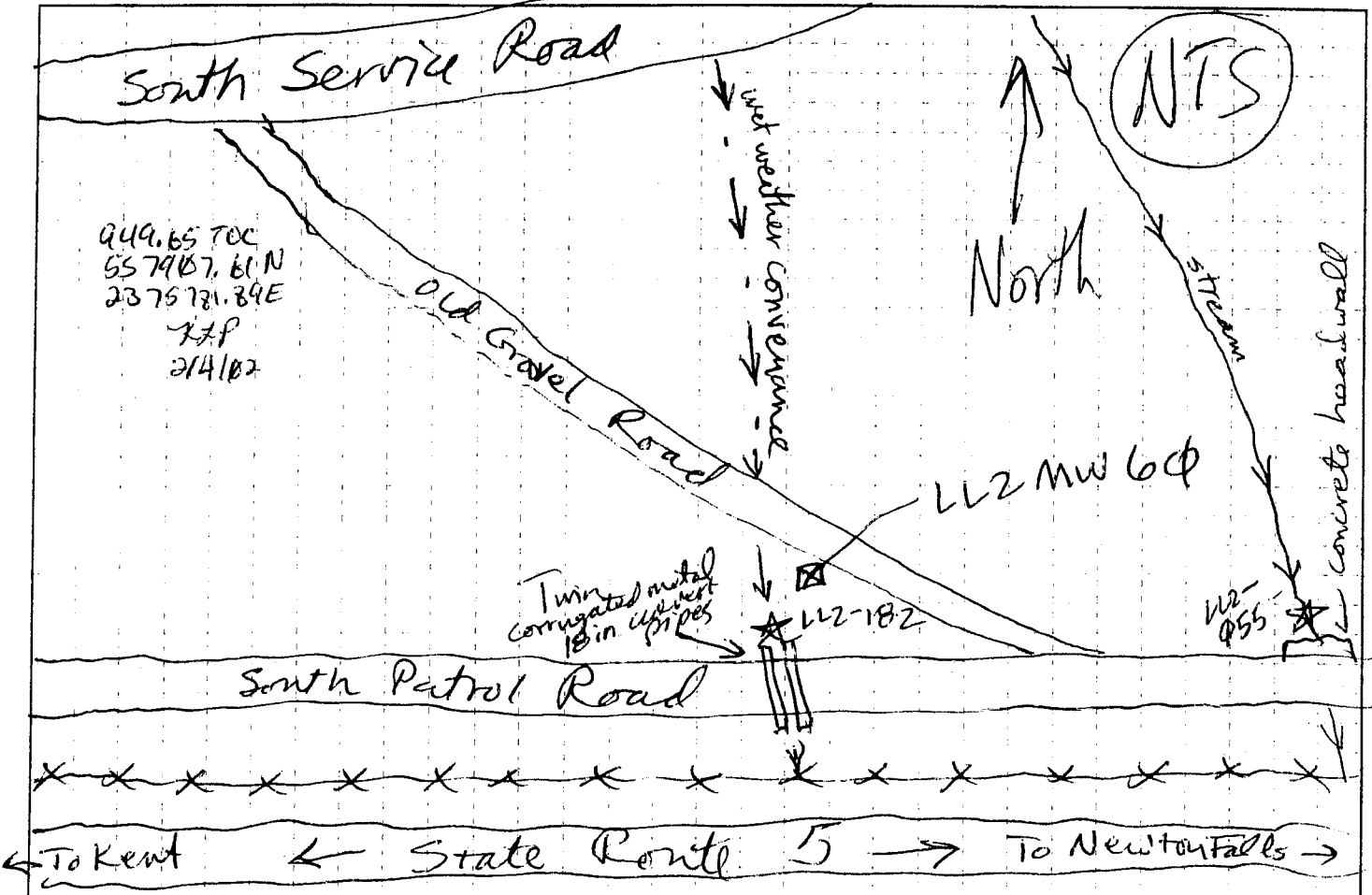
ELEV (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE	ANALYTICAL SAMPLE NO. (F)	REMARKS (G)
	(H) 0.5	Sandy gravel, poorly sorted, DK Brown 104R 3/3, WET	Q. Q ppm 13896	LL21133	LL21133	
<div style="border: 1px solid black; padding: 5px; display: inline-block;"> RW 09/17/01 </div>						

LOCATION SKETCH

PROJECT NO: Load Line 2 Phase (LR)

DELIVERY ORDER NO: ECAS 186

STATION ID NUMBER: LL2182	STATION DESCRIPTOR: Fence at State Route 5
SEDIMENT ID NUMBER: LL20998	SEDIMENT DATE & TIME: 7/31/01 1111
SURFACE WATER ID NUMBER:	SURFACE WATER DATE & TIME:



SW Quality Field Parameters:

pH _____	D.O. _____	NORTHING: _____
Conductivity _____	Temperature _____	EASTING: _____
Turbidity _____	Other _____	

COMMENTS: bucket auger for sediment
8/1/01

RECORDED BY: Jimmy Grotter	DATE: 7/31/01	QA CHECK BY: by Grotter	DATE: 8/1/01
-------------------------------	------------------	----------------------------	-----------------

SEDIMENT LOG

STATION NUMBER **182**

PROJECT: RVAAP, Load Line 2 Phase II RI

INSPECTOR *Crofton*

SHEET OF

ELEV (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE	ANALYTICAL SAMPLE NO. (F)	REMARKS (G)
	<i>0.5</i>	<p><i>Med. grained Sand, DK Yell. brown 104R 4/4, with small to med. gravel (20%) some fines (5%) some roots + organics poorly sorted sand dry to moist (stream is dry) poorly sorted SP</i></p>	<p><i>0.0 ppm 13896</i></p>	<p><i>NA</i></p>	<p><i>U20998 U21125 U21240</i></p>	
<p style="font-size: 2em; opacity: 0.5;">B 0/17/01</p>						

30

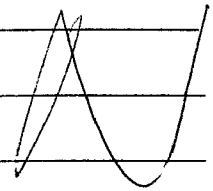
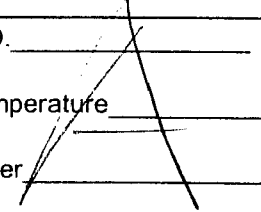
LOCATION SKETCH

PROJECT NO: Load Line 2 Phase I RI **DELIVERY ORDER NO:** ECAS 186

STATION ID NUMBER: <i>LL2-183</i>	STATION DESCRIPTOR: <i>culvert inlet due south of DB-802</i>
SEDIMENT ID NUMBER: <i>0-0.5' LL2-1001 ; 0.5-1.0' LL2-1002</i>	SEDIMENT DATE & TIME: <i>07-27-01 1630</i>
SURFACE WATER ID NUMBER: <i>N/A</i>	SURFACE WATER DATE & TIME: <i>N/A</i>

*SEE MAP FOR STATION
LL2-048, PAGE 6,
THIS VOLUME*

*479.49 TOC
559172.68 N 72P
2374736.30 E 2/4/02*

SW Quality Field Parameters:		NORTHING: EASTING:
pH 	D.O. 	
Conductivity	Temperature	
Turbidity	Other	

COMMENTS: *sediment had strong smell of diesel fuel, PID = 0.0 ppm*

*BW
07/17/01*

RECORDED BY: <i>Molly M. Co</i>	DATE: <i>7-27-01</i>	QA CHECK BY: <i>B. William</i>	DATE: <i>07/17/01</i>
---------------------------------	----------------------	--------------------------------	-----------------------

SEDIMENT LOG

STATION NUMBER **LL2-183**

PROJECT: RVAAP, Load Line 2 Phase II RI

INSPECTOR **MSM**

SHEET 1 OF 1

ELEV (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE	ANALYTICAL SAMPLE NO. (F)	REMARKS (G)
	0.5	organic matter w/ silt; dark brown	∅.∅ ppm	N/A	LL2-1001	strong smell of diesel fuel, sheen present on soil
	1.0	dark grey clay, highly cohesive, plastic	∅.∅ ppm		LL2-1002	
	1.5	light brown clay with gravel, low cohesion, low plasticity	∅.∅ ppm	↓		
<div style="position: absolute; top: 50%; left: 50%; transform: translate(-50%, -50%); opacity: 0.5;"> <p>MSM</p> <p>727-01</p> </div>						

LOCATION SKETCH

PROJECT NO: Load Line 2 Phase I (R) **DELIVERY ORDER NO:** ECAS 186

STATION ID NUMBER: <i>LL2-185</i>	STATION DESCRIPTOR: <i>culvert outlet south of DB-802</i>
SEDIMENT ID NUMBER: <i>LL2-1007</i>	SEDIMENT DATE & TIME: <i>07-27-01</i>
SURFACE WATER ID NUMBER: <i>N/A</i>	SURFACE WATER DATE & TIME: <i>N/A</i>

SEE MAP FOR STATION
LL2-048, PAGE 6,
THIS VOLUME

LL2-185
988.70 TOC ~~100~~
559152.53 N
2374815.04 E 2/4/02

SW Quality Field Parameters:		NORTHING: EASTING:
pH _____	D.O. _____	
Conductivity _____	Temperature _____	
Turbidity _____	Other _____	

COMMENTS: *APM 7-27-01*

RECORDED BY: <i>Molly [Signature]</i>	DATE: <i>7-27-01</i>	QA CHECK BY: <i>B. Williams</i>	DATE: <i>08/17/01</i>
---------------------------------------	----------------------	---------------------------------	-----------------------

SEDIMENT LOG

STATION NUMBER **LL2-185**

PROJECT: RVAAP, Load Line 2 Phase II RI

INSPECTOR *Molly McCanna / Susan McCauslen*

SHEET 1 OF 1

ELEV (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE	ANALYTICAL SAMPLE NO. (F)	REMARKS (G)
		<i>dark brown clay till with silt and gravel</i>	<i>Ø. Ø ppm</i>	<i>N/A</i>	<i>LL2-1007</i>	<i>sediment</i>
	<i>0.5'</i>	<i>grey clay</i>				
	<i>1.0'</i>					
<i>MSM 7-27-01</i>						

LOCATION SKETCH

PROJECT NO: Load Line 2 Phase (R)

DELIVERY ORDER NO: ECAS 186

STATION ID NUMBER: LL2-212	STATION DESCRIPTOR: Outfall west of Bldg DB-802
SEDIMENT ID NUMBER: LL2-1052	SEDIMENT DATE & TIME: 07-27-01
SURFACE WATER ID NUMBER: N/A	SURFACE WATER DATE & TIME: N/A

SEE MAP FOR STATION
LL2-048, Page 6
THIS VOLUME

LL2-212
943.76 TOC
554392.25N
2374516.00E
KJP
7/4/02

SW Quality Field Parameters:		
pH	D.O.	NORTHING:
Conductivity	Temperature	
Turbidity	Other	EASTING:

COMMENTS: saturated sediment - 0.6" of water standing in 1.0" hole
09/17/01

RECORDED BY: <i>Molly Mc...</i>	DATE: 7-27-01	QA CHECK BY: B. Will...	DATE: 09/17/01
---------------------------------	---------------	-------------------------	----------------

SEDIMENT LOG

STATION NUMBER **LL2-212**

PROJECT: RVAAP, Load Line 2 Phase II RI

INSPECTOR **MSM/SEM**

SHEET 1 OF 1

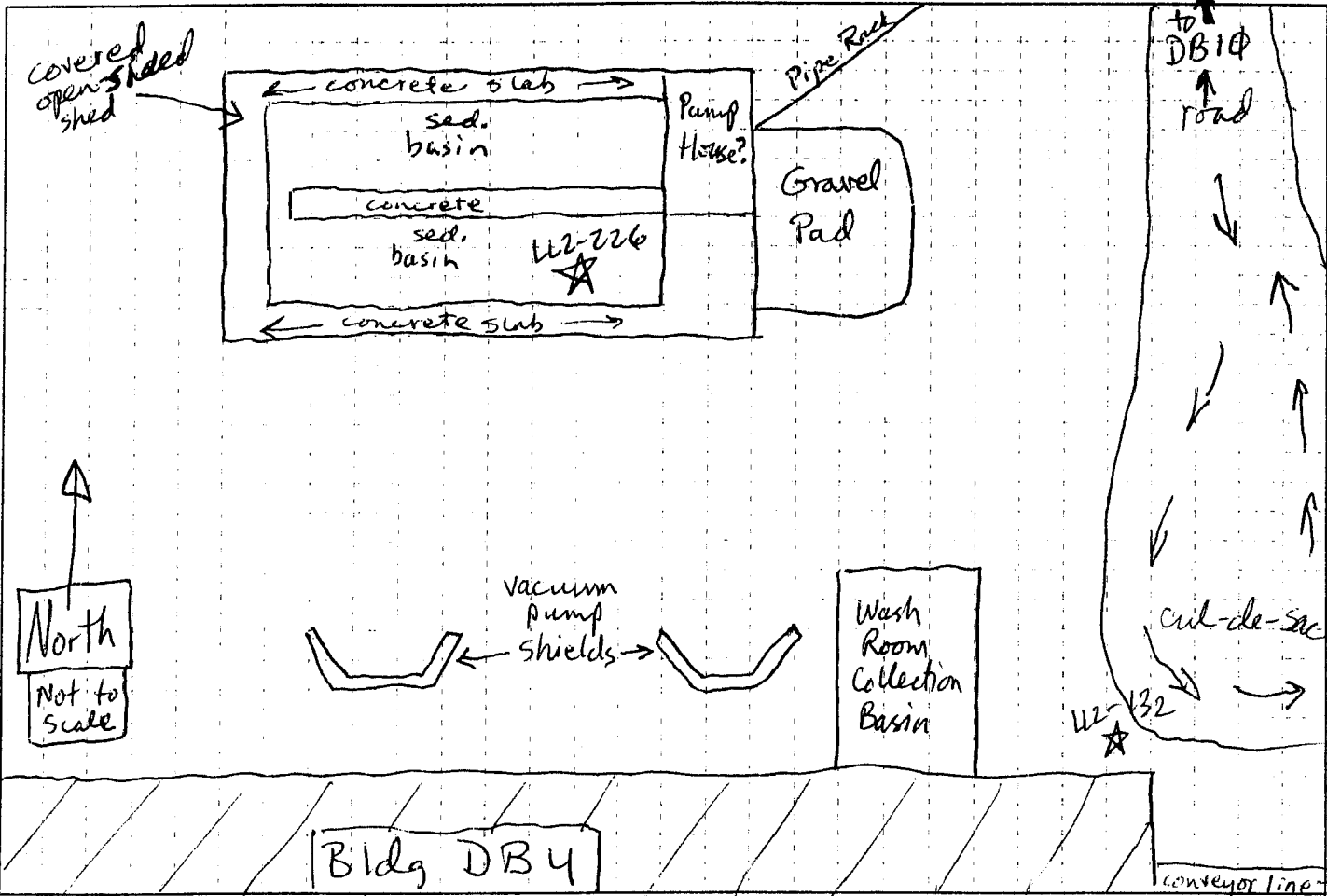
ELEV (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE	ANALYTICAL SAMPLE NO. (F)	REMARKS (G)
	0.5'	brown clayey silt ^{MSM} with gravel silty gravel with ^{MSM} some clay and sand	∅.∅	N/A	LL2-1052	saturated subaqueous sediment sample ~0.6' of water standing in 1.0' hole
	1.0'					
<div style="position: absolute; top: 50%; left: 50%; transform: translate(-50%, -50%); opacity: 0.5;"> MSM 7-27-01 </div>						

38

LOCATION SKETCH

PROJECT NO: Load Line 2 Phase II RI **DELIVERY ORDER NO:** ECAS 186

STATION ID NUMBER: LL2-226	STATION DESCRIPTOR: covered sedimentation basin N of Bldg DB4
SEDIMENT ID NUMBER: LL21082	SEDIMENT DATE & TIME: 7/30/01 0907
SURFACE WATER ID NUMBER: LL21083, LL21188, LL21213	SURFACE WATER DATE & TIME: 7/29/01 1431



SW Quality Field Parameters:		
pH <u>7.63 SU</u>	D.O. <u>3.23 mg/L</u>	NORTHING:
Conductivity <u>8.215 MS/cm</u> <u>0.215 mS/cm</u>	Temperature <u>NA</u> <u>18.1°C</u>	EASTING:
Turbidity <u>25 NTU</u> <u>25 NTU</u>	Other <u>NA</u>	
Ignore the NAs, please <i>MB</i>		

COMMENTS: Map is not to scale, water quality parameters measured w/ Horiba U-10 Serial No. 14639 7/30/01, Wilco clam-shell dredge for sediment collection
MB
 09/17/01

RECORDED BY: <i>Jimmy Proton</i>	DATE: <u>7/29/01</u>	QA CHECK BY: <i>[Signature]</i>	DATE: <u>8/1/01</u>
----------------------------------	----------------------	---------------------------------	---------------------

SEDIMENT LOG

STATION NUMBER **226**

PROJECT: RVAAP, Load Line 2 Phase II RI

INSPECTOR *Grotan*

SHEET OF

ELEV (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE	ANALYTICAL SAMPLE NO. (F)	REMARKS (G)
	(A) ↓ 0.5	Dark black to very dark gray muck w/decaying pin oak leaves	0.0 ppm PID 13645	NA	LL21082	~ 0.3 ft accumulation of sediment
<div style="position: absolute; top: 50%; left: 50%; transform: translate(-50%, -50%); opacity: 0.5;"> <p><i>BW</i> <i>09/17/01</i></p> </div>						

0.5

PROJECT: RVAAP, Load Line 2 Phase II RI

B-32

STATION NUMBER **226**

LOCATION SKETCH

PROJECT NO: Load Line 2 Phase II RI

DELIVERY ORDER NO: ECAS 186

STATION ID NUMBER:

LL2-227

STATION DESCRIPTOR:

wash room sedimentation basin
LL2 Bldg. DB4 North side of bldg

SEDIMENT ID NUMBER:

LL21084

SEDIMENT, DATE & TIME:

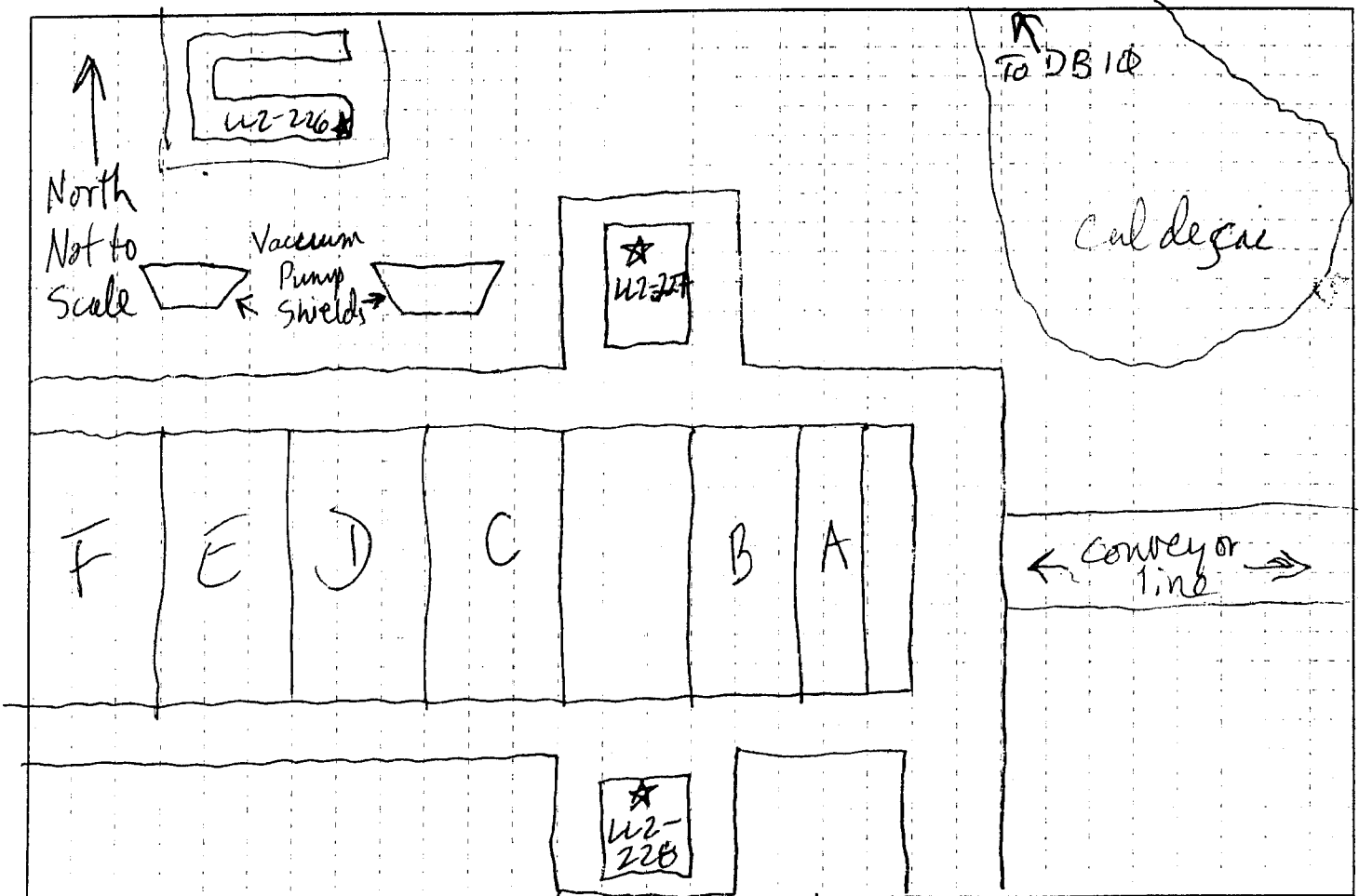
7/30/01 0947

SURFACE WATER ID NUMBER:

LL21085

SURFACE WATER DATE & TIME:

7/30/01 0931



SW Quality/Field Parameters:

Florida U-10 Set. No. 14639

pH ~~7.30~~ SU 7.56 SU.

D.O. 5.87 mg/L
19.3°C

NORTHING:

Conductivity ~~98~~ 110 ~~mS/cm~~ 0.1104 mS/cm Temperature ~~19.0~~ 19.3°C

Turbidity ~~0~~

Other N/A

EASTING:

COMMENTS:

Wildco clamshell dredge for sediment sampling

BD
8/1/01

RECORDED BY

Jimmy Hester

DATE

7/30/01

QA CHECK BY

[Signature]

DATE

8/1/01

SEDIMENT LOG

STATION NUMBER **227**

PROJECT: RVAAP, Load Line 2 Phase II RI

INSPECTOR **Grotto**

SHEET OF

ELEV (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE	ANALYTICAL SAMPLE NO (F)	REMARKS (G)
	0.5	Dark black muck with decaying pin oak leaves, chips of paint & old metal cart wheels, and other assorted debris from the building	<p>φ, φ ppm PID 136φ5</p>	NA	1121084	<p>Depth of sediment is about φ.1 ft Very difficult getting full sample volume</p>
<p style="font-size: 2em; opacity: 0.5;">B2 09/17/01</p>						

LOCATION SKETCH

PROJECT NO: Load Line 2 Phase (IR)

DELIVERY ORDER NO: ECAS 186

STATION ID NUMBER: LL2-228	STATION DESCRIPTOR: Bldg DB 4 South Washout Annex
SEDIMENT ID NUMBER: LL21086	SEDIMENT DATE & TIME: 7/30/01 1133
SURFACE WATER ID NUMBER: LL21087	SURFACE WATER DATE & TIME: 7/30/01 1111

See map on pg. 38

SW Quality Field Parameters:

pH <u>7.92 SU</u>	D.O. <u>4.88 mg/L</u>	NORTHING:
Conductivity <u>0.282 mS/cm</u>	Temperature <u>18.0 °C</u>	EASTING:
Turbidity <u>2 NTU</u>	Other <u>N/A</u>	

COMMENTS: Horiba U-10 Ser No. 14639, narrative on pg 37
 Wilco clam-shell dredge for sediment
 8/7/01

RECORDED BY: <u>Jimmy Kuster</u>	DATE: <u>7/30/01</u>	QA CHECK BY: <u>Gen Loren</u>	DATE: <u>8/7/01</u>
----------------------------------	----------------------	-------------------------------	---------------------

SEDIMENT LOG

STATION NUMBER **228**

PROJECT: RVAAP, Load Line 2 Phase II RI

INSPECTOR **Gorton**

SHEET OF

LOCATION SKETCH

PROJECT NO: Load Line 2 Phase III RI

DELIVERY ORDER NO: ECAS 186

STATION ID NUMBER: LL2-229	STATION DESCRIPTOR: Blag. 4A North Washout Annex
SEDIMENT ID NUMBER: W21088	SEDIMENT DATE & TIME: 7/30/01 1521
SURFACE WATER ID NUMBER: LL21089	SURFACE WATER DATE & TIME: 7/30/01 1451

map on pg 46

SW Quality Field Parameters:		
pH 9.53 SU	D.O. 10.20 mg/L	NORTHING:
Conductivity 0.184 mS/cm	Temperature 18.8 °C	EASTING:
Turbidity 19 NTU	Other N/A	

COMMENTS: Horiba U-10 Ser. No. 14639, Sediment collected with Wildco Clam-shell dredge
 B/W
 8/1/01

RECORDED BY: Jimmy Hester	DATE: 7/20/01	QA CHECK BY: [Signature]	DATE: 8/1/01
---------------------------	---------------	--------------------------	--------------

SEDIMENT LOG

STATION NUMBER **229**

PROJECT: RVAAP, Load Line 2 Phase II RI

INSPECTOR **Grotton**

SHEET OF

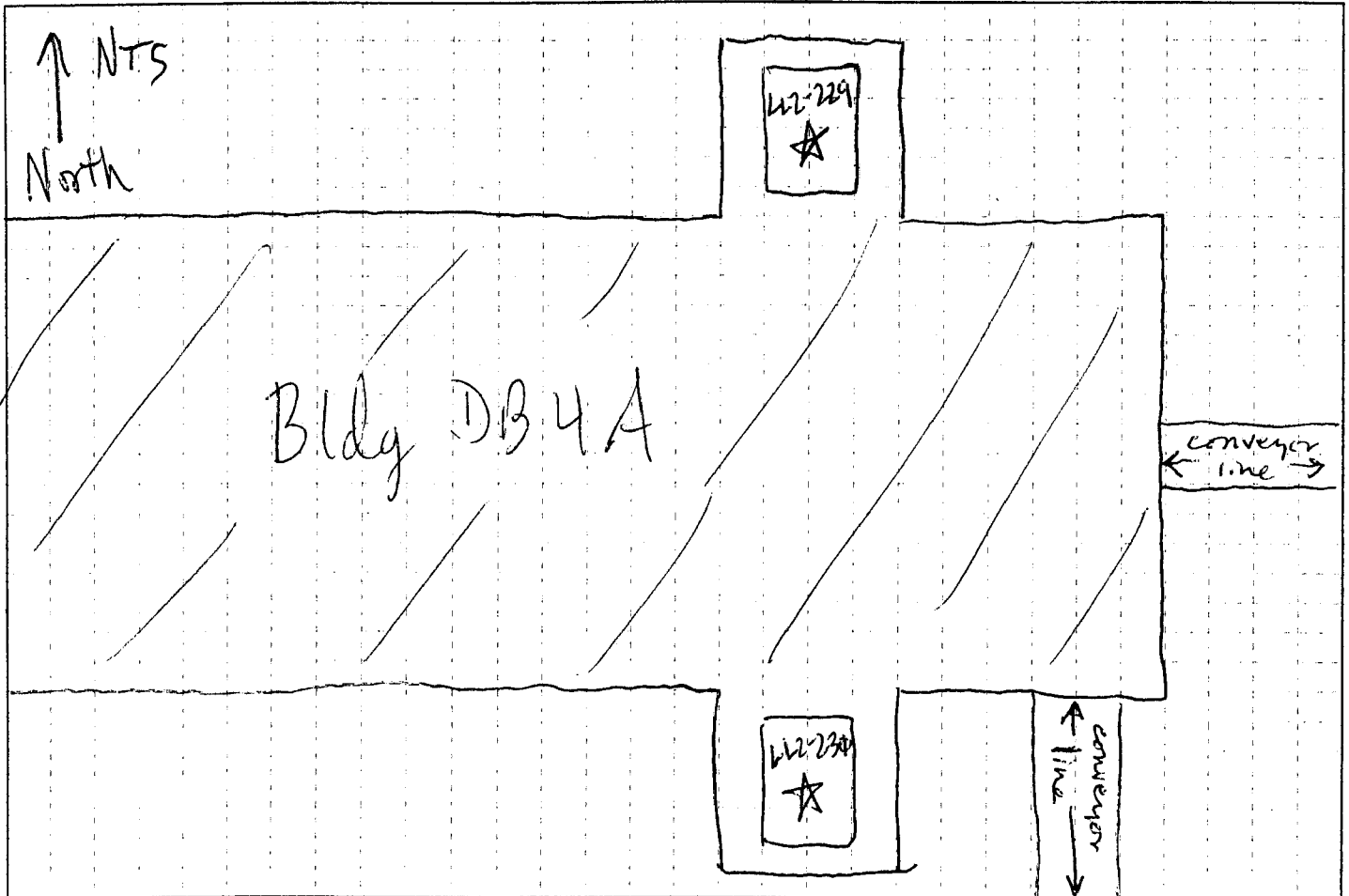
ELEV (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE	ANALYTICAL SAMPLE NO (F)	REMARKS (G)
	(4)					
	0.5	Black muck w/ numerous pieces of paint chips, rust flakes, decayed leaves, & bones along with other debris	Φ, Φ ppm 13605	NA	LL21088	Smells bad
			B.W 09/17/01			

LOCATION SKETCH

PROJECT NO: Load Line 2 Phase II RI

DELIVERY ORDER NO: ECAS 186

STATION ID NUMBER: LL2-23Φ	STATION DESCRIPTOR: Bldg DB4 South Washout Annex
SEDIMENT ID NUMBER: LL21090	SEDIMENT DATE & TIME: 7/30/01 1537
SURFACE WATER ID NUMBER: LL21091	SURFACE WATER DATE & TIME: 7/30/01 1355



SW Quality Field Parameters:

pH 7.63 SV D.O. 4.15 mg/L
 Conductivity 0.143 mS/cm Temperature 19.2 °C
 Turbidity 5 NTU Other N/A

NORTHING:

EASTING:

COMMENTS: Also collected extra volume for MS/MSD; Horiba U10 Water Checker Serial # 14039; Wilco clam-shell dredge used to collect sediment
 JW
 8/17/01

RECORDED BY: <i>Jimmy Foster</i>	DATE: 7/30/01	QA CHECK BY: <i>[Signature]</i>	DATE: 8/1/01
-------------------------------------	------------------	------------------------------------	-----------------

SEDIMENT LOG

STATION NUMBER **23φ**

PROJECT: RVAAP, Load Line 2 Phase II RI

INSPECTOR *Groton*

SHEET OF

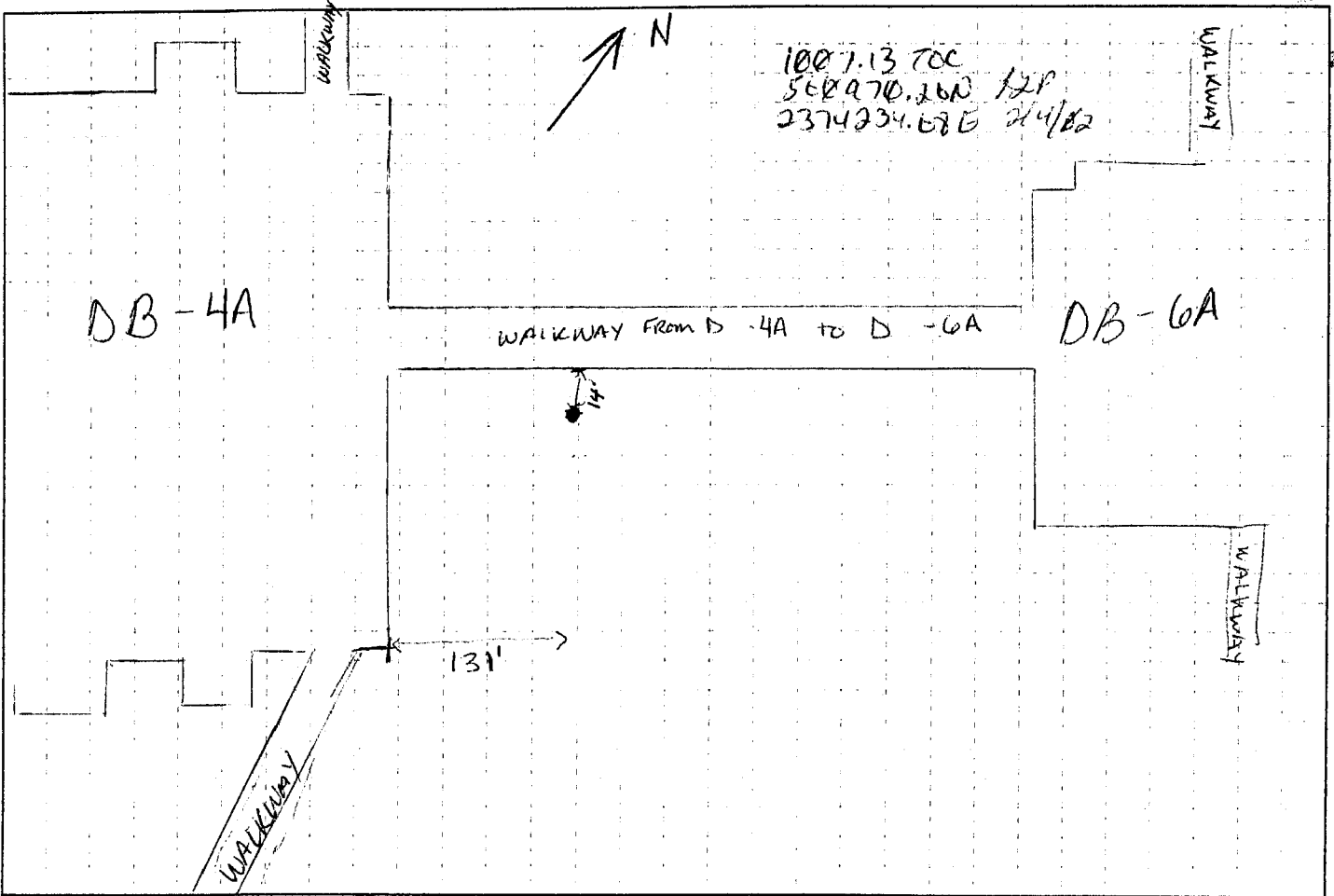
ELEV (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE	ANALYTICAL SAMPLE NO. (F)	REMARKS (G)
		<i>Black muck w/ paint chips, rust flakes, decayed leaves and other debris from the building</i>	<i>Φ, Φ ppm 136d4</i>	<i>NA</i>	<i>42149φ</i>	

LOCATION SKETCH

PROJECT NO: Load Line 2 Phase II RI

DELIVERY ORDER NO: ECAS 186

STATION ID NUMBER: LL2-231	STATION DESCRIPTOR: ESE OF WALKWAY
SEDIMENT ID NUMBER: LL21092	SEDIMENT DATE & TIME: 7/29/01 1605
SURFACE WATER ID NUMBER:	SURFACE WATER DATE & TIME:



SW Quality Field Parameters:		
pH _____	D.O. _____	NORTHING: _____
Conductivity _____	Temperature _____	EASTING: _____
Turbidity _____	Other <u>SU</u> _____	

COMMENTS: 09-24-01

RECORDED BY: <i>Richard McCarroll</i>	DATE: <i>07-29-01</i>	QA CHECK BY: <i>Dr. Paul</i>	DATE: <i>09-29-01</i>
--	--------------------------	---------------------------------	--------------------------

SEDIMENT LOG

LL2-231

STATION NUMBER

PROJECT: RVAAP, Load Line 2 Phase II RI

INSPECTOR *K. McCormick*

SHEET / OF 1

ELEV (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE	ANALYTICAL SAMPLE NO. (F)	REMARKS (G)
		<p>(CL) SILTY CLAY, loose, med plasticity, Brown 10YR 4/3, dry</p>	<p>NA</p>		<p>LL21092 @1005</p>	<p>no surface water Kern 7/29/01</p>

PROJECT: RVAAP, Load Line 2 Phase II RI

LL2-231

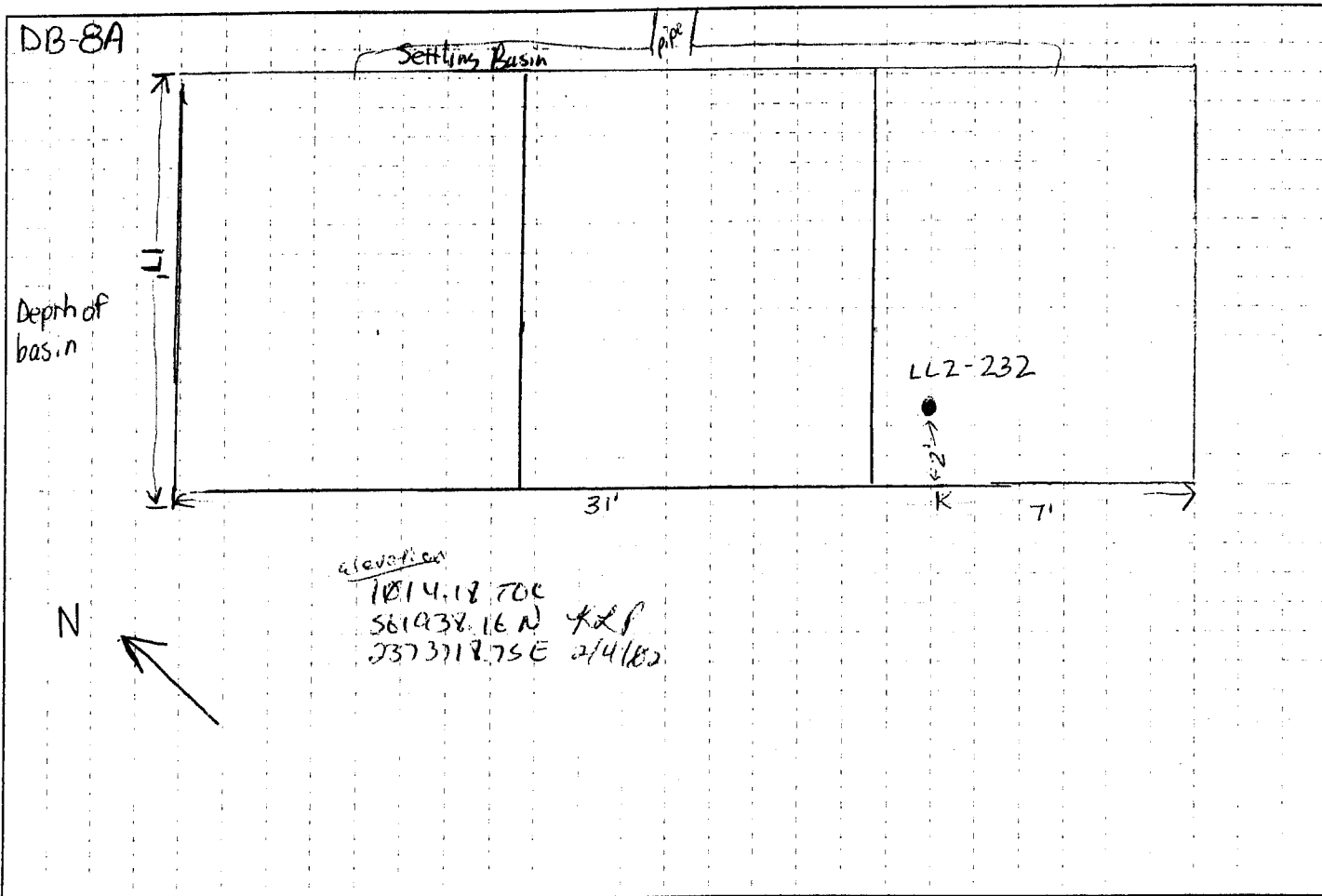
STATION NUMBER

LOCATION SKETCH

PROJECT NO: Load Line 2 Phase II RI

DELIVERY ORDER NO: ECAS 186

STATION ID NUMBER: LL2-232	STATION DESCRIPTOR: IN A SETTLING BASIN
SEDIMENT ID NUMBER: LL21094	SEDIMENT DATE & TIME: 7/29/01 1630
SURFACE WATER ID NUMBER:	SURFACE WATER DATE & TIME:



SW Quality Field Parameters:		
pH _____	D.O. _____	NORTHING: _____
Conductivity _____	Temperature _____	/
Turbidity _____	Other _____	

COMMENTS: *LL2-232*

RECORDED BY: <i>Zachary McLeod</i>	DATE: <i>7-29-01</i>	QA CHECK BY: <i>McLeod</i>	DATE: <i>08-14-01</i>
------------------------------------	----------------------	----------------------------	-----------------------

SEDIMENT LOG

LL2-232

STATION NUMBER

PROJECT: RVAAP, Load Line 2 Phase II RI

INSPECTOR *K McLorovich*

SHEET 1 OF 1

ELEV. (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEO TECH SAMPLE	ANALYTICAL SAMPLE NO. (F)	REMARKS (G)
		<p>(SP) Poorly graded sand, fine to medium sand, w/ brick pieces, Black 104R 2/1, very dry</p>			<p>LL21494 @ 1630</p>	<p>KCM 7/29/01</p>

PROJECT: RVAAP, Load Line 2 Phase II RI

LOCATION SKETCH

PROJECT NO: Load Line 2 Phase II RI

DELIVERY ORDER NO: ECAS 186

STATION ID NUMBER: LL2-234 ^{msm} 233	STATION DESCRIPTOR: drainage north, off LL2; ^{OF} TRK 25
SEDIMENT ID NUMBER: LL2-1096	SEDIMENT DATE & TIME: 7.27.01
SURFACE WATER ID NUMBER: N/A	SURFACE WATER DATE & TIME: N/A

SEE MAP FOR STATION
LL2-234, Page 14 this

971.20 TOX
564318.33N KYP
2373266.63E 214/02
Volume

SW Quality Field Parameters:		
pH _____	D.O. _____	NORTHING:
Conductivity _____	Temperature _____	
Turbidity _____	Other _____	EASTING:

COMMENTS: subaqueous sediment sample

[Handwritten signature]

09/17/01

RECORDED BY: <i>Molly Mc...</i>	DATE: 7.27.01	QA CHECK BY: <i>B. Williams</i>	DATE: 09/17/01
---------------------------------	---------------	---------------------------------	----------------

SEDIMENT LOG

STATION NUMBER LL2-233¹⁹

PROJECT: RVAAP, Load Line 2 Phase II RI

INSPECTOR MSM, SEM

SHEET 1 OF 1

ELEV (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE	ANALYTICAL SAMPLE NO. (F)	REMARKS (G)
	0.5'	SM MSM dark, greyish brown silty clay with organic matter	Φ, Φ ppm	LL2-1096 (grain size)	LL2-1096	Subaqueous sediment sample
	1.0'					
MSM 7.27-61						

PROJECT RVAAP, Load Line 2 Phase II RI

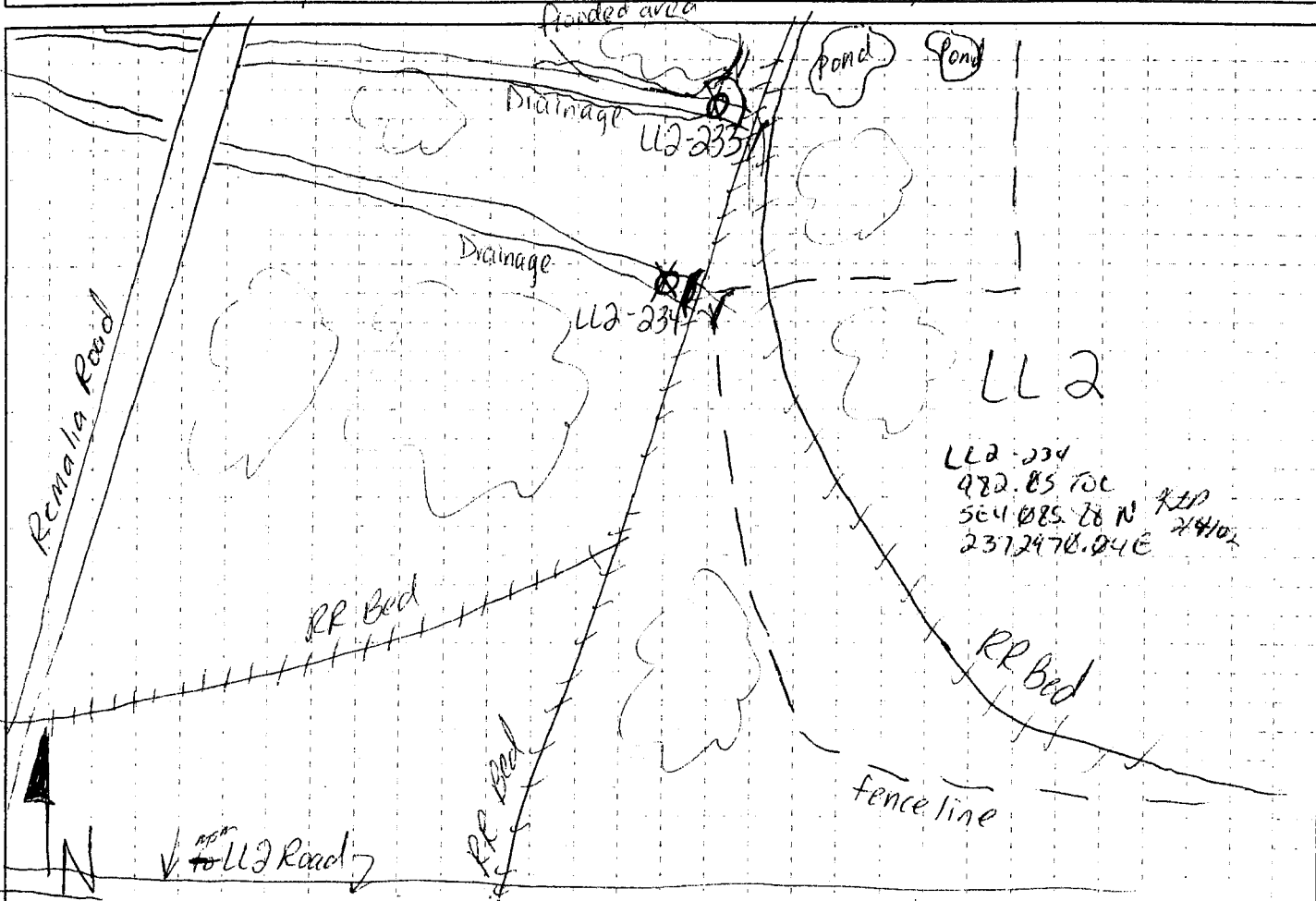
STATION NUMBER LL3-233

LOCATION SKETCH

PROJECT NO: Load Line 2 Phase II RI

DELIVERY ORDER NO: ECAS 186

STATION ID NUMBER: LL2sd - ^{PSM} 234	STATION DESCRIPTOR: drainage north, off LL2; TRK 45
SEDIMENT ID NUMBER: LL2-1097	SEDIMENT DATE & TIME: 07 27-01
SURFACE WATER ID NUMBER: N/A	SURFACE WATER DATE & TIME: N/A



SW Quality Field Parameters:		
pH _____	D.O. _____	NORTHING: _____
Conductivity _____	Temperature _____	EASTING: _____
Turbidity _____	Other _____	

COMMENTS:

B
09/17/01

RECORDED BY: <i>Nelly M</i>	DATE: 7-27-01	QA CHECK BY: <i>B. Williams</i>	DATE: 09/17/01
-----------------------------	---------------	---------------------------------	----------------

SEDIMENT LOG

STATION NUMBER **LL2-234**

PROJECT: RVAAP, Load Line 2 Phase II RI

INSPECTOR **MSM, SEM**

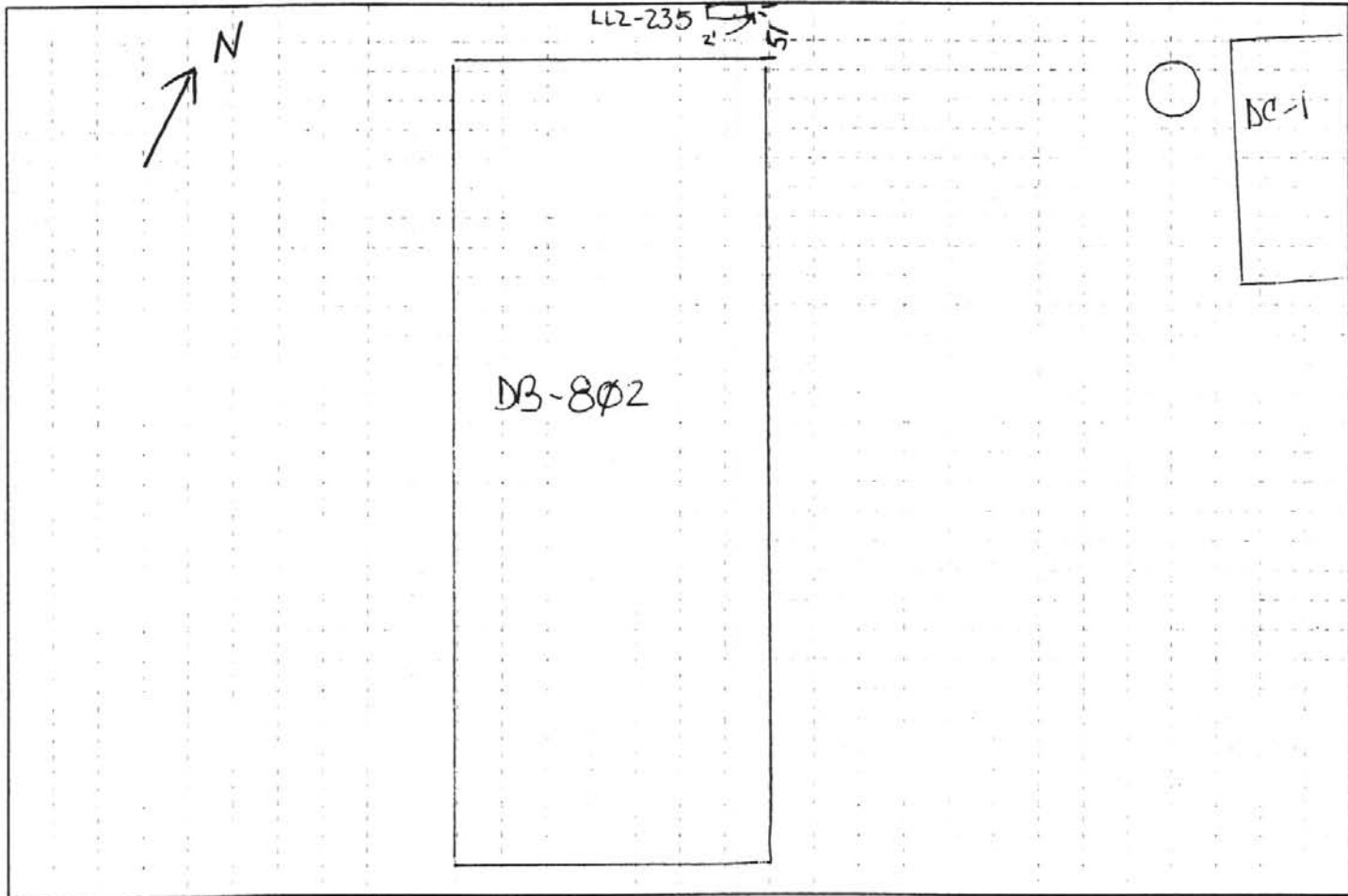
SHEET **1** OF **1**

ELEV (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE	ANALYTICAL SAMPLE NO. (F)	REMARKS (G)
	0.5'	silty clay with some sand and gravel, dark brown	0.0 ppm	N/A	LL2-1097	sediment sample
	1.0'					
<div style="display: flex; justify-content: space-between; align-items: center;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg); font-size: 2em; font-weight: bold;">MSM</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg); font-size: 1.5em; font-weight: bold;">7-27-01</div> </div>						

LOCATION SKETCH

PROJECT NO: Load Line 2 Phase II RI **DELIVERY ORDER NO: ECAS 186**

STATION ID NUMBER: LL2-235	STATION DESCRIPTOR: <i>col 3/10/01</i> Storm sewer north of Bldg DB-802
SEDIMENT ID NUMBER: LL21100	SEDIMENT DATE & TIME: 7/29/01 1030
SURFACE WATER ID NUMBER:	SURFACE WATER DATE & TIME:



SW Quality Field Parameters:		
pH _____	D.O. _____	NORTHING: _____
Conductivity _____	Temperature _____	/
Turbidity _____	Other _____	

COMMENTS: *col*

RECORDED BY: <i>KC McLaughlin</i>	DATE: <i>7-29-01</i>	QA CHECK BY: <i>[Signature]</i>	DATE: <i>7-29-01</i>
--------------------------------------	-------------------------	------------------------------------	-------------------------

SEDIMENT LOG

LL2-235

STATION NUMBER

PROJECT: RVAAP, Load Line 2 Phase II RI

INSPECTOR *K McCormick*

SHEET OF

ELEV. (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE	ANALYTICAL SAMPLE NO. (F)	REMARKS (G)
		<p>(SP) Poorly graded sand fine to medium sand w/ some silt, loose, very Dark Grayish Brown 10YR 3/2, dry, w/ brick chips & veg- etation</p>			<p>LL21100 @ 1030 C&T analysis collected on 8/26/01 @ 1115</p>	<p>storm sewer was very overgrown - Sediment < 1" thick FSL 8/26/01 KCM 7/29/01</p>

PROJECT RVAAP, Load Line 2 Phase II RI

B-50

LL2-235

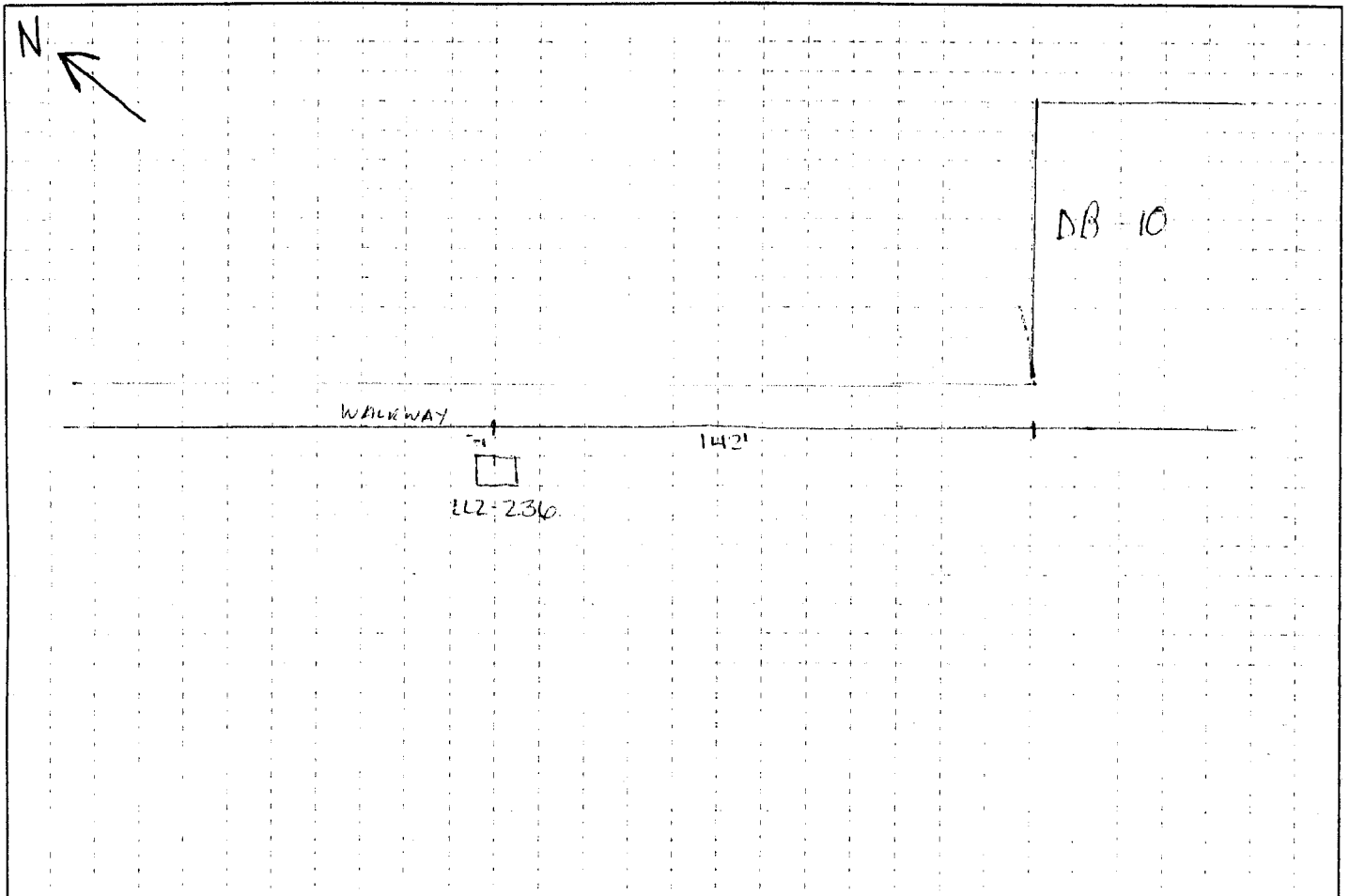
STATION NUMBER

LOCATION SKETCH

PROJECT NO: Load Line 2 Phase I/RI

DELIVERY ORDER NO: ECAS 186

STATION ID NUMBER: LL2-236	STATION DESCRIPTOR: <small>2CM NORTH WEST</small> WEST OF BUILDING DB-10; ALONG WALKWAY
SEDIMENT ID NUMBER: LL21101	SEDIMENT DATE & TIME: 7/28/01 1615
SURFACE WATER ID NUMBER:	SURFACE WATER DATE & TIME:



SW Quality Field Parameters:	pH _____ D.O. _____	NORTHING: _____
Conductivity _____	Temperature _____	EASTING: _____
Turbidity _____	Other pH 24.4 _____	

COMMENTS:

RECORDED BY: T.L. McLesard	DATE: 07-28-01	QA CHECK BY: [Signature]	DATE: 07-28-01
--	--	--	--

SEDIMENT LOG

LL2 - 234

STATION NUMBER

PROJECT: RVAAP, Load Line 2 Phase II RI

INSPECTOR *K. McCormick*

SHEET 1 OF 1

ELEV. (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE	ANALYTICAL SAMPLE NO. (F)	REMARKS (G)
		<p>(SP) Poorly graded sand Fine to medium sand, w/ some silt, vegetation, loose, Dark Brown 7.54R 3/2, dry</p>	NA		<p>LL2 1101 @ 1415</p>	<p>- grass growing in the storm sewer</p> <p>KCM 7/28/01</p>

PROJECT: RVAAP, Load Line 2 Phase II RI

LL2 - 234

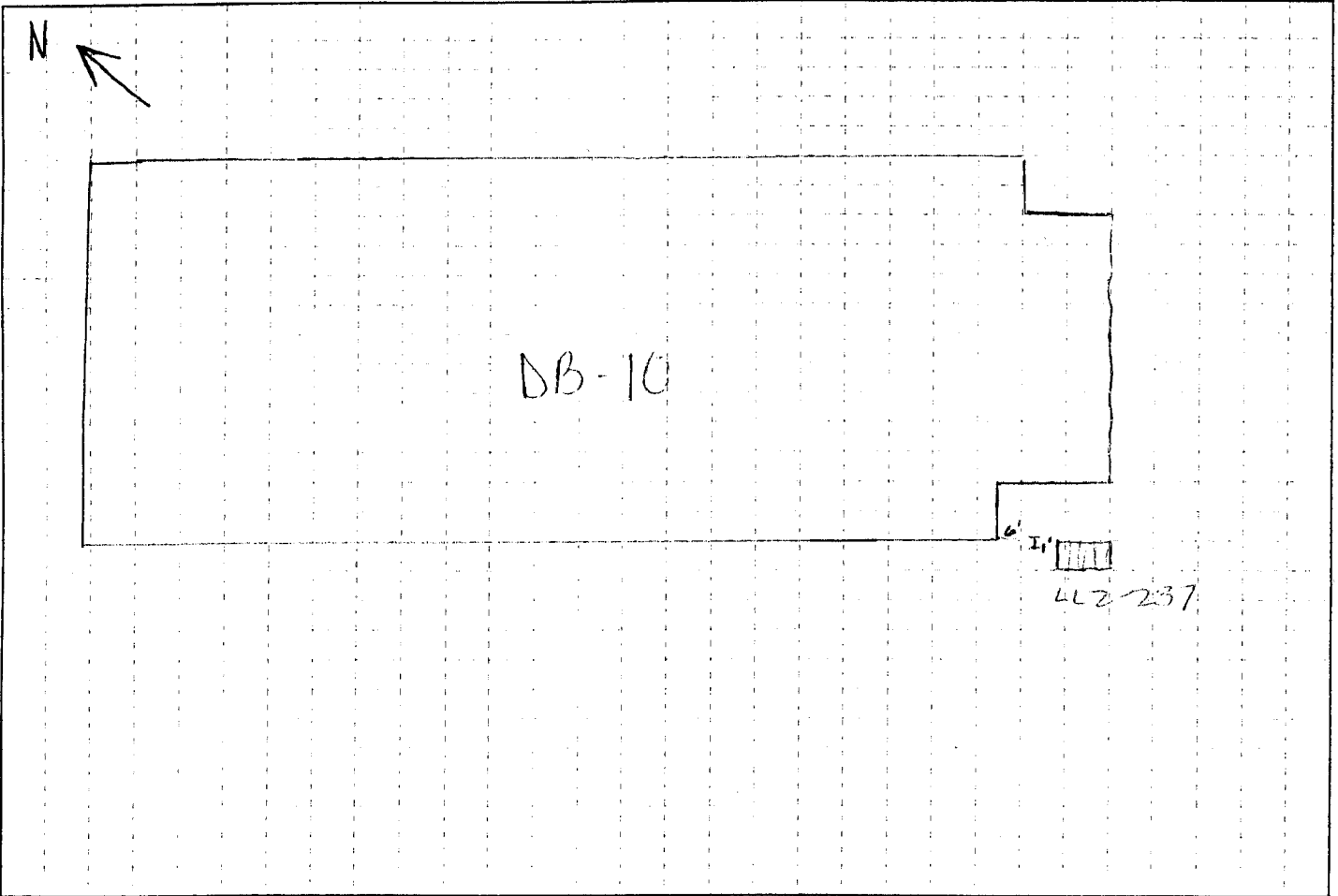
STATION NUMBER

LOCATION SKETCH

PROJECT NO: Load Line 2 Phase II RI

DELIVERY ORDER NO: ECAS 186

STATION ID NUMBER: LL2-237	STATION DESCRIPTOR: SOUTH OF BUILDING DB-10
SEDIMENT ID NUMBER: LL21102	SEDIMENT DATE & TIME: 7/28/01 1550
SURFACE WATER ID NUMBER:	SURFACE WATER DATE & TIME:



SW Quality Field Parameters:		
pH _____	D.O. _____	NORTHING: _____
Conductivity _____	Temperature _____	
Turbidity _____	Other <u>7/24/01</u> _____	EASTING: _____

COMMENTS:

RECORDED BY: <i>K. McLaughlin</i>	DATE: 7-28-01	QA CHECK BY: <i>S. McLaughlin</i>	DATE: 7-28-01
--------------------------------------	------------------	--------------------------------------	------------------

SEDIMENT LOG

622-237

STATION NUMBER

PROJECT: RVAAP, Load Line 2 Phase II RI

INSPECTOR *IC Mc Cormick*

SHEET 1 OF 1

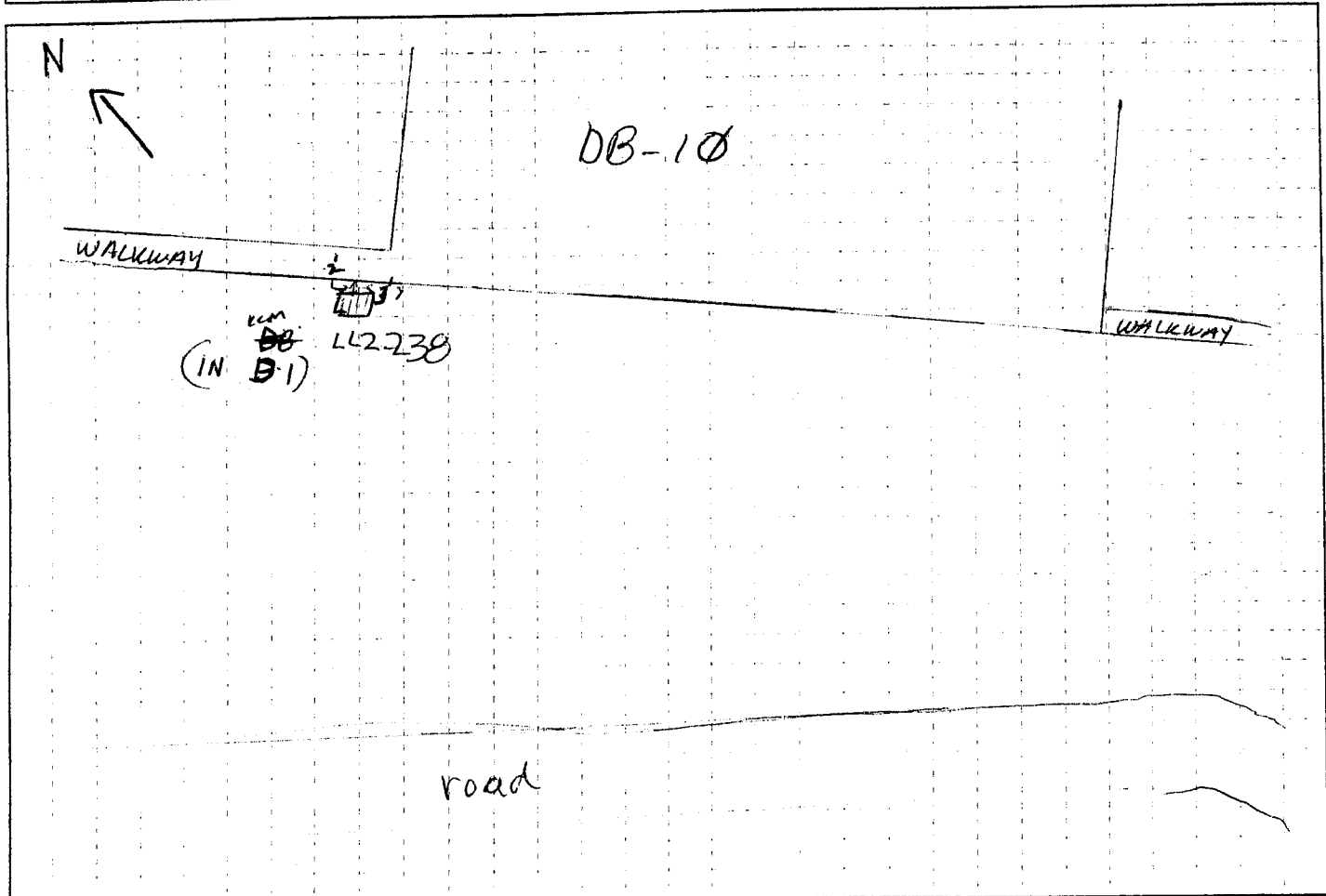
ELEV (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE	ANALYTICAL SAMPLE NO. (F)	REMARKS (G)
		<p><i>(GW 30) SANDY GRAVEL well graded gravel, angular to sub round, w/ medium to coarse sand, trace silt Black 10YR 2/1 w/ brick pieces & large rocks above sediment</i></p>	<p><i>NA</i></p>		<p><i>6221102 @ 1554</i></p>	<p><i>Ken 7/28/01</i></p>

LOCATION SKETCH

PROJECT NO: Load Line 2 Phase I (R)

DELIVERY ORDER NO: ECAS-186

STATION ID NUMBER: LL2-238	STATION DESCRIPTOR: WEST OF BLDG DB-10
SEDIMENT ID NUMBER: LL2	SEDIMENT DATE & TIME: 7/29/01 1445
SURFACE WATER ID NUMBER:	SURFACE WATER DATE & TIME:



SW Quality Field Parameters:		
pH _____	D.O. _____	NORTHING: _____ EASTING: _____
Conductivity _____	Temperature _____	
Turbidity _____	Other <i>SM</i> _____	

COMMENTS:

RECORDED BY: <i>Kathryn McCormick</i>	DATE: <i>07-29-01</i>	QA CHECK BY: <i>McConnell</i>	DATE: <i>08-29-01</i>
--	--------------------------	----------------------------------	--------------------------

SEDIMENT LOG

LL2-238

STATION NUMBER

PROJECT: RVAAP, Load Line 2 Phase II RI

INSPECTOR *K McCormick*

SHEET 1 OF 1

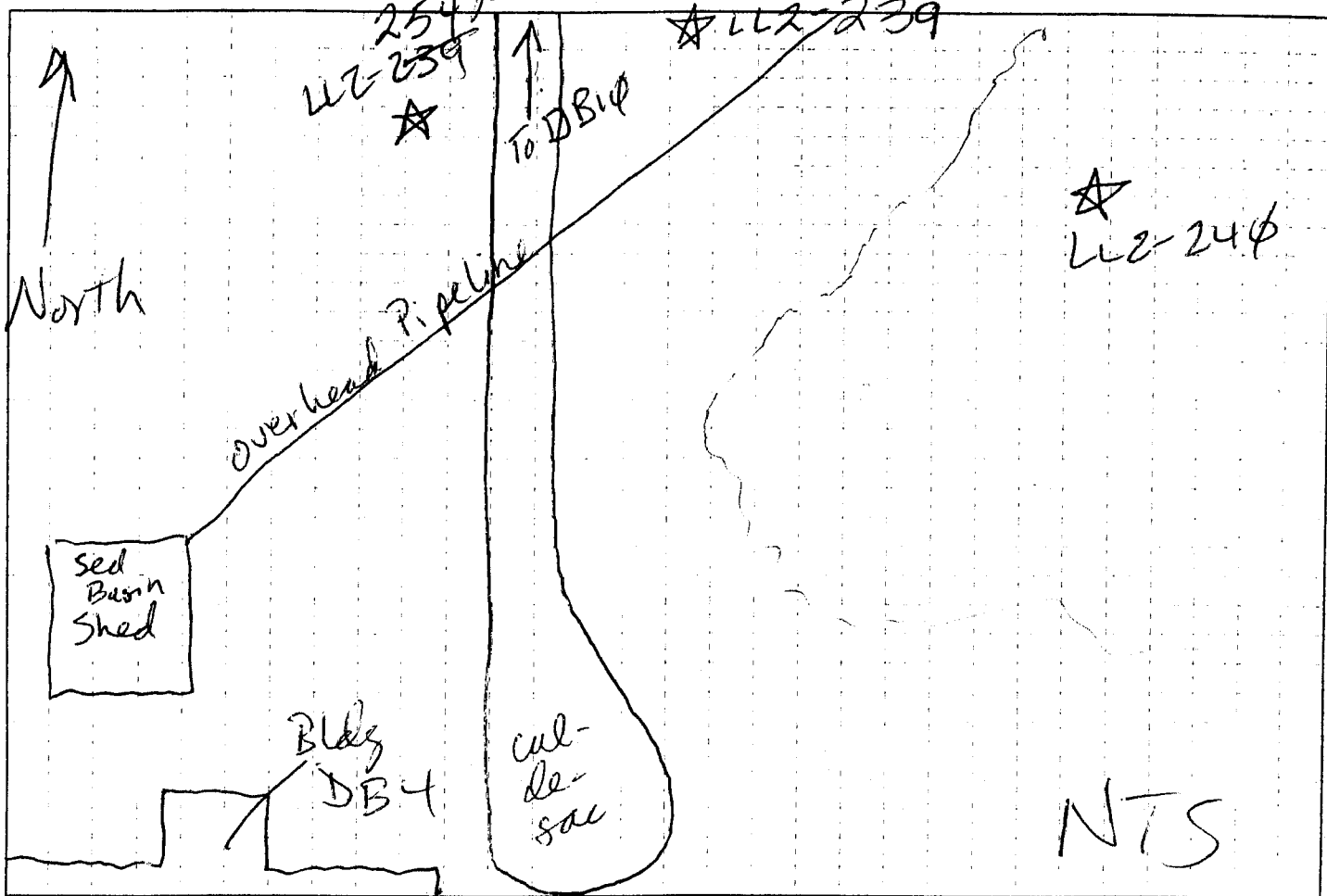
ELEV (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE	ANALYTICAL SAMPLE NO. (F)	REMARKS (G)
		<p><i>(SP) Poorly graded Sand w/ some coarse Sand, some med. Gravel, brick pieces, Dark Brown 10YR 3/3</i></p>			<p><i>LL2-1103 @1445</i></p>	<p><i>Kam 7/29/01</i></p>

LOCATION SKETCH

PROJECT NO: Load Line 2 Phase II RI

DELIVERY ORDER NO: ECAS 186

STATION ID NUMBER: LL2-240, 239, 254 (CR 11-02)	STATION DESCRIPTOR: MH B2
SEDIMENT ID NUMBER: LL2-1106	SEDIMENT DATE & TIME: 8/6/01 1027
SURFACE WATER ID NUMBER: LL2-1107	SURFACE WATER DATE & TIME: 08/01/01 0911



SW Quality Field Parameters:		NORTHING:
pH <u>5.93</u> SU	D.O. <u>1.52</u> mg/L	
Conductivity <u>0.090</u> mS/cm	Temperature <u>13.1</u> °C	
Turbidity <u>17.0</u> NTU	Other <u>N/A</u>	
		EASTING:

COMMENTS: Horiba U-10 ser. no. 14639
(see pg. 68 for Horiba results at LL2-239)

RECORDED BY: <i>Jimmy [Signature]</i>	DATE: 8/1/01	QA CHECK BY: <i>[Signature]</i>	DATE: 8/1/01
--	-----------------	------------------------------------	-----------------

TASK TEAM ACTIVITY LOG SHEET

PROJECT NAME: Load Line 2 Phase II RI

DELIVERY ORDER NO: ECAS 186

Date (mm/dd/yy): 8/6/01

Su (M) Tu W Th F Sa

PAGE 1 OF

Task Team Members:

Ty Grivat STIC
 Jenn Loerch
 Jimmy Grofau

Jeff Kapp (EOTI)

Rev 991.7/1/01

Narrative (include time and location):

1015 Arrive at Bldg DB4, U2 to collect surface water & sediment samples

1027 Sample LL21106 collected from U2-240,

Sediment sample: explosives, metals, & PCBs

PID = 0.0 ppm (ser. no. 13270); sample

collected from center of concrete channel in bottom of manhole (MH B2)

1100 Sample ^{U2-1111 gnl} ~~U2-110~~ collected at U2-239 (surface water). Horiba U-10

ser. no. 14639 used to take the following readings:

Temp 18.0°C

map on page 70

pH 6.10 SU

sediment sample collected from 0-3 in,

Cond. .153 mS/cm

super-saturated, very dark brown (10YR 2/2)

Turbidity - 10 NTU

oily muck w/decayed out leaves; PID reading =

D.O. N/A

0.0 ppm (13270), oily sheen

"Sediment sample LL2-1104 collected at location U2-239 (metals, explosives, PCBs)

Daily Weather Conditions:

A.M. Clear, Sunny, 80°F, no wind

P.M. NA

Recorded By

Jimmy Grofau

QA Checked By

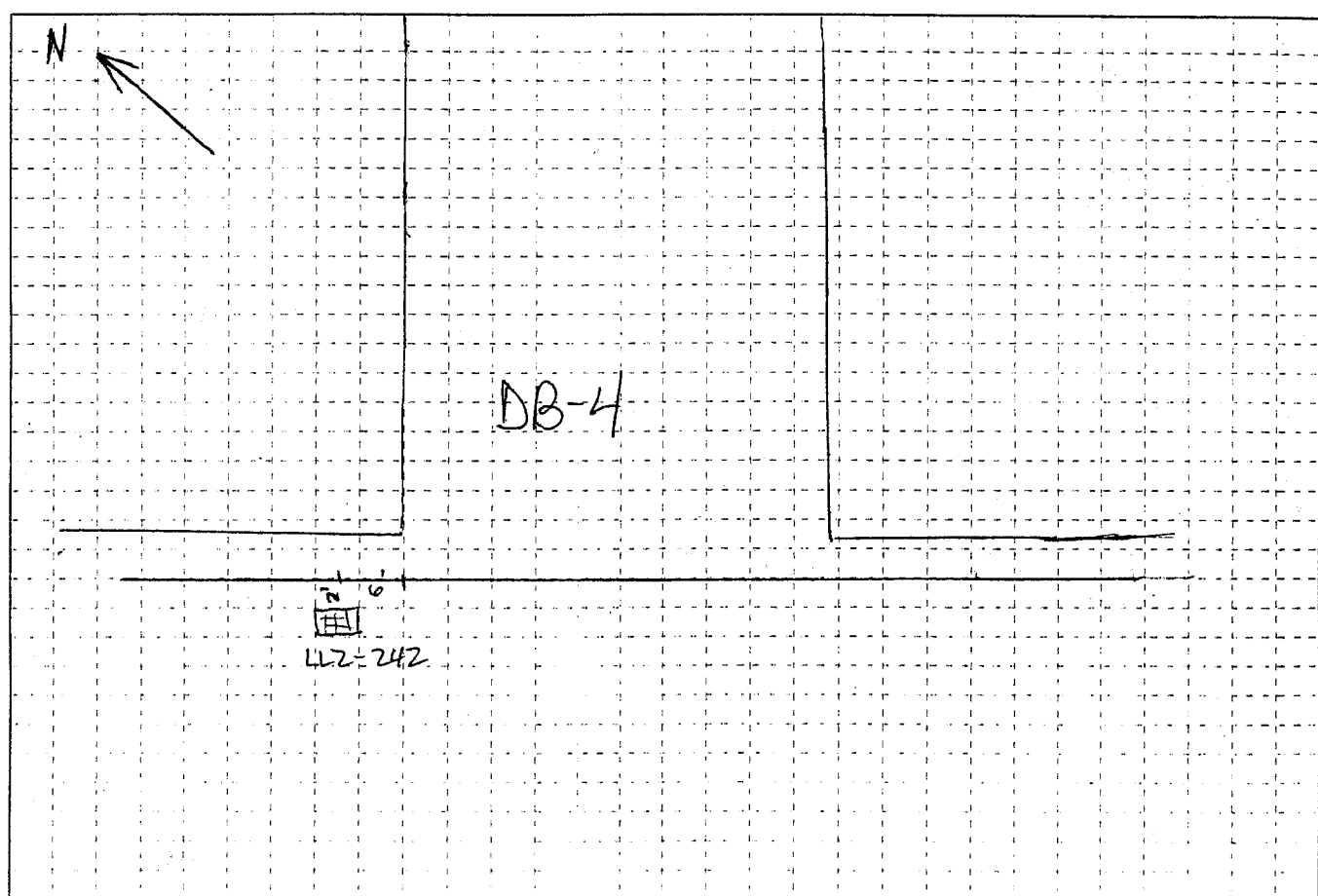
Jen Loerch

10

LOCATION SKETCH

PROJECT NO: Load Line 2 Phase II RI **DELIVERY ORDER NO:** EGAS 186

STATION ID NUMBER: LL2-242	STATION DESCRIPTOR: WEST OF BUILDING DB-4
SEDIMENT ID NUMBER: LL2110	SEDIMENT DATE & TIME: 7/28/01 1525
SURFACE WATER ID NUMBER:	SURFACE WATER DATE & TIME:



SW Quality Field Parameters:		
pH _____	D.O. _____	NORTHING: EASTING:
Conductivity _____	Temperature _____	
Turbidity _____	Other 09-24-01 _____	

COMMENTS:

SA

RECORDED BY: KCM Conrad	DATE: 07-28-01	QA CHECK BY: McCord
		DATE: 09-24-01

SEDIMENT LOG

LL2-242

STATION NUMBER

PROJECT: RVAAP, Load Line 2 Phase II RI

INSPECTOR *KC McCormick*

SHEET 1 OF 1

ELEV. (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE	ANALYTICAL SAMPLE NO. (F)	REMARKS (G)
		<p>(M) Gravelly Silt w/ Fine Sand, angular to subangular gravel. Fine to coarse gravel very dark Grayish Brown 10YR 3/2, wet pieces of brick, metal, vegetation.</p>				<p>- moved rocks aside to get to sediment.</p> <p>KCm 7/28/01</p>

PROJECT: RVAAP, Load Line 2 Phase II RI

B-61

LL2-242

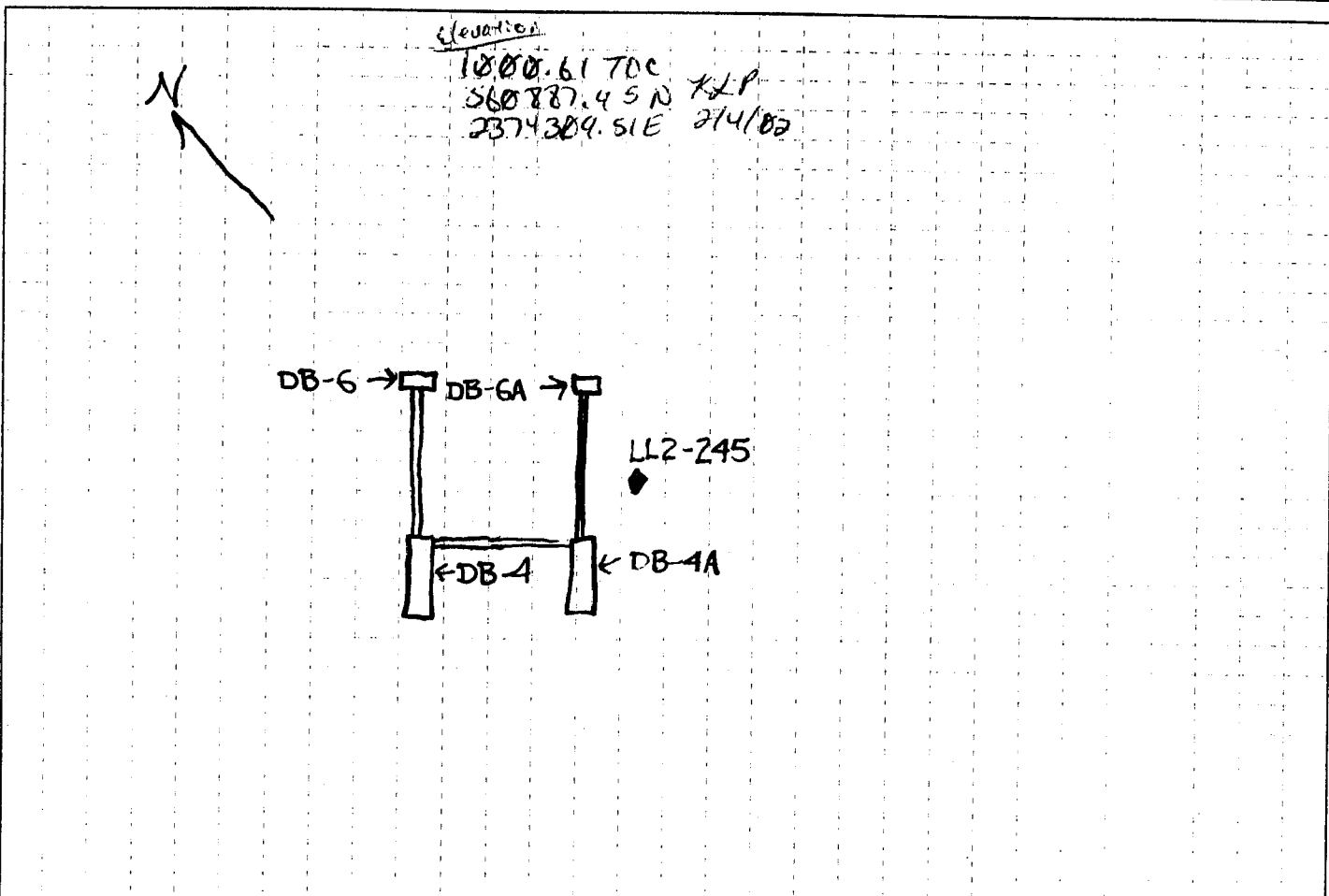
STATION NUMBER

LOCATION SKETCH

PROJECT NO: Load-Line 2 Phase I RI

DELIVERY ORDER NO: ECAS 1186

STATION ID NUMBER: LL2-245	STATION DESCRIPTOR: Surface drainage ditch.
SEDIMENT ID NUMBER: LL2-1113	SEDIMENT DATE & TIME: 7/30/01 @ 0835
SURFACE WATER ID NUMBER: N/A	SURFACE WATER DATE & TIME: N/A



SW Quality Field Parameters:	Not Available	
pH _____	D.O. _____	NORTHING: EASTING:
Conductivity _____	Temperature _____	
Turbidity _____	Other S/A _____	

COMMENTS: *09-24-01*

RECORDED BY: <i>Paul J. Smith</i>	DATE: 7/30/01	QA CHECK BY: SKR	DATE: _____
-----------------------------------	----------------------	-------------------------	-------------

SEDIMENT LOG

STATION NUMBER **LL2-245**

PROJECT: RVAAP, Load Line 2 Phase II RI

INSPECTOR **P. Lucot**

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

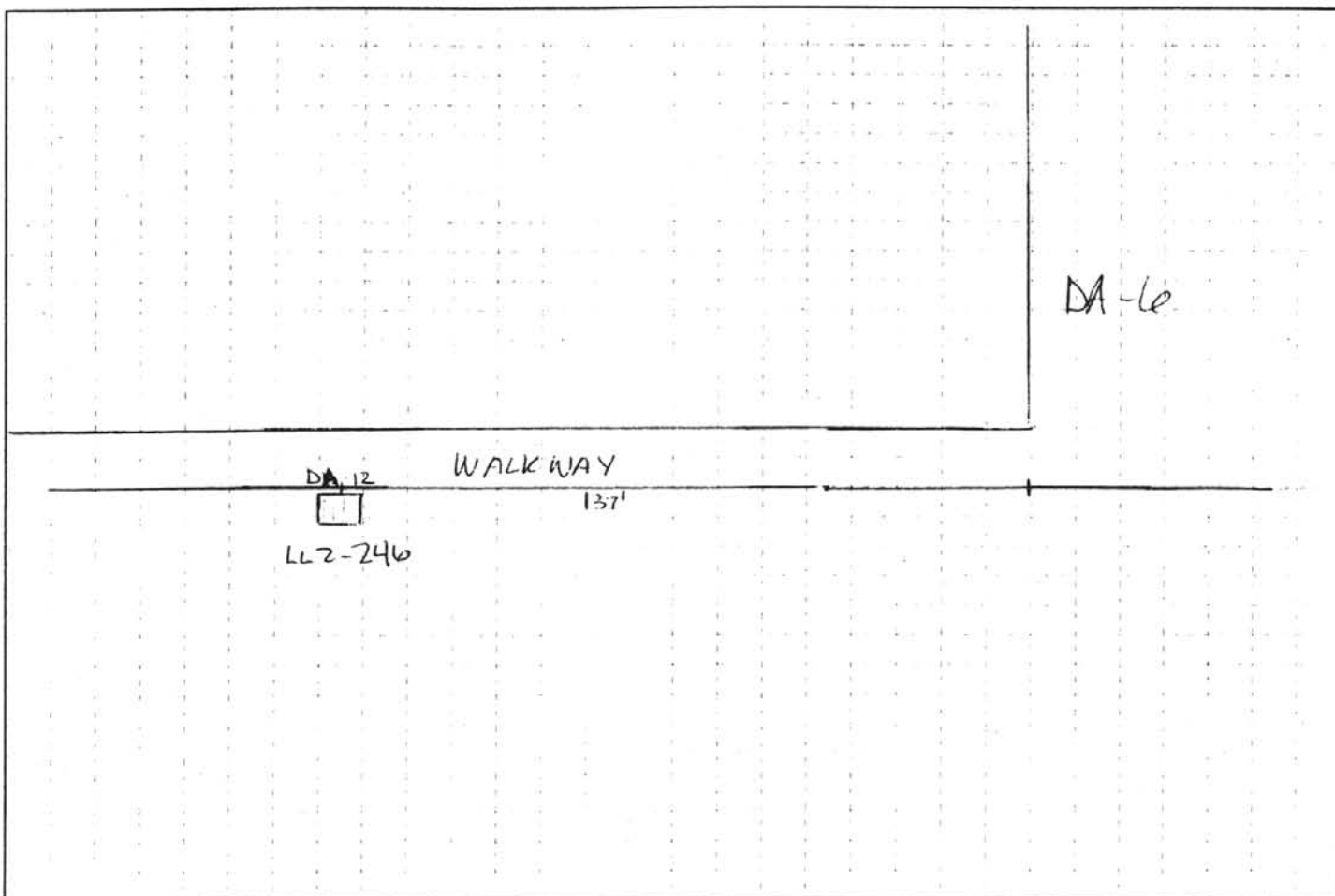
ELEV (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE	ANALYTICAL SAMPLE NO. (F)	REMARKS (G)
	0.5'	Well sorted SAND with traces of gravel & silt (SP), moist, loose, sand is sub angular to subrounded, very dark gray (10YR 3/1).	NA	LL2 1113 7/30/01 @ Ø835	LL2 1113 7/30/01 @ Ø835	
				P82 7/30/01		

LOCATION SKETCH

PROJECT NO: Load Line 2 Phase II RI

DELIVERY ORDER NO: ECAS 186

STATION ID NUMBER: LL2-246	STATION DESCRIPTOR: Storm sewer southeast of Bldg DA-6
SEDIMENT ID NUMBER: LL2115	SEDIMENT DATE & TIME: 7/29/01 0945
SURFACE WATER ID NUMBER:	SURFACE WATER DATE & TIME:



SW Quality Field Parameters:		
pH _____	D.O. _____	NORTHING:
Conductivity _____	Temperature _____	
Turbidity _____	Other _____	EASTING:

COMMENTS:

01-29-01

RECORDED BY: Kathryn McManis	DATE: 01-29-01	QA CHECK BY: McClain	DATE: 01-29-01
---------------------------------	-------------------	-------------------------	-------------------

SEDIMENT LOG

LL2-246

STATION NUMBER

PROJECT: RVAAP, Load Line 2 Phase II RI

INSPECTOR *K. McCormick*

SHEET 1 OF 1

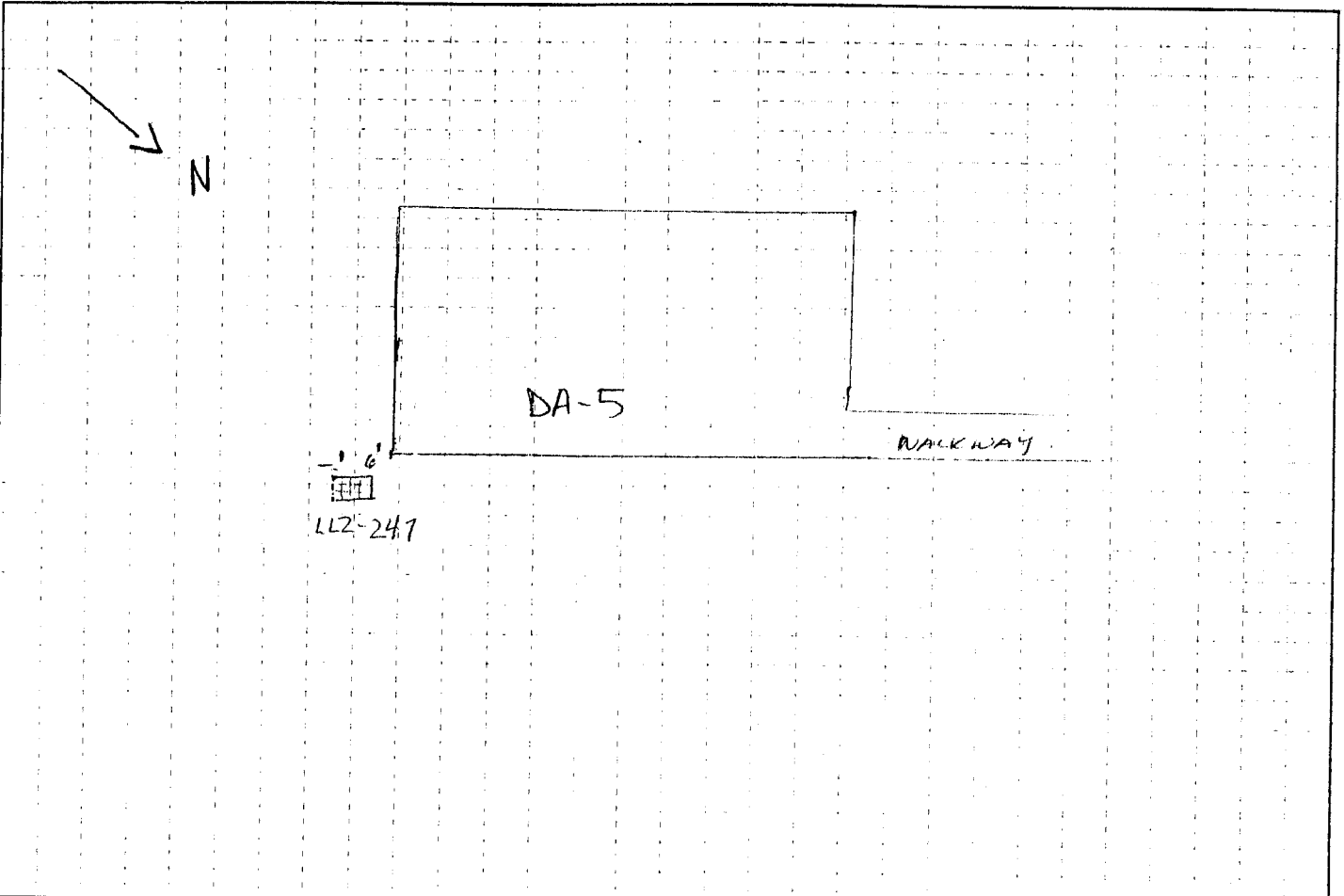
ELEV. (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE	ANALYTICAL SAMPLE NO. (F)	REMARKS (G)
	1	(SP) Poorly graded Sand; fine to medium Sand w/ some coarse Sand and silt. Dark Grayish Brown 104R 4/2, saturated	NA		222115 @0945	ballast covered sediment grate was not covering the storm sewer. <i>KCM 7/29/01</i>

LOCATION SKETCH

PROJECT NO: Load Line 2 Phase II R

DELIVERY ORDER NO: ECAS 1186

STATION ID NUMBER: LL2-247	STATION DESCRIPTOR: EAST OF BUILDING DA-5
SEDIMENT ID NUMBER: 2221116	SEDIMENT DATE & TIME: 7/28/01 1650
SURFACE WATER ID NUMBER:	SURFACE WATER DATE & TIME:



SW Quality Field Parameters:		
pH _____	D.O. _____	NORTHING: _____
Conductivity _____	Temperature _____	
Turbidity _____	Other _____	EASTING: _____

COMMENTS: *LL-247*

RECORDED BY: <i>Kathy A. Conrad</i>	DATE: 7-28-01	QA CHECK BY: <i>Steve Conrad</i>	DATE: 7-24-01
--	------------------	-------------------------------------	------------------

SEDIMENT LOG

LLZ-247

STATION NUMBER

PROJECT: RVAAP, Load Line 2 Phase II RI

INSPECTOR *K. McCormick*

SHEET 1 OF 1

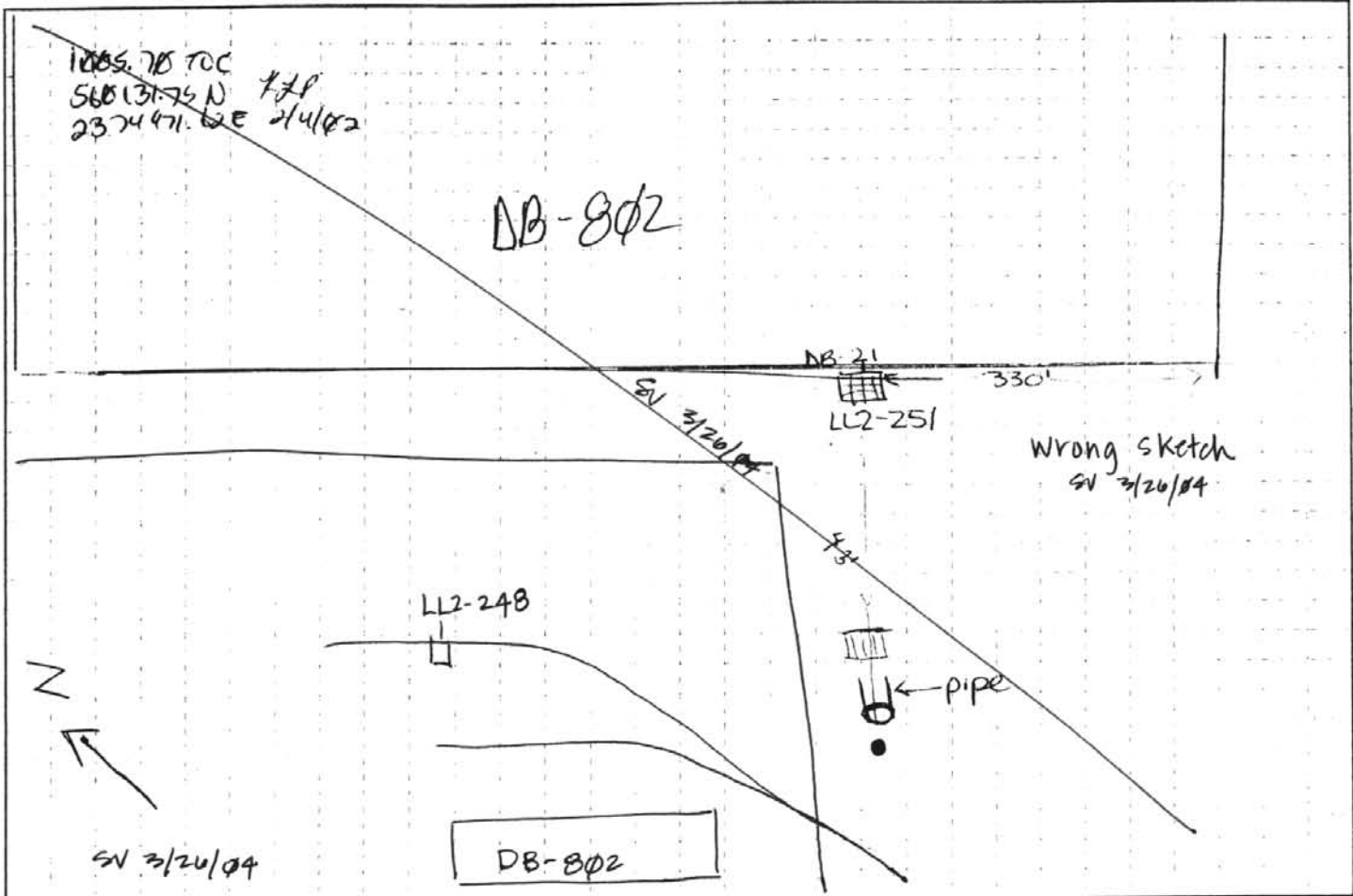
ELEV. (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE	ANALYTICAL SAMPLE NO. (F)	REMARKS (G)
		<p><i>1cm</i> (SW) 1cm Well graded sand w/ some silt & fine gravel, subrounded to rounded, loose, very dark grayish brown color 3/2, damp</p>	<p>NA</p>		<p>LLZ1116 @ 1650</p>	<p>moved rocks and brick aside to collect sediment 1cm 7/28/81</p>

LOCATION SKETCH

PROJECT NO: Load Line 2 Phase II RI

DELIVERY ORDER NO: ECAS 186

STATION ID NUMBER: LL2-248	STATION DESCRIPTOR: Northeast of Bldg DB-802 Southwest of Bldg DB-802 SV 3/20/04
SEDIMENT ID NUMBER: LL21117	SEDIMENT DATE & TIME: 7/29/01 1425
SURFACE WATER ID NUMBER:	SURFACE WATER DATE & TIME:



SW Quality Field Parameters:		
pH _____	D.O. _____	NORTHING: _____
Conductivity _____	Temperature _____	EASTING: _____
Turbidity _____	Other <u>04-24-01</u>	

COMMENTS:

RECORDED BY: <i>Kathryn McCornick</i>	DATE: 07-29-01	QA CHECK BY: <i>McCornick</i>	DATE: 09-21-01
--	-------------------	----------------------------------	-------------------

SEDIMENT LOG

LL2-248

STATION NUMBER

PROJECT: RVAAP, Load Line 2 Phase II RI

INSPECTOR *K. McCormick*

SHEET OF

ELEV. (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE	ANALYTICAL SAMPLE NO. (F)	REMARKS (G)
		<p><i>(OL/OH) Organic Soil w/ Sand - fine to medium sand, roots Very Dark Grayish Brown 2.5Y 3/2</i></p>			<p><i>LL2117 @1425</i></p>	<p><i>reeds covering sample location cut some down before collecting sample KCM 7/29/81</i></p>

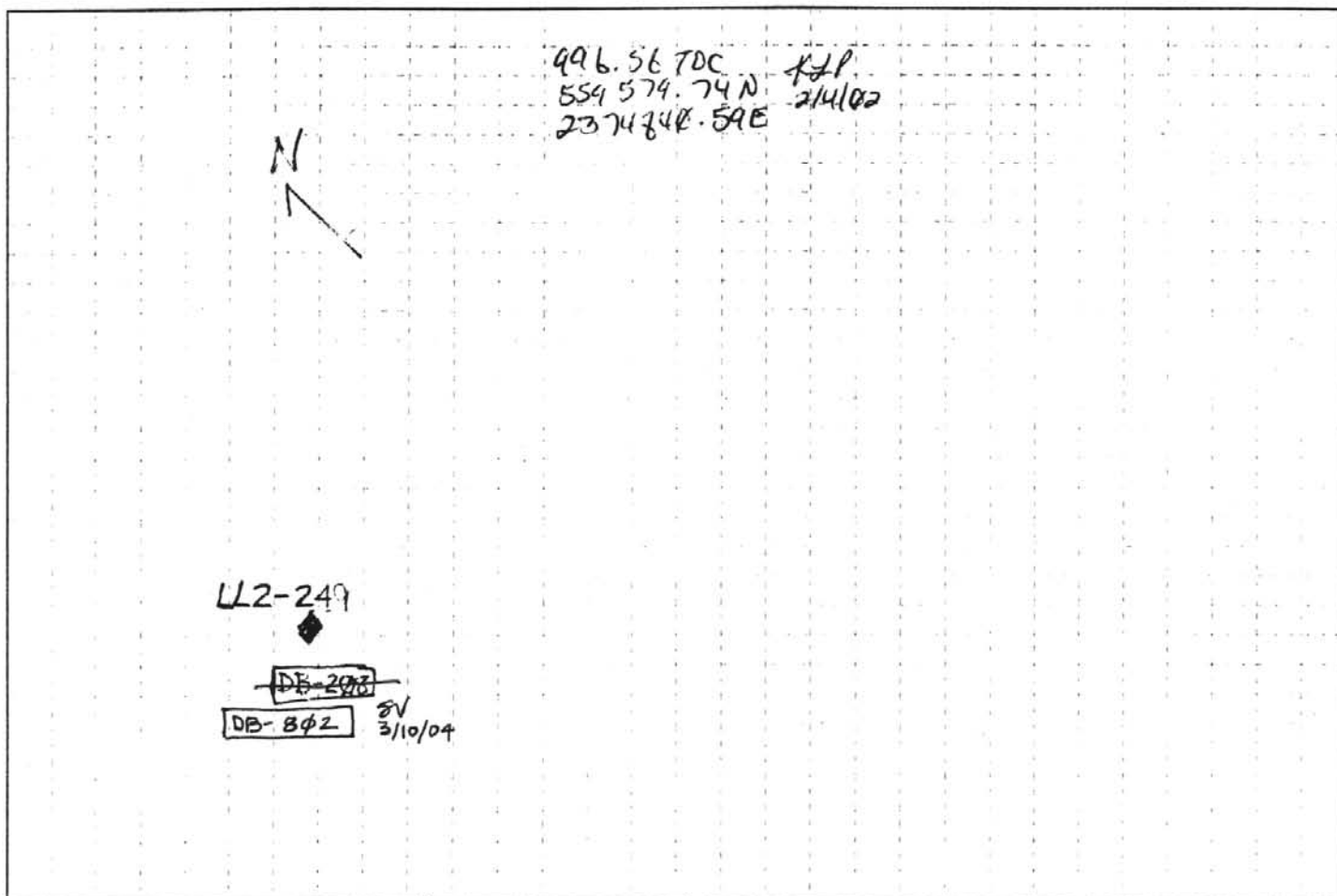
PROJECT: RVAAP, Load Line 2 Phase II RI

LOCATION SKETCH

PROJECT NO: Load Line 2 Phase II RI

DELIVERY ORDER NO. ECAS 186

STATION ID NUMBER: (LL2-249) PSL LL2-249	STATION DESCRIPTOR: East of Bldg DB-802 SW 3/10/04
SEDIMENT ID NUMBER: LL2118 / duplicate # / split sample # LL21170 / LL21195	SEDIMENT DATE & TIME: 7/30/01 @ 0938
SURFACE WATER ID NUMBER: LL21119	SURFACE WATER DATE & TIME: 7/30/01 @ 0930



SW Quality Field Parameters:	No meter available	
pH _____	D.O. _____	NORTHING:
Conductivity _____	Temperature _____	EASTING:
Turbidity _____	Other _____	

PSL
7/31/01

COMMENTS:

RECORDED BY: Paul G. Luost	DATE: 7/31/01	QA CHECK BY: SKR	DATE:
----------------------------	---------------	------------------	-------

SEDIMENT LOG

STATION NUMBER **LL2-249**

PROJECT: RVAAP, Load Line 2 Phase II RI

INSPECTOR **P. Lucot**

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

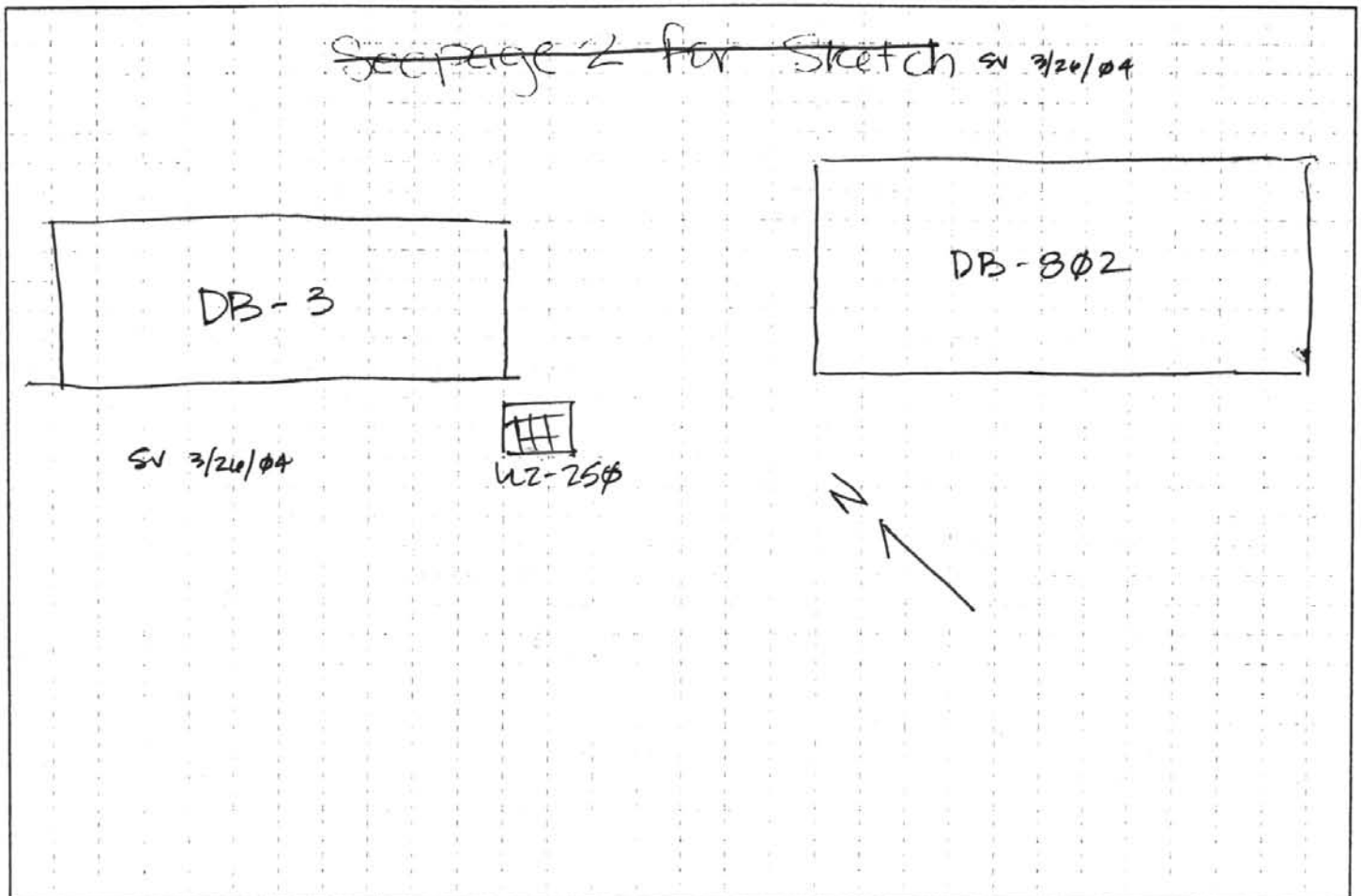
ELEV (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE	ANALYTICAL SAMPLE NO. (F)	REMARKS (G)
	0.5'	PSL 7/30/01 w/ some gravel Sandy Organic SILT (OL) wet, non plastic, very soft, black (2.5Y 2.5/1)	0.0 ppm	LL21118 7/30/01 @ 0938	LL21118, LL21170, # LL21195 7/30/01 @ 0938	Surface water sample # LL21119.
<div style="position: absolute; top: 50%; left: 50%; transform: translate(-50%, -50%); opacity: 0.5;"> PSL 7/30/01 </div>						

LOCATION SKETCH

PROJECT NO: Load Line 2 Phase II RI

DELIVERY ORDER NO: ECAS 186

STATION ID NUMBER: ^{KUM} LL2-251 LL2-250	STATION DESCRIPTOR: STORM SEWER WEST OF Bldg 802
SEDIMENT ID NUMBER: ^{KUM} LL21121 LL21122 LL21174, LL21199	SEDIMENT DATE & TIME: 7/28/01 1445
SURFACE WATER ID NUMBER:	SURFACE WATER DATE & TIME:



SW Quality Field Parameters:		
pH _____	D.O. _____	NORTHING: _____
Conductivity _____	Temperature _____	EASTING: _____
Turbidity _____	Other ^{at 21} _____	

COMMENTS: *FA*

RECORDED BY: <i>K. McLaughlin</i>	DATE: _____	QA CHECK BY: <i>[Signature]</i>	DATE: <i>07-24-01</i>
-----------------------------------	-------------	---------------------------------	-----------------------

SEDIMENT LOG

LL2-250

STATION NUMBER

PROJECT: RVAAP, Load Line 2 Phase II RI

INSPECTOR K McCormick

SHEET 1 OF 1

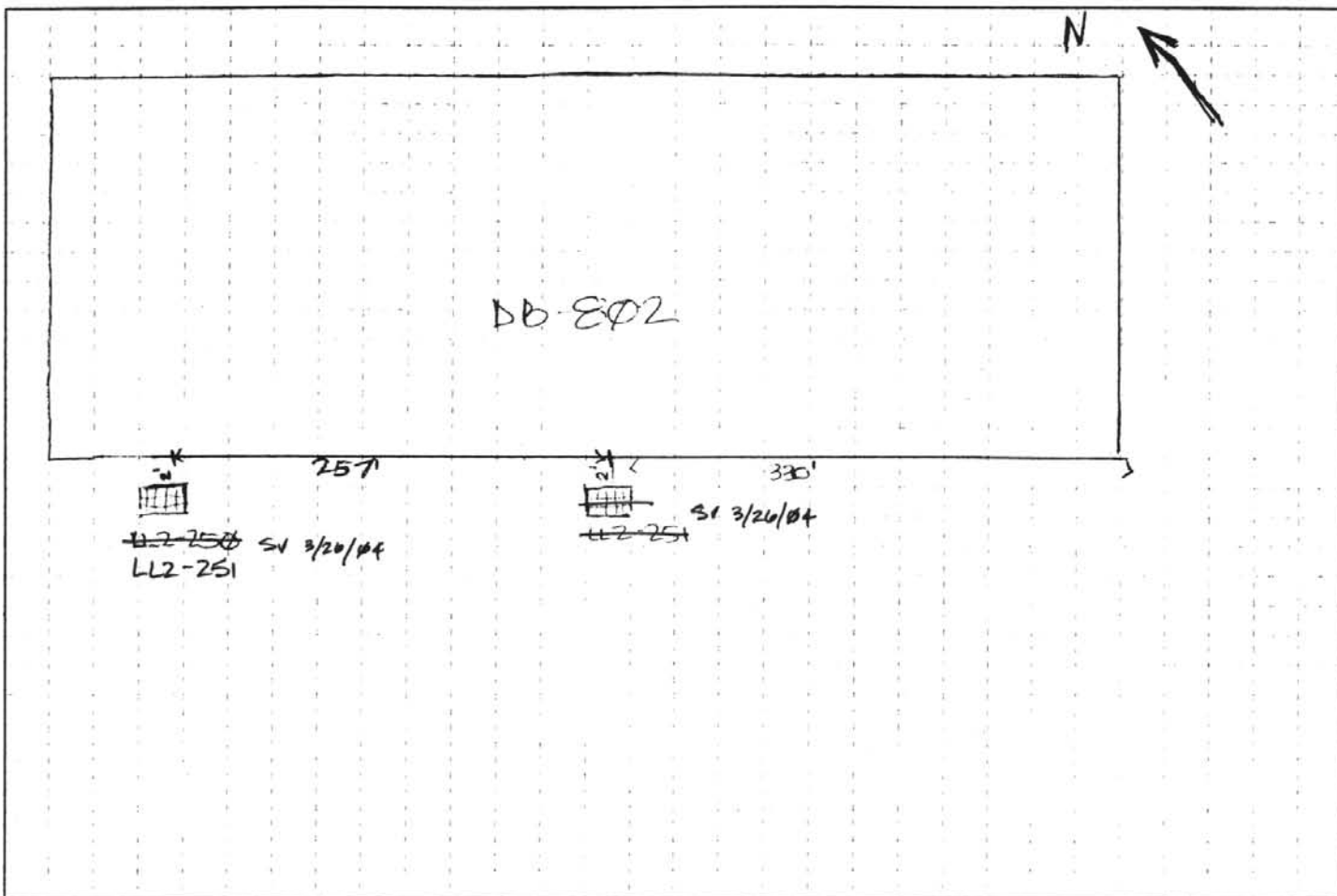
ELEV (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE	ANALYTICAL SAMPLE NO (F)	REMARKS (G)
		(SP) Sand - fine to med sand, some coarse, wet, Dark Yellowish Brown 10YR4/4	170 ppm		LL21121	Very strong degraded oil color
		(SP) Poorly graded sand, some coarse sand, Black 10YR2/1, wet			LL21174	
	0.5	(ml) silt, w/ some clay, Dark Grayish Brown 2.5Y 4/2, wet Kcm			LL21199 @1445	

LOCATION SKETCH

PROJECT NO: Load Line 2 Phase II RI

DELIVERY ORDER NO: ECAS 186

STATION ID NUMBER: LL2-251	STATION DESCRIPTOR: 802 STORM SEWER WEST OF Bldg 240 KCM
SEDIMENT ID NUMBER: LL21122	SEDIMENT DATE & TIME: 7/28/01, 1415
SURFACE WATER ID NUMBER:	SURFACE WATER DATE & TIME:



SW Quality Field Parameters:		
pH _____	D.O. _____	NORTHING: _____
Conductivity _____	Temperature _____	EASTING: _____
Turbidity _____	Other ϕ^9-24-0 _____	

COMMENTS:

St. Paul

RECORDER BY: <i>KCM</i>	DATE: <i>8-28-01</i>	QA CHECK BY: <i>[Signature]</i>	DATE: <i>8/24/01</i>
----------------------------	-------------------------	------------------------------------	-------------------------

SEDIMENT LOG

LL2-251

STATION NUMBER

PROJECT: RVAAP, Load Line 2 Phase II RI

INSPECTOR *K. McCormick*

SHEET 1 OF 1

ELEV (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE	ANALYTICAL SAMPLE NO. (F)	REMARKS (G)
		<p><i>(60) Well graded Gravel, angular to subround, Fine to coarse w/ well graded sand, trace S: lt, V Dry Dark Grayish Brown 10YR3/2, Saturated - pieces of brick + asphalt, concrete, slag</i></p>				<p><i>16m 7/28/01</i></p>

LOCATION SKETCH

PROJECT NO: Load Line 2 Phase I (R)

DELIVERY ORDER NO: ECAS 186

STATION ID NUMBER: LL2-252	STATION DESCRIPTOR: North of the South Service Road ^{3/10/09} 9V
SEDIMENT ID NUMBER: LL21125	SEDIMENT DATE & TIME: 7/30/01 @ 1035
SURFACE WATER ID NUMBER: N/A	SURFACE WATER DATE & TIME: N/A

984.26.70C
552761.77N K2P
2374575.48E 2/4/02

See page # 66 of LL2 SW/SED # 2

SW Quality Field Parameters:

pH _____

D.O. _____

NORTHING: _____

Conductivity _____

Temperature _____

Turbidity _____

Other _____

EASTING: _____

COMMENTS:

FSL
7/30/01

RECORDED BY: <i>Paul J. Smith</i>	DATE: 7/30/01	QA CHECK BY: <i>SKR</i>	DATE: _____
-----------------------------------	---------------	-------------------------	-------------

SEDIMENT LOG

STATION NUMBER **LL2-252**

PROJECT: RVAAP, Load Line 2 Phase II RI

INSPECTOR **P. Lucot**

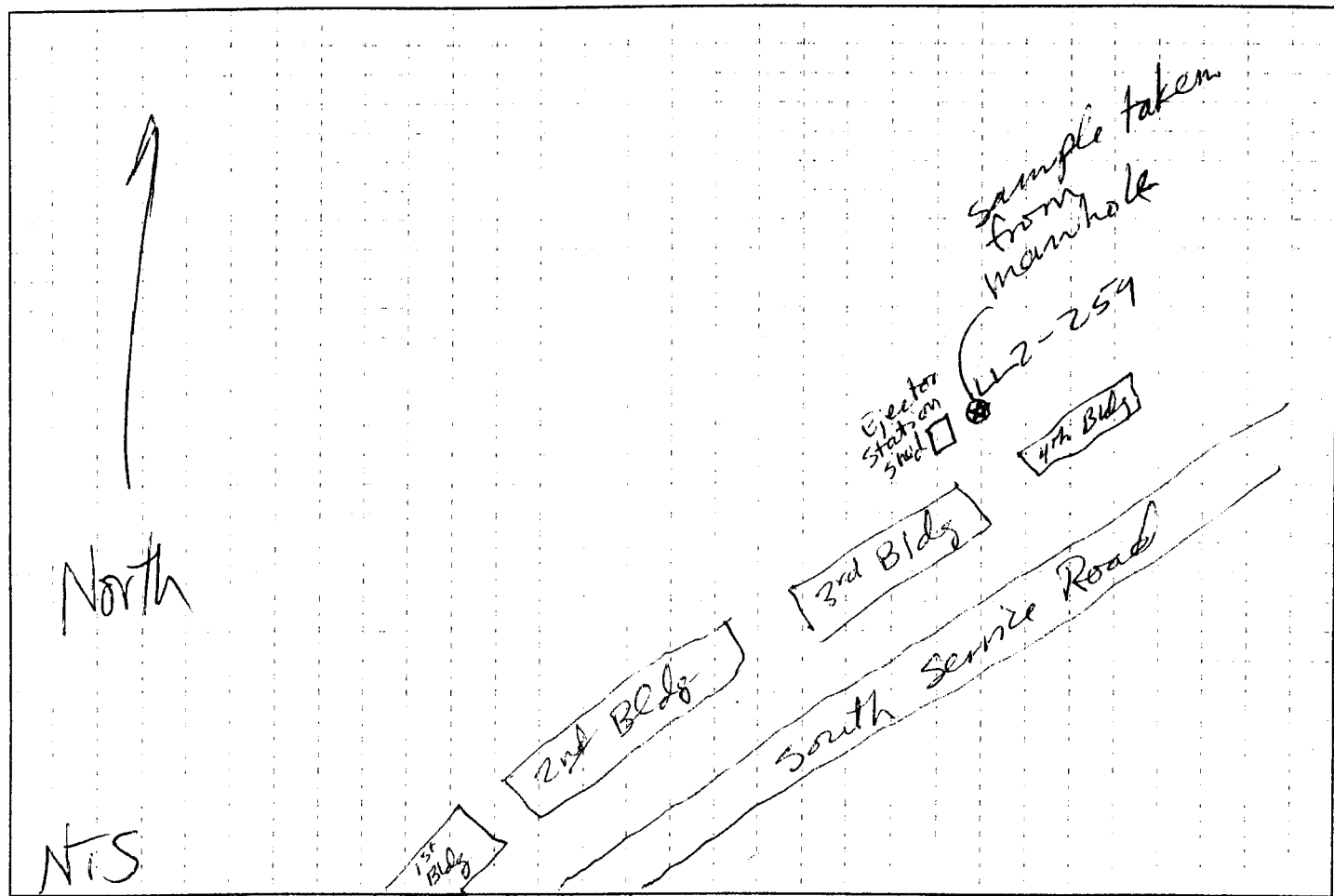
SHEET OF

ELEV. (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE	ANALYTICAL SAMPLE NO. (F)	REMARKS (G)
	0.5'	<p>Sandy CLAY with traces of gravel (10YR 4/4) st, soft, sand and gravel are angular, mottled dark yellowish brown (10YR 4/4) and dark grey (10YR 4/1).</p>	NA	L21125 7/30/01 @ 1035	L21125 7/30/01 @ 1035	
						<p style="font-size: 2em; transform: rotate(-45deg);">P.S.L. 7/30/01</p>

LOCATION SKETCH

PROJECT NO: Load Line 2 Phase IIR **DELIVERY ORDER NO:** ECAS 186

STATION ID NUMBER: LL-259	STATION DESCRIPTOR: Ejector House Bldg
SEDIMENT ID NUMBER: LL21141	SEDIMENT DATE & TIME: 7/31/01 1430
SURFACE WATER ID NUMBER: LL21142	SURFACE WATER DATE & TIME: 7/31/01 1405



SW Quality Field Parameters:	taken 08/01/01	
pH <u>6.70</u> SU	D.O. _____	NORTHING:
Conductivity <u>0.203</u> mS/cm	Temperature <u>14.4</u> °C	EASTING:
Turbidity <u>125</u> NTU	Other <u>N/A</u>	

COMMENTS: Wilco clam shell dredge for sediment,
 Horiba U-10 Ser. No. 14639

RECORDED BY: <i>Jenny [Signature]</i>	DATE: 7/31/01	QA CHECK BY: <i>[Signature]</i>	DATE: 8/1/01
--	------------------	------------------------------------	-----------------

SEDIMENT LOG

STATION NUMBER **259**

PROJECT: RVAAP, Load Line 2 Phase II RI

INSPECTOR

SHEET OF

ELEV (A)	DEPTH (B) (ft)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE	ANALYTICAL SAMPLE NO. (F)	REMARKS (G)
	0.5	Fine to medium grained sand w/ the small to large size gravel (30%). DK brown 104R 3B.	0.4ppm 13896	NA	LL21141	Not more than about 0.1 ft of sediment present
<div style="position: relative; height: 400px;"> <div style="position: absolute; top: 50%; left: 50%; transform: translate(-50%, -50%); opacity: 0.5;"> <p>RD 09/17/01</p> </div> </div>						

PROJECT: RVAAP, Load Line 2 Phase II RI

B-79

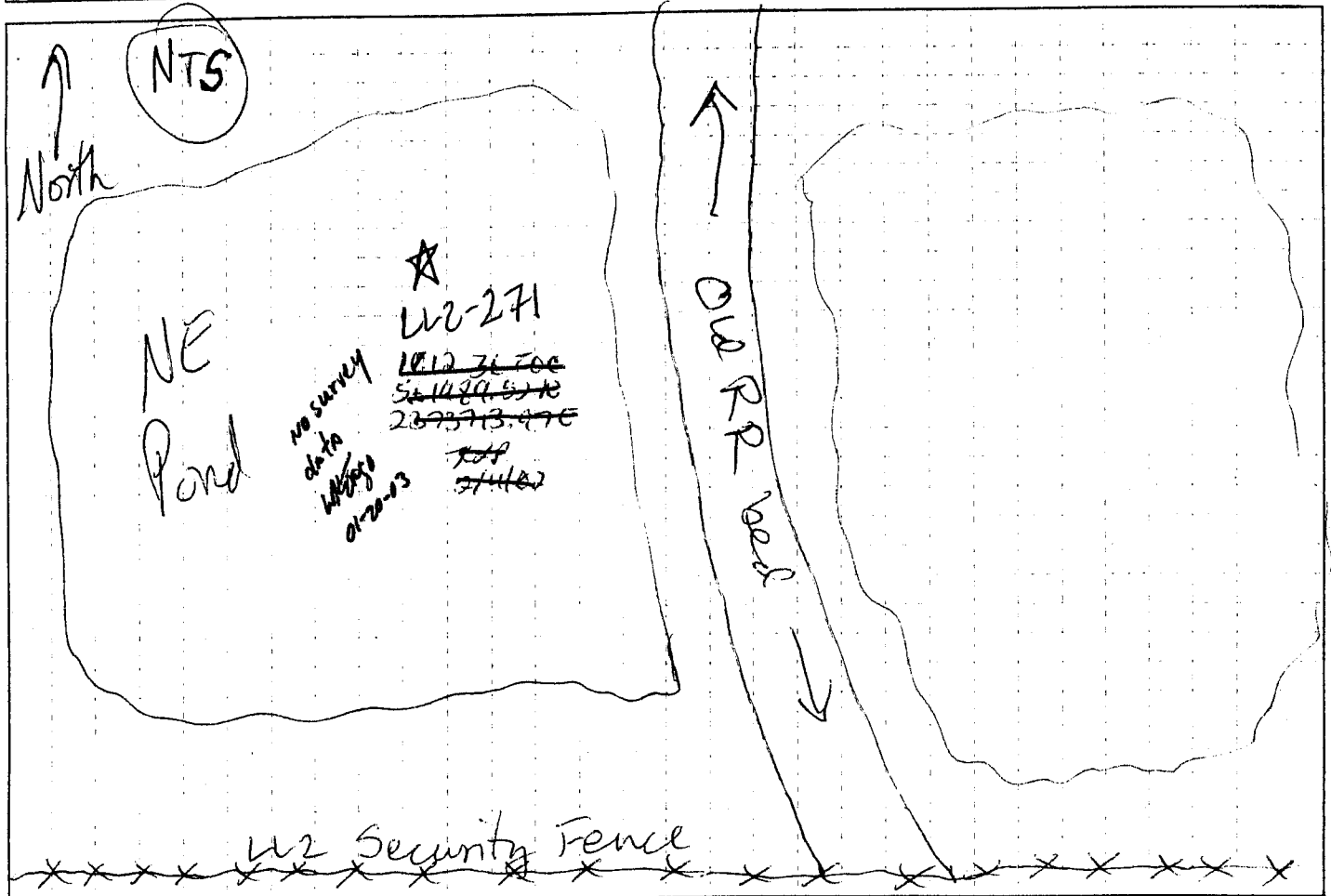
STATION NUMBER **259**

LOCATION SKETCH

PROJECT NO: Load Line 2 Phase II RI

DELIVERY ORDER NO ECAS 186

STATION ID NUMBER: LL2-271	STATION DESCRIPTOR: Northeast Pond
SEDIMENT ID NUMBER: LL21076	SEDIMENT DATE & TIME: 7/31/01 1530
SURFACE WATER ID NUMBER:	SURFACE WATER DATE & TIME:



SW Quality Field Parameters:		
pH _____	D.O. _____	NORTHING:
Conductivity _____	Temperature _____	
Turbidity _____	Other _____	EASTING:

COMMENTS: bucket sample for sediment

RECORDED BY: <i>Jimmy Groh</i>	DATE: 7/31/01	QA CHECK BY: <i>[Signature]</i>	DATE: 8/1/01
--------------------------------	---------------	---------------------------------	--------------

SEDIMENT LOG

STATION NUMBER **271**

PROJECT: RVAAP, Load Line 2 Phase II RI

INSPECTOR **Grotz**

SHEET OF

ELEV (A)	DEPTH (B) (ft)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE	ANALYTICAL SAMPLE NO. (F)	REMARKS (G)
	1.0	water	ϕ. ϕ ppm PI 1 13896	NA	LLZ (ϕ 76)	
	2.0	saturated, grayish brown (10 yr 5/2) sandy clay with gravel				
				B2 09/17/01		

TASK TEAM ACTIVITY LOG SHEET

PROJECT NAME: Load Line 2 Phase II RI

DELIVERY ORDER NO: ECAS 186

Date (mm/dd/yy): 08/01/01

Su M Tu (W) Th F Sa

PAGE 1 OF

Task Team Members:

J. Groton SAIC

J. Kapp EOTI

T. Grivat

Raw 8/1/01

J. Loerch

Narrative (include time and location):

0911 Arrived at location LL2-240 (storm sewer) to take surface water sample LL2-1107. Used Horiba U-10 serial no. 14639, sediment collected properly calibrated, for pH, conductivity, turbidity, DO, temp. Map on pg 70

0935 Sample LL2-1105 (surface water) taken at location LL2-254

Horiba U-10 serial no. 14639 used to take the following readings:

Temp. 15.3°C
pH 7.62 SU
Conductivity 0.251 mS/cm
Turbidity -7.0 NTU
Do. N/A

* No sediment to sample at LL2-254; Sample LL2-1104 not collected yet

1030 Returned to location LL2-259 to take readings using Horiba U-10. Results recorded on pg. 62 this logbook.

Signature

Daily Weather Conditions: A.M. sunny, 70°F, slight breeze

P.M. N/A

Recorded By J. Loerch

QA Checked By Signature