

CONSTRUCTION QUALITY ASSURANCE MONITORING 538871
OF THE GEOSYNTHETIC LINING SYSTEM

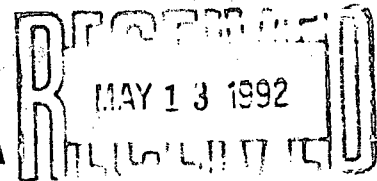
FOR THE

TRAIL RIDGE LANDFILL

PHASES IA AND IB

JACKSONVILLE, FLORIDA

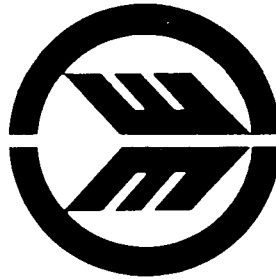
NORTHEAST DISTRICT



Volume IV
Appendices L through R

Prepared for

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33628

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GeoSyntec Consultants Project No. FQ2030

May 1992

APPENDIX L

SEAMING LOGS

SECONDARY GEOMEMBRANE LINER



GEOSYNTec CONSULTANTS
Boynton Beach, Florida



Trail Ridge Landfill, Inc.

Seaming Log

SECONDARY

Sheet No. 1 of 15

Project: Trail Ridge Landfill Phase: I & II

Project No.: FQ2030 Year: 1992

Location: Jacksonville, Florida Contractor: National Seal Company

Date (mo/dy)	Time	Seam No.	Ambient Temp. (°F)	Oper. I.D.	Mach. No.	Setting Temp. (°F)	Length (ft)	Q.A. I.D.
MAR 13	10:27	S-1/S-2	52°	2036	MX 1532	750°	0 to 120	TCB
"	10:33	S-2/S-3	52°	2067	M-1624	750°	0 to 130	TCB
"	10:52	S-4/S-5	53°	2067	M-1624	750°	0 to 99'	TCB
"	11:05	S-5/S-6	55°	2067	M-1624	750°	0 to 106'	TCB
"	11:20	S-3/S-4	55°	2067	M-1624	750°	0 to 137	TCB
"	15:34	S-6/S-7	59°	2067	M-1624	750°	0 to 115	TCB
"	15:42	S-7/S-8	59°	2036	M 1516	725°	FULL SEAM	TCB
"	15:45	S-8/S-9	58°	2036	M 1516	725°	FULL SEAM	TCB
"	16:10	S-7/S-9	58°	2036	M 1516	725°	FULL SEAM	TCB
"	15:53	S-9/S-10	58°	2067	M 1624	750°	FULL SEAM	TCB
"	15:55	S-8/S-10	58°	2067	M 1624	750°	FULL SEAM	TCB
"	16:20	S-10/S-11	58°	2036	M 1516	725°	FULL SEAM	TCB
"	16:25	S-11/S-12	58°	2067	M 1624	750°	FULL SEAM	TCB
"	16:41	S-12/S-13	57°	2067	M 1624	750°	FULL SEAM	TCB
"	16:43	S-13/S-14	57°	2036	M 1516	725°	FULL SEAM	TCB
"	17:05	S-4/S-5	57°	2036	M 1516	725°	99' to END	TCB
"	17:13	S-5/S-6	57°	2036	M 1516	725°	106' to END	TCB
"	17:25	S-6/S-7	57°	2036	M 1516	725°	FULL SEAM	TCB
"	17:43	S-14/S-15	57°	2036	M 1516	725°	FULL SEAM	TCB
"	18:00	S-16/S-17	56°	2067	M 1624	750°	FULL SEAM	TCB
"	18:08	S-15/S-17	56°	2036	M 1516	725°	FULL SEAM	TCB
"	18:15	S-17/S-18	56°	2067	M 1624	750°	FULL SEAM	TCB
"	18:20	S-15/S-16	56°	2036	M 1516	725°	FULL SEAM	TCB
"	18:25	S-16/S-18	56°	2067	M 1624	750°	FULL SEAM	TCB
MAR 14	1410	P-1/P-2	68°	2036	1516	725°	FULL SEAM	JG
MAR 14	1412	P-2/P-3	68°	2067	1624	750°	FULL SEAM	JG
MAR 14	1426	P-3/P-4	67°	2036	1516	725°	FULL SEAM	JG
MAR 14	1432	P-4/P-5	67°	2067	1624	750°	FULL SEAM	JG
MAR 14	1454	P-6/P-7	68°	2067	1624	750°	FULL SEAM	JG



GEOSYNTEC CONSULTANTS
Boynton Beach, Florida



Trail Ridge Landfill, Inc.

Seaming Log

SECONDARY

Sheet No. 2 of 15

Project: Trail Ridge Landfill

Phase: I & II

Project No.: FQ2030

Year: 1992

Location: Jacksonville, Florida

Contractor: National Seal Company

Date (mo/dy)	Time	Seam No.	Ambient Temp. (°F)	Oper. I.D.	Mach. No.	Setting Temp. (°F)	Length (ft)	O.A. I.D.
MAR. 14	1457	P-5/P-6	67°	2036	1516	725°	FULL SEAM	JG
MAR. 14	1500	P-6/P-8	67°	2067	1624	750°	FULL SEAM	JG
MAR. 14	1505	P-5/P-7	68°	2036	1516	725°	FULL SEAM	JG
MAR. 14	1509	P-7/P-8	68°	2067	1624	750°	FULL SEAM	JG
MAR. 14	1515	P-8/P-9	68°	2036	1516	725°	FULL SEAM	JG
MAR. 14	1520	P-9/P-10	68°	2067	1624	750°	FULL SEAM	JG
MAR. 14	1538	P-10/P-11	68°	2036	1516	725°	FULL SEAM	JG
MAR. 14	1555	P-11/P-12	67°	2067	1624	750°	FULL SEAM	JG
MAR. 14	1600	P-12/P-13	67°	2036	1516	725°	FULL SEAM	JG
MAR. 14	1601	P-14/P-15	67°	2067	1624	750°	FULL SEAM	JG
MAR. 14	1608	P-13/P-14	68°	2067	1624	750°	FULL SEAM	JG
MAR. 14	1615	P-13/P-15	68°	2067	1624	750°	FULL SEAM	JG
MAR. 14	1620	P-14/P-16	68°	2036	1516	725°	FULL SEAM	JG
MAR. 14	1631	P-16/P-17	67°	2067	1624	750°	FULL SEAM	JG
MAR. 14	1644	P-17/P-18	67°	2036	1516	725°	FULL SEAM	JG
MAR. 14	1632	P-15/P-16	67°	2036	1516	725°	FULL SEAM	JG
MAR 16	1537	S-19/S-20	63°	2019	1624	750	FULL SEAM	JB
MAR 16	1546	S-20/S-22	63°	2036	1516	725	FULL SEAM	JB
MAR 16	1550	S-21/S-22	63°	2019	1624	750	FULL SEAM	JB
MAR 16	1608	S-19/S-22	63°	2036	1516	725	FULL SEAM	JB
MAR 16	1612	S-19/S-21	63°	2036	1516	725	FULL SEAM	JB
MAR 16	1625	S-22/S-23	62°	2019	1624	750	FULL SEAM	JB
MAR 16	1636	S-23/S-24	62°	2036	1516	725	FULL SEAM	JB
MAR 16	1646	S-21/S-23	62°	2019	1624	750	FULL SEAM	JB
MAR 16	1741	S-25/S-26	60°	2036	1516	725	FULL SEAM	JB
MAR 16	1741	S-24/S-26	60°	2019	1624	750	FULL SEAM	JB
MAR 16	1752	S-26/S-27	60°	2036	1516	725	FULL SEAM	JB
MAR 16	1803	S-25/S-24	60°	2019	1624	750	FULL SEAM	JB
MAR 16	1823	S-25/S-27	58°	2036	1516	725	FULL SEAM	JB



GEOSYNTEC CONSULTANTS
Boynton Beach, Florida



Trail Ridge Landfill, Inc.

Seaming Log

SECONDARY

Sheet No. **3** of **15**

Project: Trail Ridge Landfill

Phase: I & II

Project No.: FQ2030

Year: 1992

Location: Jacksonville, Florida

Contractor: National Seal Company

Date (mo/dy)	Time	Seam No.	Ambient Temp. (°F)	Oper. I.D.	Mach. No.	Setting Temp. (°F)	Length (ft)	O.A. I.D.
MAR. 17	0855	S-27/S-28	50°	2067	1624	750°	FULL SEAM	JG
MAR. 17	0909	S-28/S-29	50°	2036	1516	725°	FULL SEAM	JG
MAR. 17	0940	S-29/S-30	53°	2067	1624	750°	FULL SEAM	JG
MAR. 17	1128	S-30/S-32	74°	2036	1516	725°	FULL SEAM	JG
MAR. 17	1130	S-32/S-33	74°	2067	1624	750°	FULL SEAM	JG
MAR. 17	1135	S-31/S-32	74°	2036	1516	725°	FULL SEAM	JG
MAR. 17	1140	S-30/S-31	74°	2036	1516	725°	FULL SEAM	JG
MAR. 17	1138	S-31/S-33	74°	2067	1624	750°	FULL SEAM	JG
MAR. 17	1333	S-33/S-34	77°	2036	1516	700°	FULL SEAM	JG
MAR. 17	1445	S-34/S-36	79°	2036	1516	700°	FULL SEAM	JG
MAR. 17	1450	S-36/S-37	79°	2019	1624	725°	FULL SEAM	JG
MAR. 17	1535	S-37/S-38	80°	2036	1516	700°	FULL SEAM	JG
MAR. 17	1601	S-38/S-40	79°	2019	1624	725°	FULL SEAM	JG
MAR. 17	1442	S-35/S-36	79°	2019	1624	725°	FULL SEAM	JG
MAR. 17	1500	S-34/S-35	79°	2036	1516	700°	FULL SEAM	JG
MAR. 17	1505	S-35/S-37	79°	2019	1624	725°	FULL SEAM	JG
MAR. 17	1617	S-38/S-39	79°	2019	1624	725°	FULL SEAM	JG
MAR. 17	1550	S-39/S-40	79°	2019	1624	725°	FULL SEAM	JG
MAR. 17	1710	S-40/S-41	79°	2036	1516	700°	FULL SEAM	JG
MAR. 17	1713	S-39/S-41	78°	2019	1624	725°	FULL SEAM	JG
MAR. 18	0840	S-41/S-42	59°	2036	1516	725°	FULL SEAM	JG
MAR. 18	1000	S-42/S-43	63°	2067	1624	750°	FULL SEAM	JG
MAR. 18	1010	S-43/S-44	63°	2036	1516	725°	FULL SEAM	JG
MAR. 18	1102	S-45/S-46	66°	2036	1516	725°	FULL SEAM	JG
MAR. 18	1105	S-44/S-46	66°	2036	1516	725°	FULL SEAM	JG
MAR. 18	1113	S-44/S-45	67°	2036	1516	725°	FULL SEAM	JG
MAR. 18	1606	S-46/S-47	64°	2010	1516	725°	FULL SEAM	JG
MAR. 18	1612	S-47/S-48	64°	2019	1624	750°	FULL SEAM	JG
MAR. 18	1614	S-45/S-47	64°	2010	1516	725°	FULL SEAM	JG



GEOSYNTEC CONSULTANTS
Boynton Beach, Florida



Trail Ridge Landfill, Inc.

Seaming Log

(SECONDARY)

Sheet No. 84 of 15

Project: Trail Ridge Landfill

Phase: I & II

Project No.: FQ2030

Year: 1992

Location: Jacksonville, Florida

Contractor: National Seal Company

Date (mo/dy)	Time	Seam No.	Ambient Temp. (°F)	Oper. I.D.	Mach. No.	Setting Temp. (°F)	Length (ft)	Q.A. I.D.
MAR. 18	1705	S-48/S-49	63°	2010	1516	725°	140' TO END	JG
MAR. 18	1719	S-49/S-50	63°	2019	1624	750°	0' TO FULL SEAM	JG
MAR. 18	1728	S-48/S-50	63°	2019	1624	750°	0' TO 140'	JG
MAR. 18	1733	S-48/S-49	63°	2019	1624	750°	FULL SEAM	JG
3-20	13:40	S-1/S-51	68°	2019	1624	750°	FULL SEAM	J.K.
3-21	11:20	S-50/S-52	67°	2032	1637	750°	FULL SEAM	J.K.
3-21	11:27	S-49/S-52	68°	2032	1637	750°	FULL SEAM	J.K.
3-21	11:27	S-52/S-53	68°	2067	1674	750°	FULL SEAM	J.K.
3-21	13:20	S-53/S-55	68°	2032	1637	725°	FULL SEAM	J.K.
3-21	13:30	S-55/S-56	68°	2019	1624	750°	FULL SEAM	J.K.
3-21	13:26	S-54/S-55	68°	2019	1624	750°	FULL SEAM	J.K.
3-21	13:52	S-53/S-54	68°	2032	1637	725°	FULL SEAM	J.K.
3-21	14:12	S-54/S-56	68°	2019	1624	750°	FULL SEAM	J.K.
3-21	14:08	S-57/S-58	69°	2032	1637	725°	FULL SEAM	J.K.
3-21	14:14	S-56/S-58	69°	2032	1637	725°	FULL SEAM	J.K.
3-21	14:16	S-56/S-57	69°	2032	1637	725°	FULL SEAM	J.K.
3-21	14:35	S-58/S-59	70°	2019	1624	750°	FULL SEAM	J.K.
3-21	14:39	S-59/S-57	70°	2019	1624	750°	FULL SEAM	J.K.
3-21	15:10	S-59/S-60	71°	2032	1637	725°	FULL SEAM	J.K.
3-21	16:42	S-60/S-62	68°	2019	1624	750°	FULL SEAM	J.K.
3-21	16:47	S-61/S-62	68°	2032	1637	725°	FULL SEAM	J.K.
3-21	16:50	S-60/S-61	68°	2019	1624	750°	FULL SEAM	J.K.
3-21	17:00	S-62/S-63	68°	2032	1637	725°	FULL SEAM	J.K.
3-21	17:06	S-61/S-63	67°	2032	1637	725°	FULL SEAM	J.K.
3-21	17:22	S-63/S-64	66°	2019	1624	750°	FULL SEAM	J.K.
3-23	08:10	S-65/S-66	62°	2019	1624	750°	FULL SEAM	J.K.
3-25	10:03	S-66/S-67	62°	2067	1614	750°	FULL SEAM	J.K.
3-25	10:08	S-64/S-65	61°	2032	1637	750°	FULL SEAM	J.K.
3-25	10:15	S-65/S-66	60°	2067	1614	750°	FULL SEAM	J.K.
3-25	10:23	S-65/S-67	60°	2067	1614	750°	FULL SEAM	J.K.



GEOSYNTEC CONSULTANTS
Boynton Beach, Florida



Trail Ridge Landfill, Inc.

Seaming Log

(SECONDARY)

Sheet No. 45 of 15

Project: Trail Ridge Landfill

Phase: I & II.

Project No.: FQ2030

Year: 1992

Location: Jacksonville, Florida

Contractor: National Seal Company

Date (mo/dy)	Time	Seam No.	Ambient Temp. (°F)	Oper. I.D.	Mach. No.	Setting Temp. (°F)	Length (ft)	Q.A. I.D.
3-25	10:55	5-66/5-68	60°	*2067	*1614	750°	FULL SCAM	J.K.
3-25	10:58	5-68/5-69	60°	*2032	*1637	750°	FULL SCAM	J.K.
3-25	11:01	5-67/5-68	60°	*2067	*1614	750°	FULL SCAM	J.K.
3-29	08:50	5-69/5-70 ✓	60°	*2019	*1637	750°	"	J.K.
3-29	09:24	5-70/5-71	61°	*2065	*1624	750°	"	J.K.
3-29	09:34	5-72/5-73 ✓	61°	*2067	*1532	700°	"	J.K.
3-29	10:00	5-71/5-73 ✓	63°	*2019	*1637	750°	"	J.K.
3-29	09:50	5-74/5-75 ✓	62°	*2019	*1637	750°	"	J.K.
3-29	10:07	5-71/5-72 ✓	63°	*2019	*1637	750°	"	J.K.
3-29	10:09	5-75/5-76 ✓	63°	*2043	*1532	700°	"	J.K.
3-29	10:13	5-73/5-75 ✓	63°	*2065	*1624	750°	"	J.K.
3-29	10:20	5-72/5-75 ✓	63°	*2065	*1624	750°	"	J.K.
3-29	10:38	5-72/5-74 ✓	65°	*2065	*1624	750°	"	J.K.
3-29	10:46	5-74/5-76 ✓	65°	*2043	*1532	700°	"	J.K.
3-29	11:00	5-76/5-77 ✓	64°	*2066	*1637	750°	"	J.K.
3-29	10:58	5-78/5-79 ✓	64°	*2043	*1532	700°	"	J.K.
3-29	11:05	5-77/5-79 ✓	64°	*2065	*1624	750°	"	J.K.
3-29	11:34	5-77/5-78	64°	*2065	*1624	750°	"	J.K.
3-29	11:08	5-77/5-80 ✓	64°	*2043	*1532	700°	"	J.K.
3-29	11:46	5-78/5-80 ✓	64°	*2043	*1532	700°	"	J.K.
3-29	11:45	5-81/5-82 ✓	63°	*2066	*1637	750°	"	J.K.
3-29	12:00	5-80/5-82 ✓	64°	*2066	*1637	750°	"	J.K.
3-29	12:04	5-80/5-81 ✓	64°	*2066	*1637	750°	"	J.K.
3-29	13:03	5-82/5-83 ✓	65°	*2019	*1632	750°	"	J.K.
3-29	13:07	5-81/5-83 ✓	65°	*2019	*1632	750°	"	J.K.
3-29	13:50	5-83/5-84 ✓	66°	*2065 J.K.	*1624	750°	"	J.K.
3-29	14:03	5-85/5-86	66°	*2066	*1637	750°	"	J.K.
3-29	14:11	5-84/5-86	66°	*2019	*1637	750°	"	J.K.
3-29	14:16	5-84/5-85	66°	*2019	*1637	750°	"	J.K.
NO FURTHER ENTRIES THIS PAGE.								



GEOSYNTEC CONSULTANTS
Boynton Beach, Florida



Trail Ridge Landfill, Inc.

Seaming Log

SECONDARY

Sheet No. 6 of 15

Project: Trail Ridge Landfill

Phase: I & II

Project No.: FQ2030

Year: 1992

Location: Jacksonville, Florida

Contractor: National Seal Company

Date (mo/dy)	Time	Seam No.	Ambient Temp. (°F)	Oper. I.D.	Mach. No.	Setting Temp. (°F)	Length (ft)	Q.A. I.D.
3-29	14:25	S-86/S-87	66°	#2065	#1624	750°	FULL SEAM	J.K.
3-29	14:32	S-85/S-87	66°	#2065	#1624	750°	"	J.K.
3-29	15:00	S-87/S-88	65°	#2019	#1632	750°	"	J.K.
MAR 30	0722	S-88/S-89	56°	2066	1637	750	FULL SEAM	(B)
MAR 30	0819	S-89/S-90	56°	2065	1504	750	FULL SEAM	(B)
MAR 30	0831	S-88/S-90	56°	2066	1637	750	FULL SEAM	(B) *
MAR 30	0836	S-89/S-91	56°	2065	1504	750	FULL SEAM	(B) *
MAR 30	0847	S-90/S-91	56°	2065	1504	750	FULL SEAM	(B) *
MAR 30	0900	S-92/S-93	56°	2066	1637	750	FULL SEAM	(B)
MAR 30	0908	S-91/S-93	56°	2066	1637	750	FULL SEAM	(B)
MAR 30	0914	S-92/S-91	56°	2065	1504	750	0' TO 20'	(B)
MAR 30	0917	S-91/S-92	56°	2066	1637	750	20' TO END.	(B)
3-31	13:47	S-93/S-94	71°	2067	#1504	750°	FULL SEAM	J.K.
3-31	13:57	S-92/S-94	71°	#2067	#1504	750°	"	J.K.
3-31	14:00	S-94/S-95	71°	#2066	#1637	750°	"	J.K.
3-31	14:36	S-96/S-97	71°	#2067	#1504	750°	"	J.K.
3-31	14:53	S-95/S-97	71°	#2067	#1504	750°	"	J.K.
3-31	14:48	S-95/S-96	71°	#2067	#1504	750°	"	J.K.
3-31	14:58	S-97/S-98	71°	#2019	#1637	750°	"	J.K.
3-31	14:55	S-96/S-98	71°	#2019	#1637	750°	"	J.K.
3-31	15:40	S-100/S-101	73°	#2019	1637	750°	"	J.K.
3-31	15:42	S-98/S-99	73°	#2067	#1504	750°	"	J.K.
3-31	15:45	S-99/S-101	73°	#2066	#1637	750°	"	J.K.
3-31	16:01	S-99/S-100	73°	#2066	#1637	750°	"	J.K.
3-31	16:35	S-102/S-105	73°	#2067	#1504	750°	"	J.K.
3-31	16:39	S-101/S-105	73°	#2067	#1504	750°	"	J.K.
3-31	16:40	S-101/S-102	73°	#2067	#1504	750°	"	J.K.
3-31	16:39	S-103/S-105	73°	#2019	#1637	750°	"	J.K.
3-31	16:40	S-102/S-103	73°	#2019	#1637	750°	"	J.K.



GEOSYNTEC CONSULTANTS
Boynton Beach, Florida



Trail Ridge Landfill, Inc.

Seaming Log

SECONDARY

Sheet No. *67* of *15*

Project: *Trail Ridge Landfill*

Phase: *I & II*

Project No.: *FQ2030*

Year: *1992*

Location: *Jacksonville, Florida*

Contractor: *National Seal Company*

Date (mo/dy)	Time	Seam No.	Ambient Temp. (°F)	Oper. I.D.	Mach. No.	Setting Temp. (°F)	Length (ft)	Q.A. I.D.
3-31	16:54	S-102/S-100	74°	#2067	#1504	750°	Full Seam	J.K.
3-31	17:21	S-104/S-106	72°	#2066	#1637	750°	"	J.K.
3-31	17:31	S-103/S-106	71°	#2067	#1504	750°	"	J.K.
3-31	17:24	S-103/S-104	69°	#2066	#1637	750°	"	J.K.
4-2	09:55	S-106/S-107	56°	#2067	#1504	750°	"	J.K.
4-2	10:16	S-104/S-107	56°	#2067	#1504	750°	"	J.K.
4-2	10:09	S-107/S-108	56°	#2019	#1637	750°	"	J.K.
4-2	10:45	S-109/S-110	58°	#2067	#1504	750°	"	J.K.
4-2	10:56	S-108/S-110	58°	#2067	#1504	750°	"	J.K.
4-2	11:21	S-108/S-109	58°	#2067	#1504	750°	"	J.K.
4-2	11:25	S-110/S-111	59°	#2066	#1637	750°	"	J.K.
4-2	11:49	S-111/S-109	59°	#2066	#1637	750°	"	J.K.
4-2	13:17	S-111/S-112	63°	#2067	#1504	750°	"	J.K.
4-2	13:35	S-113/S-114	63°	#2019	#1637	750°	"	J.K.
4-2	13:44	S-112/S-114	63°	#2019	#1637	750°	"	J.K.
4-2	14:11	S-112/S-113	63°	#2019	#1637	750°	"	J.K.
4-2	14:20	S-114/S-115	65°	#2067	#1504	750°	"	J.K.
4-2	14:47	S-113/S-115	65°	#2067	#1504	750°	"	J.K.
4-2	14:36	S-115/S-116	65°	#2066	#1637	750°	"	J.K.
4-2	15:03	S-116/S-117	67°	#2066	#1637	750°	"	J.K.
4-2	16:08	S-115/S-118	67°	#2067	#1504	750°	"	J.K.
4-2	17:13	S-119/S-120	65°	#2067	#1504	750°	"	J.K.
4-2	17:16	S-120/S-121	64°	#2067	#1504	750°	"	J.K.
4-2	17:37	S-118/S-122	63°	#2067	#1504	750°	"	J.K.
4-2	18:00	S-122/S-123	62°	#2067	#1504	750°	"	J.K.
4-2	18:06	S-122/S-124	60°	#2067	#1504	750°	"	J.K.
4-2	18:23	S-124/S-125	60°	#2067	#1504	750°	"	J.K.
4-2	EST. 18:23	Leachate tie in Seam P. #117 + 18, 16, 15, 14, 13, 12, 11, 10, 9						J.K.
4-2	O.P. #	2037	MACH. #6-9	Temp. 26.5	Time	15:03	"	J.K.
-	-	-	-	-	-	-	-	-

End of
Check
3 APR



GEOSYNTEC CONSULTANTS
Boynton Beach, Florida



Trail Ridge Landfill, Inc.

Seaming Log

SECONDARY

Sheet No. 8 of 15

Project: Trail Ridge Landfill

Phase: I & II

Project No.: FQ2030

Year: 1992

Location: Jacksonville, Florida

Contractor: National Seal Company

Date (mo/dy)	Time	Seam No.	Ambient Temp. (°F)	Oper. I.D.	Mach. No.	Setting Temp. (°F)	Length (ft)	Q.A. I.D.
4-2		SUMP PERIMETER		Tie in Seam	P#119	120 & 121	Full Seam	J.K.
4-2	O.P.#	2068 MACH	6-15	TEMP 270	Time	17:47	-	J.K.
4-3	^{5th EAST} West	LEACHATE Tie in Seam		P#123 & 5	443	Full Seam	J.K.	J.K.
4-3	O.P.#	2068 MACH	6-15	TEMP 270	Time	08:14	-	J.K.
4-3	EAST	LEACHATE Tie in Seam		P#122 & 2, 1451		Full Seam	J.K.	J.K.
4-3	O.P.#	2068 MACH	6-15	TEMP 290	Time	09:17	-	J.K.
4-4	11:15	S-125/S-126	66°	#2032	#1614	750°	Full Seam	J.K.
4-4	11:24	S-126/S-127	66°	#2032	#1614	750°	"	J.K.
4-4	11:31	S-127/S-128	66°	#2032	#1614	750°	"	J.K.
4-4	11:18	PANELS #126, #127, #128 & #51		EXT. Seam		-	"	J.K.
4-4	-	-	66°	2010	G-#15	275/285°	-	J.K.
4-7	12:18	S-129/S-130	68°	#2066	#1637	750°	Full Seam	J.K.
4-7	1528	S-130/S-131	76°	#2066	#1637	750°	Full Seam	JS
4-7	1542	S-131/S-133	76°	#2043	#1516	700°	Full Seam	JS
4-7	1535	S-132/S-133	76°	2043	#1516	700°	Full Seam	JS
4-7	1559	S-131/S-132	76°	2043	#1516	700°	Full Seam	JS
4-7	1548	S-133/S-134	76°	2066	#1637	750°	Full Seam	JS
4-7	1615	S-132/S-134	76°	2019	#1637	750°	Full Seam	JS
4-7	1621	S-134/S-135	77°	2043	#1516	700°	"	BT
4-7	1632	S-135/S-136	77°	2019	#1637	750°	Full Seam	BT
4-7	1707	S-136/S-137	77°	2043	#1516	700°	Full Seam	BT
4-7	1710	S-136/S-137	77°	2066	#1637	750°	Full Seam	BT
		From S-20 down	75°					
APR 9	1130	S-137/S-138	75°	2067	#1504	750°	Full Seam	BT
APR 9	1131	S-138/S-139	75°	2075	#1532	725°	Full Seam	BT
APR 9	1134	S-140/S-141	84°	2057	#1532	725°	Full Seam	BT
APR 9	1341	S-139/S-141	83°	2065	#1504	750°	Full Seam	BT
APR 9	1347	S-139/S-140	83°	2065	#1504	750°	Full Seam	BT

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APR 9

S-140/S-142

84°

2057

#1632

750

Full Seam JK

1350

SEAMING.xls

0945 S-149/S-151

82°

2067

1504

750

Full Seam JK



GEOSYNTec CONSULTANTS

Boynton Beach, Florida



Trail Ridge Landfill, Inc.

Seaming Log

Secondary

Sheet No. 9 of 15

Project: Trail Ridge Landfill

Phase: I & II

Project No.: FQ2030

Year: 1992

Location: Jacksonville, Florida

Contractor: National Seal Company

Date (mo/dy)	Time	Seam No.	Ambient Temp. (°F)	Oper. I.D.	Mach. No.	Setting Temp. (°F)	Length (ft)	Q.A. I.D.
APR 9	1340	S-141/S-142	84°	# 2057	# 1532	725°	FULL SEAM	BT
APR 9	1326	S-143/S-142	84°	# 2067	# 1504	750°	FULL SEAM	BT
APR 9	1431	S-143/S-144	84°	# 2057	# 1532	725°	FULL SEAM	BT
APR 9	1504	S-145/S-146	82°	# 2067	# 1504	750°	FULL SEAM	BT
APR 9	1530	S-146/S-147	83°	# 2057	# 1532	725°	FULL SEAM	BT
APR 9	1553	S-147/S-148	82°	# 2067	# 1504	750°	FULL SEAM	BT
APR 9	1619	S-150/S-149	79°	# 2057	# 1532	725°	FULL SEAM	BT
APR 9	1632	S-148/S-149	79°	# 2057	# 1532	725°	FULL SEAM	BT
APR 9	1632	S-148/S-150	79°	# 2057	# 1532	725°	FULL SEAM	BT
APR 9	1632	S-150/S-151	79°	# 2067	# 1504	750°	FULL SEAM	BT
APR 9	1632	S-149/S-150	79°	# 2067	# 1504	750°	FULL SEAM	BT
APR 9	1525	S-145/S-147	79°	# 2057	# 1532	750°	FULL SEAM	BT
APR 10	0948	S-151/S-152	79°	# 2019	# 1637	750°	FULL SEAM	BT
APR 10	0950	S-152/S-153	79°	# 2067	# 1504	750°	" "	BT
APR 10	1025	S-154/S-155	79°	# 2066	# 1637	750°	" "	BT
APR 10	1027	S-153/S-155	79°	# 2065	# 1504	750°	" "	BT
APR 10	1048	S-153/S-154	81°	# 2065	# 1504	750°	" "	BT
APR 10	1405	S-156/S-155	86°	# 2067	# 1504	750°	" "	BT
APR 10	1410	S-156/S-157	86°	# 2066	# 1637	750°	FULL SEAM	BT
APR 10	1430	S-156/S-154	86°	# 2066	# 1637	750°	FULL SEAM	BT
APR 10	1513	S-158/S-159	89°	# 2019	# 1637	750°	FULL SEAM	BT
APR 10	1520	S-157/S-159	89°	# 2067	# 1532	750°	FULL SEAM	BT
APR 10	1518	S-159/S-160	89°	# 2019	# 1634	750°	FULL SEAM	BT
APR 10	1533	S-158/S-160	89°	# 2019	# 1634	750°	FULL SEAM	BT
APR 10	1558	S-160/S-161	89°	# 2067	# 1532	700°	FULL SEAM	BT
APR 10	1608	S-161/S-162	86°	# 2019	# 1637	750°	FULL SEAM	BT
APR 9	1445	S-144/S-145 + S-146	80°	# 2057	# 1532	725°	FULL SEAM	BT
APR 11	0915	S-163/S-164	72°	# 2060	# 1532	750°	FULL SEAM	BT
APR 11	0932	S-162/S-163	72°	# 2067	# 1504	750°	FULL SEAM	BT
APR 11	1005	S-164/S-166	77°	# 0225	# 1532	750°	FULL SEAM	BT

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APR 10 1420

S-157/S-158

86°

2019

1637

750°

FULL SEAM BT

NOTE



Seaming Log

Sheet No. 10 of 15

Project: *Trail Ridge Landfill*

Phase: I + II

Project No.: FQ2030

Year: 1992

Location: *Jacksonville, Florida*

Contractor: *National Seal Company*

Date (mo/dy)	Time	Seam No.	Ambient Temp. (°F)	Oper. I.D.	Mach. No.	Setting Temp. (°F)	Length (ft)	Q.A. I.D.
		Ext. Tie-in	Seam	Phase	I-A/I-B			
APR 10	1125	S-20/S-129 thru S-27/S-135	81°	* 2010	* 15	255°	FULL SEAM	BT
APR 10	1125	S-31/S-138 thru S-36/S-143	81°	* 2048	* 9	265°	FULL SEAM	BT
APR 10	1310	S-36/S-143 thru S-41/S-148	83°	* 2030	* 9	265°	FULL SEAM	BT
APR 10	1315	S-27/S-138 thru S-31/S-139	83°	* 2010	* 15	255°	FULL SEAM	BT
APR 10	1330	S-41/S-148 thru S-43/S-151	83°	* 2039	* 9	265°	FULL SEAM	BT
APR 11	0825	S-43/S-152 thru S-44/S-152	60°	* 2010	* 15	260°	FULL SEAM	BT
APR 11	1000	S-44/S-152 thru S-56/S-162	78°	* 2004	* 15	260°	FULL SEAM	BT
APR 11	1115	S-56/S-162 thru S-58/S-163	79°	* 2010	* 15	260°	FULL SEAM	BT
APR 11	1326	S-58/S-163 thru S-59/S-164	79°	* 2010	* 15	260°	FULL SEAM	BT
APR 11	1415	S-59/S-164 thru S-62/S-167	78°	* 2004	* 15	260°	FULL SEAM	BT
APR 13	0950	S-62/S-167 thru S-71/S-177	67°	* 2010	* 15	255°	FULL SEAM	BT
APR 13	1015	S-71/S-177 thru S-75/S-179	69°	* 2004	* 15	255°	FULL SEAM	BT
APR 13	0805	S-76/S-179 thru S-85/S-187	60°	* 2036	* 9	265°	FULL SEAM	BT
APR 15	1325	S-85/S-187 thru S-92/S-193	84°	* 2010	* 15	255°	FULL SEAM	BT
APR 15	1625	S-92/S-193 thru S-105/S-202	80°	* 2048	* 9	265°	FULL SEAM	BT
	No	More Entries This	Page					



GEOSYNTec CONSULTANTS

Boynton Beach, Florida



Trail Ridge Landfill, Inc.

Seaming Log *Secondary*

Sheet No. 11 of 15

Project: Trail Ridge Landfill

Phase: I + II

Project No.: FQ2030

Year: 1992

Location: Jacksonville, Florida

Contractor: National Seal Company

Date (mo/dy)	Time	Seam No.	Ambient Temp. (°F)	Oper. I.D.	Mach. No.	Setting Temp. (°F)	Length (ft)	Q.A. I.D.
APR 11	1003	S-166/S-167	77°	2019	1637	750°	FULL SEAM	BT
APR 11	1017	S-167/S-168	77°	2019 2065	1504	750°	FULL SEAM	RT
APR 11	1010	S-165/S-167	77°	2019	1637	750°	FULL SEAM	BT
APR 11	1005	S-165/S-166	77°	2060	1532	750°	FULL SEAM	RT
APR 11	1012	S-164/S-165	77°	0225	1532	750°	FULL SEAM	RT
APR 11	1035	S-168/S-169	77°	2043	1614	750°	FULL SEAM	BT
APR 11	1030	S-170/S-171	77°	2019	1637	750°	FULL SEAM	BT
APR 11	1040	S-169/S-171	77°	48 *12	1416	200°	FULL SEAM	RT
APR 11	1044	S-171/S-172	77°	FK-77	1306	750°	FULL SEAM	RT
APR 11	1055	S-172/S-173	77°	2066	1637	750°	FULL SEAM	BT
APR 11	1108	S-174/S-175	80°	2065	1504	750°	FULL SEAM	RT
APR 11	1116	S-175/S-173	80°	2067	1504	750°	FULL SEAM	RT
APR 11	1119	S-175/S-176	80°	2043	1614	725°	FULL SEAM	RT
APR 11	1125	S-176/S-177	80°	2019	1637	750°	FULL SEAM	RT
APR 11	1130	S-177/S-178	80°	FK-77	1306	725°	FULL SEAM	RT
APR 11	1145	S-178/S-180	80°	2065	1532	750°	FULL SEAM	BT
APR 11	1150	S-179/S-180	81°	2067	1504	750°	FULL SEAM	RT
APR 11	1355	S-180/S-181	87°	FK *77	1306	725°	FULL SEAM	RT
APR 11	1301	S-181/S-182	84°	2065	1504	750°	FULL SEAM	BT
APR 11	1405	S-182/S-184	84°	2025	1532	750°	FULL SEAM	BT
APR 11	1410	S-183/S-184	84°	2066	1637	750°	FULL SEAM	BT
APR 11	1416	S-184/S-185	84°	2066	1637	750°	FULL SEAM	BT
APR 11	1422	S-183/S-185	83°	2066	1637	750°	FULL SEAM	BT
APR 11	1419	S-182/S-183	83°	2025	1532	750°	FULL SEAM	BT
APR 11	1421	S-185/S-186	83°	2043	1624	725°	FULL SEAM	BT
APR 11	1430	S-186/S-187	81°	FK-77	1306	725°	FULL SEAM	BT
APR 11	1440	S-185/S-186	80°	2066	1637	750°	0-69'	BT
APR 11	1435	S-186/S-187	80°	2067	1504	750°	0-139'	BT
APR 14	1442	S-187/S-188	73°	2067	1504	725°	FULL SEAM	BT
APR 14	1500	S-188/S-189	73°	2066	1637	750°	FULL SEAM	BT



GEOSYNTEC CONSULTANTS
Boynton Beach, Florida



Trail Ridge Landfill, Inc.

Seaming Log (SECONDARY)

Sheet No. 12 of 15

Project: Trail Ridge Landfill

Phase: 18 142

Project No.: FQ2030

Year: 1992

Location: Jacksonville, Florida

Contractor: National Seal Company

Date (mo/dy)	Time	Seam No.	Ambient Temp. (°F)	Oper. I.D.	Mach. No.	Setting Temp. (°F)	Length (ft)	O.A. I.D.
APR 14	1522	S-189/190	73°	2065	1504	725	FULL SEAM	BT
APR 14	1624	S-190/S-191	73°	2019	1637	750	FULL SEAM	BT
APR 14	1639	S-191/S-192	73°	2067	1504	725	FULL SEAM	BT
APR 14	1657	S-194/S-195	73°	2066	1637	750	FULL SEAM	BT
APR 14	1713	S-192/S-193	73°	2066	1637	750	FULL SEAM	BT
APR 14	1716	S-193/S-195	73°	2065	1504	725	FULL SEAM	BT
APR 14	1726	S-192/S-194	73°	2065	1504	725	FULL SEAM	BT
APR 15	0836	S-195/S-196	58°	2019	1637	750	FULL SEAM	BT
APR 15	0848	S-194/S-196	59°	2019	1637	750	FULL SEAM	BT
APR 15	1307	S-196/S-197	83°	2067	1504	750	FULL SEAM	BT
APR 15	1316	S-197/S-198	84°	2043	1624	750	FULL SEAM	BT
APR 15	1320	S-198/S-199	84°	2066	1637	750	FULL SEAM	BT
APR 15	1345	S-199/S-201	84°	2067	1504	750	FULL SEAM	BT
APR 15	1348	S-200/S-201	84°	2043	1624	750	FULL SEAM	BT
APR 15	1357	S-199/S-200	84°	2067	1504	750	FULL SEAM	BT
APR 15	1358	S-201/S-202	84°	2019	1637	750	FULL SEAM	BT
APR 15	1400	S-202/S-205	84°	2043	1624	750	FULL SEAM	BT
APR 15	1415	S-200/S-202	84°	2019	1637	750	FULL SEAM	BT
APR 15	1420	S-204/S-205	84°	2067	1504	750	FULL SEAM	BT
APR 15	1425	S-203/S-205	84°	2067	1504	750	FULL SEAM	BT
APR 15	1430	S-203/S-204	84°	2067	1504	750	FULL SEAM	BT
APR 15	1440	S-205/S-206	83°	2043	1624	750	FULL SEAM	BT
APR 15	1445	S-204/S-206	83°	2043	1624	750	FULL SEAM	BT
APR 15	1450	S-206/S-207	83°	2066	1637	750	FULL SEAM	BT
APR 15	1335	S-85/S-187 TO S-92/S-192	84°	2010	G #15	255°	FULL SEAMS PHASE 1A/1B	BT
APR 15	1625	S-92/S-193 TO S-105/S-202	80°	2048	G #9	265°	TIE-IN FOR SECONDARY	BT
APR 11	2044-1839	S-169/S-170	80°	2047	1614	250°	FULL SEAM	BT
APR 11	1115	S-170/S-172	77°	WD #12	1416	200°	FULL SEAM	BT
APR 11	1120	S-173/S-174	77°	WD #12	1416	750°	"	BT
APR 11	1120	S-174/S-176	77°	FK #77	1306	750°	"	BT
APR 11	1130	S-178/179	80°	1637	2019	250°	"	BT
APR 11	1140	S-179/181	80°	1532	2065	750°	"	BT



GEOSYNTEC CONSULTANTS
Boynton Beach, Florida



Trail Ridge Landfill, Inc.

Seaming Log (SECONDARY)

Sheet No. 13 of 15

Project: Trail Ridge Landfill

Phase: I & II

Project No.: FQ2030

Year: 1992

Location: Jacksonville, Florida

Contractor: National Seal Company

Date (mo/dy)	Time	Seam No.	Ambient Temp. (°F)	Oper. I.D.	Mach. No.	Setting Temp. (°F)	Length (ft)	Q.A. I.D.
APRIL 16	1301							
APRIL 17	0856	S-207/S-208	63°	2067	1504	75°	FULL SEAM	
APRIL 17	0914	S-208/S-209	65°	2043	1624	75°	FULL SEAM	
APRIL 17	0925	S-209/S-210	67°	2019	1637	75°	FULL SEAM	
APRIL 17	0938	S-210/S-212	74°	2065	1504	75°	FULL SEAM	
APRIL 17	0955	S-211/S-212	75°	2043	1624	75°	FULL SEAM	
APRIL 17	1003	S-210/S-211	75°	2065	1504	75°	FULL SEAM	
APRIL 17	1006	S-212/S-213	75°	2043	1624	75°	FULL SEAM	
APRIL 17	1013	S-213/S-214	76°	2066	1637	75°	FULL SEAM	
APRIL 17	1018	S-215/S-216	76°	2065	1504	75°	FULL SEAM	
APRIL 17	1025	S-211/S-213	76°	2043	1624	75°	FULL SEAM	
APRIL 17	1025	S-214/S-216	76°	2067	1504	78°	FULL SEAM	
APRIL 17	1030	S-214/S-215	76°	2067	1504	75°	FULL SEAM	
APRIL 17	1356	S-216/S-217	82°	2067	1504	725	FULL SEAM	
APRIL 17	1405	S-215/S-217	82°	2067	1504	725	FULL SEAM	
APRIL 17	1410	S-217/S-218	82°	2043	1624	75°	FULL SEAM	
APRIL 17	1419	S-218/S-219	82°	2019	1637	75°	FULL SEAM	
APRIL 17	1439	S-219/S-221	82°	2067	1504	725	FULL SEAM	
APRIL 17	1445	S-221/S-222	81°	2043	1624	75°	FULL SEAM	
APRIL 17	1455	S-220/S-221	81°	2066	1637	75°	FULL SEAM	
APRIL 17	1503	S-219/S-220	81°	2067	1504	725	FULL SEAM	
APRIL 17	1505	S-220/S-222	81°	2043	1624	75°	FULL SEAM	
APR 18	0830	Tie-in seam Ext S-103/S-203 thru S-18/S-220	70°	2036	1489	260° C	FULL SEAM	BT
APR 24	1410	S-222/S-223	88°	2043	1624	75°	FULL SEAM	
APR 24	1416	S-223/S-224	88°	2067	1504	725	FULL SEAM	
APR 24	1430	S-224/S-225	88°	2057	1516	700	FULL SEAM	
APR 24	1502	S-226/S-227	88°	2057	1516	700	FULL SEAM	
APR 24	1455	S-225/S-227	88°	2067	1504	725	FULL SEAM	



GEOSYNTEC CONSULTANTS
Boynton Beach, Florida



Trail Ridge Landfill, Inc.

Seaming Log (SECONDARY)

Sheet No. 14 of 15

Project: Trail Ridge Landfill

Phase: I & II

Project No.: FQ2030

Year: 1992

Location: Jacksonville, Florida

Contractor: National Seal Company

Date (mo/dy)	Time	Seam No.	Ambient Temp. (°F)	Oper. I.D.	Mach. No.	Setting Temp. (°F)	Length (ft)	Q.A. I.D.
APR 24	1510	S-227/S-228	88°	2057	1516	700	FULL SEAM	
APR 24	1518	S-225/S-226	88°	2067	1504	725	FULL SEAM	
APR 24	1520	S-229/S-230	88°	2043	1624	750	FULL SEAM	
APR 24	1532	S-226/S-228	88°	2057	1516	700	FULL SEAM	
APR 24	1530	S-230/S-231	88°	2043	1624	750	FULL SEAM	
APR 24	1533	S-237/S-238	88°	2067	1504	725	FULL SEAM	
APR 24	1535	S-233/S-234	88°	2057	1516	700	FULL SEAM	
APR 24	1536	S-231/S-232	88°	2043	1624	750	FULL SEAM	
APR 24	1543	S-232/S-233	88°	2043	1624	750	FULL SEAM	
APR 24	1545	S-234/S-235	88°	2057	1516	700	FULL SEAM	
APR 24	1543	S-236/S-237	88°	2057 2067	1504	725	FULL SEAM	
APR 24	1550	S-240/S-241	88°	2043	1624	750	FULL SEAM	
APR 24	1550	S-235/S-236	88°	2057	1516	700	FULL SEAM	
APR 24	1553	S-238/S-239	88°	2067	1504	725	FULL SEAM	
APR 24	1604	S-239/S-240	88°	2057	1516	700	FULL SEAM	
APR 24	1610	S-241/S-242	88°	2043	1624	750	FULL SEAM	
APR 24	1610	S-242/S-243	88°	2067	1504	725	FULL SEAM	
APR 24	1620	S-244/S-245	88°	2057	1516	700	FULL SEAM	
APR 24	1620	S-243/S-244	88°	2043	1624	750	FULL SEAM	
APR 24	1627	S-247/S-248	88°	2067	1504	725	FULL SEAM	
APR 24	1630	S-245/S-246	88°	2043	1624	750	FULL SEAM	
APR 24	1638	S-249/S-250	88°	2067	1504	725	FULL SEAM	
APR 24	1643	S-248/S-250	88°	2067	1504	725	FULL SEAM	
APR 24	1645	S-246/S-247	88°	2043	1624	750	FULL SEAM	
APR 24	1646	S-248/S-249	88°	2067	1504	725	FULL SEAM	
APR 25	0734	S-228/S-249 THRU S-228/S-242 SECONDARY PNEUMATIC SEAM BUT SEAMS	70°	2037	G#9	275/285	FULL SEAMS	
APR 25	0745	S-228/S-241 THRU TO S-228/S-239	70°	2010	G#15	260/280	FULL SEAMS	
APR 25	0855	S-228/S-229 THRU TO S-228/S-238	72°	2010	G#15	260/280	FULL SEAMS	



Seaming Log (SECONDARY)

Sheet No. 15 of 15

Project: *Trail Ridge Landfill*

Phase: I & II

Project No.: FQ2030

Year: 1992

Location: *Jacksonville, Florida*

Contractor: *National Seal Company*

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Trail Ridge Landfill, Inc.

Seaming Log

PRIMARY
SECONDARY

Sheet No. 1 of 1515

Project: Trail Ridge Landfill

Phase: I & II

Project No.: FQ2030

Year: 1992

Location: Jacksonville, Florida

Contractor: National Seal Company

Date (mo/dy)	Time	Seam No.	Ambient Temp. (°F)	Oper. I.D.	Mach. No.	Setting Temp. (°F)	Length (ft)	Q.A. I.D.
MAR. 13	10:27	5-1/5-2	52°	2036	MX 1532	750°	0 to 120	TCB
"	10:33	5-2/5-3	52°	2067	M-1624	750°	0 to 130	TCB
"	10:52	5-4/5-5	53°	2067	M-1624	750°	0 to 94'	TCB
"	11:05	5-5/5-6	55°	2067	M-1624	750°	0 to 106'	TCB
"	11:20	5-3/5-4	55°	2067	M-1624	750°	0 to 137	TCB
"	15:34	5-6/5-7	59°	2067	M-1624	750°	0 to 115'	TCB
"	15:42	5-7/5-8	59°	2036	M-1516	725°	FULL SEAM	TCB
"	15:45	5-8/5-9	58°	2036	M-1516	725°	FULL SEAM	TCB
"	16:10	5-7/5-9	58°	2036	M-1516	725°	FULL SEAM	TCB
"	15:53	5-9/5-10	58°	2067	M-1624	750°	FULL SEAM	TCB
"	15:55	5-8/5-10	58°	2067	M-1624	750°	FULL SEAM	TCB
"	16:20	5-10/5-11	58°	2036	M-1516	725°	FULL SEAM	TCB
"	16:25	5-11/5-12	58°	2067	M-1624	750°	FULL SEAM	TCB
"	16:41	5-12/5-13	57°	2067	M-1624	750°	FULL SEAM	TCB
"	16:43	5-13/5-14	57°	2036	M-1516	725°	FULL SEAM	TCB
"	17:05	5-4/5-5	57°	2036	M-1516	725°	99' to END	TCB
"	17:13	5-5/5-6	57°	2036	M-1516	725°	106' to END	TCB
"	17:25	5-6/5-7	57°	2036	M-1516	725°	FULL SEAM	TCB
"	17:43	5-14/5-15	57°	2036	M-1516	725°	FULL SEAM	TCB
"	18:00	5-16/5-17	56°	2067	M-1624	750°	FULL SEAM	TCB
"	18:08	5-15/5-17	56°	2036	M-1516	725°	FULL SEAM	TCB
"	18:15	5-17/5-18	56°	2067	M-1624	750°	FULL SEAM	TCB
"	18:20	5-15/5-16	56°	2036	M-1516	725°	FULL SEAM	TCB
"	18:25	5-16/5-18	56°	2067	M-1624	750°	FULL SEAM	TCB
MAR. 14	1410	P-1/P-2	68°	2036	1516	725°	FULL SEAM	JG
MAR. 14	1412	P-2/P-3	68°	2067	1624	750°	FULL SEAM	JG
MAR. 14	1426	P-3/P-4	67°	2036	1516	725°	FULL SEAM	JG
MAR. 14	1432	P-4/P-5	67°	2067	1624	750°	FULL SEAM	JG
MAR. 14	1454	P-6/P-7	68°	2067	1624	750°	FULL SEAM	JG



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Boynton Beach, Florida



Trail Ridge Landfill, Inc.

Seaming Log	<u>PRIMARY</u> SECONDARY	Sheet No. <u>2</u> of <u>15/15</u>
Project:	<u>Trail Ridge Landfill</u>	Phase: <u>I & II</u>
Project No.:	<u>FQ2030</u>	Year: <u>1992</u>
Location:	<u>Jacksonville, Florida</u>	Contractor: <u>National Seal Company</u>

Date (mo/dy)	Time	Seam No.	Ambient Temp. (°F)	Oper. I.D.	Mach. No.	Setting Temp. (°F)	Length (ft)	Q.A. I.D.
MAR. 14	1457	P-5 / P-6	67°	2036	1516	725°	FULL SEAM	JG
MAR. 14	1500	P-6 / P-8	67°	2067	1624	750°	FULL SEAM	JG
MAR. 14	1505	P-5 / P-7	68°	2036	1516	725°	FULL SEAM	JG
MAR. 14	1509	P-7 / P-8	68°	2067	1624	750°	FULL SEAM	JG
MAR. 14	1515	P-8 / P-9	68°	2086	1516	725°	FULL SEAM	JG
MAR. 14	1520	P-9 / P-10	68°	2067	1624	750°	FULL SEAM	JG
MAR. 14	1538	P-10 / P-11	68°	2036	1516	725°	FULL SEAM	JG
MAR. 14	1555	P-11 / P-12	67°	2067	1624	750°	FULL SEAM	JG
MAR. 14	1600	P-12 / P-13	67°	2036	1516	725°	FULL SEAM	JG
MAR. 14	1601	P-14 / P-15	67°	2067	1624	750°	FULL SEAM	JG
MAR. 14	1608	P-13 / P-14	68°	2067	1624	750°	FULL SEAM	JG
MAR. 14	1615	P-13 / P-15	68°	2067	1624	750°	FULL SEAM	JG
MAR. 14	1620	P-14 / P-16	68°	2036	1516	725°	FULL SEAM	JG
MAR. 14	1631	P-16 / P-17	67°	2067	1624	750°	FULL SEAM	JG
MAR. 14	1644	P-17 / P-18	67°	2036	1516	725°	FULL SEAM	JG
MAR. 14	1632	P-15 / P-16	67°	2036	1516	725°	FULL SEAM	JG
MAR 16	1537	S-19 / S-20	63°	2019	1624	750	FULL SEAM	(B)
MAR 16	1546	S-20 / S-22	63°	2036	1516	725	FULL SEAM	(B)
MAR 16	1550	S-21 / S-22	63°	2019	1624	750	FULL SEAM	(B)
MAR 16	1608	S-19 / S-22	63°	2036	1516	725	FULL SEAM	(B)
MAR 16	1612	S-19 / S-21	63°	2036	1516	725	FULL SEAM	(B)
MAR 16	1625	S-22 / S-23	62°	2019	1624	750	FULL SEAM	(B)
MAR 16	1636	S-23 / S-24	62°	2036	1516	725	FULL SEAM	(B)
MAR 16	1646	S-21 / S-23	62°	2019	1624	750	FULL SEAM	(B)
MAR 16	1741	S-25 / S-26	60°	2036	1516	725	FULL SEAM	(B)
MAR 16	1741	S-24 / S-26	60°	2019	1624	750	FULL SEAM	(B)
MAR 16	1752	S-26 / S-27	60°	2036	1516	725	FULL SEAM	(B)
MAR 16	1803	S-25 / S-24	60°	2019	1624	750	FULL SEAM	(B)
MAR 16	1823	S-25 / S-27	58°	2036	1516	725	FULL SEAM	(B)



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Trail Ridge Landfill, Inc.

Seaming Log

Primary

Sheet No. 3 of 15

Project: Trail Ridge Landfill Phase: I & II

Project No.: FQ2030 Year: 1992

Location: Jacksonville, Florida Contractor: National Seal Company

Date (mo/dy)	Time	Seam No.	Ambient Temp. (°F)	Oper. I.D.	Mach. No.	Setting Temp. (°F)	Length (ft)	O.A. I.D.
3-26	14:21	P-20/P-21	73°	#2067	#1624	750°	FULL SEAM	J.K.
3-26	15:07	P-22/P-23	72°	#2019	#1614	750°	"	J.K.
3-26	15:09	P-21/P-23	72°	#2066	#1637	750°	"	J.K.
3-26	15:17	P-21/P-22	72°	#2066	#1637	750°	"	J.K.
3-26	15:20	P-23/P-24	72°	#2019	#1614	750°	"	J.K.
3-26	15:28	P-22/P-24	72°	#2019	#1614	750°	"	J.K.
3-26	15:42	P-24/P-25	72°	#2067	#1624	750°	"	J.K.
3-26	16:09	P-25/P-26	71°	#2066	#1637	750°	"	J.K.
3-26	16:38	P-26/P-28	70°	#2067	#1624	750°	"	J.K.
3-26	16:18	P-26/P-27	70°	#2019	#1614	750°	"	J.K.
3-26	16:34	P-27/P-28	70°	#2067	#1624	750°	"	J.K.
3-26	17:00	P-28/P-29	69°	#2067	#1624	750°	"	J.K.
3-26	17:06	P-27/P-29	69°	#2067	#1624	750°	"	J.K.
3-26	17:15	P-29/P-30	68°	#2019	#1614	750°	"	J.K.
3-28	07:25	P-30/P-31	47°	#2066	#1637	750°	"	J.K.
3-28	08:14	P-31/P-32	49°	#2066	#1637	750°	"	J.K.
3-28	08:31	P-32/P-34	49°	#2065	#1516	750°	"	J.K.
3-28	08:35	P-33/P-34	52°	#2019	#1532	750°	"	J.K.
3-28	08:41	P-32/P-33	54°	#2065	#1516	750°	"	J.K.
3-28	08:40	P-34/P-35	56°	#2019	#1532	750°	"	J.K.
3-28	08:50	P-33/P-35	60°	#2019	#1532	750°	"	J.K.
3-28	09:05	P-35/P-36	62°	#2066	#1637	750°	"	J.K.
3-28	09:43	P-36/P-38	62°	#2065	#1516	750°	"	J.K.
3-28	09:35	P-37/P-38	62°	#2065	#1516	750°	"	J.K.
3-28	09:57	P-36/P-37	63°	#2065	#1516	750°	"	J.K.
3-28	09:47	P-38/P-39	63°	#2019	#1532	750°	"	J.K.
3-28	10:01	P-37/P-39	63°	#2019	#1532	750°	"	J.K.
3-28	10:03	P-39/P-40	66°	#2066	#1637	750°	"	J.K.
3-28	10:32	P-40/P-42	66°	#2065	#1516	750°	"	J.K.
3-28	10:43	P-41/P-42	67°	#2066	#1637	750°	"	J.K.



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Boynton Beach, Florida



Trail Ridge Landfill, Inc.

Seaming Log

Primary

Sheet No. 4 of 15

Project: Trail Ridge Landfill

Phase: I & II

Project No.: FQ2030

Year: 1992

Location: Jacksonville, Florida

Contractor: National Seal Company

Date (mo/dy)	Time	Seam No.	Ambient Temp. (°F)	Oper. I.D.	Mach. No.	Setting Temp. (°F)	Length (ft)	Q.A. I.D.
3-28	10:57	P-40/P-41	67°	#2065	#1516	750°	FULL Seam	J.K.
3-28	10:50	P-42/P-43	67°	#2019	#1532	750°	"	J.K.
3-28	11:08	P-41/P-43	67°	#2019	#1532	750°	"	J.K.
3-28	11:00	P-43/P-44	68°	#2066	#1637	750°	"	J.K.
3-28	13:26	P-44/P-46	73°	#2065	#1516	750°	"	J.K.
3-28	13:30	P-46/P-47	73°	#2066	#1637	750°	"	J.K.
3-28	14:00	S-45/S-46	73°	#2065	#1516	750°	"	J.K.
3-28	14:02	S-45/S-47	73°	#2066	#1637	750°	"	J.K.
3-28	14:04	S-47/S-45	73°	#2065	#1516	750°	"	J.K.
3-28	14:09	S-48/S-49	73°	#2019	#1532	700°	"	J.K.
3-28	14:14	S-47/S-49	73°	#2019	#1532	700°	"	J.K.
3-28	14:16	S-47/S-48	73°	#2019	#1532	700°	"	J.K.
3-28	14:28	S-49/S-50	75°	#2066	#1637	750°	"	J.K.
3-28	14:30	S-48/S-50	75°	#2066	#1637	750°	"	J.K.
3-28	14:34	S-50/S-51	76°	#2065	#1516	750°	"	J.K.
3-28	15:10	S-52/S-53	78°	#2066	#1637	750°	"	J.K.
3-28	15:15	S-51/S-53	78°	#2019	#1532	700°	"	J.K.
3-28	15:25	S-53/S-54	77°	#2066	#1637	750°	"	J.K.
3-28	15:30	S-51/S-52	77°	#2019	#1532	700°	"	J.K.
3-28	15:45	S-52/S-54	76°	#2066	#1637	750°	"	J.K.
3-28	16:30	S-54/S-55	76°	#2066	#1637	750°	"	J.K.
4-3-92	13:53	P-50/P-56	65°	#2067	#1504	750°	"	J.K.
4-3	14:22	P-57/P-58	65°	#2019	#1637	750°	"	J.K.
4-3	14:39	P-56/P-58	66°	#2067	#1504	750°	"	J.K.
4-3	14:58	P-56/P-57	66°	#2067	#1504	750°	"	J.K.
4-3	14:29	P-58/P-59	66°	#2019	#1637	750°	"	J.K.
4-3	14:48	P-57/P-59	66°	#2019	#1637	750°	"	J.K.
4-3	14:37	P-59/P-60	66°	#2032	#1614	750°	"	J.K.
4-3	15:16	P-60/P-62	66°	#2019	#1637	750°	"	J.K.
4-3	15:30	P-61/P-62	65°	#2067	#1504	750°	"	J.K.



GEOSYNTEC CONSULTANTS
Boynton Beach, Florida



Trail Ridge Landfill, Inc.

Seaming Log

PRIMARY

Sheet No. 75 of 15

Project: Trail Ridge Landfill

Phase: I & II

Project No.: FQ2030

Year: 1992

Location: Jacksonville, Florida

Contractor: National Seal Company

Date (mo/dy)	Time	Seam No.	Ambient Temp. (°F)	Oper. I.D.	Mach. No.	Setting Temp. (°F)	Length (ft)	Q.A. I.D.
4-3-92	15:41	P-60/P-61	65°	*2019	#1637	750°	FULL SEAM	J.K.
4-3	15:22	P-62/P-63	65°	2037	*1614	750°	"	J.K.
4-3	15:44	P-61/P-63	65°	*2037	*1614	750°	"	J.K.
4-3	15:42	P-63/P-64	65°	*2067	*1504	750°	"	J.K.
4-3	16:15	P-64/P-66	65°	*2066	*1637	750°	"	J.K.
4-3	16:15	P-66/P-67	65°	*2032	*1614	750°	"	J.K.
4-3	16:00	P-65/P-66	65°	*2037	*1614	750°	"	J.K.
4-3	16:43	P-64/65	64°	*2066 *2032	*1614 *1637	750°	"	J.K.
4-3	16:45	P-65/P-67	64°	*2032	*1614	750°	"	J.K.
4-3	16:30	P-68/P-69	64°	*2067	*1504	750°	"	J.K.
4-3	16:38	P-67/P-69	64°	*2067	*1504	750°	"	J.K.
4-3	17:05	P-67/P-68	64°	*2067	*1504	750°	"	J.K.
4-3	16:53	P-69/P-70	63°	*2032	*1614	750°	"	J.K.
4-3	17:22	P-68/P-70	63°	*2032	*1614	750°	"	J.K.
4-3	17:02	P-70/P-71	63°	*2019	*1637	750°	"	J.K.
4-4	07:50	P-71/P-73	44°	*2019	*1637	750°	"	J.K.
4-4	07:58	P-72/P-73	44°	*2067	*1504	750°	"	J.K.
4-4	08:45	P-71/P-72	44°	*2019	*1637	750°	"	J.K.
4-4	07:50	P-73/P-74	45°	*2067	*1504	750°	"	J.K.
4-4	08:17	P-72/P-74	45°	*2067	*1504	750°	"	J.K.
4-4	07:55	P-74/P-75	46°	*2032	*1614	750°	"	J.K.
4-4	08:37	P-76/P-77	48°	*2067	*1504	750°	"	J.K.
4-4	08:39	P-75/P-76	48°	*2032	*1614	750°	"	J.K.
4-4	08:44	P-78/P-79	48°	*2019	*1637	750°	"	J.K.
4-4	08:54	P-77/P-79	48°	*2066	*1637	750°	"	J.K.
4-4	09:06	P-77/P-78	50°	2066	*1637	750°	"	J.K.
4-4	09:30	P-79/P-80	49°	*2032	*1614	750°	"	J.K.
4-4	09:36	P-78/P-80	50°	*2032	*1614	750°	"	J.K.
4-4	09:35	P-80/P-81	52°	*2067	*1504	750°	"	J.K.
4-4	09:40	P-82/P-83	56°	*2066	*1637	750°	"	J.K.



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Trail Ridge Landfill, Inc.

Seaming Log

PRIMARY

Sheet No. 6 of 15

Project: Trail Ridge Landfill Phase: I & II

Project No.: FQ2030 Year: 1992

Location: Jacksonville, Florida Contractor: National Seal Company

Date (mo/dy)	Time	Seam No.	Ambient Temp. (°F)	Oper. I.D.	Mach. No.	Setting Temp. (°F)	Length (ft)	O.A. I.D.
4-4-92	09:56	P-81/P-83	60°	#2066	#1637	750°	Full Seam	J.K.
4-4	10:11	P-81/P-82	62°	#2066	#1637	750°	"	J.K.
4-4	10:24	P-83/P-84	65°	#2032	#1614	750°	"	J.K.
4-4	10:44	P-84/P-85	65°	#2066	#1637	750°	"	J.K.
4-6	14:55	P-85/P-86	76°	#2043	#1532	700°	"	J.K.
4-6	14:56	P-86/P-87	76°	#2065	#1504	750°	"	J.K.
4-6	15:05	P-88/P-89	77°	#2066	#1637	750°	"	J.K.
4-6	15:11	P-87/P-89	77°	#2066	#1637	750°	"	J.K.
4-6	15:21	P-87/P-88	77°	#2066	#1637	750°	"	J.K.
4-6	15:47	P-89/P-90	77°	#2065	#1504	750°	"	J.K.
4-6	15:56	P-88/P-90	77°	#2065	#1504	750°	"	J.K.
4-6	15:56	P-90/P-91	77°	#2043	#1532	700°	"	J.K.
4-6	16:10	P-92/P-93	77°	#2066	#1637	750°	"	J.K.
4-6	16:15	P-91/P-93	76°	#2066	#1637	750°	"	J.K.
4-6	16:31	P-91/P-92	75°	#2066	#1637	750°	"	J.K.
4-6	16:37	P-93/P-94	75°	#2067	#1504	750°	"	J.K.
4-6	17:05	P-94/P-95	74°	#2043	#1532	700°	"	J.K.
4-6	17:07	P-95/P-97	74°	#2066	#1637	750°	"	J.K.
4-6	17:00	P-96/P-97	74°	#2066	#1637	750°	"	J.K.
4-6	17:28	P-95/P-96	73°	#2066	#1637	750°	"	J.K.
4-7	07:48	P-97/P-98	60°	#2067	#1504	750°	"	J.K.
4-7	07:58	P-98/P-99	60°	#2066	#1637	750°	"	J.K.
4-7	08:35	P-100/P-101	61°	#2067	#1504	750°	"	J.K.
4-7	08:47	P-99/P-101	62°	#2067	#1504	750°	"	J.K.
4-7	08:55	P-99/P-100	62°	#2067	#1504	750°	"	J.K.
4-7	08:38	P-101/P-102	62°	#2066	#1637	750°	"	J.K.
4-7	09:10	P-100/P-102	64°	#2066	#1637	750°	"	J.K.
4-7	09:18	P-103/P-104	65°	#2066	#1637	750°	"	J.K.
4-7	09:40	P-102/P-104	65°	#2067	#1504	750°	"	J.K.
4-7	09:45	P-102/P-103	65°	#2067	#1504	750°	"	J.K.



GEOSYNTEC CONSULTANTS
Boynton Beach, Florida



Trail Ridge Landfill, Inc.

Seaming Log

Primary

Sheet No. 7 of 15

Project: Trail Ridge Landfill

Phase: I & II

Project No.: FQ2030

Year: 1992

Location: Jacksonville, Florida

Contractor: National Seal Company

Date (mo/dy)	Time	Seam No.	Ambient Temp. (°F)	Oper. I.D.	Mach. No.	Setting Temp. (°F)	Length (ft)	Q.A. I.D.
4-7-92	09:37	P-104/P-105	65°	#2066	#1637	750°	FULL SEAM	J.K.
4-7	09:42	P-103/P-105	67°	#2066	#1637	750°	"	J.K.
4-7	10:13	P-105/P-106	69°	#2066	#1637	750°	"	J.K.
4-7	10:35	P-107/P-108	70°	#2067	#1504	750°	"	J.K.
4-7	10:40	P-106/P-108	71°	#2067	#1504	750°	"	J.K.
4-7	10:47	P-106/P-107	71°	#2067	#1504	750°	"	J.K.
4-7	11:38	P-108/P-109	72°	#2067	#1504	750°	"	J.K.
4-7	11:43	P-107/P-109	72°	#2067	#1504	750°	"	J.K.
4-7	14:45	P-109/P-110	77°	#2067	#1504	750°	"	J.K.
4-7	15:33	P-110/P-111	78°	#2067	#1504	750°	"	J.K.
4-7	15:48	P-111/P-112	78°	#2067	#1504	750°	"	J.K.
4-6	1100	P-82/P-84	77°	#2032	#1614	750°	"	BT
4-8	0750	P-113/P-114	60°	#2067	#1504	750°	7' to S. end	BT
4-8	0815	P-114/P-115	61°	#2019/2066	#1637	750°	FULL SEAM	BT
4-8	0815	P-115/P-116	61°	#2065/2067	#1504	750°	FULL SEAM	BT
4-8	0837	P-117/P-118	61°	#2067/2065	#1504	750°	FULL SEAM	BT
4-8	0835	P-116/P-117	61°	#2019/2060	#1637	750°	FULL SEAM	BT
4-8	0848	P-118/P-119	61°	#2065	#1504	750°	FULL SEAM	BT
4-8	0911	P-110/P-113	61°	#2019/2067	#1637	750°	FULL SEAM	BT
4-8	0945	P-114/P-120	64°	#2065/2067	#1504	750°	FULL SEAM	BT
4-8	1045	P-120/P-4	62°	2004	#18	260°	FULL SEAM	BT
4-8	1105	P-120/P-3	62°	2004	#18	260°	FULL SEAM	BT
4-8	1130	P-120/P-2	62°	2004	#18	260°	FULL SEAM	BT
4-8	1150	P-120/P-121	62°	2004	#18	260°	FULL SEAM	BT
4-8	1050	P-121/P-2	62°	2004 2043	#15	260°	FULL SEAM	BT
4-8	1059	P-121/P-2	62°	2004 2043	#15	260°	FULL SEAM	BT
4-8	1120	P-114/P-119	62°	2004 2043	#15	260°	"	BT
4-8	1145	P-115/P-119	62°	2004 2043	#15	260°	W. side of P-115 to 5' E. into P-115	BT
4-8	1320	P-119/P-19	67°	2043	#15	260°	Full Seam	BT
4-8	1332	P-118/P-19	67°	2043	#15	260°	"	BT

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4/8 1000 P-123/P-122 60° #2067 #1504 750° FULL SEAM BT
4/8 1005 P-123/P-124 60° #2019 #1637 750° FULL SEAM BT



GEOSYNTEC CONSULTANTS
Boynton Beach, Florida



Trail Ridge Landfill, Inc.

Seaming Log

Primary

Sheet No. ~~10~~ 8 of 15

Project: Trail Ridge Landfill

Phase: I + II

Project No.: FQ2030

Year: 1992

Location: Jacksonville, Florida

Contractor: National Seal Company

Date (mo/dy)	Time	Seam No.	Ambient Temp. (°F)	Oper. I.D.	Mach. No.	Setting Temp. (°F)	Length (ft)	Q.A. I.D.
APR 8	1342	P-117 / P-119 (BT)	67°	* 2043	# 15	260°	Full SEAM	B.T.
APR 8	1157	P-121 / P-114	67°	* 2043	# 15	260°	FULL SEAM	BT
APR 8	1310	Primary Sump Perimeter Seam	67°	* 2019	# 18	270°	FULL SEAM	BT
APR 8	1030	Leachate Containment W. Tie-In Seam	61°	* 2037	# 15	270°	FULL SEAM	BT
APR 8	2700	Secondary Sump Boat Skirt	79°	* 2066	# 18	270°	FULL SEAM	BT
APR 7	0730	P-96 / P-98	80°	* 2067	# 1504	758°	FULL SEAM	BT
APR 9	0833	P-125 / P-126 3 rd layer	62°	* 2019	# 1637	750°	FULL SEAM	BT
APR 9	0840	P-126 / P-127 3 rd layer	62°	* 2019	# 1637	750°	FULL SEAM	BT
APR 9	0850	P-125 / P-128 3 rd layer	62°	* 2019	# 1637	750°	FULL SEAM	BT
APR 9	0955	3 rd layer to Primary Sump Perimeter Seam	64°	* 2004	# 15	750°	FULL SEAM	BT
APR 9	1330	P-117 / P-119 P-19	82°	* 2066	# 9	260°	FULL SEAM	BT
APR 9	1350	P-116 / P-19	82°	* 2066	# 9	260°	FULL SEAM	BT
APR 9	1400	P-115 / P-19	80°	* 2066	# 9	260°	FULL SEAM	BT
APR 16	0815	P-129 / P-131 P-131 / P-132	61°	2067	1504	750	FULL SEAM	BT
APR 16	0830	P-131 / P-132	63°	2004	1624	750	FULL SEAM	BT
APR 16	0830	P-132 / P-133	63°	2019	1637	750	FULL SEAM	BT
APR 16	0822	P-130 / P-131	62°	2066	1637	750	FULL SEAM	BT
APR 16	0829	P-129 / P-130	63°	2067	1504	750	FULL SEAM	BT
APR 16	0905	P-130 / P-132	69°	2004	1624	750	FULL SEAM	BT
APR 16	0900	P-133 / P-135	69°	2067	1504	750	FULL SEAM	BT
APR 16	0855	P-134 / P-135	69°	2067	1504	750	FULL SEAM	BT
APR 16	0910	P-135 / P-136	69°	2019	1637	750	FULL SEAM	BT
APR 16	0906	P-133 / P-134	69°	2067	1504	750	FULL SEAM	BT
APR 16	0916	P-134 / P-136	69°	2019	1637	750	FULL SEAM	BT
APR 16	0930	P-136 / P-137	70°	2066	1624	750	FULL SEAM	BT
APR 16	0940	P-137 / P-138	71°	2067	1504	750	FULL SEAM	BT
APR 16	0950	P-138 / P-140	72°	2019	1637	750	FULL SEAM	BT
APR 16	1010	P-140 / P-141	76°	2066	1624	750	FULL SEAM	BT
APR 16	0944	P-139 / P-140	75°	2019	1637	750	FULL SEAM	BT



GEOSYNTEC CONSULTANTS
Boynton Beach, Florida



Trail Ridge Landfill, Inc.

Seaming Log (PRIMARY)

Sheet No. 49 of 15

Project: Trail Ridge Landfill

Phase: I & II

Project No.: FQ2030

Year: 1992

Location: Jacksonville, Florida

Contractor: National Seal Company

Date (mo/dy)	Time	Seam No.	Ambient Temp. (°F)	Oper. I.D.	Mach. No.	Setting Temp. (°F)	Length (ft)	Q.A. I.D.	
APR 16	1017	P-138/P-139	76	2019	1637	750	FULL SEAM	AB	
APR 16	1026	P-139/P-141	76°	2066	1624	750	FULL SEAM	AB	
APR 16	1015	P-141/P-142	76°	2067	1504	750	FULL SEAM	AB	
APR 16	1032	P-143/P-144	76°	2019	1637	750	FULL SEAM	AB	
APR 16	1040	P-142/P-144	76°	2019	1637	750	FULL SEAM	AB	
APR 16	1046	P-142/P-143	76°	2019	1637	750	FULL SEAM	AB	
APR 16	1049	P-144/P-145	76°	2066	1624	750	FULL SEAM	AB	
APR 16	1053	P-143/P-145	76	2066	1624	750	FULL SEAM	AB	
APR 16	1100	P-145/P-146	76	2067	1504	750	FULL SEAM	AB	
APR 16	1120	P-146/P-147	76°	2019	1637	750	FULL SEAM	AB	
APR 16	1127	P-147/P-149	77°	2066	1624	750	FULL SEAM	AB	
APR 16	1132	P-148/P-149	77°	2067	1504	750	FULL SEAM	AB	
APR 16	1145	P-147/P-148	77°	2066	1624	750	FULL SEAM	AB	
APR 16	1324	P-149/P-150	79°	2019	1637	750	252' - END FULL SEAM	AB	
APR 16	1332	P-150/P-151	79°	2066	1624	750	FULL SEAM	AB	
APR 16	1333	P-152/P-153	79°	2067	1504	725	FULL SEAM	AB	
APR 16	1338	P-151/P-153	79°	2067	1504	725	FULL SEAM	AB	
APR 16	1347	P-151/P-152	79°	2067	1504	725	FULL SEAM	AB	
APR 16	1413	P-149/P-150	79°	2066	1624	750	0 - 252'	AB	
APR 17	0840	PHASE II TO PRIMARY TIE-IN. P-55/ P-129 TO R30/P-152		63	2036	689	280/250	FULL SEAM	AB
APR 18	0801	P-155/P-156	61°	2067	1504	750	FULL SEAM	AB	
APR 18	0808	P-154/P-156	61°	2067	1504	750	FULL SEAM	AB	
APR 18	0813	P-154/P-155	61°	2067	1504	750	FULL SEAM	AB	
APR 18	0827	P-156/P-157	62°	2043	1624	750	FULL SEAM	AB	
APR 18	0830	P-155/P-157	62°	2043	1624	750	FULL SEAM	AB	
APR 18	0854	P-157/P-168	65	2065	1504	750	FULL SEAM	AB	
APR 18	0855	P-153/P-154	66	2019	1637	750	FULL SEAM	AB	



GEOSYNTEC CONSULTANTS
Boynton Beach, Florida



Trail Ridge Landfill, Inc.

Seaming Log (PRIMARY)

Sheet No. 10 of 15

Project: Trail Ridge Landfill

Phase: I + II

Project No.: FQ2030

Year: 1992

Location: Jacksonville, Florida

Contractor: National Seal Company

Date (mo/dy)	Time	Seam No.	Ambient Temp. (°F)	Oper. I.D.	Mach. No.	Setting Temp. (°F)	Length (ft)	Q.A. I.D.
APR 18	0802	P-152/P-154	67°	2019	1637	750	FULL SEAM	
APR 18	0906	P-158/P-159	68°	2043	1624	750	FULL SEAM	
APR 18	0938	P-159/P-161	69°	2067	1504	750	FULL SEAM	
APR 18	0946	P-162/P-163	69°	2066	1637	750	FULL SEAM	
APR 18	0946	P-160/P-161	69°	2043	1624	750	FULL SEAM	
APR 18	0955	P-161/P-162	70	2043	1624	750	FULL SEAM	
APR 18	1006	P-159/P-160	70°	2067	1504	750	FULL SEAM	
APR 18	1008	P-160/P-162	71	2043	1624	750	FULL SEAM	
APR 18	1027	P-164/P-165	72°	2019	1637	750	FULL SEAM	
APR 18	1037	P-166/P-167	73°	2037	1516	750	FULL SEAM	
APR 18	1038	P-163/P-165	73°	2019	1637	750	FULL SEAM	
APR 18	1041	P-163/P-164	74	2019	1637	750	FULL SEAM	
APR 18	1043	P-165/P-166	75	2067	1504	750	FULL SEAM	
APR 18	1045	P-164/P-166	75°	2067	1504	750	FULL SEAM	
APR 18	1045	P-167/P-168	76°	2043	1624	750	FULL SEAM	
APR 18	1100	P-169/P-170	77°	2037	1516	750	FULL SEAM	
APR 18	1110	P-168/P-170	79°	2037	1516	750	FULL SEAM	
APR 18	1121	P-168/P-169	79°	2037	1516	750	FULL SEAM	
APR 18	1127	P-170/P-171	79°	2066	1637	750	FULL SEAM	
APR 18	1128	P-171/P-172	79°	2043	1624	750	FULL SEAM	
APR 18	1144	P-169/P-171	79°	2066	1637	750	FULL SEAM	
APR 18	1310	P-173/P-174	83°	2036	1516	750	FULL SEAM	
APR 18	1315	P-172/P-174	83°	2036	1516	750	FULL SEAM	
APR 18	1327	P-175/P-176	83°	2065	1504	725	FULL SEAM	
APR 18	1338	P-174/P-175	84°	2019	1637	750	FULL SEAM	
APR 18	1340	P-173/P-175	84°	2019	1637	750	FULL SEAM	
APR 18	1342	P-176/P-177	84°	2042	1624	750	FULL SEAM	
APR 18	1345	P-178/P-179	84°	2036	1516	750	FULL SEAM	
APR 18	1350	P-177/P-179	84°	2036	1516	750	FULL SEAM	
APR 18	1404	P-177/P-178	84°	2036	1516	750	FULL SEAM	



GEOSYNTEC CONSULTANTS
Boynton Beach, Florida



Trail Ridge Landfill, Inc.

Seaming Log

(PRIMARY)

Sheet No. ~~14~~ 15 of 15

Project: Trail Ridge Landfill

Phase: 1st / 1B

Project No.: FQ2030

Year: 1992

Location: Jacksonville, Florida

Contractor: National Seal Company

Date (mo/dy)	Time	Seam No.	Ambient Temp. (°F)	Oper. I.D.	Mach. No.	Setting Temp. (°F)	Length (ft)	Q.A. I.D.
APR 18	1404	P-179/P-180	84°	2067	1504	750	FULL SEAM	TR
APR 18	1423	P-181/P-182	84°	2031	1516	750	FULL SEAM	TR
APR 18	1427	P-178/P-180	84°	2067	1504	750	FULL SEAM	TR
APR 18	1427	P-180/P-181	84°	2066	1637	750	FULL SEAM	TR
APR 18	1430	P-182/P-183	84°	2043	1624	750	FULL SEAM	TR
APR 18	1500	P-184/P-185	84°	2036	1516	750	FULL SEAM	TR
APR 18	1507	P-183/P-184	84°	2065	1504	750	FULL SEAM	TR
APR 20	0914	P-30/P-164 TO P-66/P-173 PHASE 1A/1B TIE- IN (PRIMARY)	73°	2037/2048	G #15	275/285	FULL SEAMS	TR
APR 20	1400	P-66/P-175 THROUGH TO P-77/P-185 PHASE 1A/1B TIE- IN (PRIMARY)	83°	2048	G #15	260/285	FULL SEAMS	TR
APR 22	0813	P186/P187	75°	2067	1504	750	FULL SEAM	TR
APR 22	0825	P187/P188	75°	2043	1624	750	FULL SEAM	TR
APR 22	0830	P189/P190	75°	2019	1637	750	FULL SEAM	TR
APR 22	0840	P188/P190	75°	2019	1637	750	FULL SEAM	TR
APR 22	0850	P188/P189	75°	2019	1637	750	FULL SEAM	TR
APR 22	0852	P190/P191	75°	2037	1504	750	FULL SEAM	TR
APR 22	0900	P191/P192	76°	2043	1624	750	FULL SEAM	TR
APR 22	0915	P192/P193	77°	2010	1516	750	FULL SEAM	TR
APR 22	0930	P193/P194	78°	2066	1637	750	FULL SEAM	TR
APR 22	0935	P194/P195	78°	2067	1504	750	FULL SEAM	TR
APR 22	0940	P195/P196	78°	2043	1624	750	FULL SEAM	TR
APR 22	0940	P196/P196-18		2043	1624			TR
APR 22	0940	P196/P198	78°	2010	1516	750	FULL SEAM	TR
APR 22	0955	P197/P198	78°	2010	1516	750	FULL SEAM	TR
APR 22	1005	P196/P197	78°	2010	1516	750	FULL SEAM	TR
APR 22	1010	P198/P199	78°	2019	1637	750	FULL SEAM	TR
APR 22	1030	P185/P186	80°	2043	1624	750	FULL SEAM	TR



GEOSYNTec CONSULTANTS
Boynton Beach, Florida



Trail Ridge Landfill, Inc.

Seaming Log

Primary

Sheet No. *12* of *15*

Project: *Trail Ridge Landfill*

Phase: *1B*

Project No.: *FQ2030*

Year: *1992*

Location: *Jacksonville, Florida*

Contractor: *National Seal Company*

Date (mo/dy)	Time	Seam No.	Ambient Temp. (°F)	Oper. I.D.	Mach. No.	Setting Temp. (°F)	Length (ft)	Q.A. I.D.
APR 22	1025	P197/199	80°	2019	1637	750	FULL SEAM	✓
APR 22	1030	P199/200	80°	2037	1504	750	FULL SEAM	✓
APR 22	1034	P200/201	80°	2010	1516	750	FULL SEAM	✓
APR 22	1055	P202/203	80°	2066	1637	750	FULL SEAM	✓
APR 22	1110	P201/203	83	2066	1637	750	FULL SEAM	✓
APR 22	1110	P203/204	83	2010	1516	750	FULL SEAM	✓
APR 22	1112	P204/205	83	2043	1624	750	FULL SEAM	✓
APR 22	1120	P201/202	83	2066	1637	750	FULL SEAM	✓
APR 22	1115	P202/204	83	2010	1516	750	FULL SEAM	✓
APR 22	1505	P205/206	85°	2010	1516	700	FULL SEAM	✓
APR 22	1550	P207/208	85°	2010	1516	700	FULL SEAM	✓
APR 22	1517	P206/208	85°	2019	1637	725	FULL SEAM	✓
APR 22	1545	P206/207	85°	2019	1637	725	FULL SEAM	✓
APR 22	1545	P208/209	85°	2010	1516	700	FULL SEAM	✓
APR 22	1600	P207/209	85°	2010	1516	700	FULL SEAM	✓
APR 22	1551	P209/210	85°	2019	1637	725	FULL SEAM	✓
APR 22	1620	P211/212	87°	2010	1516	700	FULL SEAM	✓
APR 22	1625	P210/212	87°	2010	1516	700	FULL SEAM	✓
APR 22	1630	P210/211	87°	2010	1516	700	FULL SEAM	✓
APR 22	1630	P212/213	87°	2019	1637	725	FULL SEAM	✓
APR 22	1643	P211/213	87°	2019	1637	725	FULL SEAM	✓
		P207/208	87°	EXT:	RECONSTRUCTED		FULL SEAM	✓
		P202/203	87°	EXT:	RECONSTRUCTED		FULL SEAM	✓
APR 23	0835	P-213/P-214	65°	2065	1504	750°	FULL SEAM	BT
APR 23	0830	P-214/P-215	65°	2057	1516	700°	FULL SEAM	BT
APR 23	0845	P-216/P-217	65°	2065	1504	750°	FULL SEAM	BT
APR 23	0855	P-215/P-217	65°	2065	1504	750°	"	BT
APR 23	0905	P-217/P-218	66°	2057	1516	700°	"	BT



GEOSYNTEC CONSULTANTS

Boynton Beach, Florida



Trail Ridge Landfill, Inc.

Seaming Log (PRIMARY)

Sheet No. 13 of 15

Project: Trail Ridge Landfill

Phase: I + II

Project No.: FQ2030

Year: 1992

Location: Jacksonville, Florida

Contractor: National Seal Company

Date (mo/dy)	Time	Seam No.	Ambient Temp. (°F)	Oper. I.D.	Mach. No.	Setting Temp. (°F)	Length (ft)	Q.A. I.D.
4/23	0925	P-215/P-216	68°	2065	1504	750°	FULL SEAM	BT
4/23	0935	P-216/P-218	69°	2057	1615 1516	700°	FULL SEAM	BT
4/23	0940	P-218/P-219	74°	2065	1504	750°	FULL SEAM	BT
4/23	0955	P-219/P-220	76°	2057	1516	700°	" "	BT
4/23	0955	P-219/P-221	76°	2057	1516	700°	" "	BT
4/23	1130	P-220/P-221 Ext.	80°	2010	G-15	255/275	FULL SEAM	BT
4/23	0908	Tie in Phase 22/ P-21/P-185 thru P-89/P-194	69°	2048	G-9	275/285	FULL SEAM	BT
4/23	1340	PRIMARY TIE-IN PHASE 1A/1B P-89/P-195 THROUGH P-111/P-215	88°	2037	G-9	275/285	FULL SEAM	BT
4/24	0752	PRIMARY TIE-IN PHASE 1A/1B P-111/P-216 THROUGH TO P-18/P-220	67°	2037	G-15	275/285	FULL SEAM	BT
4/27	1450	P221/222	70°	2043	1624	750°	FULL SEAM	JR
4/27	1525	P 223 /224	70°	2057	1516	700°	FULL SEAM	JR
4/27	1530	P 223 /223	70°	2067	1504	735°	FULL SEAM	JR
4/27	1545	P224/226	70°	2043	1624	750°	FULL SEAM	JR
4/27	1615	P224/225	70°	2043	1624	750°	FULL SEAM	JR
4/27	1610	P 225 /226	70°	2043	1624	750°	FULL SEAM	JR
4/27	1600	P226/227	70°	2057	1516	700°	FULL SEAM	JR
4/27	1615	P225/227	70°	2057	1516	735°	FULL SEAM	JR
4/27	1630	P227/228	70°	2067	1504	735°	FULL SEAM	JR
4/27	1647	P228/229	70°	2057	1516	700°	FULL SEAM	JR
4/27	1650	P229/230	70°	2043	1624	750°	FULL SEAM	JR
4/27	1720	P 231 /232	68°	2067	1504	735°	FULL SEAM	JR
4/27	1730	P 233 /234	68°	2057	1516	700°	FULL SEAM	JR
4/27	1740	P235/236	68°	2057	1516	700°	FULL SEAM	JR
4/27	1740	P 234 /235	68°	2067	1504	735°	FULL SEAM	JR
4/27	1750	P236/237	66°	20	1504	735°	FULL SEAM	JR

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SUMP
HOLES
PANELS
JR



GEOSYNTec CONSULTANTS
Boynton Beach, Florida



Trail Ridge Landfill, Inc.

Seaming Log

PRIMARY

Sheet No. 14 of 15

Project: Trail Ridge Landfill

Phase: I & II

Project No.: FQ2030

Year: 1992

Location: Jacksonville, Florida

Contractor: National Seal Company

Date (mo/dy)	Time	Seam No.	Ambient Temp. (°F)	Oper. I.D.	Mach. No.	Setting Temp. (°F)	Length (ft)	Q.A. I.D.
04/27	1755	P 237/238	66°	2057	1516	700°	FULL SEAM	JR
04/27	1815	P 230/P 238-231	66°	2057	1516	700°	FULL TIE-IN EAST	JR
4/28	0742	P 239/240	48°	2067	1504	750°	FULL SEAM	JR
4/28	0750	P 240/241	48°	2067	1504	750°	FULL SEAM	JR
4/28	0800	P 244/245	48°	2043	1516	750°	FULL SEAM	JR
4/28	0800	P 241/242	48°	2067	1504	750°	FULL SEAM	JR
4/28	0805	P 243/245	50°	2043	1516	750°	FULL SEAM	JR
4/28	0808	P 243/244	50°	2043	1516	750°	FULL SEAM	JR
4/28	0815	P 245/246	50°	2043	1516	750°	FULL SEAM	JR
4/28	0820	P 242/243	50°	2067	1504	750°	FULL SEAM	JR
4/28	0818	P 244/246	50°	2043	1516	750°	FULL SEAM	JR
4/28	0825	P 246/247	50°	2043	1516	750°	FULL SEAM	JR
4/28	0920	P 230/247-239	56°	2043	1516	750°	FULL SEAM EAST TIE-IN	JR
4/29	1000	CONTROL FLAP PARCEL 1-B/1-C	67°	2032	G-9	280/260 EXT.	1/2 SEAM	JR
4/29	1300	CONTROL FLAP PARCEL 1-B/1-C	67°	2010	G-15	210/245 EXT.	1/2 SEAM	JR
MAY 1	0814	P 248/249	66°	2066	1532	750°	FULL SEAM	JR
MAY 1	0833	P 250/251	67°	2019	1535	750°	FULL SEAM	JR
MAY 1	1030	P 249/250	67°	EXT	G#15	750°	FULL SEAM	JR
MAY 1	1047	P 247/251	68°	EXT	G#15	—	FULL SEAM	JR
MAY 1	1030	P 250/252	68°	EXT	G#15	—	FULL SEAM	JR
MAY 1	1005	P 249/252	68°	EXT	G#15	—	FULL SEAM	JR
MAY 1	0930	P 231/248	68°	EXT	G#15	—	FULL SEAM	JR
MAY 1	1047 (10)							
MAY 1	1057	P 230/248-252	68°	EXT	G#15	—	FULL SEAMS	JR
		NO MORE	ENTRIES	THIS	PAGE			



Seaming Log

Primary - Third Layer

Sheet No. 15 of 15

Project: *Trail Ridge Landfill*

Phase: (13) Phase I & II

Project No.: FQ2030

Year: 1992

Location: *Jacksonville, Florida*

Contractor: *National Seal Company*

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APPENDIX M

AIR PRESSURE TEST LOGS



GEOSYNTEC CONSULTANTS
Boynton Beach, Florida



Trail Ridge Landfill, Inc.

Air Pressure Test Log

Sheet No. 1 of 29

Project: Trail Ridge Landfill

Phase: I & II

Project No.: FQ2030

Year: 1992

Location: Jacksonville, Florida

Contractor: National Seal Company

Date (mo/dy)	Seam No.	Seam Segment	Start Time	Initial Pres.	Stop Time	Final Pres.	Oper. I.D.	Pass	Fail	Q.A. I.D.
MAR. 13	S-1/S-2	0' TO 46'	1054	30	1059	29	2053	P		JG
MAR. 13	S-1/S-2	46' TO 81'	1110	30	1115	28	2053	P		JG
MAR. 13	S-2/S-3	5' TO 130'	1102	30	1107	29	2053	P		JG
MAR. 13	S-3/S-4	5' TO 124'	1351	30	1356	29	2053	P		JG
MAR. 13	S-4/S-5	100' TO 133'	1744	30	1749	29	2053	P		JG
MAR. 13	S-4/S-5	50' TO 100'	1113	30	1118	30	2053	P		JG
MAR. 13	S-4/S-5	4.5' TO 50'	1121	30	1126	28	2053	P		JG
MAR. 13	S-5/S-6	5' TO 106'	1125	30	1130	29	2053	P		JG
MAR. 13	S-5/S-6	106' TO 149'	1734	30	1739	29	2053	P		JG
MAR. 13	S-6/S-7	5' TO 116'	1549	30	1554	29	2053	P		JG
MAR. 13	S-6/S-7	116' TO END	1733	30	1738	30	2053	P		JG
MAR. 13	S-7/S-8	4' TO END (99')	1606	30	1611	30	2053	P		JG
MAR. 13	S-7/S-9	99' TO 107'	SEAM EXTRUDED				2053	P ^{JS}	F	JG
MAR. 13	S-7/S-9	107' TO END	1619	29	1624	29	2053	P		JG
MAR. 13	S-8/S-9	0' TO END	1553	29	1558	29	2053	P		JG
MAR. 13	S-8/S-10	3' TO 98' (END)	1607	30	1612	30	2053	P		JG
MAR. 13	S-9/S-10	0' TO END	1615	30	1620	30	2053	P		JG
MAR. 13	S-10/S-11	4' TO END	1653	30	1658	30	2053	P		JG
MAR. 13	S-11/S-12	3' TO END	1654	30	1659	30	2053	P		JG
MAR. 13	S-12/S-13	3' TO END	1706	30	1711 ¹⁷¹¹	30	2053	P		JG
MAR. 13	S-13/S-14	0' TO 71'	1707	29	1713	28	2053	P		JG
MAR. 13	S-13/S-14	71' TO END	1713	30	1718	29	2053	P		JG
MAR. 13	S-14/S-15	0' TO END	1803	30	1808	29	2053	P		JG
MAR. 13	S-15/S-17	0' TO END	1819	30	1824	30	2053	P		JG
MAR. 14	S-15/S-16	0' TO END	0726	30	0731	30	2053	P		JG
MAR. 14	S-16/S-17	0' TO END	0727	30	0732	30	2053	P		JG
MAR. 13	S-17/S-18	0' TO END	1820	30	1825	29	2053	P		JG
MAR. 14	S-16/S-18	0' TO END	0725	30	0730	29	2053	P		JG
MAR. 14	P-1/P-2	3' TO END	1423	30	1428	30	2075	P		JG
MAR. 14	P-2/P-3	3.5' TO 117'	1430	27	1435	27	2075	P		JG
MAR. 14	P-3/P-4	3' TO END	1441	30	1446	30	2075	P		JG



GEOSYNTEC CONSULTANTS
Boynton Beach, Florida



Trail Ridge Landfill, Inc.

Air Pressure Test Log

Sheet No. 2 of 29

Project: Trail Ridge Landfill Phase: I & II

Project No.: FQ2030 Year: 1992

Location: Jacksonville, Florida Contractor: National Seal Company

Date (mo/dy)	Seam No.	Seam Segment	Start Time	Initial Pres.	Stop Time	Final Pres.	Oper. I.D.	Pass	Fail	O.A. I.D.
MAR.14	P24/P-5	4' TO END	1448	26	1453	25	2075	P		JG
MAR.14	P6/P-7	0' TO END	1456	29	1501	28	2075	P		JG
MAR.14	P5/P-7	SEAM ^(EXTRUDED) RECONSTRUCTED	1510	30			2075		F	JG
MAR.14	P5/P-6	4.5' TO END	1515	25	1520	25	2075	P		JG
MAR.14	P6/P-8	3.5' TO END	1529	26	1534	25	2075	P		JG
MAR.14	P7/P-8	0' TO END	1528	26	1533	25	2075	P		JG
MAR.14	P8/P-9	2' TO END	1546	26	1551	26	2075	P		JG
MAR.14	P9/P-10	2' TO END	1547	25	1552	25	2075	P		JG
MAR.14	P10/P-11	2.5' TO END	1557	28	1602	27	2075	P		JG
MAR.14	P11/P-12	2' TO END	1558	25	1603	25	2075	P		JG
MAR.14	P12/P-13	0' TO END	1620	25	1625	25	2075	P		JG
MAR.14	P13/P-14	0' TO END	1632	25	1637	23	2075	P		JG
MAR.14	P13/P-15	0' TO END	1632	26	1637	25	2075	P		JG
MAR.14	P14/P-15	0' TO END	1640	27	1645	26	2075	P		JG
MAR.14	P14/P-16	0' TO END	1642	27	1647	26	2075	P		JG
MAR.14	P15/P-16	117' TO END	1655	27	1700	26	2075	P		TS
MAR.14	P15/P-16	109' TO 117' EXTRUSION WELDED	1650	27			2075	P	F	TS
MAR.14	P16/P-17	0' TO END	1658	26	1703	25	2075	P		TS
MAR.14	P17/P-18	0' TO END	1705	30	1710	29	2075	P		TS
MAR.16	S19/S21	0' TO END	1632	30	1637	28	2053	P		JG
MAR.16	S19/S22	0' TO END	1631	30	1636	30	2053	P		JG
MAR.16	S19/S20	0' TO END	1618	30	1623	28	2053	P		JG
MAR.16	S20/S22	0' TO END	1617	30	1622	29	2053	P		JG
MAR.16	S22/S23	0' TO END	1652	30	1657	30	2053	P		JG
MAR.16	S21/S23	0' TO END	1703	30	1708	30	2053	P		JG
MAR.16	S21/S22	SEAM EXTRUDED	1709						F	JG
MAR.16	S23/S24	0' TO END	1730	30	1735	30	2053	P		JG
MAR.17	S24/S26	0' TO END	0825	29	0830	28	2055	P		JG
MAR.17	S25/S26	0' TO END	0826	28	0831	28	2055	P		JG
MAR.17	S24/S25	0' TO END	0827	32	0832	30	2055	P		JG



GEOSYNTEC CONSULTANTS
Boynton Beach, Florida



Trail Ridge Landfill, Inc.

Air Pressure Test Log

Sheet No. 3 of 29

Project: Trail Ridge Landfill

Phase: I & II

Project No.: FQ2030

Year: 1992

Location: Jacksonville, Florida

Contractor: National Seal Company

Date (mo/dy)	Seam No.	Seam Segment	Start Time	Initial Pres.	Stop Time	Final Pres.	Oper. I.D.	Pass	Fail	Q.A. I.D.
MAR 17	S-25/S-27	0' TO END	0855	29	0900	29	2053	P		JG
MAR 17	S-26/S-27	0' TO END	0856	30	0901	30	2053	P		JG
MAR 17	S-28/S-29	0' TO END	09152	30	09157	30	2053	P		TCB
MAR 17	S-27/S-28	0' TO 221'	10109	30	10114	28	2053	P		TCB
MAR 17	S-27/S-28	221' TO 240' Reconstructed	—	—	—	—	2053		F	TCB
MAR 17	S-27/S-28	240' TO ^{335'} END	10111	30	10116	30	2053	P		TCB
MAR 17	S-29/S-32	0' TO END 387'	10131	30	10135	29	2053	P		TCB
MAR 17	S-30/S-32	323' TO END	1358	25	1403	25	2053	P		CB
MAR 17	S-31/S-32	0' TO END	1359	30	1404	30	2053	P		CB
MAR 17	S-30/S-31	0' TO 323'	1411	30	1416	30	2053	P		CB
MAR 17	S-32/S-33	324' TO END	1400	30	1405	30	2053	P		CB
MAR 17	S-31/S-33	0' TO 324'	1400	30	1405	30	2053	P		CB
MAR 17	S-33/S-34	0' TO END	1420	30	1425	30	2053	P		CB
MAR 17	S-34/S-36	244' TO END	1542	30	1547	30	2053	P		CB
MAR 17	S-34/S-36	0' TO END	1541	30	1546	29	2053	P		CB
MAR 17	S-34/S-35	0' TO 244'	1543	30	1548	30	2053	P		CB
MAR 17	S-36/S-37	244' TO END	1561	30	1556	28	2053	P		CB
MAR 17	S-35/S-37	0' TO 244'	1540	30	1545	30	2053	P		CB
MAR 17	S-37/S-38	195' TO END	1706	30	1711	30	2053	P		CB
MAR 17	S-37/S-38	0' TO 195'	0722	30	0727	30	2053	P		CB
MAR 17	S-38/S-39	33' TO 181'	1704	29	1709	29	2053	P		CB
MAR 17	S-39/S-40	0' TO END	1720	30	1725	29	2053	P		CB
MAR 17	S-38/S-40	181' TO END	1703	30	1708	30	2053	P		CB
MAR 18	S-38/S-39	0' TO 33'	0721	29	0726	28	2053	P		CB
MAR 18	S-40/S-41	179' TO END	0734	29	0739	29	2053	P		CB
MAR 18	S-39/S-41	0' TO 179'	0738	30	0743	30	2053	P		CB
MAR 18	S-41/S-42	0' TO 86'	1009	30	1014	29	2053	P		CB
MAR 18	S-41/S-42	894' TO 195'	0958	29	1003	29	2053	P		CB
MAR 18	S-41/S-42	201' TO END	0957	30	1002	30	2053	P		CB
MAR 18	S-42/S-43	325' TO END	1329	28	1334	28	2053	P		CB
MAR 18	S-42/S-43	264' TO 313'	1346	30	1345	30	2053	P		CB



GEOSYNTec CONSULTANTS
Boynton Beach, Florida



Trail Ridge Landfill, Inc.

Air Pressure Test Log

Sheet No. 4 of 29

Project: Trail Ridge Landfill

Phase: I & II

Project No.: FQ2030

Year: 1992

Location: Jacksonville, Florida

Contractor: National Seal Company

Date (mo/dy)	Seam No.	Seam Segment	Start Time	Initial Pres.	Stop Time	Final Pres.	Oper. I.D.	Pass	Fail	Q.A. I.D.
MAR 18	S-42/S-43	198 TO 260'	1121	30	1126	30	2053	P		TS
MAR 18	S-42/S-43	136 TO 198	1115	30	1120	29	2053	P		TS
MAR 18	S-42/S-43	78 TO 134'	1122	30	1127	30	2053	P		TS
MAR 18	S-42/S-43	0' TO 70'	1130	30	1135	29	2053	P		TS
MAR 18	S-43/S-44	0' TO END	1315	30	1320	30	2053	P		TS
MAR 18	S-44/S-46	320' TO END	1430	29	1435	29	2053	P		TS
MAR 18	S-45/S-46	0' TO END	1451	27	1456	27	2053	P		TS
MAR 18	S-44/S-45	192' TO 320	1455	30	1500	30	2053	P		TS
MAR 18	S-44/S-45	0' TO 192'	1331	30	1336	30	2053	P		TS
MAR 18	S-46/S-47	320' TO END	1623	29	1628	29	2053	P		TS
MAR 18	S-45/S-47	0' TO 320'	1654	30	1659	30	2053	P		TS
MAR 18	S-47/S-48	308 TO END	1716	30	1721	30	2053	P		TS
MAR 18	S-47/S-48	192' TO 308'	1719	30	1724	30	2053	P		TS
MAR 18	S-47/S-48	18' TO 192'	1736	30	1741	29	2053	P		TS
3-18	S-47/S-48	0' to 18'	EXT.	-	-	-	-	-		J.K.
3-18	S-48/S-49	0' to 208'	17:46	30	17:51	30	2053	P		J.K.
3-20	S-48/S-49	208' to END (315')	07:52	30	07:57	30	2053	P		J.K.
3-20	S-48/S-50	ENTIRE SEAM	07:24	30	07:29	30	2053	P		J.K.
3-20	S-49/S-50	ENTIRE SEAM	08:08	30	08:13	30	2053	P		J.K.
MAR 19	S-53/S-56	FULL SEAM	15:46	30	15:46	29	2053	P		TLS
MAR 21	S-50/S-52	316' TO END	1412	30	1417	29	2053	P		TS
MAR 21	S-49/S-52	0' TO 316'	1413	30	1418	30	2053	P		TS
MAR 21	S-52/S-53	303' TO END	1149	30	1154	29	2053	P		TS
MAR 21	S-52/S-53	0' TO 296'	1318	30	1323	30	2053	P		TS
MAR 21	S-53/S-55	305' TO END	1336	30	1341	29	2053	P		TS
MAR 20	S-1/S-57	FULL SEAM	1355	30	1400	30	2053	P		TS
MAR 21	S-53/S-55	219' TO 300'	1353	30	1358	29	2053	P		TS
MAR 21	S-53/S-55	31' TO 219'	1443	30	1448	30	2053	P		TS
MAR 21	S-54/S-55	0' TO END	1458	30	1503	29	2053	P		TS
MAR 21	S-55/S-56	230' TO END	1407	30	1412	30	2053	P		JG
MAR 20	P-1/P-19	ENTIRE SEAM	1425	30	1430	29	2053	P		TS



GEOSYNTec CONSULTANTS
Boynton Beach, Florida



Trail Ridge Landfill, Inc.

Air Pressure Test Log

Sheet No. 5 of 29

Project: Trail Ridge Landfill

Phase: I & II

Project No.: FQ2030

Year: 1992

Location: Jacksonville, Florida

Contractor: National Seal Company

Date (mo/dy)	Seam No.	Seam Segment	Start Time	Initial Pres.	Stop Time	Final Pres.	Oper. I.D.	Pass	Fail	Q.A. I.D.
MAR. 21	S-55/S-56	137' TO 230'	1444	30	1449	30	2053	P		JG
MAR. 21	S-55/S-56	0' TO 137'	1459	29	1504	29	2053	P		JG
MAR. 21	S-54/S-56	0' TO END	1505	30	1510	30	2053	P		JG
MAR. 21	S-56/S-57	0' TO 47'	1538	30	1543	29	2053	P		JG
MAR. 21	S-56/S-57	47' TO END	1549	30	1554	30	2053	P		JG
MAR. 21	S-57/S-59	0' TO END	1542	30	1547	29	2053	P		JG
MAR. 21	S-59/S-60	0' TO END	1553	30	1558	28	2053	P		JG
MAR. 21	S-56/S-58	0' TO END	1604	30	1609	29	2053	P		JG
MAR. 21	S-57/S-58	SEAM EXTRUDED					2055		F	JG
MAR. 21	S-58/S-59	0' TO END	1605	30	1610	29	2053	P		JG
MAR. 21	S-55/S-56	230' TO END	1407	30	1412	30	2053	P		JG
MAR. 23	S-60/S-61	0' TO END	0804	30	0809	30	2053	P		JG
MAR. 23	S-60/S-62	305' TO END SEAM EXTRUDED	1129	28	1134	27	2053	P		JG
MAR. 23	S-61/S-62	SEAM EXTRUDED							F	JG
MAR. 23	S-62/S-63	0' TO END	0803	30	0808	30	2053	P		JG
MAR. 23	S-61/S-63	222' TO 278'	0802	30	0807	30	2053	P		JG
MAR. 23	S-62/S-63	END OF SEAM 278' TO END	0803	30	0808	30	2053	P		JG
MAR. 23	S-61/S-63	0' TO 200'	0812	30	1417	30	2053	P		JG
MAR. 23	S-63/S-64	0' TO 222'	0854	30	0859	30	2053	P		JG
MAR. 23	S-63/S-64	225' TO END	1745	30	1750	30	2053	P		JG
MAR. 24	S-64/S-65	217' TO 312'	1011	30	1016	30	2053	P		JG
MAR. 24	S-64/S-65	312' TO END - SEAM CAPPED							F	JG
MAR. 24	S-64/S-65	198' TO 217'	1029	30	1034	29	2053	P		JG
MAR. 24	S-65/S-66	0' TO END	1030	30	1035	30	2053	P		JG
MAR. 24	S-64/S-66	105' TO 217'	1030	30	1035	30	2053	P		JG
MAR. 24	S-64/S-66	65' TO 105'	1042	30	1047	29	2053	P		JG
MAR. 24	S-64/S-66	15' TO 65'	1042	30	1047	30	2053	P		JG
MAR. 24	S-64/S-66	0' TO 15' - EXTRUDED							F	JG
MAR. 24	S-66/S-67	0' TO 20'	1130	30	1135	29	2053	P		JG
MAR. 24	S-66/S-67	20' TO 113'	1419	30	1424	30	2053	P		JG



GEOSYNTEC CONSULTANTS
Boynton Beach, Florida



Trail Ridge Landfill, Inc.

Air Pressure Test Log

Sheet No. 6 of 29

Project: Trail Ridge Landfill

Phase: I & II

Project No.: FQ2030

Year: 1992

Location: Jacksonville, Florida

Contractor: National Seal Company

Date (mo/dy)	Seam No.	Seam Segment	Start Time	Initial Pres.	Stop Time	Final Pres.	Oper. I.D.	Pass	Fail	Q.A. I.D.
MAR 24	S66/S67	121' to 143'	1334	30	1339	29	2053	P		TS
MAR 24	S66/S67	121' 143' to 197'	1333	30	1338	28	2053	P		TS
MAR 24	S65/S67	197' to END.	1315	30	1320	30	2053	P		TS
MAR 25	S64/S65	59' to 13'	1407	30	1412	29	2053	P		CS
MAR 25	S64/S65	108' to 221'	1415	30	1420	30	2053	P		CS
MAR 25	S66/S68	351' to End	1448	30	1453	30	2053	P		CS
MAR 25	S65/S66	340' to End	1447	30	1452	30	2053	P		CS
MAR 25	S64/S65	233' to End	1452	30	1457	28	2053	P		CS
MAR 25	S68/S69	305' to End ^{264' to 305'}	1506	30	1511	30	2053	P		CS
MAR 25	S66/S68	305' to 320'	1507	30	1512	30	2053	P		CS
MAR 25	S66/S68	322' to 336'	1507	30	1512	30	2053	P		CS
MAR 25	S66/S68	338' to 349'	1508	28	1513	28	2053	P		CS
MAR 25	S68/S69	305' to End	1505	30	1510	30	2053	P		CS
MAR 25	S65/S67	278' to 308'	1520	30	1525	30	2053	P		CS
MAR 26	S65/S67	246' to 274'	0741	30	0746	29	2053	P		CS
MAR 26	S65/S67	244' to 227'	0742	29	0747	28	2053	P		CS
MAR 26	S67/S68	253' to 226'	0752	30	0757	30	2053	P		CS
MAR 26	S67/S68	189' to 224'	0810 0752	30	0815	29	2053	P		CS
MAR 26	S67/S68	174' to 187'	0811	28	0816	27	2053	P		CS
MAR 26	S68/S69	261' to 227'	0802	30	0807	29	2053	P		CS
MAR 26	S68/S69	152' to 222'	0818	30	0823	30	2053	P		CS
MAR 26	S68/S69	116' to 149'	0826	30	0831	29	2053	P		CS
MAR 26	S68/S69	79' to 113'	0827	30	0832	30	2053	P		CS
MAR 26	S67/S68	46' to 86'	0830	30	0835	29	2053	P		CS
MAR 26	S67/S68	103' to 142'	0833	30	0838	30	2053	P		CS
MAR 26	S65/S67	155' to 192'	0854	30	0859	30	2053	P		CS
MAR 26	S65/S67	197' to 223	0906	30	0911	30	2053	P		CS
MAR 26	S65/S67	93' to 39'	0916	30	0921	30	2053	P		CS
MAR 26	S67/S68	42' to 15'	0919	30	0924	28	2053	P		CS
MAR 26	S68/S69	2' to 77'	0921	30	0926	30	2053	P		CS
MAR 26	S67/S68	270' to 304	0941	30	0946	30	2053	P		CS



GEOSYNTEC CONSULTANTS
Boynton Beach, Florida



Trail Ridge Landfill, Inc.

Air Pressure Test Log

Sheet No. 7 of 29

Project: Trail Ridge Landfill

Phase: I & II

Project No.: FQ2030

Year: 1992

Location: Jacksonville, Florida

Contractor: National Seal Company

Date (mo/dy)	Seam No.	Seam Segment	Start Time	Initial Pres.	Stop Time	Final Pres.	Oper. I.D.	Pass	Fail	Q.A. I.D.
MAR 26	27 ⁵⁶⁴ / ₅₆₇	length of seam	0944	27	0949	27	2053	P		CS
MAR 26	P20/P21	334' to end	1541	30	1546	30	2053	P		CS
MAR 26	P20/P21	332' to 112'	1511	30	1516	30	2053	P		CS
MAR 26	P20/P21	14' to 112'	1526	30	1531	30	2053	P		CS
MAR 26	P23/P24	320' to end length	1551	30	1556	30	2053	P		CS
MAR 26	P21/P23	⁵⁶⁴ length 320' to end	1554	30	1559	30	2053	P		CS
MAR 26	P22/P24	88' to 188'	1612	30	1617	30	2053	P		CS
MAR 26	P22/P24	51' to 80'	1613	30	1618	30	2053	P		CS
MAR 26	P21/P22	length	1623	30	1628	30	2053	P		CS
MAR 26	P22/P24	13' to 50'	1625	30	1630	29	2053	P		CS
MAR 26	P24/P25	143' to end	1702	30	1707	30	2053	P		CS
MAR 26	P24/P25	13' to 134'	1711	28	1716	28	2053	P		CS
MAR 26	P25/P26	225' to End	1720	30	1725	30	2053	P		CS
MAR 26	P25/P26	0' to 225'	1729	30	1734	30	2053	P		CS
MAR 26	P22/P24	188' to 292'	1734	30	1739	30	2053	P		CS
MAR 26	P22/P23	length	1743	30	1748	29	2053	P		CS
MAR 27	P26/P28	length	0811	30	0816	30	2053	P		CS
MAR 27	P26/P27	13' to 315'	0813	30	0818	30	2053	P		CS
MAR 27	P28/P29	length	0834	30	0839	30	2053	P		CS
MAR 27	P27/P29	12' to 316'	0835	30	0840	30	2053	P		CS
MAR 27	P29/P30	0' to End	0851	30	0856	30	2053	P		CS
MAR 28	P30/P31	228' to 338 338'	0819	29	0824	29	2053	P		CS
MAR 28	P30/P31	338' to End	0820	30	0825	30	2053	P		CS
MAR 28	P30/P31	228' to 5'	0833	30	0838	29	2053	P		CS
MAR 28	P31/P32	229' to 0'	0917	30	0922	30	2053	P		CS
MAR 28	P31/P32	229' to end	0918	30	0923	30	2053	P		CS
MAR 28	P33/P35	305' to 233'	0936	30	0941	30	2053	P		CS
MAR 28	P34/P35	length	0937	30	0942	30	2053	P		CS
MAR 28	P33/P34	length	0946	29	0951	29	2053	P		CS
MAR 28	P32/P34	length	0946	30	0951	30	2053	P		CS



GEOSYNTec CONSULTANTS
Boynton Beach, Florida



Trail Ridge Landfill, Inc.

Air Pressure Test Log

Sheet No. 8 of 29

Project: Trail Ridge Landfill Phase: I & II
Project No.: FQ2030 Year: 1992
Location: Jacksonville, Florida Contractor: National Seal Company

Date (mo/dy)	Seam No.	Seam Segment	Start Time	Initial Pres.	Stop Time	Final Pres.	Oper. I.D.	Pass	Fail	Q.A. I.D.
MAR 28	P32/P33	292' to 306'	0953	30	0958	29	2053	P		CS
MAR 28	P32/P33	288' to 228'	1011	30	1016	30	2053	P		CS
MAR 28	P32/P33	228' to 18'	1021	30	1026	29	2053	P		CS
MAR 28	P33/P35	232' to 0'	1039	30	1044	29	2053	P		CS
MAR 28	P35/P36	222' to End	1109	29	1114	29	2053	P		CS
MAR 28	P135/P36	220' to 0'	1110	30	1115	30	2053	P		CS
MAR 28	P38/P36	218 to End (length)	1111	29	1116	28	2053	P		CS
MAR 28	P36/P37	218 to 0'	1110	30	1115	30	2053	P		CS
MAR 28	P37/P39	218 to 0'	1112	30	1117	30	2053	P		CS
MAR 28	P38/P39	218 to End (length)	1113	30	1118	30	2053	P		CS
MAR 28	P37/P38	length	1125	28	1130	28	2053	P		CS
MAR 28	P39/P40	length	121312	30	1317	30	2053	P		CS
MAR 28	P40/P42	length	1313	30	1318	30	2053	P		CS
MAR 28	P42/P43	length	1314	29	1319	29	2053	P		CS
MAR 28	P43/P44	length	1320	30	1325	30	2053	P		CS
MAR 28	P41/P42	length	1334	30	1339	30	2053	P		CS
MAR 28	P41/P43	length	1334	30	1339	30	2053	P		CS
MAR 28	P40/P41	length	1335	29	1340	29	2053	P		CS
MAR 28	P41/P46	length	1441	30	1446	30	2053	P		CS
MAR 28	P46/P47	length	1442	30	1446	30	2053	P		CS
MAR 28	P45/47	length	1442	30	1446	30	2053	P		CS
MAR 28	P45/P46	length	1454	30	1459	30	2053	P		CS
MAR 28	P44/P45	0 to 26'	1456	30	1501	29	2053	P		CS
MAR 28	P48/P47	length	1509	30	1514	30	2053	P		CS
MAR 28	P48/P50	0 to 26'	1510	30	1515	30	2053	P		CS
MAR 28	P49/P47	length	1509	30	1514	30	2053	P		CS
MAR 28	P48/P49	length	1530	30	1535	29	2053	P		CS
MAR 28	P49/P50	length	1537	30	1542	29	2053	P		CS
MAR 28	P48/P50	length 26' to End	1544	30	1549	29	2053	P		CS
MAR 29	P51/P53	length	0724	28	0729	27	2053	P		CS
MAR 29	P52/P53	length	0725	30	0730	30	2053	P		CS

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MAR 29 580 | 81 210' to 244'
MAR 29 580 | 81 244' to 336'

1257 30 1302 30 2053 P
1256 30 1301 30 2053 P

JK
JK
APPENDIX



GEOSYNTEC CONSULTANTS
Boynton Beach, Florida



Trail Ridge Landfill, Inc.

Air Pressure Test Log

Sheet No. 9 of 29

Project: Trail Ridge Landfill Phase: I & II

Project No.: FQ2030 Year: 1992

Location: Jacksonville, Florida Contractor: National Seal Company

Date (mo/dy)	Seam No.	Seam Segment	Start Time	Initial Pres.	Stop Time	Final Pres.	Oper. I.D.	Pass	Fail	O.A. I.D.
MAR 29	P53/P54	length	0726	29	0731	29	2053	P		CS
MAR 29	P50/P51	27' to end	0748	30	0753	29	2053	P		CS
MAR 29	P52/P54	length	0743	30	0748	29	2053	P		CS
MAR 29	P52/P51	length	0744	30	0749	30	2053	P		CS
MAR 29	P54/P55	160' to end	0758	30	0803	29	2053	P		CS
MAR 29	P54/P55	0' to 160'	0802	30	0807	29	2053	P		CS
MAR 29	P51/P50	0' to 27' @ 27'	0807	29	0812	28	2053	P		CS
MAR 29	S69/S70	303' to End	1056	30	1101	29	2053	P		CS
MAR 29	S69/S70	281' to 303'	1057	30	1102	30	2053	P		CS
MAR 29	S69/S70	225' to 274'	1100	30	1105	29	2053	P		CS
MAR 29	S69/S70	166' to 224'	1100	30	1105	30	2053	P		CS
MAR 29	S69/S70	147' to 164'	1107	30	1112	30	2053	P		CS
MAR 29	S69/S70	136' to 147'	1108	30	1113	30	2053	P		CS
MAR 29	S69/S70	110' to 136'	1111	30	1116	30	2053	P		CS
MAR 29	S69/S70	20' to 105'	1111	30	1116	30	2053	P		CS
MAR 29	S70/S71	121 to End	1117	30	1122	30	2053	P		CS
MAR 29	S70/S71	57 to 121	1121	30	1126	29	2053	P		CS
MAR 29	S71/S72	0' to 200'	1137	30	1142	29	2053	P		CS
MAR 29	S71/S72	228' to 268'	1140	30	1145	30	2053	P		CS
MAR 29	S71/S72	268' to 315'	1140	30	1145	30	2053	P		CS
MAR 29	S71/S73	length	1149	30	1154	29	2053	P		CS
MAR 29	S72/S75	length	1154	30	1159	30	2053	P		CS
MAR 29	S72/S73	length	1155	30	1200	30	2053	P		CS
MAR 29	S73/S75	184 to 315	1202	30	1207	29	2053	P		CS
MAR 29	S75/S76	115' to End	1400	30	1405	30	2053	P		CS
MAR 29	S76/S77	0' To End	1400	30	1405	30	2053	P		CS
MAR 29	S77/S79	35' to End	1401	30	1406	30	2053	P		CS
MAR 29	S79/S80	35' to End	1401	30	1406	30	2053	P		CS
MAR 29	S80/S-82	336 to End	1403	30	1408	28	2053	P		CS
MAR 29	S-82/S-83	336 to End	1404	30	1409	29	2053	P		CS

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MAR 30 588/89 Full Seam - Entered

MAR 30 588/90

MAR 30 89/91

6#19

6#19

6#8

APPENDIX



GEOSYNTEC CONSULTANTS
Boynton Beach, Florida



Trail Ridge Landfill, Inc.

Air Pressure Test Log

Sheet No. 10 of 29

Project: Trail Ridge Landfill Phase: I & II
Project No.: FQ2030 Year: 1992
Location: Jacksonville, Florida Contractor: National Seal Company

Date (mo/dy)	Seam No.	Seam Segment	Start Time	Initial Pres.	Stop Time	Final Pres.	Oper. I.D.	Pass	Fail	Q.A. I.D.
MAR 29	572/574	length	1419	29	1424	27	2053	P		CS
MAR 29	574/575	length	1419	30	1424	30	2053	P		CS
MAR 29	574/576	length	1420	29	1425	29	2053	P		CS
MAR 29	572/575	116' to 183'	1423	30	1428	28	2053	P		CS
MAR 29	578/580	length	1431	30	1436	30	2053	P		CS
MAR 29	578/579	length	1434	30	1439	30	2053	P		CS
MAR 29	577/578	length	1433	30	1438	29	2053	P		CS
MAR 29	580/581	length 0' to 210'	1444	30	1449	2530	2053	P		CS
MAR 29	581/583	length	1445	30	1450	30	2053	P		CS
MAR 29	583/584	0' to 219'	1510	30	1515	30	2053	P		CS
MAR 29	584/585	0 to 106'	1510	30	1515	28	2053	P		CS
MAR 29	585/587	0 to 180'	1511	30	1516	30	2053	P		CS
MAR 29	585/587	180' to 245'	1524	30	1529	29	2053	P		CS
MAR 29	586/587	length	1526	29	1531	29	2053	P		CS
MAR 29	585/586	length	1527	29	1532	28	2053	P		CS
MAR 29	584/586	length	1533	30	1538	30	2053	P		CS
MAR 29	584/585	177' to 245'	1533	30	1538	30	2053	P		CS
MAR 30	588/587	308' to 388' (end)	1418	30	1423	30	2053	P		CS
MAR 30	588/587	165' to 302'	1418	30	1423	30	2053	P		CS
MAR 30	588/587	0' to 165'	1428	30	1433	30	2053	P		CS
MAR 30	584/585	106' to 177'	1449	30	1454	29	2053	P		CS
MAR 31	592/594	323' to end (592/594)	1359	30	1404	30	2053	P		CS
MAR 31	592/594	294 to 323' (593/594)	1400	30	1405	30	2053	P		CS
MAR 31	592/594	255 to 234'	1408	30	1413	29	2053	P		CS
MAR 31	592/594	255 to 294'	1409	30	1414	30	2053	P		CS
MAR 31	592/594	124 to 143	1422	30	1427	30	2053	P		CS
MAR 31	592/594	143 to 224'	1423	30	1428	30	2053	P		CS
MAR 31	592/594	74 to 93	1426	30	1431	30	2053	P		CS
MAR 31	592/594	93 to 124	1427	30	1432	29	2053	P		CS
MAR 31	592/594	36 to 74	1436	30	1441	30	2053	P		CS
MAR 31	592/594	0 to 36	1437	30	1442	30	2053	P		CS

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MAR 31 580/581 210' to end 1500
591/592 Full Seam - Extruded G#8
4-1-92 592/594 5/12

AIR PRESSURE



GEOSYNTEC CONSULTANTS
Boynton Beach, Florida



Trail Ridge Landfill, Inc.

Air Pressure Test Log

Sheet No. 11 of 29

Project: Trail Ridge Landfill

Phase: I & II

Project No.: FQ2030

Year: 1992

Location: Jacksonville, Florida

Contractor: National Seal Company

Date (mo/dy)	Seam No.	Seam Segment	Start Time	Initial Pres.	Stop Time	Final Pres.	Oper. I.D.	Pass	Fail	Q.A. I.D.
MAR 31	594/595	length	1538	30	1543	30	2053	P		CS
MAR 31	595/597	length	1615	30	1620	29	2053	P		CS
MAR 31	597/598	length	1609	30	1614	30	2053	P		CS
MAR 31	598/599	length	1633	30	1638	30	2053	P		CS
MAR 31	599/101	length	1629	28	1634	28	2053	P		CS
MAR 31	599/5100	length	1630	30	1635	30	2053	P		CS
MAR 31	5-95/5-96	226 to 321'	1554	30	1559	29	2053	P		CS
MAR 31	5-95/5-96	0 to 226	1559	30	1604	29	2053	P		CS
MAR 31	596/5-98	length	1539	30	1544	30	2053	P		CS
MAR 31	5101/5102	length	1659	30	1704	30	2053	P		CS
MAR 30	564/565	60' to 108'	0927	30	0932	29	2053	P		CS
MAR 30	565/66	308' to 336'	0944	30	0949	30	2053	P		CS
MAR 30	580/581	297' to 336'	12:56	30	1301	30	2053	P		CS
MAR 30	580/581	210 to 241	1257	30	1302	30	2053	P		CS
MAR 30	581/582	length	1308	30	1313	30	2053	P		CS
MAR 30	583/584	219' to end	0958	29	1003	29	2053	P		CS
MAR 31	5100/5102	100 to 247	1719 1722	30	1724	29	2053	P		CS
MAR 31	5100/5102	0 to 100	1730	30	1735	29	2053	P		CS
MAR 31	5102/5103	length	1731	30	1736	30	2053	P		CS
MAR 31	5103/5106	length	1757	30	1602	30	2053	P		CS
MAR 31	5103/5104	length	1740	30	1745	29	2053	P		CS
APR 2	5104/5107	length	1059	30	1104	30	2053	P		CS
APR 2	5106/5107	length	1100	30	1105	30	2053	P		CS
APR 2	5104/5106	length	1101	30	1106	30	2053	P		CS
APR 2	5107/5108	93' to 60'	1127	30	1132	30	2053	P		CS
APR 2	5107/5108	93' to 166	1128	30	1133	30	2053	P		CS
APR 2	5107/5108	39' to 60'	1141	30	1146	30	2053	P		CS
APR 2	5107/5108	166 to 211'	1126	28	1131	28	2053	P		CS
APR 2	5107/5108	211 to end	1125	30	1130	30	2053	P		CS
APR 2	5108/5110	length	1145	30	1150	29	2055	P		CS
APR 2	5108/5109	length	1147	32	1152	31	2055	P		CS



GEOSYNTEC CONSULTANTS
Boynton Beach, Florida



Trail Ridge Landfill, Inc.

Air Pressure Test Log

Sheet No. 12 of 29

Project: Trail Ridge Landfill

Phase: I & II

Project No.: FQ2030

Year: 1992

Location: Jacksonville, Florida

Contractor: National Seal Company

Date (mo/dy)	Seam No.	Seam Segment	Start Time	Initial Pres.	Stop Time	Final Pres.	Oper. I.D.	Pass	Fail	Q.A. I.D.
APR 2	S109/S110	length	1357	30	1402	29	2053	P		CS
APR 2	S109/S111	length	1411	30	1416	30	2053	P		CS
APR 2	S110/S111	length	1412	30	1418	30	2053	P		CS
APR 2	S111/S112	12' to end	1426	30	1431	30	2053	P		CS
APR 2	S112/S113	length	1430	30	1435	30	2053	P		CS
APR 2	S112/S114	length	1431	30	1436	30	2053	P		CS
APR 2	S113/S114	length	1438	29	1443	27	2053	P		CS
APR 2	S114/S115	length	1535	30	1540	30	2055	P		CS
APR 2	S114/S115	length	1530	30	1535	30	2055	P		CS
APR 2	S115/S116	length	1535	30	1540	30	2055	P		CS
APR 2	S116/S117	length	1536	29	1541	28	2055	P		CS
APR 2	S115/S118	length	1634 1454	30	1639 1454	30	2053	P		CS
APR 2	S119/S120	length	1718	29	1723	27	2075	P		CS
APR 2	S120/S121	length	1724	28	1729	28	2075	P		CS
APR 3	S118/S122	length	0748	30	0752	29	2053	P		CS
APR 3	S122/S124	length	0738	30	0743	29	2053	P		CS
APR 3	S124/S125	38' to end	0739	28	0744	28	2053	P		CS
APR 3	P-20/P56	230' to end	1456	28	1501	28	2053	P		CS
APR 3	P-20/P56	141' to 214	1519	30	1524	29	2053	P		CS
APR 3	P-20/P56	14' to 141'	1543	30	1548	29	2053	P		CS
APR 3	P-57/P-56	0' to 190'	1553	30	1558	29	2053	P		CS
APR 3	P-57/P-58	length	1555	30	1600	29	2053	P		CS
APR 3	P-57/P-59	length	1604	30	1609	28	2053	P		CS
APR 3	P-58/P-59	223' to End	1605	30	1610	29	2053	P		CS
APR 3	P-59/P-60	15' to End	1632	30	1637	30	2053	P		CS
APR 3	P-60/P62	length	1630	30	1635	30	2053	P		CS
APR 3	P-62/P63	207' to End	1642	30	1647	29	2053	P		CS
APR 3	P-63/P-64	length	1647	29	1652	27	2053	P		CS
APR 3	P-62/P-63	125' to 207'	1650	30	1655	29	2053	P		CS
APR 3	P-61/P63	length	1655	30	1700	30	2053	P		CS
APR 3	P-61/P-62	length	1656	30	1701	29	2053	P		CS



GEOSYNTEC CONSULTANTS
Boynton Beach, Florida



Trail Ridge Landfill, Inc.

Air Pressure Test Log

Sheet No. 13 of 29

Project: Trail Ridge Landfill

Phase: I & II

Project No.: FQ2030

Year: 1992

Location: Jacksonville, Florida

Contractor: National Seal Company

Date (mo/dy)	Seam No.	Seam Segment	Start Time	Initial Pres.	Stop Time	Final Pres.	Oper. I.D.	Pass	Fail	Q.A. I.D.
Apr 3	P-60/P61	length	1657	30	1702	30	2053	P		CS
APR 3	P-64/P66	length	1722 ¹⁷²²	30	1727	30	2053	P		CS
APR 3	P66/P67	length	1725	30	1730	28	2053	P		CS
APR 4	P56/P58	209' to 227'	0725	29	0730	29	2053	P		CS
APR 4	P56/P58	227' to end	0726	30	0731	30	2053	P		CS
APR 4	P65/P66	length	0736	30	0741	30	2053	P		CS
APR 4	P64/P65	length	0737	30	0742	30	2053	P		CS
APR 4	P65/P67	length	0738	29	0743	28	2053	P		CS
APR 4	P67/P68	length	0802	30	0807	30	2053	P		CS
APR 4	P68/P69	length	0810	29	0815	28	2053	P		CS
APR 4	P69/P70	length	0819	29	0824	29	2053	P		CS
APR 4	P70/P71	7' to end	0847	30	0852	30	2053	P		CS
APR 4	P71/P73	length	0908	30	0913	28	2053	P		CS
APR 4	P73/P74	length	0911	30	0916	28	2053	P		CS
APR 4	P75/P76	length	0916	30	0921	30	2053	P		CS
APR 4	P72/P73	length	0927	30	0932	30	2053	P		CS
APR 4	P72/P74	18' to 101'	0931	30	0936	29	2053	P		CS
APR 4	P71/P72	45' to 74'	0942	30	0947	30	2053	P		CS
APR 4	P71/P72	0' to 45'	0952	30	0957	29	2053	P		CS
APR 4	P72/P74	0' to 18'	0954	30	0959	29	2053	P		CS
APR 4	P67/P69	length	0820	30	0825	29	2053	P		CS
APR 4	P75/P76	length	1022	29	1027	27	2053	P		CS
APR 4	P76/P77	length	1032	30	1037	30	2053	P		CS
APR 4	P77/P79	length	1045	30	1050	29	2053	P		CS
APR 4	P79/P80	length	1410	30	1415	30	2053	P		CS
APR 4	P78/P80	length	1418	30	1423	29	2053	P		CS
APR 4	P77/P78	length	1436	28	1441	28	2053	P		CS
APR 4	P80/P81	length	1440	30	1445	29	2053	P		CS
APR 4	P81/P83	length	1455	30	1500	29	2053	P		CS
APR 4	P83/P84	length	1458	30	1504	30	2053	P		CS



GEOSYNTEC CONSULTANTS
Boynton Beach, Florida



Trail Ridge Landfill, Inc.

Air Pressure Test Log

Sheet No. 14 of 29

Project: Trail Ridge Landfill

Phase: I & II

Project No.: FQ2030

Year: 1992

Location: Jacksonville, Florida

Contractor: National Seal Company

Date (mo/dy)	Seam No.	Seam Segment	Start Time	Initial Pres.	Stop Time	Final Pres.	Oper. I.D.	Pass	Fail	Q.A. I.D.
APR 4	P84/P85	length	1505	30	1510	29	2053	P		CS
APR 4	P82/P83	length	1510	30	1515	29	2053	P		CS
APR 4	P82/P84	length	1511	30	1516	30	2053	P		CS
APR 4	P81/P82	length	1516	30	1521	28	2053	P		CS
APR 6	P85/P86	length ^{B+} 378' to S. end	1504	30	1509	30	2053	P		BT
APR 6	P85/P86	223' to 378'	1533	30	1538	30	2053	P		BT
APR 6	P85/P86	0 to 223'	1551	30	1556	29	2053	P		BT
APR 6	P86/P87	139' to S. end	1620	35	1625	35	2055	P		BT
APR 6	P86/P87	139' to 23'	1642	30	1647	30	2055	P		BT
APR 6	P86/P87	23' to 14' EXT.								BT
APR 6	P86/P87	14' to 0	1646	30	1651	28	2055	P		BT
APR 6	P87/P88	0 to 296'	1640	30	1645	30	2055	P		BT
APR 6	P87/P89	296' to 388' (S. end)	1616	32	1621	32	2055	P		BT
APR 6	P89/P90	295' to S. end	1615	30	1620	30	2055	P		BT
APR 6	P88/P90	220' to 295'	1656	31	1701	31	2055	P		BT
APR 6	P88/P89	295' full seam	1658	31	1703	29	2055	P		BT
APR 6	P88/P90	220' to 212' EXT								
APR 6	P88/P90	212' to 189'	1706	34	1711	33	2055	P		BT
APR 6	P88/P90	189' to 182' EXT								
APR 6	P88/P90	182' to N. end	1707	30	1712	30	2055	P		BT
APR 6	P90/P91	137' to end (D) N. end to S. end	1715	30	1720	28	2055	P		BT
APR 2	S-114/S-115	length	1535	30	1540	30	2055	P		CS
APR 4	P68/P69	length	0801	30	0806	30	2053	P		CS
APR 6	P90/P91	0' to 137'	1727	30	1732	30	2055	P		CS
APR 7	P91/P93	length	0745	30	0750	30	2053	P		CS
APR 7	P91/P92	length	0746	30	0751	30	2053	P		CS
APR 7	P92/P93	length	0751	30	0756	30	2053	P		CS
APR 7	P93/P94	length	0758	29	0803	29	2053	P		CS
APR 7	P92/P94	length	0759	29	0804	29	2053	P		CS
APR 7	P94/P95	length	0821	30	0826	30	2053	P		CS
APR 7	P95/P97	length	0823	30	0828	30	2053	P		CS



GEOSYNTEC CONSULTANTS
Boynton Beach, Florida



Trail Ridge Landfill, Inc.

Air Pressure Test Log

Sheet No. 15 of 29

Project: Trail Ridge Landfill

Phase: I & II

Project No.: FQ2030

Year: 1992

Location: Jacksonville, Florida

Contractor: National Seal Company

Date (mo/dy)	Seam No.	Seam Segment	Start Time	Initial Pres.	Stop Time	Final Pres.	Oper. I.D.	Pass	Fail	Q.A. I.D.
APR 4	S127/S128	length	1539	30	1544	28	2053	P		CS
APR 4	S127/S126	length	1541	30	1546	29	2053	P		CS
APR 7	P96/P98	length	0907	29	0912	29	2053	P		CS
APR 7	P97/P96	length	0908	27	0913	27	2053	P		CS
APR 7	P97/P98	length	0915	30	0920	29	2053	P		CS
APR 7	P95/P96	13' to 107'	0918	30	0923	28	2053	P		CS
APR 7	P98/P99	5' to end	0945	30	0950	30	2053	P		CS
APR 7	P99/P101	length	0949	30	0954	30	2053	P		CS
APR 7	P100/P101	length	0959	30	1004	30	2053	P		CS
APR 7	P100/P102	length	1003	29	1008	29	2053	P		CS
APR 7	P100/P102	length	1004	30	1009	29	2053	P		CS
APR 7	P102/P103	5' to 50'	1118	28	1123	27	2053	P		CS
APR 7	P105/P106	length	1123	30	1128	29	2053	P		CS
APR 7	P105/P103	12' to 245' 345' CS	1134	30	1139	29	2053	P		CS
APR 7	P102/P103	50' to 203'	1135	30	1140	29	2053	P		CS
APR 7	S129/S130	length	1727	30	1732	29	2053	P		CS
APR 7	S130/S131	length	1740	30	1745	29	2053	P		CS
APR 8	P113/P114	16' to end	0832	29	0837	28	2053	P		CS
APR 8	P110/P113	164' to 100'	0944	30	0949	29	2053	P		CS
APR 8	P114/P115	0 to 70'	0852	30	0857	29	2053	P		CS
APR 8	P116/P117	length	0900	30	0905	28	2053	P		CS
APR 8	P117/P118	0' to 54'	0909	30	0914	29	2053	P		CS
APR 8	P118/P119	12' to End	0916	30	0921	29	2053	P		CS
APR 8	P110/P113	49' to 0'	0959	30	1004	30	2053	P		CS
APR 8	P114/P120	112' to 148'	1020	30	1025	27	2053	P		CS
APR 8	P122/P123	length	1134	30	1139	30	2053	P		CS
APR 8	P123/P124	length	1301	306 30	1306	29	2053	P		CS
APR 8	S131/S132	0' to 136'	1305	30	1310	30	2055	P		CS
APR 8	S132/S134	0' to 63'	1306	30	1311	30	2055	P		CS
APR 8	S132/S133	97' to 138'	1340	30	1345	30	2055	P		CS
APR 8	S132/S133	144' to 183'	1330	30	1335	30	2055	P		CS



GEOSYNTEC CONSULTANTS
Boynton Beach, Florida



Trail Ridge Landfill, Inc.

Air Pressure Test Log

Sheet No. 16 of 29

Project: Trail Ridge Landfill

Phase: I & II

Project No.: F02030

Year: 1992

Location: Jacksonville, Florida

Contractor: National Seal Company

Date (mo/dy)	Seam No.	Seam Segment	Start Time	Initial Pres.	Stop Time	Final Pres.	Oper. I.D.	Pass	Fail	Q.A. I.D.
APR 8	P102/P104	length	1351	30	1356	29	2053	P		CS
APR 8	P104/P105	length	1402	30	1407	30	2053	P		CS
APR 8	P103/P102	333' to 205'	1359	30	1404	29	2053	P		CS
APR 8	P106/P107	0' to 197'	1443	30	1448	30	2053	P		CS
APR 8	P106/P107	206' to 271'	1444	30	1449	30	2053	P		CS
APR 8	P106/P107	283' to 321'	1619	30	1624	29	2053	P		CS
APR 8	P107/P108	length	1616	30	1621	29	2053	P		CS
APR 8	P106/P108	length	1612	29	1617	28	2053	P		CS
APR 8	P108/P109	length	1632	29	1637	29	2053	P		CS
APR 8	P107/P109	length	1633	30	1638	20	2053	P		CS
APR 8	P109/P110	195' to End	1628	28	1633	28	2053	P		CS
APR 8	P109/P110	0' to 185'	1638	30	1643	28	2053	P		CS
APR 8	P110/P111	length	1629	30	1634	30	2053	P		CS
APR 8	P111/P112	length	1630	29	1635	29	2053	P		CS
APR 8	S133/S134	length	1350	30	1355	28	2055	P		CS
APR 8	S134/S135	length	1325	30	1330	30	2055	P		CS
APR 8	S135/S136	length	1320	30	1325	30	2055	P		CS
APR 8	S136/S137	0' to 139'	1403	30	1408	30	2055	P		CS
APR 8	S137/S136	139' to End	1410	30	1415	30	2055	P		CS
APR 9	P128/P125	length	0900	30	0905	26	2004	P		CS
APR 9	P125/P126	length	0840	30	0945	30	2004	P		CS
APR 9	S137/S138	length	1405	29	1410	28	2075	P		CS
APR 9	S138/S139	length	1416	29	1421	29	2075	P		CS
APR 9	S140/S142	length	1431	30	1436	30	2075	P		CS
APR 9	S139/S141	length	1437	28	1442	27	2075	P		CS
APR 9	S139/S140	143' to X-seam S140/S141	1439	30	1444	29	2075	P		CS
APR 9	P126/P127	length	0847	30	0852	30	2075	P		CS
APR 9	S139/S140	0' to 136'	1444	26	1449	24	2075	P		CS
APR 9	S140/S141	length	1457	28	1502	25	2075	P		CS
APR 9	S142/S143	length	1504	28	1509	28	2075	P		CS
APR 9	S143/S144	length	1615	30	1620	30	2055	P		CS

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APR 9 S139/140 136' to 143'
APR 8 S132/134 63 - 97'
S132/134 138 - 144

EXTRUDED
EXTRUDED
EXTRUDED

APPENDIX



GEOSYNTEC CONSULTANTS
Boynton Beach, Florida



Trail Ridge Landfill, Inc.

Air Pressure Test Log

Sheet No. 17 of 29

Project: Trail Ridge Landfill

Phase: I & II

Project No.: FQ2030

Year: 1992

Location: Jacksonville, Florida

Contractor: National Seal Company

Date (mo/dy)	Seam No.	Seam Segment	Start Time	Initial Pres.	Stop Time	Final Pres.	Oper. I.D.	Pass	Fail	Q.A. I.D.
APR 10	S146/S144	length	0845	30	0850	30	2055	P		CS
APR 10	S145/S146	length	1003	30	1008	29	2053	P		CS
APR 10	S144/S145	S144/S145 length	1013	30	1018	30	2053	P		CS
APR 10	S145/S147	length	1015	30	1020	30	2053	P		CS
APR 10	S146/S147	124' to 141'	1001	29	1006	29	2053	P		CS
APR 10	S146/S147	141' to 178'	0957	30	1002	30	2053	P		CS
APR 10	S146/S147	178' to 223'	0948	30	0953	29	2053	P		CS
APR 10	S146/S147	^{223'} 178' to End	0943	30	0948	29	2053	P		CS
APR 10	S147/S148	length	1120	30	1125	29	2053	P		CS
APR 10	S148/S149	length	1121	30	1126	29	2055	P		CS
APR 10	S149/S150	length	1130	29	1135	29	2055	P		CS
APR 10	S150/S148	length	1131	28	1136	28	2055	P		CS
APR 10	S149/S151	147' to 256'	1128	30	1133	29	2055	P		CS
APR 10	S149/S151	0' to 130'	1122	30	1127	30	2055	P		CS
APR 10	S151/S152	206' to end.	1150	30	1155	30	2055	P		CS
APR 10	S152/S153	219' to end.	1151	30	1156	30	2055	P		CS
APR 10	S150/S151	^{256'} 206' to end (length)	1305	30	1310	29	2055	P		CS
APR 8	S132/S133	length	1348	27	1353	27	2055	P		CS
APR 8	S131/S133	183' to 240	1347	29	1352	29	2055	P		CS
APR 8	S131/S133	240' to End	1355	30	1400	30	2055	P		CS
APR 8	S131/S132	144' to 183'	1337	30	1342	30	2055	P		CS
APR 10	S152/S153	148' to 219'	1447	27	1452	26	2053	P		CS
APR 10	S152/S153	105' to 139'	1429	30	1434	30	2053	P		CS
APR 10	S151/S152	78' to 206	1400	30	1405	30	2053	P		CS
APR 10	S151/S152	0 to 72'	1401	30	1406	30	2053	P		CS
APR 10	S152/S153	82' to 0'	1427	30	1432	30	2053	P		CS
APR 10	S153/S154	length	1431	28	1436	28	2053	P		CS
APR 10	S153/S155	84' to 143'	1430	30	1435	30	2053	P		CS
APR 10	S153/S155	145 to 221'	1439	30	1444	30	2053	P		CS
APR 13	S153/S155	249 to End	0742	29	0747	29	2053	P		CS



GEOSYNTEC CONSULTANTS
Boynton Beach, Florida



Trail Ridge Landfill, Inc.

Air Pressure Test Log

Sheet No. 18 of 29

Project: Trail Ridge Landfill

Phase: I & II

Project No.: FQ2030

Year: 1992

Location: Jacksonville, Florida

Contractor: National Seal Company

Date (mo/dy)	Seam No.	Seam Segment	Start Time	Initial Pres.	Stop Time	Final Pres.	Oper. I.D.	Pass	Fail	Q.A. I.D.
4-11	5154/5155	242 to end of seam	0951	30	0956	30	2053	P		CS
4-11	5154/5155	207 to 237' 5155/5156	0945	29	0950	28	2053	P		CS
4-11	5154/5156	146 to 201 5155/5156	0951	29	0956	28	2053	P		CS
4-11	5154/5156	85 to 134 5155/5156	0958	29	1003	28	2053	P		CS
4-11	5154/5156	0' to 84'	1007	27	1012	27	2053	P		CS
4-11	5156/5157	0 to 137'	1005	30	1010	30	2053	P		CS
4-11	5156/5157	South End to 155'	0820	30	0825	30	2053	P		CS
4-11	5157/5159	214 to End	0815	30	0820	29	2053	P		CS
4-11	5157/5158	length	1008	30	1013	30	2053	P		CS
4-11	5158/5160	length	1017	30	1022	30	2053	P		CS
4-11	5159/5160	length	0830	30	0835	29	2053	P		CS
4-11	5160/5161	length	1027	30	1032	30	2053	P		CS
4-11	5161/5162	length	1028	30	1033	30	2053	P		CS
4-11	5162/5163	length	1107	30	1112	30	2053	P		CS
4-11	5163/5164	length	1116	30	1121	30	2053	P		CS
4-11	5164/5165	length	1120	30	1125	30	2053	P		CS
4-11	5164/5165	134' to 251'	1134	30	1141	29	2053	P		CS
4-11	5164/5165	0' to 130'	1145	30	1150	28	2053	P		CS
4-11	5167/5165	length	1130	30	1135	29	2053	P		CS
4-11	5165/5166	length	1130	30	1135	30	2053	P		CS
4-11	5166/5167	length	1121	30	1126	30	2053	P		CS
4-11	5167/5168	148' to end	1325	30	1320	28	2053	P		CS
4-13	5167/5168	0' to 138'	0825	30	0830	30	2053	P		CS
4-13	5168/5169	0' to 143'	0824	30	0829	30	2053	P		CS
4-13	5168/5169	143' to End	0754	30	0759	30	2053	P		CS
4-13	5169/5171	200 to 288'	0912	30	0917	30	2053	P		CS
4-13	5169/5171	136 to 179'	1430	29	1435	28	2053	P		CS
4-13	5169/5171	87' to 133	0803	30	0808	29	2053	P		CS
4-13	5170/5171	length	0810	30	0815	29	2053	P		CS
4-13	5169/5170	length	0813	30	0818	29	2053	P		CS
4-13	5170/5172	length	0817	28	0822	28	2053	P		CS

4/11 5158/5159 Full Seam - Extruded
GEOSYNTEC CONSULTANTS 0742 29 0747 29 2053 P

APPENDIX

4/13 5154/5155 222 to 247' Extruded
145 to 222 1439 30 1444 20 2053 P



GEOSYNTEC CONSULTANTS
Boynton Beach, Florida



Trail Ridge Landfill, Inc.

Air Pressure Test Log

Sheet No. 19 of 29

Project: Trail Ridge Landfill

Phase: I & II

Project No.: FQ2030

Year: 1992

Location: Jacksonville, Florida

Contractor: National Seal Company

Date (mo/dy)	Seam No.	Seam Segment	Start Time	Initial Pres.	Stop Time	Final Pres.	Oper. I.D.	Pass	Fail	Q.A. I.D.
4-13	S171/S172	87' to 139	0800	29	0805	29	2053	P		CS
4-13	S171/S172	141 to 165	0756	30	0801	30	2053	P		CS
4-13	S171/S172	167' to End	0930	30	0935	29	2054	P		CS
4-13	S173/S172	141 to End	0935	30	0940	30	MH	P		CS
4-13	S172/S173	0' to 139'	0942	30	0947	28	MH	P		CS
4-13	S173/S174	length	1001	30	1006	29	MH	P		CS
4-13	S174/S175	length	1001	26	1006	26	MH	P		CS
4-13	S173/S175	length	1053	30	1057	30	MH	P		CS
4-13	S175/S176	length	1024	30	1029	29	MH	P		CS
4-13	S174/S176	length	1021	30	1026	29	MH	P		CS
4-13	S176/S177	length	1040	30	1045	30	MH	P		CS
4-13	S177/S178	length	1030	30	1035	30	MH	P		CS
4-13	S178/S180	136' TO END	1055	29	1100	29	MH	P		JPR
4-13	S178/S180	51' TO 127'	1103	30	1108	29	MH	P		JPR
4-13	S179/S180	LENGTH	1108	29	1113	29	MH	P		JPR
4-13	S-180/S-181	128' - END	1056	30	1101	30	MH	P		JPR
4-13	S-180/S-181	50' TO 126'	1125	30	1130	30	MH	P		JPR
4-13	S-179/S-181	0 to 49'	1115	32	1120	28	MH	P		JPR
4-13	S-178/S179	0 to 50'	1132	30	1137	28	MH	P		JPR
4-13	S181/S182	200' TO END	1126	29	1131	28	MH	P		JPR
4-13	S181/S182	0 to 137'	1139	30	1144	29	MH	P		JPR
4-13	S182/S183	0 to 135'	1113	30	1118	28	MH	P		JPR
4-13	S182/S184	195' TO END	1129	29	1133	27	MH	P		JPR
4-13	S183/S184	LENGTH	1141	27	1146	26	358	P		JPR
4-13	S181/S182	141 to 196'	1350	30	1355	29	MH	P		CS
4-13	S182/S183	140' to 195'	1422	28	1427	27	MH	P		CS
4-13	S183/S185	0 to 140'	1320	30	1325	26	MH	P		CS
4-13	S-183/S185	143' to 199'	1310	27	1315	27	MH	P		CS
4-13	S184/S185	length	1301	30	1306	27	MH	P		CS
4-13	S185/S186	115' to End	1347	29	1352	28	358	P		CS
4-13	S185/S186	70' to 107'	1410	28	1415	27	MH	P		CS

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4/13 S154/S155 84' to 222'

1430 30

1435 30

2053 P

CS

4/13 S154/S155 0 to 84'

1431 29

1436 28

2053 P

CS

4/13 S168/S169 0 to 142'

0824 30

0829 20

2052 P

CS



GEOSYNTEC CONSULTANTS
Boynton Beach, Florida



Trail Ridge Landfill, Inc.

Air Pressure Test Log

Sheet No. 20 of 29

Project: Trail Ridge Landfill

Phase: _____

Project No.: FQ2030

Year: 1992

Location: Jacksonville, Florida

Contractor: National Seal Company

Date (mo/dy)	Seam No.	Seam Segment	Start Time	Initial Pres.	Stop Time	Final Pres.	Oper. I.D.	Pass	Fail	Q.A. I.D.
4-13	S 185/S 186	0' to 67'	1416	30	1421	29	MH	P		CS
4-13	S186/S187	0 to 138'	1317	30	1322	27	358	P		CS
4-13	S186/S187	142' to 152'	1358	26	1403	25	358	P		CS
4-13	S186/S187	154' to End	1348	30	1353	29	MH	P		CS
4-14	S187/S188	153' to End	1509	30	1514	29	MH	P		CS
4-14	S188/S189	140' to End	1600	30	1605	28	2055	P		CS
4-14	S187/S188	0 to 150'	1606	30	1611	30	2055	P		CS
4-14	S189/S189	0 to 135'	1612	30	1616 ¹⁷	30	2055	P		CS
4-14	S189/S190	140' to end	1617	29	1622	29	2053	P		CS
4-14	S189/S190	0' to 137'	1620	30	1625	30	2053	P		CS
4-14	S190/S191	length	1700	30	1705	29	2053	P		CS
4-14	S191/S192	0' to 139'	1707	30	1712	30	2053	P		CS
4-14	S191/S192	143' to End	1717	29	1722	29	2053	P		CS
4-14	S192/S193	141' to end	1728	30	1732	30	2053	P		CS
4-14	S195/S193	141' to end	1737	30	1742	29	2053	P		CS
4-14	S192/S193	0' to 137	1748	30	1753	30	2053	P		CS
4-14	S193/S194	length	1803	30	1808	30	2055	P		CS
4-14	S194/S195	length	1803	30	1808	13	2055	P		CS
4-15	S195/S196	141' to End (131' to 141' End)	0930	30	0935	30	2053	P		CS
4-15	S194/S196	length	0937	29	0942	29	2053	P		CS
4-15	S196/S197	261' to End	1328	30	1333	30	2055	P		CS
4-15	S196/S197	248' to 261'	1329	29	1334	28	2055	P		CS
4-15	S196/S197	217' to 248'	1330	29	1335	29	2055	P		CS
4-15	S196/S197	142' to 217'	1331	30	1336	29	2055	P		CS
4-15	S196/S197	98' to 142'	1336	29	1341	29	2055	P		CS
4-15	S196/S197	43' to 98'	1340	30	1345	30	2055	P		CS
4-15	S196/S197	9' to 43' (0 to 9' End)	1341	30	1346	29	2055	P		CS
4-15	S197/S198	0' to 290'	1357	30	1402	30	2055	P		CS
4-15	S197/S198	290' to End	1358	30	1403	30	2055	P		CS
4-15	S198/S199	length	1354	30	1359	30	2055	P		CS
4-15	S199/S201	length	1414	30	1419	30	2055	P		CS



GEOSYNTEC CONSULTANTS
Boynton Beach, Florida



Trail Ridge Landfill, Inc.

Air Pressure Test Log

Sheet No. 21 of 29

Project: Trail Ridge Landfill

Phase: I & II

Project No.: FQ2030

Year: 1992

Location: Jacksonville, Florida

Contractor: National Seal Company

Date (mo/dy)	Seam No.	Seam Segment	Start Time	Initial Pres.	Stop Time	Final Pres.	Oper. I.D.	Pass	Fail	Q.A. I.D.
4-15	S199/S200	length	1426	30	1431	30	2055	P		CS
4-15	S200/S201	length	1424	27	1429	26	2055	P		CS
4-15	S200/S202	length	1430	30	1435	30	2055	P		CS
4-15	S201/S202	length	1418	28	1423	28	2055	P		CS
4-15	S202/S203	length	1435	30	1440	30	2055	P		CS
4-15	S203/S205	length	1434	29	1439	29	2053	P		CS
4-15	S204/S205	length	1437	30	1442	29	2053	P		CS
4-15	S203/S204	65' to 276'	1500	30	1505	30	2053	P		CS
4-15	S203/S204	0' to 65'	1452	30	1457	30	2053	P		CS
4-15	S204/S206	length	1510	30	1515	30	2053	P		CS
4-15	S205/S206	length	1445	30	1450	30	2053	P		CS
4-15	S206/S207	length	1514	30	1519	30	2053	P		CS
4-16	P129/P131	146" to end	0844	30	0849	30	2053	P		CS
4-16	P129/P131	101' to 139'	0901	28	0906	28	2055	P		CS
4-16	P129/P130	47' to 101'	0912	29	0917	29	2053	P		CS
4-16	P129/P130	0' to 46'	0913	30	0918	30	2053	P		CS
4-16	P130/P132	length	0914	29	0919	29	2053	P		CS
4-16	P131/P132	101' to 143'	0923	30	0928	30	2053	P		CS
4-16	P131/P132	145' to end	0845	30	0850	30	2053	P		CS
4-16	P132/P133	length	0915	30	0920	30	2055	P		CS
4-16	P133/P135	length	0931	30	0936	29	2053	P		CS
4-16	P134/P133	length	0950	29	0955	29	2053	P		CS
4-16	P134/P136	length	0949	30	0954	30	2053	P		CS
4-16	P135/P136	length 260' to 280'	0945	29	0950	28	2053	P		CS
4-16	P135/P136	280' to end.	0940	29	0945	28	2053	P		CS
4-16	P134/P135	length Extruded								
4-16	P136/P137	length	1005	29	1010	29	2053	P		CS
4-16	P137/P138	length	1014	30	1019	30	2053	P		CS
4-16	P138/P140	length	1021	30	1026	30	2053	P		CS
4-16	P138/P139	length	1034	28	1039	27	2053	P		CS
4-16	P139/P140	length	1037	30	1042	30	2053	P		CS
4-16	P152/153		1443	30	1448	30	2053	P		OK



GEOSYNTEC CONSULTANTS
Boynton Beach, Florida



Trail Ridge Landfill, Inc.

Air Pressure Test Log

Sheet No. 22 of 29

Project: Trail Ridge Landfill

Phase: I & II

Project No.: FQ2030

Year: 1992

Location: Jacksonville, Florida

Contractor: National Seal Company

Date (mo/dy)	Seam No.	Seam Segment	Start Time	Initial Pres.	Stop Time	Final Pres.	Oper. I.D.	Pass	Fail	Q.A. I.D.
4-16	P139/P141	length	1035	29	1040	29	2053	P		CS
4-16	P140/P141	length	1028	30	1033	30	2053	P		CS
4-16	P141/P142	length	1107	30	1112	28	2053	P		CS
4-16	P144/P142	length	1102	28	1107	28	2053	P		CS
4-16	P142/P143	103' to 263'	1115	29	1120	28	2053	P		CS
4-16	P143/P144	length Extruded								
4-16	P142/P143	0' to 101'	1129	29	1134	29	2053	P		CS
4-16	P143/P145	0' to 185'	1128	30	1133	30	2053	P		CS
4-16	P143/P145	185' to 262'	1121	30	1126	29	2053	P		CS
4-16	P144/P145	length	1120	30	1125	29	2053	P		CS
4-16	P145/P146	length	1135	30	1140	30	2053	P		CS
4-16	P146/P147	length	1130	30	1135	30	2053	P		CS
4-16	P147/P148	length	1346	30	1351	30	2053	P		CS
4-16	P147/P148	length	1401	30	1406	29	2053	P		CS
4-16	P148/P149	length	1404	30	1409	29	2053	P		CS
4-16	P148/P150	length	1431	30	1436	30	2053	P		CS
4-16	P149/P150	91' to 146'	1432	30	1437	30	2053	P		CS
4-16	P149/P150	146' to 252'	1441	30	1446	30	2053	P		CS
4-16	P149/P150	252' to 272' Extruded								CS
4-16	P149/P150	272' to End	1347	30	1352	29	2053	P		CS
4-16	P150/P151	length	1414	30	1419	30	2053	P		CS
4-16	P151/P152	length	1415	30	1420	29	2053	P		CS
4-16	P151/P153	length	1442	30	1447	30	2053	P		CS
4-17	S-207/S-208	length	0940	30	0945	30	2055	P		BT
4-17	S-208/S-209	Full Seam	1006	27	1005	26	2055	P		BT
4-17	S-209/S-210	Full Seam	1001	30	1006	30	2055	P		BT
4/17	S-210/S-212	Full Seam	1023	30	1028	30	2055	P		BT
4/17	S-212/S-213	Full Seam	1034	28	1039	28	2055	P		BT
4/17	S-210/S-211	Full Seam	1045	30	1050	29	2055	P		BT
4/17	S-211/S-212	Full Seam	1051	26	1056	26	2055	P		BT



GEOSYNTEC CONSULTANTS
Boynton Beach, Florida



Trail Ridge Landfill, Inc.

Air Pressure Test Log

Sheet No. 23 of 29

Project: Trail Ridge Landfill

Phase: I + II

Project No.: FQ2030

Year: 1992

Location: Jacksonville, Florida

Contractor: National Seal Company

Date (mo/dy)	Seam No.	Seam Segment	Start Time	Initial Pres.	Stop Time	Final Pres.	Oper. I.D.	Pass	Fail	O.A. I.D.
4/17	S-211/S-213	Full Seam	1050	29	1055	29	2055	P		BT
4/17	S-213/S-214	Full Seam	1107	30	1112	30	2055	P		BT
4/17	S-214/S-216	Full Seam	1107	30	1112	30	2055	P		BT
4/17	S-214/S-215	Full Seam	1110	30	1115	30	2055	P		BT
4/17	S-215/S-216	Full Seam	1120	30	1125	28	2055	P		BT
4/17	S-215/S-217	Full Seam	1431	30	1436	30	2053	P		BT
4/17	S-217/S-216	FULL SEAM	1421	29	1426	29	2053	P		BT
4/17	S-217/S-218	FULL SEAM	1432	30	1437	30	2053	P		BT
4/17	S-218/S-219	FULL SEAM	1505	30	1510	30	2053	P		BT
4/17	S-219/S-220	0'-33' from N. End of Panel	1512	30	1517	30	2053	P		BT
4/17	S-219/S-220	33' thru End of Seam	1514	29	1519	29	2053	P		BT
4/17	S-219/S-221	FULL SEAM	1520	30	1520	29	2053	P		BT
4/17	S-220/S-221	FULL SEAM	1520	30	1525	30	2053	P		BT
4/17	S-221/S-222	FULL SEAM	1521	29	1526	29	2053	P		BT
4/17	S-220/S-222	FULL SEAM	1515	30	1518	30	2053	P		
4/18	P-156/P-154	FULL SEAM	0837	30	0842	30	2053	P		BT
4/18	P-155/P-156	FULL SEAM	0850	30	0855	30	2053	P		BT
4/18	P-156/P-157	FULL SEAM	0843	30	0848	29	2053	P		BT
4/18	P-157/P-154	FULL SEAM	0935	30	0940	30	2053	P		BT
4/18	P-154/P-155	17' from S. P. 155 to S. end P-155 ext.								
4/18	P-154/P-155	0 thru 17' from S. end P-155	0917	30	0922	30	2053	P		BT
4/18	P-173/175	FULL SEAM	1413	30	1418	30	2053	P		BT
4/18	P-175/176	FULL SEAM	1412	30	1419	30	2053	P		BT
4/18	P-176/177	0 to 5' from S. END.	1415	30	1420	30	2053	P		BT
4/18	P-177/179	FULL SEAM	1430	29	1435	29	2053	P		BT
4/18	P-178/179	FULL SEAM	1430	28 1/2	1435	28	2053	P		BT
4/18	P-179/180	FULL SEAM	1430	29	1435	29	2053	P		BT
4/18	P-173/172	FULL SEAM	1335	30	1340	30	2053	P		BT
4/18	P-172/174	FULL SEAM	1440	30	1445	30	2053	P		BT
4/18	P-173/174	FULL SEAM	1441	30	1446	30	2053	P		BT



GEOSYNTec CONSULTANTS
Boynton Beach, Florida



Trail Ridge Landfill, Inc.

Air Pressure Test Log PRIMER

Sheet No. 24 of 29

Project: Trail Ridge Landfill

Phase: IB

Project No.: FQ2030

Year: 1992

Location: Jacksonville, Florida

Contractor: National Seal Company

Date (mo/dy)	Seam No.	Seam Segment	Start Time	Initial Pres.	Stop Time	Final Pres.	Oper. I.D.	Pass	Fail	Q.A. I.D.
4/18	P177/178	FULL SEAM	1453	28	1458	28	2053	P		SR
4/18	P178/180	FULL SEAM	1455	28	1500	28	2053	P		SR
4/18	P180/181	FULL SEAM	1457	30	1502	30	2053	P		TR
4/18	P181/182	0 to 10' to 131'	1510	29	1515	27	2053	P		SR
4/18	P181/182	131' to 141'		EXT						TR
4/18	P181/182	141' to END OF SEAM	1508	29	1513	29	2053	P		SR
4/18	P182/183	0 to 83'	1517	30	1522	30	2053	P		TR
4/18	P182/183	133' to 141'		EXT						TR
4/18	P155/157	0 to 130'	0944	30	0949	30	2053	P		TR
4/18	P155/157	130' to 151'		EXT						
4/18	P155/157	151' to END OF SEAM (28')	0915	30	0920	30	2053	P		TR
4/18	P157/158	FULL SEAM	0940	30	0945	30	2055	P		TR
4/18	P158/159	FULL SEAM	0940	30	0945	29	2055	P		TR
4/18	P159/161	FULL SEAM	1000	30	1015	30	2053	P		TR
4/18	P159/160	FULL SEAM	1025	29	1030	29	2053	P		TR
4/18	P160/161	FULL SEAM	1030	28	1035	28	2053	P		TR
4/18	P161/162	FULL SEAM	1003	29	1008	29	2053	P		TR
4/18	P162/163	FULL SEAM	1017	30	1022	30	2053	P		TR
4/18	P160/162	FULL SEAM	1026	29	1031	29	2053	P		TR
4/18	P163/164	FULL SEAM	1020	30	1025	30	2055	P		TR
4/18	P163/165	FULL SEAM	1035	30	1040	30	2053	P		TR
4/18	P164/165	FULL SEAM	1038	30	1043	30	2053	P		TR
4/18	P165/166	FULL SEAM	1046	30	1057	30	2053	P		TR
4/18	P164/166	9' to END OF SEAM	1121	30	1126	30	2055	P		TR
4/18	P166/167	FULL SEAM	1124	30	1129	30	2055	P		TR
4/18	P167/168	FULL SEAM	1124	30	1129	30	2055	P		TR
4/18	P168/169	FULL SEAM	1124	30	1129	30	2053	P		TR
4/18	P169/171	0 to 59'	1325	29	1330	29	2053	P		TR
4/18	P169/171	59' to END OF SEAM	1330	30	1335	30	2053	P		TR
4/18	P169/170	FULL SEAM	1323	30	1328	30	2053	P		TR
4/18	P168/170	FULL SEAM	1140	30	1145	30	2045	P		TR



GEOSYNTec CONSULTANTS
Boynton Beach, Florida



Trail Ridge Landfill, Inc.

Air Pressure Test Log

PRIMARY

Sheet No. 25 of 29

Project: Trail Ridge Landfill

Phase: IB

Project No.: FQ2030

Year: 1992

Location: Jacksonville, Florida

Contractor: National Seal Company

Date (mo/dy)	Seam No.	Seam Segment	Start Time	Initial Pres.	Stop Time	Final Pres.	Oper. I.D.	Pass	Fail	Q.A. I.D.
4/18	P170/171	FULL SEAM	1318	29	1323	29	2053	P		YR
4/18	P171/172	FULL SEAM	1319	30	1324	30	2053	P		YR
4/18	P174/175	FULL SEAM	1337	30	1342	30	2053	P		YR
4/18	P182/183	141' TO END OF SEAM	1531	29	1536	29	2053	P		YR
4/18	P183/184	14' TO END OF SEAM	1537	30	1542	30	2053	P		YR
4/18	P184/185	FULL SEAM	1538	30	1543	30	2053	P		YR
4/18	P183/184	0 TO 14'	1527	30	1532	30	2053	P		YR
4/18	P182/183	83' TO 133'	1520	30	1525	29	2053	P		YR
4/18	P164/166	0 - 9'		EXT						
4/22	P186/187	FULL SEAM	0842	30	0847	30	2053	P		YR
4/22	P187/188	FULL SEAM	0843	30	0848	30	2053	P		YR
4/22	P188/190	FULL SEAM	0904	30	0909	29	2053	P		YR
4/22	P188/189	FULL SEAM	0930	30	0935	30	2053	P		YR
4/22	P189/190	FULL SEAM	0930	30	0935	30	2053	P		YR
4/22	P189/191	FULL SEAM TO END (30)	0930	30	0935	30	2053	P		YR
4/22	P190/191	FULL SEAM	0905	29	0910	29	2053	P		YR
4/22	P191/192	FULL SEAM	0945	30	0950	30	2053	P		YR
4/22	P189/191	0' TO 140'	0931	29	0936	29	2053	P		YR
4/22	P192/193	FULL SEAM	0932	30	0937	30	2053	P		YR
4/22	P193/194	FULL SEAM	1015	30	1020	30	2053	P		YR
4/22	P194/195	FULL SEAM	1016	30	1021	30	2053	P		YR
4/22	P195/196	FULL SEAM	1017	30	1022	30	2053	P		YR
4/22	P196/198	FULL SEAM	1120	30	1125	30	2053	P		YR
4/22	P197/198	FULL SEAM	1131	30	1136	29	2053	P		YR
4/22	P196/197	FULL SEAM	1045	29	1050	29	2053	P		YR
4/22	P198/199	FULL SEAM	1121	29	1126	29	2053	P		YR
4/22	P197/199	0 TO 137	1047	28	1052	28	2053	P		YR
4/22	P197/199	137 TO 141	(YR) EXT		PATCH					YR
4/22	P197/199	141 TO END OF SEAM	1118	30	1123	30	2053	P		YR
4/22	P199/200	FULL SEAM	1307	30	1312	30	2053	P		YR



GEOSYNTec CONSULTANTS
Boynton Beach, Florida



Trail Ridge Landfill, Inc.

Air Pressure Test Log

PRIMARY

Sheet No. *26* of *29*

Project: *Trail Ridge Landfill*

Phase: *1B*

Project No.: *FQ2030*

Year: *1992*

Location: *Jacksonville, Florida*

Contractor: *National Seal Company*

Date (mo/dy)	Seam No.	Seam Segment	Start Time	Initial Pres.	Stop Time	Final Pres.	Oper. I.D.	Pass	Fail	Q.A. I.D.
4/22	P185/186	140' TO END OF SEAM	1110	30	1115	29	2053	P		YR
4/22	P185/186	0' TO 140' REPAIR	1110	30	1115	30	2053	P		YR
4/22	P200/201	FULL SEAM	1308	30	1313	29	2053	P		YR
4/22	P201/203	FULL SEAM	1133	29	1138	29	2053	P		YR
4/22	P202/203	FULL SEAM BUNT		EXT						YR
4/22	P201/202	FULL SEAM	1309	30	1314	30	2053	P		YR
4/22	P202/204	FULL SEAM	1310	29	1315	29	2053	P		YR
4/22	P203/204	FULL SEAM	1133	28	1138	28	2053	P		YR
4/22	P204/205	FULL SEAM	1311	30	1316	30	2053	P		YR
4/22	P205/206	FULL SEAM	1530	30	1535	30	2055	P		YR
4/22	P206/207	FULL SEAM	1550	29	1555	29	2055	P		YR
4/22	P206/208	FULL SEAM	1547	30	1552	30	2055	P		YR
4/22	P207/208	FULL SEAM BUNT		EXT.						
4/22	P207/209	FULL SEAM	1408	30	1413	30	2055	P		YR
4/22	P208/209	FULL SEAM	1407	30	1412	30	2055	P		YR
4/22	P209/210	FULL SEAM	1656	30	1700	30	2053	P		YR
4/22	P210/211	FULL SEAM	1703	30	1708	30	2053	P		YR
4/22	P210/212	FULL SEAM	1648	28	1653	28	2053	P		YR
4/22	P211/212	FULL SEAM	1648	29	1653	29	2053	P		YR
4/22	P211/213	141' TO END OF SEAM	1710	30	1715	30	2055	P		YR
4/22	P212/213	FULL SEAM	1649	30	1654	30	2053	P		YR
4/22	P211/213	131' TO 141'	EXT	EXT						YR
4/22	P211/213	0 TO 131'	1705	30	1710	30	2053	P		YR
4/23	P213/214	FULL SEAM	0846	30	0851	29	2053	P		YR
4/23	P214/215	0 - 5'		EXT						YR
4/23	P214/215	5' TO END OF SEAM	0901	30	0906	30	2053	P		YR
4/23	P215/217	FULL SEAM	0925	30	0930	30	2053	P		YR
4/23	P217/218	FULL SEAM	0930	30	0935	30	2053	P		YR
4/23	P215/216	FULL SEAM	0947	30	0952	30	2053	P		YR
4/23	P216/217	FULL SEAM	0938	30	0943	30	2053	P		YR



GEOSYNTEC CONSULTANTS
Boynton Beach, Florida



Trail Ridge Landfill, Inc.

Air Pressure Test Log

Sheet No. 27 of 29

Project: Trail Ridge Landfill

Phase: 1B

Project No.: FQ2030

Year: 1992

Location: Jacksonville, Florida

Contractor: National Seal Company

Date (mo/dy)	Seam No.	Seam Segment	Start Time	Initial Pres.	Stop Time	Final Pres.	Oper. I.D.	Pass	Fail	Q.A. I.D.
04/23	P216/218	FULL SEAM	0943	29	0948	29	2053	P		OK
04/23	P218/219	FULL SEAM	1031	30	1036	30	2053	P		OK
04/23	P219/220	FULL SEAM	1025	30	1030	30	2053	P		OK
04/23	P219/221	FULL SEAM	1020	30	1025	30	2053	P		OK
04/23	P220/221	FULL SEAM		EXT.						
4/24	S-222/S-223	FULL SEAM	1506	30	1511	30	2053	P.		OK
4/24	S-223/S-224	FULL SEAM	1456	30	1501	30	2053	P.		OK
4/24	S-224/S-225	FULL SEAM	1507	30	1512	30	2053	P.		OK
4/24	S-225/S-227	FULL SEAM	1533	27	1538	27	2053	P.		OK
4/24	S-227/S-228	FULL SEAM	1534	30	1539	30	2053	P.		OK
4/24	S-228/S-227	FULL SEAM	1541	30	1546	30	2053	P.		OK
4/24	S-225/S-226	FULL SEAM	1541	30	1546	30	2053	P.		OK
4/24	S-226/S-228	FULL SEAM	1542	30	1547	30	2053	P.		OK
4/24	S-229/S-230	FULL SEAM	1554	30	1559	30	2053	P.		OK
4/24	S-230/S-231	FULL SEAM	1554	30	1559	30	2053	P.		OK
4/24	S-231/S-232	FULL SEAM	1554	30	1559	30	2053	P.		OK
4/24	S-232/S-233	FULL SEAM	1555	30	1600	30	2053	P.		OK
4/24	S-233/S-234	FULL SEAM	1555	30	1600	30	2053	P.		OK
4/24	S-234/S-235	FULL SEAM	1555	30	1600	30	2053	P.		OK
4/24	S-235/S-236	FULL SEAM	1607	30	1612	30	2053	P.		OK
4/24	S-236/S-237	FULL SEAM	1607	29	1612	28	2053	P.		OK
4/24	S-237/S-238	FULL SEAM	1608	30	1613	30	2053	P.		OK
4/24	S-238/S-239	WEST END TO 33'	1605	30	1610	30	2053	P.		OK
4/24	S-239/S-240	FULL SEAM	1630	30	1635	30	2053	P.		OK
4/24	S-240/S-242	FULL SEAM	1630	29	1635	29	2053	P.		OK
4/24	S-242/S-243	FULL SEAM	1631	30	1636	30	2053	P.		OK
4/24	S-243/S-244	FULL SEAM	1631	30	1636	30	2053	P.		OK
4/24	S-244/S-245	FULL SEAM	1658	30	1703	30	2053	P.		OK
4/24	S-245/S-246	FULL SEAM	1658	30	1703	30	2053	P.		OK
4/24	S-246/S-247	FULL SEAM	1659	30	1702	30	2053	P.		OK
4/24	S-240/S-241	FULL SEAM	1631	30	1636	30	2053	P.		OK



GEOSYNTEC CONSULTANTS
Boynton Beach, Florida



Trail Ridge Landfill, Inc.

Air Pressure Test Log

Sheet No. 28 of 29

Project: Trail Ridge Landfill Phase: _____
Project No.: FQ2030 Year: 1992
Location: Jacksonville, Florida Contractor: National Seal Company

Date (mo/dy)	Seam No.	Seam Segment	Start Time	Initial Pres.	Stop Time	Final Pres.	Oper. I.D.	Pass	Fail	Q.A. I.D.
4/24	S-238/239	33' TO EAST END	1606	30	1611	30	2053	P.		BT
4/24	S-247/248	FULL SEAM	1657	30	1702	30	2053	P.		BT
4/24	S-248/250	FULL SEAM	1657	30	1702	30	2053	P.		BT
4/24	S-248/249	FULL SEAM	1704	30	1709	30	2053	P.		BT
4/24	S-249/250	FULL SEAM	1705	30	1710	30	2053	P.		BT
APR 27	P-221/P-222	FULL SEAM	1549	30	1554	30	2053	P		BT
APR 27	P-220/P-222	40' to South End of Seam 0' to 40' Extruded	1550	29	1555	28	2053	P		BT
APR 27	P-222/P-223	FULL SEAM	1640	30	1645	30	2053	P		BT
APR 27	P-223/P-224	FULL SEAM	1628	30	1633	30	2053	P		BT
APR 27	P-224/P-225	FULL SEAM	1640	30	1646	30	2053	P		BT
APR 27	P-225/P-226	FULL SEAM	1702	28	1707	28	2075	P		BT
APR 27	P-225/P-227	FULL SEAM	1657	30	1702	30	2075	P		BT
APR 27	P-226/P-227	FULL SEAM	1655	30	1700	30	2075	P		BT
APR 27	P-226/P-228	FULL SEAM	1658	30	1703	29	2075	P		BT
APR 27	P-227/P-228	FULL SEAM	1720	32	1725	32	2075	P		BT
APR 27	P-228/P-229	FULL SEAM	1731	27	1736	27	2075	P		BT
APR 27	P-231/P-232	FULL SEAM	1744	27	1749	27	2075	P		BT
APR 27	P-232/P-233	FULL SEAM	1748	29	1753	27	2075	P		BT
APR 27	P-233/P-234	FULL SEAM	1750	30	1755	29	2075	P		BT
APR 27	P-234/P-235	FULL SEAM	1758	29	1803	27	2075	P		BT
APR 27	P-235/P-236	FULL SEAM	1759	28	1804	26	2075	P		BT
APR 27	P-236/P-237	FULL SEAM	1806	29	1811	28	2075	P		BT
APR 27	P-237/P-238	FULL SEAM	1812	29	1817	27	2075	P		BT
APR 27	P-228/P-229	FULL SEAM (BT)								
APR 28	P-239/P-240	FULL SEAM	0811	25	0816	25	2078	P		BT
APR 28	P-240/P-241	0' to 12' from East End	0814	30	0819	29	2078	P		BT
APR 28	P-240/P-241	12' to West End of seam	0815	30	0820	29	2078	P		BT
APR 28	P-241/P-242	FULL SEAM	0834	30	0839	30	2078	P		BT



GEOSYNTEC CONSULTANTS
Boynton Beach, Florida



Trail Ridge Landfill, Inc.

Air Pressure Test Log

Sheet No. 29 of 29

Project: Trail Ridge Landfill

Phase: I + II

Project No.: FQ2030

Year: 1992

Location: Jacksonville, Florida

Contractor: National Seal Company

Date (mo/dy)	Seam No.	Seam Segment	Start Time	Initial Pres.	Stop Time	Final Pres.	Oper. I.D.	Pass	Fail	Q.A. I.D.
APR 28	P-242/P-243	FULL SEAM	0836	30	0841	28	2078	P		BT
APR 28	P-243/P-244	0' to 64' from E. end	0837	30	0842	28	2078	P		BT
APR 28	P-244/P-246	FULL SEAM	0839	28	0849	26	2078	P		BT
APR 28	P-245/P-246	FULL SEAM	0846	30	0851	28	2078	P		BT
APR 28	P-245/P-243	FULL SEAM	0845	30	0850	28	2078	P		BT
APR 28	P-246/P-247	FULL SEAM	0847	30	0852	30	2078	P		BT
APR 28	P-229/P-230	141' to S. end of end of seam	0910	30	0915	28	2078	P		BT
APR 28	P-229/P-230	141' to 0'	0945	30	0950	30	2078	P		BT
APR 28	P-230/P-231 from P-230	From East end North of Jump Cross Seam	0946	20	0951	29	2078	P		BT
APR 28	P-230/P-231	Cross seam Full SEAM	1030	32	1035	32	2057	P		BT
APR 28	P-230/P-232	Cross seam Full SEAM	1031	33	1036	31	2057	P		BT
APR 28	P-230/P-233	Cross Seam Full SEAM	1038	32	1043	31	2057	P		BT
APR 28	P-230/P-235	Cross Seam Full SEAM	1103	30	1108	28	2078	P		BT
APR 28	P-230/P-236	Cross Seam Full SEAM	1110	Leaked right away.			Both		F	BT
APR 28	P-230/P-237	Cross Seam Full Seam	1111	Seams extruded.					F	BT
APR 28	P-230/P-238	Cross Seam Full Seam	1120	30	1125	28	2078	P		BT
MAY 1	P-248/P-249 P-250/P-251	FULL SEAM	0828	30	0833	29	2036	P		JR
MAY 1	P-250/P-251 P-250/P-251	FULL SEAM	0850	28	0855	28	2053	P		JR
MAY 1	P-231/248	FULL SEAM (EXT)								JR
MAY 1	P-249/250	JD								
MAY 1	P-230/248	FULL SEAM (EXT)								JR
MAY 1	P-247/251	FULL SEAM (EXT)								JR
MAY 1	P-249/252	FULL SEAM (EXT)								JR
MAY 1	P-250/252	FULL SEAM (EXT)								JR
MAY 1	P-249/230	FULL SEAM (EXT)								JR
MAY 1	P-252/230	FULL SEAM (EXT)								JR
MAY 1	P-251/230	FULL SEAM (EXT)								JR
MAY 1	P-250/230	FULL SEAM (EXT)								JR
MAY 1	P-251/252	JD								JR

APPENDIX N

REPAIR SUMMARY LOGS

SECONDARY GEOMEMBRANE LINER



GEOSYNTEC CONSULTANTS
Boynton Beach, Florida



Trail Ridge Landfill, Inc.

Repair Summary Log

Sheet No.: 1 of 45

Project: Trail Ridge Landfill

Project No.: FQ2030

Phase: I & II

Location: Jacksonville, Florida

Contractor: National Seal Company

Year: 1992

Date Repaired (mo/dy)	Seam or Panel No.	Location	Repair			Oper. I.D.	Mach. No.	Q.A. I.D.	Non-Destructive Testing				
			No.	Code (1)	Type (2)				Dim.	Date (mo/dy)	Oper. I.D.	Pass	Fail
MAR 13	S1/S2	4' from east wall	SR 1	P	E	1'x1.5'	G 15	TCB	MAR 14	2003	P		TCB
"	S2/S3	5' from east wall	SR 2	P	E	1'x1	G 15	TCB	MAR 14	2003	P		TCB
"	S3/S4	east end of seam at wall	SR 3	P	E	3'x4.5'	G 15	TCB	MAR 14	2003	P		TCB
"	S3/S4	5' from east wall	SR 4	P	E	1.5'x1.5'	G 15	TCB	MAR 14	2003	P		TCB
"	S4/S5	4.5' from east wall	SR 5	P	E	1.5'x1.5'	G 15	TCB	MAR 14	2003	P		TCB
"	S5/S6	5' from east wall	SR 6	P	E	1.5'x1.5'	G 15	TCB	MAR 14	2003	P		TCB
"	S4/S5	50' from east wall	SR 7	P	E	1'x1'	G 15	TCB	MAR 14	2003	P		TCB
"	S1/S2	46' from east wall	SR 8	P	E	1'x1'	G 15	TCB	MAR 14	2003	P		TCB
"	S1/S2	81' from east wall	SR 9	P	E	1'x1	G 15	TCB	MAR 14	2003	P		TCB
"	S1/S2	115' from east wall	SR 10	P	E	2'x5'	G 15	TCB	MAR 14	2003	P		TCB
"	S3/S4	124' from east wall	SR 11	P	E	1'x1	G 15	TCB	MAR 14	2003	P		TCB
"	S3/S4	seam extruded 125' to 136'	SR 12	E	E	—	G 15	TCB	MAR 14	2003	P		TCB
MAR 14	S3/S4	DS-5-1 111' from east wall	SR 13	P	E	2'x5'	G 15	TCB	MAR 14	2003	P		TCB
"	S4/S5	133' from east wall	SR 14	P	E	1'x1'	G 15	TCB	MAR 14	2003	P		TCB
"	S4/S5	seam extruded 133' to 144'	SR 15	E	E	—	G 15	TCB	MAR 14	2003	P		TCB
"	S4/S5	109' from east wall	SR 16	P	E	2'x4'	G 8	TCB	MAR 14	2003	P		TCB
"	S4/S5	seam extruded 0' to 4.5'	SR 17	E	E	—	G 15	TCB	MAR 14	2003	P		TCB
MAR 14	S5/S6	seam extruded 0' to 5'	SR 18	E	E	—	G 15	TCB	MAR 14	2003	P		TCB
"	S6/S7	4' from east wall	SR 19	P	E	1'x1'	G 15	TCB	MAR 14	2003	P		TCB

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Notes: (1) Repair Codes: P = Patch E = Extrusion
(2) Repair Types: C = Cap F = Fusion

G = Grind & Weld DS = Destructive Sample R = Reconstruction



GEOSYNTEC CONSULTANTS
Boynton Beach, Florida



Trail Ridge Landfill, Inc.

Repair Summary Log

Sheet No.: 2 of

Project: Trail Ridge Landfill

Project No.: FQ2030

Phase: I & II

Location: Jacksonville, Florida

Contractor: National Seal Company

Year: 1992

Date Repaired (mo/dy)	Seam or Panel No.	Location	Repair			Oper. I.D.	Mach. No.	Q.A. I.D.	Non-Destructive Testing			
			No.	Code (1)	Type (2)				Dim.	Date (mo/dy)	Oper. I.D.	Pass Fail
MAR 14	56 / 57	seam extruded 0' to 4'	SR 20	E	E	—	G 15	TCB	MAR 14	2003	P	TCB
"	55 / 56	106' from east end	SR 21	P	E	1'X1'	G 8	TCB	MAR 14	2003	P	TCB
"	56 / 57	116' from east end	SR 22	P	E	2'X5'	G 8	TCB	MAR 14	2003	P	TCB
"	57 / 59	107' from east end	SR 23	P	E	1'X1'	G 8	TCB	MAR 14	2003	P	TCB
"	57 / 59	seam extruded 99' to 107'	SR 24	E	E	—	G 8	TCB	MAR 14	2003	P	TCB
"	57 / 58 / 59	99' Patch at intersection	SR 25	P	E	1'X1'	G 8	TCB	MAR 14	2003	P	TCB
"	58 / 59 / 510	98' Patch at intersection	SR 26	P	E	1'X1	G 8	TCB	MAR 14	2003	P	TCB
"	58 / 510	95-5-2 20' from east wall	SR 27	P	E	2'X5'	G 15	TCB	MAR 14	2003	P	TCB
"	58 / 510	3' from east wall	SR 28	P	E	1'X1'	G 15	TCB	MAR 14	2003	P	TCB
"	58 / 510	seam extruded 0' to 3'	SR 29	E	E	—	G 15	TCB	MAR 14	2003	P	TCB
"	512 / 513	142' from east end	SR 30	P	E	1'X1'	G 8	TCB	MAR 14	2003	P	TCB
"	512 / 513	seam extruded 142' to 159'	SR 31	E	E	—	G 8	TCB	MAR 14	2003	P	TCB
"	513 / 514	95-5-3 71' from east end	SR 32	P	E	2'X5'	G 8	TCB	MAR 14	2003	P	TCB
"	515 / 516 / 517	102' Patch at intersection	SR 33	P	E	1'X1'	G 8	TCB	MAR 14	2003	P	TCB
"	516 / 517 / 518	102' Patch at intersection	SR 34	P	E	1'X1	G 8	TCB	MAR 14	2003	P	TCB
"	52 / 53	seam extruded 0' to 5'	SR 35	E	E	—	G 15	TCB	MAR 14	2003	P	TCB
"	51 / 52	seam extruded 0' to 4'	SR 36	E	E	—	G 15	TCB	MAR 14	2003	P	TCB
"	54	46' from seam 34 / 55 46' from east wall	SR 37	P	E	1'X1	G 8	TCB	MAR 14	2003	P	TCB
MAR 13	51 / 52	seam extruded 81' to 113'	SR 38	E	E	—	G 15	TCB	MAR 14	2003	P	TCB

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Notes: (1) Repair Codes: P = Patch C = Cap
(2) Repair Types: E = Extrusion F = Fusion

DS = Destructive Sample

R = Reconstruction

REPAIRS



GEOSYNTEC CONSULTANTS
Boynton Beach, Florida



Trail Ridge Landfill, Inc.

Repair Summary Log

Sheet No.: 3 of

Project: Trail Ridge Landfill

Project No.: FQ2030

Phase: I & II

Location: Jacksonville, Florida

Contractor: National Seal Company

Year: 1992

Date Repaired (mo/dy)	Seam or Panel No.	Location	Repair			Oper. I.D.	Mach. No.	Q.A. I.D.	Non-Destructive Testing				
			No.	Code (1)	Type (2)				Dim.	Date (mo/dy)	Oper. I.D.	Pass	Fail
MAR 14	510/511	4' from east wall	SR 39	P	E	1X1	G 8	TCB	MAR 14	2003	P		TCB
"	510/511	seam extruded 0' to 4'	SR 40	E	E	—	G 8	TCB	MAR 14	2003	P		TCB
"	517/518	4' from east wall	SR 41	P	E	1X1	G 8	TCB	MAR 14	2003	P		TCB
"	517/518	seam extruded 0' to 4'	SR 42	E	E	—	G 8	TCB	MAR 14	2003	P		TCB
"	511/512	3' from east wall	SR 43	P	E	1X1'	G 8	TCB	MAR 14	2003	P		TCB
"	511/512	seam extruded 0' to 3'	SR 44	E	E	—	G 8	TCB	MAR 14	2003	P		TCB
"	512/513	3' from east wall	SR 45	P	E	1X1'	G 8	TCB	MAR 14	2003	P		TCB
"	512/513	seam extruded 0' to 3'	SR 46	E	E	—	G 8	TCB	MAR 14	2003	P		TCB
"	5-8	58' from east end 5' from seam 58/510	SR 47	G	E	—	G 8	TCB	MAR 14	2003	P		TCB
MAR 17	5-19	6' from N. End of Panel 1' from seam 519/521	SR 48	P	E	1X1	G 15	TCB	MAR 17	2068	P		TCB
"	519	9' from N. End of Panel 1' from seam 519/521	SR 49	G	E	—	G 15	TCB	MAR 17	2068	P		TCB
"	519	83' from N. End of seam 1' from seam 519/521	SR 50	P	E	1X1	G 15	TCB	MAR 17	2068	P		TCB
"	519/522	519/522/521 intrusion	SR 51	P	E	1X1	G 15	TCB	MAR 17	2068	P		TCB
MAR 16	521/522	both seam extruded	SR 52	E	E	—	G 8	TCB	MAR 17	2027	P		TCB
MAR 17	5-19	3' from seam 521/519 136' from N. End of panel	SR 53	P	E	25X25	G 15	TCB	MAR 17	2027	P		TCB
MAR 16	519/520/5-22	Intersection of Panel 1	SR 54	P	E	1X1	G 8	TCB	MAR 17	2027	P		TCB
MAR 17	520/522	321' from N. End of 4	SR 55	P	E	2X5'	G 15	TCB	MAR 17	2027	P		TCB
MAR 16	521/522/523	patch at intrusion	SR 56	P	E	1X1.5	G 8	TCB	MAR 17	2027	P		TCB
MAR 17	521/523	46' from N. End of 5	SR 57	P	E	2X5'	G 15	TCB	MAR 17	2027	P		TCB



GEOSYNTEC CONSULTANTS
Boynton Beach, Florida



Trail Ridge Landfill, Inc.

Repair Summary Log

Sheet No.: 4 of

Project: Trail Ridge Landfill

Project No.: FQ2030

Phase: I & II

Location: Jacksonville, Florida

Contractor: National Seal Company

Year: 1992

Date Repaired (mo/dy)	Seam or Panel No.	Location	Repair			Oper. I.D.	Mach. No.	Q.A. I.D.	Non-Destructive Testing					
			No.	Code (1)	Type (2)				Dim.	Date (mo/dy)	Oper. I.D.	Pass	Fail	Q.A. I.D.
MAR 17	523/524	178' from N. End DS 6	SR 58	P	E	2 X 5'	2027	G 15	TCB	MAR 17	2027	P		TCB
"	524	226' from N. End DS 6	SR 59	G	E	—	2027	G 15	TCB	MAR 17	2027	P		TCB
"	524	5' from Seam 524/526	SR 60	G	E	—	2027	G 15	TCB	MAR 17	2027	P		TCB
"	524/525/526	129' from N. End DS 6	SR 61	E	E	—	2027	G 15	TCB	MAR 17	2027	P		TCB
"	524	"T" at intersection DS 2	SR 62	G	E	—	2027	G 15	TCB	MAR 17	2027	P		TCB
"	525/526/527	52' from N. End DS 3	SR 63	E	E	—	2027	G 15	TCB	MAR 17	2027	P		TCB
"	525/526	"T" at intersection DS 3	SR 64	P	E	1 X 1	2027	G 15	TCB	MAR 17	2027	P		TCB
"	525	2' from Seam 525/527	SR 65	G	E	—	2027	G 15	TCB	MAR 17	2027	P		TCB
"	528	76' from N. End of DS 1	SR 66	P	E	1 X 1	2027	G 15	JG	MAR 17	2027	P		JG
MAR 17	527/528	108' from N. End of DS 8	SR 67	P	E	3 X 5'	2027	G 15	TCB	MAR 17	2027	P		TCB
"	527	101' from N. End of DS 8	SR 68	G	E	—	2027	G 15	TCB	MAR 17	2027	P		TCB
"	527/528	4' from Seam 527/528	SR 69	E	E	—	2027	G 15	TCB	MAR 17	2027	P		TCB
"	528/529	Seam extended 221 to 240'	SR 70	P	E	2 X 5'	2027	G 15	TCB	MAR 17	2027	P		TCB
"	529/530	297' from N. End DS 7	SR 71	P	E	2 X 5'	2027	G 15	TCB	MAR 17	2027	P		TCB
"	530/531/532	208' from N. End DS 9	SR 72	P	E	2 X 5'	2027	G 15	TCB	MAR 17	2027	P		TCB
"	531/532/533	354' from N. End DS 10	SR 73	E	E	—	2027	G 15	TCB	MAR 17	2027	P		TCB
"	531/532	"T" at intersection DS 11	SR 74	E	E	—	2027	G 15	TCB	MAR 17	2027	P		TCB
"	532	"T" at intersection DS 11	SR 75	P	E	2 X 5'	2027	G 15	TCB	MAR 17	2027	P		JG
"	532	3' from Seam 531/532/533	SR 76	G	E	—	2027	G 15	TCB	MAR 17	2027	P		JG

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Notes: (1) Repair Codes: P = Patch C = Cap G = Grind & Weld DS = Destructive Sample R = Reconstruction T = Topping
(2) Repair Types: E = Extrusion F = Fusion



GEOSYNTEC CONSULTANTS
Boynton Beach, Florida



Trail Ridge Landfill, Inc.

Repair Summary Log

Sheet No. 5 of 5

Project: Trail Ridge Landfill

Project No.: FQ2030

Phase: I & II

Location: Jacksonville, Florida

Contractor: National Seal Company

Year: 1992

Date Repaired (mo/dy)	Seam or Panel No.	Location	Repair			Oper. I.D.	Mach. No.	Q.A. I.D.	Non-Destructive Testing			
			No.	Code (1)	Type (2)				Dim.	Date (mo/dy)	Oper. I.D.	Pass Fail
MAR 17	533/534	121' from N. End of S13	SR 77	P	E	2'x5'	G-15	TCS	MAR. 17	2068	P	JS
"	534/536	253' from N. End of S14	SR 78	P	E	2'x5'	G-15	TCS	MAR. 17	2068	P	JS
"	534/536/537	"T" at intersection	SR 79	E	E	-	G-15	TCS	MAR. 17	2068	P	JS
"	535/537	7' from N. End	SR 80	P	E	3'x6'	G-15	TCS	MAR. 17	2068	P	JS
"	535/536/537	"T" at intersection	SR 81	E	E	-	G-15	TCS	MAR. 17	2068	P	JS
"	536/537	302' from N. End of S15	SR 82	P	E	2'x5'	G-15	TCS	MAR. 17	2068	P	JS
"	537/538	193' from N. End of S16	SR 83	P	E	2'x5'	G-15	TCS	MAR. 17	2068	P	JS
"	538/539	32' from N. End of S14	SR 84	P	E	1.5'x3'	G-15	TCS	MAR. 17	2068	P	JS
"	538/539/540	"T" at intersection	SR 85	E	E	-	G-15	TCS	MAR. 17	2068	P	JS
"	538/540	346' from N. End of S17	SR 86	P	E	2'x5'	G-15	TCS	MAR. 17	2068	P	JS
"	539/540/541	Patch at intersection	SR 87	P	E	2'x2'	G-15	TCS	MAR. 17	2068	P	JS
"	534	6' - 187'	SR 88	G	E	-	G-15	T.K.	MAR. 17	2068	P	JS
"	537/538	0' to 19'	SR 89	P	E	4'x19'	G-15	T.K.	3-19-92	2069	P	T.K.
"	537	148' + 3' west	SR 90	P	E	2'x3'	G-15	T.K.	3-19	2019	P	T.K.
MAR 18	533	6' + 5' west of S14	SR 91	G	E	-	G-17	T.K.	3-19-92	2019	P	T.K.
MAR 18	533	2320' + 4' west of S34	SR 92	G	E	-	G-17	T.K.	3-19	2017	P	T.K.
MAR 17	531/5-33	23' to 0' 0' S-12	SR 93A	P	E	2'x5'	G-15	T.K.	3-19	2018	P	JS
MAR 17	539/5-41	130' S. from 0'	SR 93B	P	E	2'x5'	G-15	T.K.	3-19	2018	P	JS

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Notes: (1) Repair Codes:
(2) Repair Types:

P = Patch C = Cap
E = Extrusion F = Fusion

DS = Destructive Sample

R = Reconstruction

T = Topping

REPAIRS



GEO SYNTec CONSULTANTS
Boynton Beach, Florida



Trail Ridge Landfill, Inc.

Repair Summary Log

Sheet No.: 6 of

Project: Trail Ridge Landfill

Project No.: FQ2030

Phase: I Add IV

Location: Jacksonville, Florida

Contractor: National Seal Company

Year: 1992

Date Repaired (mo/dy)	Seam or Panel No.	Location	Repair		Oper. I.D.	Mach. No.	Q.A. I.D.	Non-Destructive Testing		
			No.	Code (1)	Type (2)	Dim.		Date (mo/dy)	Oper. I.D.	Pass Fail
MAR 18	541/42	80'S.O.F.O'	SR 93	P	E	2x2	6415	MAR 19	2019	P
MAR 18	541/42	87 TO 94'S.O.F.O'	SR 94	R	E		6415	MAR 19	2019	P
MAR 18	541	86 TO 95'S. FROM SR 93 TO SR 96	SR 95	G	E		6415	MAR 19	2019	P
MAR 18	541	95'S.O.F.O' 10' W.O.F.S-42	SR 96	P	E	1x2	6415	MAR 19	2019	P
MAR 18	S-42/S-43	316'S.O.F.O' EXT TO 325'	SR 97	P	E	9x3	6408	MAR 19	2067	P
MAR 18	S-43	328'S.O.F.O' 2'E.O.S-42	SR 98	G	E		6408	MAR 19	2067	P
MAR 19	S-41/S-42	294'S.O.F.O'	SR 99	P/S-SR	E	2x4	6408	MAR 19	2067	P
MAR 18	S-42/S-43	262'S.O.F.O'	S-R100	P	E	3x4	6408	MAR 19	2067	P
MAR 19	S-42/S-43	222'S.O.F.O'	SR 101	P/S-S20	E	2x5	6408	MAR 19	2019	P
MAR 18	S-42/S-43	196'S.O.F.O'	SR 102	P	E	2x4	6415	MAR 19	2019	P
MAR 19	S-41/S-42	284'S.O.F.O'	SR 103	G	E		6408	MAR 19	2019	P
MAR 18	S-41/S-42	202'S.O.F.O' 6.5' TO 45'	SR 104	P	E	4x4	6415	MAR 19	2019	P
MAR 18	S-42/S-43	135'S.O.F.O'	SR 105	P	E	3x4	6415	MAR 19	2019	P
MAR 18	S-42/S-43	70 TO 78'S.O.F.O'	SR 106	R	E		6415	MAR 19	2067	P
MAR 19	S-43/S-44	92'S.O.F.O'	SR 107	P/S-S21	E	2x4	6408	MAR 19	2019	P
MAR 19	S-44/S-45	321'S.O.F.O' 2' W.O.F.S-46	SR 108	P	E	1x1	6408	MAR 19	2019	P
MAR 18	S-45/S-46	320'S.O.F.O'	SR 109	G	E		6408	MAR 19	2019	P
MAR 18	S-45/S-46	322'S.O.F.O'	SR 110	G	E		6415	MAR 19	2019	P
MAR 18	S-44/S-45	195'S.O.F.O'	SR 111	P	E	2x2	6415	MAR 19	2019	P

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Notes: (1) Repair Codes: P = Patch E = Extrusion
(2) Repair Types: C = Cap F = Fusion

G = Grind & Weld DS = Destructive Sample R = Reconstruction

REPARADUE



GEOSYNTEC CONSULTANTS
Boynton Beach, Florida



Trail Ridge Landfill, Inc.

Repair Summary Log

Sheet No. 7 of 7

Project: Trail Ridge Landfill

Project No.: FQ2030

Phase: IV

Location: Jacksonville, Florida

Contractor: National Seal Company

Year: 1992

Date Repaired (mo/dy)	Seam or Panel No.	Location	Repair			Oper. I.D.	Mach. No.	Q.A. I.D.	Non-Destructive Testing		
			No.	Code (1)	Type (2)				Date (mo/dy)	Oper. I.D.	Pass Fail
MAR 19	S-45/S-47	22' SOUTH OF O'	SR-112	DS-22	E	2x4'	2010	6#8	MAR 19	2036	P
MAR 18	S-47/S-48	310' SOUTH OF O'	SR-113	P	E	141'	2027	6#15	MAR 19	2067	P
MAR 18	S-47/S-48	192' SOUTH OF O'	SR-114	P	E	141'	2027	6#15	MAR 19	2086	P
MAR 19	S-47/S-48	104' SOUTH OF O'	SR-115	DS-23	E	2x5'	2010	6#8	MAR 19	2036	P
MAR 18	S-47/S-48	18' S. OF O'	SR-116	P	E	141'	2027	6#15	MAR 19	2087	P
MAR 18	S-47/S-48	O' TO 18' SOUTH OF O'	SR-117	R	E		2027	6#15	MAR 19	2067	P
MAR 19	S-48/S-49	268' SOUTH OF O'	SR-118	P	E	2x2	2010	6#8	MAR 19	2036	P
MAR 19	S-48/S-49	315' SOUTH OF O'	SR-119	G	E		2010	6#8	MAR 19	2036	P
3-20	S-33/S-34	132' SOUTH OF O' EXT TO SR-77	SR-120	DS-138	E	2x5' 4"	2048	G-#15	3-20	2036	P
3-20	S-33/S-34	103' SOUTH OF O' EXT TO SR-77	SR-121	DS-134	E	2x5' 4"	2048	G-#15	3-20	2036	P
3-20	S-37/S-38	174' SOUTH OF O' EXT TO SR-83	SR-122	DS-16A	E	2x5' 4"	2048	G-#15	3-20	2036	P
3-20	S-37/S-38	212' SOUTH OF O' EXT TO SR-83	SR-123	DS-16B	E	2x5' 4"	2048	G-#15	3-20	2036	P
3-20	S-41/S-42	192' S. OF O' CAP TO DS-134	SR-124	DS-19A	E	2x5' 4"	2037	G-#8	3-20	2027	P
3-20	S-41/S-42	319' S. OF O' CAP TO DS-19	SR-125	DS-19B	E	2x5' 4"	2037	G-#8	3-20	2027	P
3-20	S-42/CAP	265' S. OF O'	SR-126	DS-19CAP	E	2x5'	2037	G-#8	3-20	2027	P
3-20	S-31	268' S. OF O' 2' W. OF S-30	SR-127	G	E	-	2037	G-#8	3-20	2027	P
3-20	S-20/S-23	SEAMS CUT & CAPPED TO 220' TO 249' TO O'	SR-128	DS-24	E	2x5'	2035	G-#15	3-20	2036	P
3-20	S-24/CAP	6' FROM S. CORNER OF CAP ON P24	SR-129	DS-24	E	2x5'	2035	G-#15	3-20	2036	P

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Notes: (1) Repair Codes: P = Patch Extrusion E = Fusion (2) Repair Types: DS = Destructive Sample R = Reconstruction T = Topping

REPAIR LOG



GEOSYNTEC CONSULTANTS
Boynton Beach, Florida



Trail Ridge Landfill, Inc.

(SECONDARY)

Repair Summary Log

Sheet No.: 8 of

Project: Trail Ridge Landfill

Project No.: FQ2030

Phase: I & II

Location: Jacksonville, Florida

Contractor: National Seal Company

Year: 1992

Date Repaired (mo/dy)	Seam or Panel No.	Location	Repair				Oper. I.D.	Mach. No.	Q.A. I.D.	Non-Destructive Testing			
			No.	Code (1)	Type (2)	Dim.				Date (mo/dy)	Oper. I.D.	Pass	Fail
3-21	5-23/CAP	CAP FROM D/S #24-A to D/S #24-B	#129	C	E	-	#2037	G-#15	3-21	2048	Pass	-	J.K.
3-21	D/S #13-B-1	147' to 0' EXT. N. to D/S #13-B	#130	P & G	E	P-2'x5'	#2037	G-#15	3-21	2048	Pass	-	J.K.
3-21	P #49/50/52	316' to 0'	#131	P	E	1'x1'	#2037	G-#15	3-23	2048	Pass	-	J.K.
3-21	S/m #52/53	300' to 0'	#132	P	E	1'x8'	#2037	G-#15	3-23	2048	Pass	-	J.K.
3-21	P #52	300' to 0' + 2' W. OF S/m #52/53	#133	P	E	1'x5'	#2037	G-#15	3-23	2048	Pass	-	J.K.
3-21	P #52	BETWEEN S.R. #132 & S.R. #133	#134	G	E	-	#2037	G-#15	3-23	2048	Pass	-	J.K.
3-21	S/m #53/55	303' to 0'	#135	P	E	5'x6'	#2037	G-#15	3-23	2048	Pass	-	J.K.
3-21	P #54/57/58	T. 352' to 0'	#136	G	E	-	#2037	G-#15	3-23	2048	Pass	-	J.K.
3-21	P #57/58/59	T. - 352' to 0'	#137	G	E	-	#2037	G-#15	3-23	2048	Pass	-	J.K.
3-21	S/m #55/56	228' to 0'	#138	P	E	4'x4'	#2037	G-#15	3-23	2048	Pass	-	J.K.
3-21	S/m #55/56	137' to 0'	#139	P	E	2'x4'	#2037	G-#15	3-23	2048	Pass	-	J.K.
3-21	S/m #56/57	47' to 0'	#140	P	E	2'x5'	#2037	G-#15	3-23	2048	Pass	-	J.K.
3-21	S/m #57/58	EXT. FULL SCAM - 352' to 0'	#141	G	E	-	#2037	G-#15	3-23	2048	Pass	-	J.K.
3-21	P #53	3'x15' ADD. ON SKIRT S. END OF PANEL #5-53	#142	P	E	3'x15'	#2037	G-#15	3-23	2048	Pass	-	J.K.
3-21	P #57/59/60	4'x22' ADD. ON SKIRT N. END OF P-#57, 59, 60.	#143	P	E	4'x22'	#2037	G-#15	3-23	2048	Pass	-	J.K.
3-21	S/m #61/63	218' to 0'	#144	P	E	2'x5'	#2037	G-#15	3-23	2048	Pass	-	J.K.
3-21	S/m #63/64	220' to 0'	#145	P	E	3'x5'	#2037	G-#15	3-23	2048	Pass	-	J.K.
3-23	S/m #64/162	T. 279' to 0'	#146	G	E	-	#2037	G-#15	3-23	2048	Pass	-	J.K.
3-23	S/m #61/62/63	T. 279' to 0	#147	G	E	-	#2037	G-#15	3-23	2048	Pass	-	J.K.

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Notes: (1) Repair Codes:
(2) Repair Types:

P = Patch
E = Extrusion
F = Fusion

G = Grind & Weld

DS = Destructive Sample

R = Reconstruction



GEOSYNTEC CONSULTANTS
Boynton Beach, Florida



Trail Ridge Landfill, Inc.

SECONDARY

Repair Summary Log

Sheet No.: 9 of

Project: Trail Ridge Landfill

Project No.: F02030

Phase: I & II

Location: Jacksonville, Florida

Contractor: National Seal Company

Year: 1992

Date Repaired (mo/dy)	Seam or Panel No.	Location	Repair			Oper. I.D.	Mach. No.	Q.A. I.D.	Non-Destructive Testing					
			No.	Code (1)	Type (2)				Dim.	Date (mo/dy)	Oper. I.D.	Pass	Fail	Q.A. I.D.
3-23	S/m. 61/62	EXT. FULL SEAM-279'	#148	G.	E.	-	#2036	G-#18	J.K.	3-23	2048	PASS	-	J.K.
3-23	S/m. 60/62	RECON.-279' to 291'	#149	G.	E.	-	#2037	G-#15	J.K.	3-23	2048	PASS	-	J.K.
3-23	S/m. 52/53	D/S #5-26 - 205'	#150	P.	E.	2'x5'	#2036	G-#18	J.K.	3-23	2048	PASS	-	J.K.
3-23	S/m. 49/52	D/S #5-25 - 47'	#151	P.	E.	2'x5'	#2037	G-#15	J.K.	3-23	2048	PASS	-	J.K.
3-23	S/m. 55/56	D/S #5-28 - 128'	#152	P.	E.	2'x5'	#2036	G-#18	J.K.	3-23	2048	PASS	-	J.K.
3-23	S/m. 53/55	D/S #5-27 - 329'	#153	P.	E.	2'x5'	#2037	G-#15	J.K.	3-23	2048	PASS	-	J.K.
3-23	S/m. 61/63	EXT. 0' to 14'	#154	G.	E.	-	#2036	G-#18	J.K.	3-23	2048	PASS	-	J.K.
3-23	S/m. 54/55/56	T. - 31' to 0'	#155	G.	E.	-	#2037	G-#15	J.K.	3-23	2048	PASS	-	J.K.
3-23	S/m. 53/54/55	T. - 31' to 0'	#156	G.	E.	-	#2037	G-#15	J.K.	3-23	2048	PASS	-	J.K.
3-23	S/m. 62/63	EXT. 200' to 219'	#157	G.	E.	-	#2036	G-#18	J.K.	3-23	2048	PASS	-	J.K.
3-23	S/m. 56/57	D/S #5-29 - 247'	#158	P.	E.	2'x5'	#2037	G-#15	J.K.	3-23	2048	PASS	-	J.K.
3-23	S/m. 58/59	D/S #5-30 - 375'	#159	P.	E.	2'x5'	#2037	G-#15	J.K.	3-23	2048	PASS	-	J.K.
3-23	S/m. 55/56	PATCH-242' - 74'	#160	P.	E.	2'x2'	#2036	G-#18	J.K.	3-23	2048	PASS	-	J.K.
3-23	S/m. 61/62	D/S #5-32 - 5' WEST OF SEAM 62/63	#161	P.	E.	2'x5'	#2037	G-#15	J.K.	3-23	2048	PASS	-	J.K.
3-23	P. #52	BEAD-291' to SEAM 54/53	#162	G.	E.	-	#2037	G-#15	J.K.	3-23	2048	PASS	-	J.K.
3-23	P. #56	PATCH 1x1 - 74' to SEAM 55/56	#163	P.	E.	1'x1'	#2036	G-#18	J.K.	3-23	2048	PASS	-	J.K.
3-23	P. #57	BEAD-168' to SEAM 54/57	#164	G.	E.	-	#2036	G-#18	J.K.	3-23	2048	PASS	-	J.K.
3-23	S/m. 63/64	D/S #33 - 189'	#165	P.	E.	2'x5'	#2036	G-#18	J.K.	3-23	2048	PASS	-	J.K.
3-23	S/m. 59/60	D/S #31 - 84'	#166	P.	E.	2'x5'	#2036	G-#18	J.K.	3-23	2048	PASS	-	J.K.

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Notes: (1) Repair Codes: P = Patch C = Cap
(2) Repair Types: E = Extrusion F = Fusion

DS = Destructive Sample G = Grind & Weld R = Reconstruction

REF: 000000



GEOSYNTEC CONSULTANTS
Boynton Beach, Florida



Trail Ridge Landfill, Inc.

SECONDARY

Repair Summary Log

Sheet No. 10 of

Project: Trail Ridge Landfill

Project No.: FQ2030

Phase: I & II

Location: Jacksonville, Florida

Contractor: National Seal Company

Year: 1992

Date Repaired (mo/dy)	Seam or Panel No.	Location	Repair			Oper. I.D.	Mach. No.	Q.A. I.D.	Non-Destructive Testing					
			No.	Code (1)	Type (2)				Dim.	Date (mo/dy)	Oper. I.D.	Pass	Fail	Q.A. I.D.
3-24	P.# 63	288' x 7' W. of 5m #63/64	#167	G.	E.	-	#2048	G.#15	J.K.	3-24	#2027	Pass	-	J.K.
3-24	5/m # 64/65	321' to 388' (S.E.N.O.)	#168	C.	E.	6'7"	#2048	G.#15	J.K.	3-24	"	"	-	J.K.
3-24	P.# 65	326' x 5' E. of 5m # 65/67	#169	P.	E.	1'x7'	#2048	G.#15	J.K.	3-24	"	"	-	J.K.
3-24	P.# 65	BEAD BETWEEN 5R-168 & 5R-169	#170	G.	E.	-	#2048	G.#15	J.K.	3-24	"	"	-	J.K.
3-24	5/m # 64/65	DIS #5-34 - 259' to 0'	#171	P.	E.	2'x5'	#2048	G.#15	J.K.	3-24	"	"	-	J.K.
3-24	5/m # 64/65	PATCH - 253' to 0'	#172	P.	E.	1'x1'	#2048	G.#15	J.K.	3-24	"	"	-	J.K.
3-24	5/m # 64/65/66	PATCH - 198' to 0'	#173	P.	E.	1'x1'	#2048	G.#15	J.K.	3-24	"	"	-	J.K.
3-24	5/m # 65/66/67	T. - 197' to 0'	#174	G.	E.	-	#2048	G.#15	J.K.	3-24	"	"	-	J.K.
3-24	5/m # 64/65	PATCH - 217' to 0'	#175	P.	E.	1'x2'	#2048	G.#15	J.K.	3-24	"	"	-	J.K.
3-24	5/m # 66/67	DIS #5-35 - 87' to 0'	#176	P.	E.	2'x5'	#2048	G.#15	J.K.	3-24	"	"	-	J.K.
3-24	P.# 66	143' x 7' to 5m # 66/77	#177	P.	E.	1'x2'	#2048	G.#15	J.K.	3-24	"	"	-	J.K.
3-24	P.# 66	143' x 4' to 5R-177	#178	G.	E.	-	#2048	G.#15	J.K.	3-24	"	"	-	J.K.
3-24	5/m # 66/67	PATCH - 127' to 0'	#179	P.	E.	1'x5'	#2048	G.#15	J.K.	3-24	"	"	-	J.K.
3-24	5/m # 66/67	PATCH - 112' to 0	#180	P.	E.	2'x3'	#2048	G.#15	J.K.	3-24	"	"	-	J.K.
3-24	5/m # 66/67	BEAD BETWEEN 5R-179 & 5R-180	#181	G.	E.	-	#2048	G.#15	J.K.	3-24	"	"	-	J.K.
3-23	P.# 64	PATCH 109' to 0' 4' 3" WEST OF 5R-180	#182	P.	E.	1'x1'	#2048	G.#15	J.K.	3-23	"	"	-	J.K.
3-23	5/m # 64/66	PATCH - 104' to 0'	#183	P.	E.	2'x3'	#2048	G.#15	J.K.	3-23	"	"	-	J.K.
3-23	P.# 64	BEAD BETWEEN 5R-182 & 5R-183	#184	G.	E.	-	#2048	G.#15	J.K.	3-23	"	"	-	J.K.
3-23	5/m # 64/66	PATCH - 65' to 0'	#185	P.	E.	1'x8'	#2048	G.#15	J.K.	3-23	"	"	-	J.K.

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Notes: (1) Repair Codes: P = Patch

(2) Repair Types: E = Extrusion

C = Cap

F = Fusion

G = Grind & Weld

DS = Destructive Sample

R = Reconstruction

T = Topping

REPAIRS



GEO SYNTec CONSULTANTS
Boynton Beach, Florida



Trail Ridge Landfill, Inc.

SECONDARY

Repair Summary Log

SECONDARY!

Sheet No.: 11 of

Project: Trail Ridge Landfill

Project No.: F02030

Phase: I & II

Location: Jacksonville, Florida

Contractor: National Seal Company

Year: 1992

Date Repaired (mo/dy)	Seam or Panel No.	Location	Repair			Oper. I.D.	Mach. No.	Q.A. I.D.	Non-Destructive Testing				
			No.	Code (1)	Type (2)				Dim.	Date (mo/dy)	Oper. I.D.	Pass	Fail
3-24	5/m # 54/53	0/5 # 26A - 193' to 0' & Ext.	#186	P.	E.	2'x5'	2010	G-#18	3-24	2027	PASS	-	J.K.
3-24	—	to 0/5 # 26	#187										
3-24	5/m # 54/53	0/5 # 26B - 245' to 0' & Ext.	#187	P.	E.	2'x5'	2010	G-#18	3-24	"	"	-	J.K.
		to 0/5 # 26											
3-25	5/m # 64/65	228' to 0'	#188	P.	E.	4'x9'	2010	G-#8	3-25	"	"	-	J.K.
3-25	5/m # 64/65	59' to 0'	#189	P.	E.	1'x2'	2010	G-#8	3-25	"	"	-	J.K.
3-25	5/m # 64/65	13' to 0'	#190	P.	E.	1'x1'	2048	G-#15	3-25	"	"	-	J.K.
3-25	5/m # 64/65	6' to 0'	#191	G.	E.	-	2048	G-#15	3-25	"	"	-	J.K.
3-25	5/m # 65/67	1' to 0'	#192	P.	E.	1'x1'	2048	G-#15	3-25	"	"	-	J.K.
3-25	5/m # 65/67	1' to 13'	#193	G.	E.	-	2048	G-#15	3-25	"	"	-	J.K.
3-25	5/m # 65/67	13' to 0'	#194	P.	E.	1'x1'	2048	G-#15	3-25	"	"	-	J.K.
3-25	5/m # 65/67	14' to 25'	#195	G.	E.	-	2048	G-#15	3-25	"	"	-	J.K.
3-25	5/m # 65/67	25' to 0'	#196	P.	E.	1'x1'	2048	G-#15	3-25	"	"	-	J.K.
3-25	5/m # 65/67	26' to 38'	#197	G.	E.	-	2048	G-#15	3-25	"	"	-	J.K.
3-25	5/m # 65/67	38' to 0'	#198	P.	E.	1'x2'	2048	G-#15	3-25	"	"	-	J.K.
3-25	5/m # 65/67	95' to 0'	#199	P.	E.	2'x10'	2048	G-#15	3-25	"	"	-	J.K.
3-25	5/m # 65/67	129' to 0'	#200	P.	E.	1'x1'	2037	G-#18	3-25	"	"	-	J.K.
3-25	5/m # 65/67	153' to 0'	#201	P.	E.	2'x11'	2037	G-#18	3-25	"	"	-	J.K.
3-25	5/m # 65/67	195' to 0'	#202	P.	E.	3'x4'	2010	G-#8	3-25	"	"	-	J.K.

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Notes: (1) Repair Codes:

P = Patch C = Cap

G = Grind & Weld

DS = Destructive Sample

R = Reconstruction

T = Topping

E = Extrusion F = Fusion

REF: 00000000



GEOSYNTEC CONSULTANTS
Boynton Beach, Florida



Trail Ridge Landfill, Inc.

(SECONDARY)

Repair Summary Log

Sheet No.: 12 of

Project: Trail Ridge Landfill

Project No.: FQ2030

Phase: I & II

Location: Jacksonville, Florida

Contractor: National Seal Company

Year: 1992

Date Repaired (mo/dy)	Seam or Panel No.	Location	Repair				Oper. I.D.	Mach. No.	Q.A. I.D.	Non-Destructive Testing				
			No.	Code (1)	Type (2)	Dim.				Date (mo/dy)	Oper. I.D.	Pass	Fail	Q.A. I.D.
3-25	5m #65/67	225' to 0'	#203	P	E.	3'x4'	2010	G-#8	J.K.	3-26	2067	Pass	-	J.K.
3-25	5m #65/67	245' to 0'	#204	P	E.	1'x1'	2036	G-#9	J.K.	3-26	"	"	-	J.K.
3-25	5m #65/67	276' to 0'	#205	P	E.	1'x11'	2036	G-#9	J.K.	3-26	"	"	-	J.K.
3-25	5m #65/66/67	308' to 0' T.	#206	G	E.	-	2036	G-#9	J.K.	3-27	"	"	-	J.K.
3-25	P. #65	322' to 6' w. of 5m #66/65	#207	P	E	2'x3'	2036	G-#9	J.K.	3-27	"	"	-	J.K.
3-25	P. #65	From SR #207 to 5m #66/65	#208	G	E.	-	2036	G-#9	J.K.	3-27	"	"	-	J.K.
3-25	5m #65/66	340' to 0'	#209	P	E.	1'x1'	2036	G-#9	J.K.	3-27	"	"	-	J.K.
3-25	P. #66	350' to 0' 3' E. of 5m #65/66	#210	P	E	2'x3'	2036	G-#9	J.K.	3-27	"	"	-	J.K.
3-25	P. #66	From SR #210 to 5m #66/68	#211	G	E.	-	2036	G-#9	J.K.	3-27	"	"	-	J.K.
3-25	5m #66/68	337' to 0'	#212	P	E.	1'x1'	2036	G-#9	J.K.	3-27	"	"	-	J.K.
3-25	5m #66/68	322' to 0'	#213	P	E.	1'x3'	2036	G-#9	J.K.	3-27	"	"	-	J.K.
3-25	5m #66/68	305' to 0' T.	#214	G	E.	-	2036	G-#9	J.K.	3-27	"	"	-	J.K.
3-25	5m #67/68	269' to 0'	#215	P	E.	2'x3'	2036	G-#9	J.K.	3-27	"	"	-	J.K.
3-25	5m #67/68	254' to 0'	#216	P	E.	1'x1'	2036	G-#9	J.K.	3-27	"	"	-	J.K.
3-25	5m #67/68	225' to 0'	#217	P	E.	1'x2'	2010	G-#8	J.K.	3-27	"	"	-	J.K.
3-25	5m #67/68	188' to 0'	#218	P	E.	1'x1'	2010	G-#8	J.K.	3-27	"	"	-	J.K.
3-25	5m #67/68	173' to 0'	#219	P	E.	1'x3'	2010	G-#8	J.K.	3-27	"	"	-	J.K.
3-25	5m #67/68	152' to 0'	#220	P	E.	1'x3'	2037	G-#18	J.K.	3-27	"	"	-	J.K.
3-25	5m #67/68	142' to 0'	#221	P	E.	2'x2'	2037	G-#18	J.K.	3-27	"	"	-	J.K.

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Notes: (1) Repair Codes:

P = Patch C = Cap

E = Extrusion F = Fusion

G = Grind & Weld

DS = Destructive Sample

R = Reconstruction

T = Topping

REPAIR SUMMARY



GEOSYNTEC CONSULTANTS
Boynton Beach, Florida



Trail Ridge Landfill, Inc.

Repair Summary Log

Sheet No.: 13 of

SECONDARY

Project: Trail Ridge Landfill

Project No.: FQ2030

Phase: I & II

Location: Jacksonville, Florida

Contractor: National Seal Company

Year: 1992

Date Repaired (mo/dy)	Seam or Panel No.	Location	Repair			Oper. I.D.	Mach. No.	Q.A. I.D.	Non-Destructive Testing		
			No.	Code (1)	Type (2)	Dim.			Date (mo/dy)	Oper. I.D.	Pass Fail
3-25	5/m #67/68	G. Between SR-200 & SR-221	#222	G	E	-	2037	G-#18	3-27	2067	Pass
3-25	5/m #67/68	100' to 0'	#223	P	E	2'x2'	2037	G-#18	3-27	"	"
3-25	5/m #67/68	82' to 0'	#224	P	E	1'x1'	2037	G-#18	3-27	"	"
3-25	5/m #67/68	G. Between SR-223 & SR-224	#225	G	E	-	2037	G-#18	3-27	"	"
3-25	5/m #67/68	73' to 0'	#226	D/S #35	E	2'x5'	2036	G-#9	3-27	"	"
3-25	5/m #67/68	44' to 0'	#227	P	E	1'x2'	2067	G-#15	3-27	"	"
3-25	5/m #67/68	13' to 0'	#228	P	E	1'x1'	2067	G-#15	3-27	"	"
3-25	5/m #67/68	BEAD - 0' to 13	#229	G	E	-	2067	G-#15	3-27	"	"
3-25	5/m #68/69	78' to 0'	#230	P	E	1'x4'	2037	G-#18	3-28	"	"
3-25	5/m #68/69	114' to 0'	#231	P	E	2'x7'	2037	G-#18	3-28	"	"
3-25	5/m #68/69	150' to 0'	#232	P	E	2'x3'	2037	G-#18	3-28	"	"
3-25	5/m #68/69	226' to 0'	#233	P	E	2'x6'	2010	G-#8	3-28	"	"
3-25	5/m #68/69	263' to 0'	#234	P	E	3'x4'	2036	G-#9	3-28	"	"
3-25	P #68	305' to 0' & 4' E of 5/m #68/69	#235	P	E	2'x2'	2036	G-#9	3-28	"	"
3-25	5/m #69/69	G. From SR-235 to 5/m #69/69	#236	G	E	-	2036	G-#9	3-28	"	"
			#236								
3-26	5/m #65/67	G. Between SR-199 & SR-200	#237	G	E	-	2036	G-#9	3-28	"	"
3-26	5/m #65/67	G. Between SR-200 & SR-201	#238	G	E	-	2036	G-#9	3-28	"	"
3-26	5/m #64/65	257' to 0'	#239	D/S #34	E	2'x5'	2036	G-#9	3-28	"	"

© GEOSYNTEC CONSULTANTS
Notes: (1) Repair Codes: P = Patch C = Cap G = Grind & Weld DS = Destructive Sample R = Reconstruction T = Topping
(2) Repair Types: E = Extrusion F = Fusion
* Note: Repair No. SR-239 is also SR-171

REPAIRS



GEOSYNTEC CONSULTANTS
Boynton Beach, Florida



Trail Ridge Landfill, Inc.

Repair Summary Log

SECONDARY

Sheet No.: 14 of

Project: Trail Ridge Landfill

Project No.: FQ2030

Phase: I & II

Location: Jacksonville, Florida

Contractor: National Seal Company

Year: 1992

Date Repaired (mo/dy)	Seam or Panel No.	Location	Repair			Oper. I.D.	Mach. No.	Q.A. I.D.	Non-Destructive Testing				
			No.	Code (1)	Type (2)				Dim.	Date (mo/dy)	Oper. I.D.	Pass	Fail
3-26	5m # 68/69	100' to 0'	#240	D/S #36	E.	2'x5'	2036	G-#9	J.K.	2067	Pass	-	J.K.
3-26	5m # 67/68	152'-172'	#241	G	E.	-	2036	G-#9	J.K.	"	"	-	J.K.
3-26	P-# 68	ADDON SKIRT-N. ENO.	#242	P.	E.	5'x15'	2036	G-#9	J.K.	"	"	-	J.K.
3-26	P-# 66	306' to 0' & 2'S. OF 5m #66/67	#243	G.	E.	-	2036	G-#9	J.K.	"	"	-	J.K.
3-26	P-# 64	323' to 0' & 1' W. OF P-# 65	#244	G.	E.	-	2036	G-#9	J.K.	"	"	-	J.K.
3-26	5m #64/65	298' to 0'	#245	P.	E.	1'x1'	2036	G-#9	J.K.	"	"	-	J.K.
3-26	P-# 65	228' to 0' & 7' W. OF P-# 67	#246	G.	E.	-	2036	G-#9	J.K.	"	"	-	J.K.
3-26	5m # 67/68	EXT. BETWEEN-SR-215 & SR-216	#247	E.	E.	-	2036	G-#9	J.K.	"	"	-	J.K.
3-26	5m # 68/69	45' to 0'	#248	P.	E.	1'x2'	2036	G-#9	J.K.	"	"	-	J.K.
3-27	5m # 64/65	273' to 0'	#250	D/S #34A	E.	2'x5'	2036	G-#9	J.K.	"	"	-	J.K.
3-27	5m # 64/65	EXT. D/S #34A to D/S # 34	#251	E	E.	-	2036	G-#9	J.K.	"	"	-	J.K.
3-27	5m # 64/65	243' to 0'	#252	D/S #34B	E.	2'x5'	2036	G-#9	J.K.	"	"	-	J.K.
3-27	5m #64/65	EXT. D/S #34B to D/S #34	#253	E.	E.	-	2036	G-#9	J.K.	"	"	-	J.K.
3-27	Detection	TRENCH P-# 5-20 to S-31	SR-249	P.	E.	15'x138'	2043 2048	G-#15	J.K.	"	"	-	J.K.
3-27	Above PARKING CUT OPEN TO REPAIR SUBGRADE				-	-	-	-	J.K.	"	"	-	J.K.
3-27	SR-249 REPAIR	6'E. OF S-28 & S-29	#254	D/S #37	E.	2'x5'	2048	G-#8	J.K.	"	"	-	J.K.
3-30	S-69/S-70	20' to 0'	#255	P.	E.	1'x1'	2036	G-#9	J.K.	"	"	-	J.K.
3-30	S-69/S-70	0' to 20'	SR-256	E.	E.	-	2036	G-#9	J.K.	"	"	-	J.K.
3-30	S-69/S-70	105' to 0'	SR-257	P.	E.	2'x5'	2036	G-#9	J.K.	"	"	-	J.K.
© GEOSYNTEC CONSULTANTS		Notes: (1) Repair Codes: P = Patch Extrusion, E = Extrusion (2) Repair Types: C = Cap, F = Fusion			G = Grind & Weld		DS = Destructive Sample			Reconstruction			
3-28	S-64/S-65	208' to 0'	#254A	D/S-34B1	E.	2'x5'	2068	G-#15	J.K.	2067	P.		J.K.
3-28	S-64/S-65	D/S 34B1 to 34B	A-54B	R.	E.	-	2068	G-#15	J.K.	2067	P.		J.K.



GEOSYNTEC CONSULTANTS
Boynton Beach, Florida



Trail Ridge Landfill, Inc.

Repair Summary Log

Sheet No. 15 of

SECONDARY

Project: Trail Ridge Landfill

Project No.: FQ2030

Phase: I & II

Location: Jacksonville, Florida

Contractor: National Seal Company

Year: 1992

Date Repaired (mo/dy)	Seam or Panel No.	Location	Repair			Oper. I.D.	Mach. No.	Q.A. I.D.	Non-Destructive Testing					
			No.	Code (1)	Type (2)				Dim.	Date (mo/dy)	Oper. I.D.	Pass	Fail	Q.A. I.D.
3-30	5-69/5-70	110' to 0'	SR-258	P.	E.	2x8'	2036	6-#9	J.K.	3-30	2067	Pass	-	J.K.
3-30	5-69/5-70	136' to 0'	SR-259	P.	E.	2x3'	2036	6-#9	J.K.	3-30	"	"	-	J.K.
3-30	5-69/5-70	147' to 0'	SR-260	P.	E.	2x4'	2036	6-#9	J.K.	3-30	"	"	-	J.K.
3-30	5-69/5-70	155' to 0'	SR-261	P.	E.	1x1'	2036	6-#9	J.K.	3-30	"	"	-	J.K.
3-30	5-69/5-70	165' to 0'	SR-262	P.	E.	3x4'	2036	6-#9	J.K.	3-30	"	"	-	J.K.
3-30	5-69/5-70	191' to 0'	SR-263	P	E.	2x5'	2036	6-#9	J.K.	3-30	"	"	-	J.K.
3-30	5-69/5-70	224' to 0'	SR-264	P.	E.	2x6'	2036	6-#9	J.K.	3-30	"	"	-	J.K.
3-30	5-69/5-70	224' to 234'	SR-265	E.	E.	-	2036	6-#9	J.K.	3-30	"	"	-	J.K.
3-30	5-69/5-70	255' to 4' W of 5m	SR-267	J.K.	VOID	-	-	-	J.K.	-	-	-	-	J.K.
3-30	P-# 69	255' to 4' W of 5m	SR-266	G.	E.	-	2036	6-#9	J.K.	3-30	"	"	-	J.K.
3-30	5-69/5-70	281' to 0'	SR-268	P.	E.	2x5'	2036	6-#9	J.K.	3-30	"	"	-	J.K.
3-30	5-69/5-70	274' to 0'	SR-267	P.	E.	3x10'	2036	6-#9	J.K.	3-30	"	"	-	J.K.
3-30	5-69/5-70	303' to 0'	SR-269	P.	E.	2x5'	2036	6-#9	J.K.	3-30	"	"	-	J.K.
3-30	5-70/5-71	121' to 0'	SR-270	P.	E.	1x2'	2036	6-#9	J.K.	3-30	"	"	-	J.K.
3-30	P-# 70	121' to 4' W of 5m	SR-271	P.	E.	1x1'	2036	6-#9	J.K.	3-30	"	"	-	J.K.
3-30	P-# 70	Between SR-270 & 271	SR-272	E.	E.	-	2036	6-#9	J.K.	3-30	"	"	-	J.K.
3-30	5-70/5-71	57' to 0'	SR-273	P.	E.	1x1'	2036	6-#9	J.K.	3-30	"	"	-	J.K.
3-30	5-70/5-71	0' to 57'	SR-274	F.R.	E.	-	2036	6-#9	J.K.	3-30	"	"	-	J.K.
3-30	5-71/5-72	112' to 0'	SR-275	P.S-39	E.	2x5'	2036	6-#9	J.K.	3-30	"	"	-	J.K.

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Notes: (1) Repair Codes: P = Patch C = Cap
(2) Repair Types: E = Extrusion F = Fusion

DS = Destructive Sample

R = Reconstruction

T = Topping

REPAIR LOG



GEOSYNTEC CONSULTANTS
Boynton Beach, Florida



Trail Ridge Landfill, Inc.

Repair Summary Log

Sheet No: 16 of

SECONDARY

Project: Trail Ridge Landfill

Project No.: FO2030

Phase: I & II

Location: Jacksonville, Florida

Contractor: National Seal Company

Year: 1992

Date Repaired (mo/dy)	Seam or Panel No.	Location	Repair			Oper. I.D.	Mach. No.	Q.A. I.D.	Non-Destructive Testing		
			No.	Code (1)	Type (2)				Date (mo/dy)	Oper. I.D.	Pass Fail
3-30	5-71/5-72	200' to 0'	SR-276	P.	E.	2036	G-#9	J.K.	3-30	2067	Pass
3-30	5-71/5-72	228' to 0'	SR-277	P.	E.	2036	G-#9	J.K.	3-30	"	"
3-30	5-71/5-72	BETWEEN SR-276 & 277	SR-278	R.	E.	-	G-#9	J.K.	3-30	"	"
3-30	5-71/5-72	268' to 0'	SR-279	P.	E.	2036	G-#9	J.K.	3-30	"	"
3-30	P# 71/22/73	315' to 0'	SR-280	P.	E.	2036	G-#9	J.K.	3-30	"	"
3-30	P# 72/23/75	315' to 0'	SR-281	P.	E.	2036	G-#9	J.K.	3-30	"	"
3-30	5-72/5-75	305' to 0'	SR-282	P# 540	E.	2036	G-#9	J.K.	3-30	"	"
3-30	5-72/5-75	184' to 0'	SR-283	P.	E.	2036	G-#9	J.K.	3-30	"	"
3-30	P# 72/74/75	116' to 0'	SR-284	P.	E.	2036	G-#9	J.K.	3-30	"	"
3-30	P-# 75	122' to 4' E. of 5m # 72/75	SR-285	G.	E.	-	G-#9	J.K.	3-30	"	"
3-30	P# 5-76	28' to 9' E. of 5m # 74/76	SR-286	P.	E.	2036	G-#9	J.K.	3-30	"	"
3-30	P# 74/75/76	115' to 0'	SR-287	P.	E.	2036	G-#9	J.K.	3-30	"	"
3-30	5-75/5-76	242' to 0'	SR-288	P# 541	E.	2036	G-#9	J.K.	3-30	"	"
3-30	P# 5-76	190' to 0' to 4' to 5m # 74/77	SR-289	P.	E.	2036	G-#9	J.K.	3-30	"	"
3-30	5-76/5-77	87' to 0'	SR-290	P# 542	E.	2036	G-#9	J.K.	3-30	"	"
3-30	P# 78/77/79	35' to 0'	SR-291	P.	E.	2036	G-#9	J.K.	3-30	"	"
3-30	P# 80/78/79	35' to 0'	SR-292	P.	E.	2036	G-#9	J.K.	3-30	"	"
3-30	P# 5-77	5' to 0' to 1' to 0' to 5m # 77/78	SR-293	G.	E.	-	G-#9	J.K.	3-30	"	"
3-30	5-79/5-80	314' to 0'	SR-294	P# 543	E.	2036	G-#9	J.K.	3-30	"	"

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Notes: (1) Repair Codes: P = Patch C = Cap

(2) Repair Types: E = Extrusion F = Fusion

G = Grind & Weld

DS = Destructive Sample

R = Reconstruction

T = Topping

REPAIR LOG



GEOSYNTEC CONSULTANTS
Boynton Beach, Florida



Trail Ridge Landfill, Inc.

Repair Summary Log

Sheet No: 17 of

Secondary

Project: Trail Ridge Landfill

Project No.: FQ2030

Phase: I & II

Location: Jacksonville, Florida

Contractor: National Seal Company

Year: 1992

Date Repaired (mo/dy)	Seam or Panel No.	Location	Repair			Oper. I.D.	Mach. No.	Q.A. I.D.	Non-Destructive Testing			
			No.	Code (1)	Type (2)	Dim.			Date (mo/dy)	Oper. I.D.	Pass	Fail
3-30	P#80/81/82	336' to 0' T.	SR-295	G.	E.	-	2036	G-#9	3-30	2027	Pass	-
3-30	P#82	340' to 0' E. of Sym #82	SR-296	G.	E.	-	2036	G-#9	3-30	"	"	-
3-30	5-80/5-81	244' to 0'	SR-297	P#5-84	E.	2x5'	2036	G-#9	3-30	"	"	-
3-30	5-80/5-81	210' to 0'	SR-298	P.	E.	2x2'	2036	G-#9	3-30	"	"	-
3-30	5-81/5-83	1' to 0'	SR-299	P.	E.	1x1'	2036	G-#9	3-30	"	"	-
3-30	5-81/5-83	92' to 0'	SR-300	P#5-84	E.	2x5'	2010	G-#15	3-30	2067	Pass	-
3-30	P#83	286' to 5' E. of Sym #81/83	SR-301	G.	E.	-	2010	G-#15	3-30	2067	"	-
3-30	P#81/86/83	336' to 0' T.	SR-302	G.	E.	-	2010	G-#15	3-30	2067	"	-
3-30	5-83/5-84	219' to 0'	SR-303	P.	E.	2x3'	2010	G-#15	3-30	2067	Pass	-
3-30	5-83/5-84	187' to 0'	SR-304	P#5-84	E.	2x5'	2010	G-#15	3-30	2067	Pass	-
3-30	5-84/5-85	186' to 0'	SR-305	G.	E.	-	2010	G-#15	3-30	"	"	-
3-30	5-84/5-85	177' to 0'	SR-306	G.	E.	-	2010	G-#15	3-30	"	"	-
3-30	P#84/86/86	245' to 0'	SR-307	P.	E.	1x1'	2036	G-#9	3-30	"	"	-
3-30	P#85/86/87	245' to 0'	SR-308	P.	E.	1x1'	2036	G-#9	3-30	2027	"	-
3-30	5-85/5-87	237' to 0'	SR-309	P#5-84	E.	2x5'	2036	G-#9	3-30	2027	"	-
3-30	P#87	217' to 2' E. of Sym #85/87	SR-310	P.	E.	2x2'	2036	G-#9	3-30	2067	"	-
3-30	5-85/5-87	180' to 0'	SR-311	P.	E.	2x3'	2036	G-#9	3-30	2067	"	-
3-30	P#87	274' to 1' W. of Sym #87/88	SR-312	G.	E.	-	2036	G-#9	3-30	2067	"	-
3-30	5-87/5-88	166' to 0'	SR-313	P.	E.	2x3'	2010	G-#15	3-30	2067	"	-

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Notes: (1) Repair Codes: P = Patch C = Cap

(2) Repair Types: E = Extrusion F = Fusion

G = Grind & Weld

DS = Destructive Sample

R = Reconstruction

T = Topping

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GEOSYNTEC CONSULTANTS
Boynton Beach, Florida



Trail Ridge Landfill, Inc.

Repair Summary Log

Sheet No.: 18 of

SECONDARY

Project: Trail Ridge Landfill

Project No.: FQ2030

Phase: I & II

Location: Jacksonville, Florida

Contractor: National Seal Company

Year: 1992

Date Repaired (mo/dy)	Seam or Panel No.	Location	Repair			Oper. I.D.	Mach. No.	Q.A. I.D.	Non-Destructive Testing			
			No.	Code (1)	Type (2)				Date (mo/dy)	Oper. I.D.	Pass	Fail
3-30	S-87/S-88	305' to 0'	SR-314	P/S-548	E.	2x5'	G-#9	J.K.	3-30	2027	Pass	-
3-31	S-88/S-89	EXT. FULL SEAM	SR-315	R.	E.	0' to END	G-#18	J.K.	3-31	2027	"	-
3-31	S-89/S-90	EXT. FULL SEAM	SR-316	R.	E.	0' to END	G-#18	J.K.	3-31	2027	"	-
3-31	S-88/S-90	EXT. FULL SEAM	SR-317	R.	E.	0' to END	G-#18	J.K.	3-31	2027	"	-
3-30	S-88/S-90	105' to 0'	SR-318	P/S-551	E.	2x5'	G-#15	J.K.	3-31	2027	"	-
3-30	S-88/S-90	5' to 0'	SR-319	P.	E.	1x1'	G-#18	J.K.	3-31	2027	"	-
3-30	S-90/S-91	EXT. FULL SEAM	SR-320	R.	E.	0' to END	G-#15	J.K.	3-31	2027	"	-
3-30	S-90/S-91	12' to 0'	SR-321	G.	E.	-	G-#15	J.K.	3-31	2027	"	-
3-30	S-90/S-91	221' to 0'	SR-322	P.	E.	2x2'	G-#15	J.K.	3-31	2027	"	-
3-30	S-89/S-91	EXT. FULL SEAM	SR-323	R.	E.	0' to END	G-#8	J.K.	3-31	2027	"	-
3-31	S-89/S-91	318' to 0'	SR-324	P/S-552	E.	2x5'	G-#18	J.K.	3-31	2027	"	-
4-1-92	S-91/S-93	EXT. FULL SEAM	SR-325	R.	E.	0' to END	G-#8	J.K.	4-1	2036	"	-
4-1	S-92/S-93	EXT. FULL SEAM	SR-326	R.	E.	0' to END	G-#18	J.K.	4-1	2036	"	-
4-1	S-91/S-92	EXT. FULL SEAM	SR-327	R.	E.	0' to END	G-#18	J.K.	4-1	2036	"	-
4-1	S-91/S-92	267' to 0'	SR-328	P.	E.	3x5'	G-#18	J.K.	4-1	2036	"	-
4-1	P-# S-91	275' to 0' 6' E. of 9/192	SR-329	P.	E.	1x4'	G-#18	J.K.	4-1	2036	"	-
4-1	P-# S-91	BETWEEN SR-328 & 329	SR-330	G.	E.	-	G-#18	J.K.	4-1	2036	"	-
4-1	P-# S-91	235' to 0'	SR-331	P.	E.	2x3'	G-#15	J.K.	4-1	2036	"	-
4-1	P-# S-91	BETWEEN SR-331 & 9/192	SR-332	G.	E.	-	G-#15	J.K.	4-1	2036	"	-

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Notes: (1) Repair Codes: P = Patch C = Cap
(2) Repair Types: E = Extrusion F = Fusion

DS = Destructive Sample

R = Reconstruction

REPAIRS



GEOSYNTEC CONSULTANTS
Boynton Beach, Florida



Trail Ridge Landfill, Inc.

Repair Summary Log

Secondary

Sheet No.: 19 of

Project: Trail Ridge Landfill

Project No.: FQ2030

Phase: I & II

Location: Jacksonville, Florida

Contractor: National Seal Company

Year: 1992

Date Repaired (mo/dy)	Seam or Panel No.	Location	Repair		Oper. I.D.	Mach. No.	Q.A. I.D.	Non-Destructive Testing		
			No.	Code (1)	Type (2)	Dim.		Date (mo/dy)	Oper. I.D.	Pass Fail
4-1-92	5-90/5-91	229' to 0'	SR-333	P	E	2x6'	G-#9	4-1	2036	Pass
4-1	5-90/5-91	221' to 0' ^{148' 322}	SR-334	P	E	1x2'	G-#9	4-1	2036	"
4-1	P-#5-92	Between 5m #9/94 to 5m #9/94	SR-335	G	E	-	G-#15	4-1	2036	"
4-1	5-91/5-92	96' to 0'	SR-336	P	E	2x4'	G-#9	4-1	2036	"
4-1	5-91/5-92	1' to 0' ^{Extrusion Head}	SR-337	P	E	1x2'	G-#9	4-1	2036	"
4-1	5-92/5-94	36' to 0'	SR-338	P	E	2x3'	G-#15	4-1	2036	"
4-1	5-92/5-94	72' to 0'	SR-339	P	E	3x5'	G-#15	4-1	2036	"
4-1	5-92/5-94	93' to 0'	SR-340	P	E	3x4'	G-#15	4-1	2036	"
4-1	5-92/5-94	122' to 0'	SR-341	P	E	3x5'	G-#15	4-1	2036	"
4-1	5-92/5-94	143' to 0'	SR-342	P	E	3x4'	G-#15	4-1	2036	"
4-1	5-92/5-94	181' to 0'	SR-343	P	E	2x0'	G-#15	4-1	2036	"
4-1	5-92/5-94	224' to 0'	SR-344	P	E	1x1'	G-#15	4-1	2036	"
4-1	5-92/5-94	234' to 0'	SR-345	P	E	1x1'	G-#15	4-1	2036	"
4-1	5-92/5-94	Between SR-344 & 345	SR-346	R	E	-	G-#15	4-1	2036	"
4-1	5-92/5-94	255' to 0'	SR-347	P	E	3x5'	G-#18	4-1	2036	"
4-1	5-92/5-94	294' to 0'	SR-348	P	E	3x5'	G-#18	4-1	2036	"
4-1	5-92/5-94	323' to 0'	SR-349	P	E	3x5'	G-#18	4-1	2036	"
4-1	P-#5-95	311' to 0' ^{1' E. OF 5m #9/95}	SR-350	G	E	-	G-#9	4-1	2036	"
4-1	5-95/5-96	226' to 0'	SR-351	P	E	1x1'	G-#9	4-1	2036	"

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Notes: (1) Repair Codes: P = Patch C = Cap

(2) Repair Types: E = Extrusion F = Fusion

G = Grind & Weld DS = Destructive Sample

R = Reconstruction

4-1 5-91/5-92

128' to 0'

SR 336A R

05-553

2x5'

2036

G #9

BT

4-1 2036

"

BT



GEOSYNTEC CONSULTANTS
Boynton Beach, Florida



Trail Ridge Landfill, Inc.

Repair Summary Log

Sheet No.: 20 of

SECONDARY

Project: Trail Ridge Landfill

Project No.: FQ2030

Phase: I & II

Location: Jacksonville, Florida

Contractor: National Seal Company

Year: 1992

Date Repaired (mo/dy)	Seam or Panel No.	Location	Repair			Oper. I.D.	Mach. No.	Q.A. I.D.	Non-Destructive Testing				
			No.	Code (1)	Type (2)				Dim.	Date (mo/dy)	Oper. I.D.	Pass	Fail
4-1-92	S-95/S-96	284' to 0'	SR-352	D/S-5-50	E	2036	G-#9	J.K.	4-1	2036	Pass	-	J.K.
4-1	S-96/S-97	CAP ENTIRE SEAM	SR-353	C	E	2036	G-#9	J.K.	4-1	2036	"	-	J.K.
4-1	S-96/S-98	211' to 0'	SR-354	D/S-5-54	E	2036	G-#9	J.K.	4-1	2036	"	-	J.K.
4-1	S-98/S-99	115' to 0'	SR-355	D/S-5-55	E	2036	G-#9	J.K.	4-1	2063	"	-	J.K.
4-1	P#99/100/101	248' to 0'	SR-356	P	E	2068	G-#15	J.K.	4-1	2063	"	-	J.K.
4-1	P#100/101/102	248' to 0'	SR-357	P	E	2068	G-#15	J.K.	4-1	2063	"	-	J.K.
4-1	S-100/S-101	EXT ENTIRE SEAM	SR-358	R	E	-	G-#15	J.K.	4-1	2063	"	-	J.K.
4-1	S-100/S-102	100' to 0'	SR-359	P	E	2036	G-#9	J.K.	4-1	2063	"	-	J.K.
4-1	S-100/S-102	178' to 0'	SR-360	D/S-5-56	E	2036	G-#9	J.K.	4-1	2063	"	-	J.K.
4-1	S-101/S-105	EXT ENTIRE SEAM	SR-361	R	E	-	G-#15	J.K.	4-1	2063	"	-	J.K.
4-1	S-102/S-105	EXT ENTIRE SEAM	SR-362	R	E	-	G-#15	J.K.	4-1	2063	"	-	J.K.
4-1	S-103/S-105	EXT ENTIRE SEAM	SR-363	R	E	-	G-#15	J.K.	4-1	2063	"	-	J.K.
4-1	P#100/103/105	378' to 0'	SR-364	P	E	1x1'	G-#15	J.K.	4-1	2063	"	-	J.K.
4-1	P#101/102/105	378' to 0'	SR-365	P	E	1x1'	G-#15	J.K.	4-1	2063	"	-	J.K.
4-1	P#101	379 to 5' END	SR-366	G	E	-	G-#15	J.K.	4-1	2063	"	-	J.K.
4-1	S-102/S-103	322' to 0'	SR-367	G	E	-	G-#9	J.K.	4-1	2063	"	-	J.K.
4-1	S-105/S-103	269' to 0'	SR-368	D/S-5-57	E	2036	G-#15	J.K.	4-1	2063	"	-	J.K.
4-1	S-106/S-103	50' to 0	SR-369	G	E	-	G-#15	J.K.	4-1	2063	"	-	J.K.
4-1	P#103/104/106	172' to 0'	SR-370	P	E	2x3'	G-#15	J.K.	4-1	2063	"	-	J.K.



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Boynton Beach, Florida



Trail Ridge Landfill, Inc.

Repair Summary Log

SECONDARY

Sheet No.: 21 of

Project: Trail Ridge Landfill

Project No.: FQ2030

Phase: I & II

Location: Jacksonville, Florida

Contractor: National Seal Company

Year: 1992

Date Repaired (mo/dy)	Seam or Panel No.	Location	Repair		Oper. I.D.	Mach. No.	Q.A. I.D.	Non-Destructive Testing		
			No.	Code (1)	Type (2)	Dim.		Date (mo/dy)	Oper. I.D.	Pass Fail
4-1-92	5-92/5-94	196' to 0'	SR-371	P ² S-49B	E.	2x5'	2037	4-1-92	2036	Pass
4-1	5-92/5-94	169' to 0'	SR-372	P ² S-49A	E.	2x5'	2037	4-1	2036	Pass
4-1	5-92/5-94	196' to 0 1/2' S-49	SR-373	R.	E.	-	2037	4-1	2036	Pass
4-1	5-92/5-94	169' to 0 1/2' S-49	SR-374	R.	E.	-	2037	4-1	2036	Pass
4-1	5-69/5-70	209' to 0'	SR-375	P ² S-38B	E.	2x5'	2010	4-1	2036	Pass
4-1	5-69/5-70	158' to 0'	SR-376	P ² S-38A-1	E.	2x5'	2037	4-1	2036	Pass
4-1	5-69/5-70	175' to 0'	SR-377	P ² S-38-A	E.	2x5'	2010	4-1	2036	Pass
4-1	5-69/5-70	158' to 0 1/2' S-38A.	SR-378	R.	E.	-	2037	4-1	2036	Pass
4-1	5-69/5-70	175' to 0 1/2' S-38	SR-379	R.	E.	-	2037	4-1	2036	Pass
4-1	5-69/5-70	0 1/2' S-38 to 0 1/2' S-38B.	SR-380	R.	E.	-	2037	4-1-92	2036	Pass
4-2	5-88/5-89	308' to 0'	SR-381	P ² S-55B	E.	2x5'	2068	4-2-92	2067	Pass
4-2	5-91/5-93	350' to 0'	SR-382	P ² S-55B	E.	2x5'	2068	4-2	2067	Pass
4-2	5-83/5-84	383' to 0'	SR-383	P.	E.	2x2'	2068	4-2	2067	Pass
4-2	5-83/5-84	383' to 0.388'	SR-384	R.	E.	-	2068	4-2	2067	Pass
4-2	5-117/5-14	276' to 0'	SR-385	P.	E.	1x1'	2037	4-2	2067	Pass
4-2	5-106/5-107	286' to 0'	SR-386	P ² S-40	E.	2x5'	2068	4-2	2067	Pass
4-2	P ² 104/106/107	169' to 0' T.	SR-387	G.	E.	-	2068	4-2	2067	Pass
4-2	5-106/5-107	14' to 0'	SR-388	G.	E.	-	2068	4-2	2067	Pass
4-2	5-106/5-107	15' to 0'	SR-389	P.	E.	2x2'	2068	4-2	2067	Pass



GEOSYNTEC CONSULTANTS
Boynton Beach, Florida



Trail Ridge Landfill, Inc.

Repair Summary Log

SECONDARY

Sheet No.: 22 of

Project: Trail Ridge Landfill

Project No.: FQ2030

Phase: I & II

Location: Jacksonville, Florida

Contractor: National Seal Company

Year: 1992

Date Repaired (mo/dy)	Seam or Panel No.	Location	Repair			Oper. I.D.	Mach. No.	Q.A. I.D.	Non-Destructive Testing		
			No.	Code (1)	Type (2)	Dim.			Date (mo/dy)	Oper. I.D.	Pass Fail Q.A. I.D.
4-2-92	5-107/5-108	SR-387 to 0'	SR-390	R	E	-	2068	G-#15	4-3-92	2067	Pass - J.K. I.D.
4-2	5-107/5-108	22' to 0'	SR-391	P	E	1X1'	2068	G-#15	4-3	2067	Pass - J.K. I.D.
4-2	5-107/5-108	SR-387 to SR-391	SR-392	R	E	-	2068	G-#15	4-3	2067	Pass - J.K. I.D.
4-2	5-107/5-108	39' to 0'	SR-393	P	E	2X2'	2068	G-#15	4-3	2067	Pass - J.K. I.D.
4-2	5-107/5-108	SR-391 to SR-393	SR-394	R	E	-	2068	G-#16	4-3	2067	Pass - J.K. I.D.
4-2	5-107/5-108	60' to 0'	SR-395	P	E	2X2'	2068	G-#15	4-3	2067	Pass - J.K. I.D.
4-2	5-107/5-108	93' to 0'	SR-396	P	E	2X2'	2068	G-#15	4-3	2067	Pass - J.K. I.D.
4-2	5-107/5-108	120' to 0'	SR-397	P	E	2X5'	2068	G-#15	4-3	2067	Pass - J.K. I.D.
4-2	5-107/5-108	166' to 0'	SR-398	P	E	1X2'	2068	G-#15	4-3	2067	Pass - J.K. I.D.
4-2	5-107/5-108	211' to 0'	SR-399	P	E	1X1'	2068	G-#15	4-3	2067	Pass - J.K. I.D.
4-2	P#12/3/117	258' to 0'	SR-400	P	E	1X1'	2025	G-#9	4-3	2067	Pass - J.K. I.D.
4-2	P#12/117	251' to 0'	SR-401	P	E	1X1'	2025	G-#9	4-3	2067	Pass - J.K. I.D.
4-3	5-9/5-117	205' to 0'	SR-402	P	E	2X5'	2025	G-#9	4-3	2067	Pass - J.K. I.D.
4-3	P#10/10/121	212' to 0'	SR-403	C	E	3X28'	2037	G-#9	4-3	2067	Pass - J.K. I.D.
4-2	P#121	SW CORNER OF SUMP FLOOR	SR-404	P	E	3X4'	2037	G-#9	4-3	2067	Pass - J.K. I.D.
4-2	P#121	BEAD BETWEEN SR-404 & SR-403	SR-405	G	E	-	2037	G-#9	4-3	2067	Pass - J.K. I.D.
4-2	P#121	SE CORNER OF SUMP FLOOR	SR-406	P	E	3X6'	2037	G-#9	4-3	2067	Pass - J.K. I.D.
4-2	P#121	BEAD BETWEEN SR-406 & SR-403	SR-407	G	E	-	2037	G-#9	4-3	2067	Pass - J.K. I.D.
4-2	P#121	167' to 0'	SR-408	C	E	3X32'	2037	G-#9	4-3	2067	Pass - J.K. I.D.

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Notes: (1) Repair Codes: P = Patch
(2) Repair Types: E = Extrusion

C = Cap
F = Fusion

G = Grind & Weld

DS = Destructive Sample

R = Reconstruction

REPAIRS.XLS



GEOSYNTEC CONSULTANTS
Boynton Beach, Florida



Trail Ridge Landfill, Inc.

Repair Summary Log

SECONDARY

Sheet No.: 23 of

Project: Trail Ridge Landfill Project No.: FQ2030 Phase: I & II

Location: Jacksonville, Florida Contractor: National Seal Company Year: 1992

Date Repaired (mo/dy)	Seam or Panel No.	Location	Repair			Oper. I.D.	Mach. No.	Q.A. I.D.	Non-Destructive Testing		
			No.	Code (1)	Type (2)				Date (mo/dy)	Oper. I.D.	Pass Fail Q.A. I.D.
4-2	P-# 119	N/E corner of Sump Floor	SR-409	P.	E.	2037	G-# 9	J.K.	4-3-92	2067	Pass - J.K.
4-2	P-# 119	BEAD BETWEEN SR-409 & SR-410	SR-410	G.	E.	2037	G-# 9	J.K.	4-3	2067	Pass - J.K.
4-2	P-# 119	N/W corner of Sump Floor	SR-411	P.	E.	2037	G-# 9	J.K.	4-3	2067	Pass - J.K.
4-2	P-# 119	BEAD BETWEEN SR-411 & SR-412	SR-412	G.	E.	2037	G-# 9	J.K.	4-3	2067	Pass - J.K.
4-3	P-# 120	197' x 13' W. OF SIM #114/115	SR-413	P.	E.	2037	G-# 9	J.K.	4-3	2067	Pass - J.K.
4-3	S-5/5-123	166' x 20'	SR-414	P.	E.	2068	G-# 15	J.K.	4-3	2067	Pass - J.K.
4-3	P-# 125 & 5-4	105' x 20' 124'	SR-415	C.	E.	2010	G-# 15	J.K.	4-3	2067	Pass - J.K.
4-3	S-2/5-122	105' x 20'	SR-416	P.	E.	2010	G-# 15	J.K.	4-3	2067	Pass - J.K.
4-3	P-# 122	77' x 6' E. OF SIM #113/122	SR-417	P.	E.	2010	G-# 15	J.K.	4-3	2067	Pass - J.K.
4-3	S-123/5-124	70' x 20'	SR-418	P.	E.	2010	G-# 15	J.K.	4-3	2067	Pass - J.K.
4-3	P-# 108/109/110	110' x 20' 0' T.	SR-419	G.	E.	2010	G-# 15	J.K.	4-3	2067	Pass - J.K.
4-3	S-109/5-110	110' x 4' W. OF SIM #108/110	SR-420	P.	E.	2010	G-# 15	J.K.	4-3	2067	Pass - J.K.
4-3	P-# 109/110/111	104' x 20' 0'	SR-421	P.	E.	2010	G-# 15	J.K.	4-3	2067	Pass - J.K.
4-3	S-110/5-111	172' x 20' 0'	SR-422	P-# 5-62	E.	2068	G-# 15	J.K.	4-3	2067	Pass - J.K.
4-3	S-111/5-112	45' x 20' 0'	SR-423	P-# 5-63	E.	2068	G-# 15	J.K.	4-3	2067	Pass - J.K.
4-3	S-111/5-112	5' x 20' 0'	SR-424	P.	E.	2010	G-# 15	J.K.	4-3	2067	Pass - J.K.
4-3	S-111/5-112	13' x 20' 0'	SR-425	P.	E.	2010	G-# 15	J.K.	4-3	2067	Pass - J.K.
4-3	S-111/5-112	13' x 20' 0'	SR-426	R.	E.	2010	G-# 15	J.K.	4-3	2067	Pass - J.K.
4-3	P-# 114	13' x 1' E. OF SIM #113/114	SR-427	G.	E.	2010	G-# 15	J.K.	4-3	2067	Pass - J.K.

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Notes: (1) Repair Codes: P = Patch E = Extrusion
(2) Repair Types: C = Cap F = Fusion

DS = Destructive Sample

R = Reconstruction

REPAIRS



GEOSYNTEC CONSULTANTS
Boynton Beach, Florida



Trail Ridge Landfill, Inc.

Repair Summary Log

Secondary

Sheet No.: 24 of

Project: Trail Ridge Landfill

Project No.: FQ2030

Phase: I & II

Location: Jacksonville, Florida

Contractor: National Seal Company

Year: 1992

Date Repaired (mo/dy)	Seam or Panel No.	Location	Repair				Oper. I.D.	Mach. No.	Q.A. I.D.	Non-Destructive Testing				
			No.	Code (1)	Type (2)	Dim.				Date (mo/dy)	Oper. I.D.	Pass	Fail	Q.A. I.D.
4-3-92	5-113/5-114	188' to 0'	SR-428	25-564	E.	2x5'	2037	G-#9	J.K.	4-3-92	2067	Pass	-	J.K.
4-3	P-#113/113/114	88' to 0'	SR-429	P.	E.	1x1'	2068	G-#15	J.K.	4-3	2067	Pass	-	J.K.
4-3	P-#114/113	474' 4'E. of 511' 112/114	SR-430	G.	E.	-	2068	G-#15	J.K.	4-3	2067	Pass	-	J.K.
4-3	P-#114/113	354' 5'E. of 511' 112/114	SR-431	G.	E.	-	2068	G-#15	J.K.	4-3	2067	Pass	-	J.K.
4-3	5-113/5-115	21' to 0'	SR-432	G.	E.	-	2068	G-#15	J.K.	4-3	2067	Pass	-	J.K.
4-3	P-#113/114/115	78' to 0'	SR-433	P.	E.	1x1'	2068	G-#15	J.K.	4-3	2067	Pass	-	J.K.
4-3	5-115/5-116	268' to 0'	SR-434	25-565	E.	2x5'	2036	G-#9	J.K.	4-3	2067	Pass	-	J.K.
4-3	P-#116	268' to 0' 4' W. of 511' 112	SR-435	G.	E.	-	2036	G-#9	J.K.	4-3	2067	Pass	-	J.K.
4-3	5-124/5-125	38' to 0'	SR-436	P.	E.	1x1'	2036	G-#9	J.K.	4-3	2067	Pass	-	J.K.
4-3	5-124/5-125	0' to 38'	SR-437	R.	E.	-	2036	G-#9	J.K.	4-3	2067	Pass	-	J.K.
4-4	P-#51/124/125	78' to 0'	SR-438	C	E	2x24'	2010	G-#15	J.K.	4-4-92	2010	Pass	-	J.K.
4-4	5-106/5-107	300' to 0'	SR-439	25-560B	E.	2x5'	2010	G-#15	J.K.	4-4	2067	P.	-	J.K.
4-4	5-106/5-107	Between SR-439 & SR-386	SR-440	R.	E.	-	2010	G-#15	J.K.	4-4	2067	P.	-	J.K.
4-4	5-106/5-107	274' to 0'	SR-441	25-560A	E.	2x5'	2010	G-#15	J.K.	4-4	2067	P.	-	J.K.
4-4	5-106/5-107	Between SR-441 & SR-386	SR-442	R	E.	-	2010	G-#15	J.K.	4-6-92	2067	P.	-	J.K.
4-4	P-#115	227' 4' W. of 511' 112/116	SR-443	G	E.	-	2010	G-#15	J.K.	4-6	2067	P.	-	J.K.
4-6	5-51/5-107	63' to 0' 6'E. of 511' 112/116	SR-444	P.	E.	1x1'	2010	G-#15	J.K.	4-6	2067	P.	-	J.K.
4-6	P-#127	60' 4' 2'E. of 511' 112/116	SR-445	G.	E.	-	2010	G-#15	J.K.	4-6	2067	P.	-	J.K.
4-6	5-127/5-128	46' to 0'	SR-446	G.	E.	-	2010	G-#15	J.K.	4-6	2067	P.	-	J.K.



GEOSYNTEC CONSULTANTS
Boynton Beach, Florida



Trail Ridge Landfill, Inc.

Repair Summary Log

Sheet No.: 25 of

SECONDARY

Project: Trail Ridge Landfill

Project No.: FQ2030

Phase: I & II

Location: Jacksonville, Florida

Contractor: National Seal Company

Year: 1992

Date Repaired (mo/dy)	Seam or Panel No.	Location	Repair			Oper. I.D.	Mach. No.	Q.A. I.D.	Non-Destructive Testing				
			No.	Code (1)	Type (2)				Dim.	Date (mo/dy)	Oper. I.D.	Pass	Fail
4-6-72	P-# 127	21'42" E. of 51m # 5-1264 5-127	SR-447	J# 567	E.	-	2010	G-# 15	4-8	2067	P.		J.K.
4-6	5-112/5-114	116' to 0'	SR-448	G.	E.	-	2010	G-# 15	4-8	2067	P.		J.K.
4-6	P-# 104/106/107	166' to 0' T.	SR-449	G.	E.	-	2010	G-# 15	4-8	2067	P.		J.K.
4-8	5-130/5-131	200' to 0'	SR-450	P# 567	E.	2x5'	2010	G-# 8	4-8	2067	P.		J.K.
4-8	5-131/5-133	243' to 0' 3' W. of 51m 131/133	SR-451	P	E.	2x2'	2010	G-# 8	4-8	2067	P.		J.K.
4-8	5-131/5-133	241' to 0'	SR-452	G.	E.	-	2010	G-# 8	4-8	2067	P.		J.K.
4-8	P-# 131/132/133	183' to 0' T.	SR-453	G.	E.	-	2010	G-# 8	4-8	2067	P.		J.K.
4-8	P-# 133	185' to 6' E. of 51m 131/133	SR-454	P.	E.	1x1'	2010	G-# 8	4-8	2067	P.		J.K.
4-8	P-# 133	185' to 10' E. of 51m 131/133	SR-455	P.	E.	1x1'	2010	G-# 8	4-8	2067	P.		J.K.
4-8	5-131/5-132	140' to 0'	SR-456	R.	E.	6'	2010	G-# 8	4-8	2060	P.		J.K.
4-8	P-# 131	143' to 4' W. of 51m 131/132	SR-457	P.	E.	2x3'	2010	G-# 8	4-8	2060	P.		J.K.
4-8	P-# 131	Between SR-456 & SR-457	SR-458	G.	E.	-	2010	G-# 8	4-8	2060	P.		J.K.
4-8	5-132/5-133	5' to 0'	SR-459	P# 568	E.	2x5'	2010	G-# 8	4-8	2060	P.		J.K.
4-8	5-132/5-133	68' to 0'	SR-460	P.	E.	4x5'	2010	G-# 8	4-8	2060	P.		J.K.
4-8	5-132/5-133	SR-459 to 98'	SR-461	R.	E.	-	2010	G-# 8	4-8	2060	P.		J.K.
4-8	P-# 133	113' to 3' E. of 51m 132/133	SR-462	G.	E.	-	2010	G-# 8	4-8	2060	P.		J.K.
4-8	P-# 132	144' to 3' W. of 51m 132/133	SR-463	P.	E.	3x3'	2010	G-# 8	4-8	2060	P.		J.K.
4-8	5-132/5-133	135' to 144'	SR-464	R.	E.	-	2010	G-# 8	4-8	2060	P.		J.K.
4-8	P-# 132	SR-463 to SR-464	SR-465	G.	E.	-	2010	G-# 8	4-8	2060	P.		J.K.



GEOSYNTEC CONSULTANTS
Boynton Beach, Florida



Trail Ridge Landfill, Inc.

Repair Summary Log

Sheet No.: 26 of

SECONDARY

Project: Trail Ridge Landfill

Project No.: FQ2030

Phase: I & II

Location: Jacksonville, Florida

Contractor: National Seal Company

Year: 1992

Date Repaired (mo/dy)	Seam or Panel No.	Location	Repair				Oper. I.D.	Mach. No.	Q.A. I.D.	Non-Destructive Testing				
			No.	Code (1)	Type (2)	Dim.				Date (mo/dy)	Oper. I.D.	Pass	Fail	Q.A. I.D.
4-8-92	P-133/133/134	183' to 0' T	SR-466	G.	E.	-	2010	G-#8	J.K.	4-10-92	2037	Pass	-	J.K.
4-8	5-134/5-135	225' to 0'	SR-467	D/S-69	E.	2x5'	2010	G-#8	J.K.	4-10	2037	P.		J.K.
4-8	P-#135	4' to 0' 23' E. of 5m #134/135	SR-468	P.	E.	2x2'	2010	G-#8	J.K.	4-10	2037	P.		J.K.
4-8	5-136/5-137	139' to 0'	SR-469	P.	E.	2x2'	2010	G-#8	J.K.	4-10	2037	P.		J.K.
4-8	5-136/5-137	15' to 0"	SR-470	D/S-70	E.	2x5'	2010	G-#8	J.K.	4-10	2037	P.		J.K.
4-8 ¹⁰	5-137/5-138	176' to 0'	SR-471	D/S-71	E.	2x5'	2010	G-#15	J.K.	4-10	2037	P.		J.K.
4-8 ¹⁰	5-138/5-139	83' to 0'	SR-472	P.	E.	2x3'	2004	G-#15	J.K.	4-10	2037	P.		J.K.
4-10	P-139/140/141	268' to 0'	SR-473	P.	E.	2x3'	2010	G-#15	J.K.	4-10	2037	P.		J.K.
4-10	5-139/5-140	143' to 0'	SR-474	P.	E.	1x1'	2004	G-#15	J.K.	4-10	2037	P.		J.K.
4-10	5-139/5-140	140' to 0'	SR-475	P.	E.	1x4'	2004	G-#15	J.K.	4-10	2067	P.		J.K.
4-10	5-139/5-140	136' to 0'	SR-476	P.	E.	1x1'	2004	G-#15	J.K.	4-10	2067	P.		J.K.
4-10	5-139/5-140	Between SR-474 & SR-476	SR-477	R.	E.	-	2004	G-#15	J.K.	4-10	2067	P.		J.K.
4-10	5-139/5-140	55' to 0'	SR-478	D/S-72	E.	2x5'	2004	G-#15	J.K.	4-10	2037	P.		J.K.
4-10	5-140/5-142	156' to 0'	SR-479	D/S-73	E.	2x5'	2010	G-#15	J.K.	4-10	2037	P.		J.K.
4-10	P-140/141/142	268' to 0'	SR-480	P.	E.	2x3'	2010	G-#15	J.K.	4-10	2067	P.		J.K.
4-10	5-141/5-142	272' to 0'	SR-481	P.	E.	1x1'	2010	G-#15	J.K.	4-10	2067	P.		J.K.
4-10	5-141/5-142	EXT. ENTIRE SEAM	SR-482	R.	E.	-	2010	G-#15	J.K.	4-10	2067	P.		J.K.
4-10	5-143/5-144	268' to 0'	SR-483	D/S-74	E.	2x5'	2010	G-#15	J.K.	4-10	2067	P.		J.K.
4-10	P-#144	167' to 2' E. of 5m #143/144	SR-484	P.	E.	1x1'	2010	G-#15	J.K.	4-10	2067	P.		J.K.



GEOSYNTEC CONSULTANTS
Boynton Beach, Florida



Trail Ridge Landfill, Inc.

Repair Summary Log

Sheet No.: 27 of

SECONDARY

Project: Trail Ridge Landfill

Project No.: FQ2030

Phase: I & II

Location: Jacksonville, Florida

Contractor: National Seal Company

Year: 1992

Date Repaired (mo/dy)	Seam or Panel No.	Location	Repair				Oper. I.D.	Mach. No.	Q.A. I.D.	Non-Destructive Testing			
			No.	Code (1)	Type (2)	Dim.				Date (mo/dy)	Oper. I.D.	Pass	Fail
4-10	5-144/5-146	146' to 0'	SR-485	G	E	-	2010	G-#15	J.K.	4-10-92	2067	P	J.K.
4-10	P#144/145/146	111' to 0'	SR-486	P	E	1x2'	2037	G-#9	J.K.	4-10	2067	P	J.K.
4-10	5-145/5-146	7' W. OF 5' W 5-146/5-147	SR-487	2/3 S-75	E	2x5'	2037	G-#9	J.K.	4-10	2067	P	J.K.
4-10	P#145/146/147	111' to 0'	SR-488	P	E	1x1'	2037	G-#9	J.K.	4-10	2067	P	J.K.
4-10	5-146/5-147	124' to 0'	SR-489	P	E	1x1'	2037	G-#9	J.K.	4-10	2067	P	J.K.
4-10	5-146/5-147	BETWEEN SR-488 & SR-489	SR-490	R	E	-	2037	G-#9	J.K.	4-10	2067	P	J.K.
4-10	5-146/5-147	141' to 0'	SR-491	P	E	1x1'	2037	G-#9	J.K.	4-10	2067	P	J.K.
4-10	5-146/5-147	178' to 0'	SR-492	P	E	1x1'	2010	G-#15	J.K.	4-10	2067	P	J.K.
4-10	5-146/5-147	223' to 0'	SR-493	P	E	1x1'	2004	G-#15	J.K.	4-10	2067	P	J.K.
4-10	5-147/5-148	88' to 0'	SR-494	2/3 S-76	E	2x5'	2037	G-#9	J.K.	4-10	2067	P	J.K.
4-10	P#148/149/150	256' to 0'	SR-495	P	E	2x2'	2004	G-#15	J.K.	4-10	2067	P	J.K.
4-10	P#149/150/151	256' to 0'	SR-496	P	E	2x2'	2004	G-#15	J.K.	4-10	2067	P	J.K.
4-10	5-149/5-151	216' to 0'	SR-497	2/3 S-77	E	2x5'	2004	G-#15	J.K.	4-10	2067	P	J.K.
4-10	5-149/5-151	147' to 0'	SR-498	P	E	2x2'	2036	G-#9	J.K.	4-10	2067	P	J.K.
4-10	5-149/5-151	130' to 0'	SR-499	P	E	2x2'	2036	G-#9	J.K.	4-10	2067	P	J.K.
4-10	5-149/5-151	BETWEEN SR-498 & SR-499	SR-500	R	E	-	2036	G-#9	J.K.	4-10	2067	P	J.K.
4-10	5-151/5-152	72' to 0'	SR-501	P	E	2x2'	2037	G-#9	J.K.	4-10	2067	P	J.K.
4-10	P-# 151	77' & 6' W. OF 5' W 151/152	SR-502	P	E	1x1'	2037	G-#9	J.K.	4-10	2067	P	J.K.
4-10	P-# 151	BETWEEN SR-501 & SR-502	SR-503	G	E	-	2037	G-#9	J.K.	4-10	2067	P	J.K.

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Notes: (1) Repair Codes: P = Patch C = Cap
(2) Repair Types: E = Extrusion F = Fusion

G = Grind & Weld DS = Destructive Sample

R = Reconstruction

T = Topping

REMARKS



GEOSYNTEC CONSULTANTS
Boynton Beach, Florida



Trail Ridge Landfill, Inc.

Repair Summary Log

SECONDARY

Sheet No.: 28 of

Project: Trail Ridge Landfill

Project No.: FQ2030

Phase: I & II

Location: Jacksonville, Florida

Contractor: National Seal Company

Year: 1992

Date Repaired (mo/dy)	Seam or Panel No.	Location	Repair			Oper. I.D.	Mach. No.	Q.A. I.D.	Non-Destructive Testing				
			No.	Code (1)	Type (2)				Dim.	Date (mo/dy)	Oper. I.D.	Pass	Fail
4-10	5-151/5-152	78' to 0'	SR-504	P.	E.	2x2'	G-49	J.K.	4-10	2067	P.		J.K.
4-10	5-151/5-152	BETWEEN SR-504 & SR-501	SR-505	R.	E.	-	G-49	J.K.	4-10	2067	P.		J.K.
4-10	5-151/5-152	125' to 0'	SR-506	P/S-78	E.	2x5'	G-49	J.K.	4-10	2067	P.		J.K.
4-10	5-151/5-152	206' to 0'	SR-507	P.	E.	2x4'	G-415	J.K.	4-10	2067	P.		J.K.
4-10	5-152/5-153	222' to 0'	SR-508	P/S-79	E.	3x8	G-415	J.K.	4-10	2067	P.		J.K.
4-10	5-152/5-153	148' to 0'	SR-509	P.	E.	1x1'	G-49	J.K.	4-10	2067	P.		J.K.
4-10	5-152/5-153	139' to 0'	SR-510	P.	E.	2x4'	G-49	J.K.	4-10	2067	P.		J.K.
4-10	5-152/5-153	BETWEEN SR-509 & SR-510	SR-511	R.	E.	-	G-49	J.K.	4-10	2067	P.		J.K.
4-10	5-152/5-153	105' to 0'	SR-512	P.	E.	1x1'	G-49	J.K.	4-10	2067	P.		J.K.
4-10	5-152/5-153	81' to 0'	SR-513	P.	E.	2x4'	G-49	J.K.	4-10	2067	P.		J.K.
4-10	5-152/5-153	BETWEEN SR-512 & SR-513	SR-514	R.	E.	-	G-49	J.K.	4-10	2067	P.		J.K.
4-11	5-153/5-154	84' to 0'	SR-515	P.	E.	3x3'	G-49	J.K.	4-10	2037	P.		J.K.
4-11	5-153/5-154	84' to 0'	SR-516	P.	E.	2x2'	G-49	J.K.	4-10	2037	P.		J.K.
4-11	5-154/5-155	84' to 0' EXT Full Seam	SR-517	R.	E.	-	G-49	J.K.	4-10	2037	P.		J.K.
4-10	5-153/5-155	145' to 0'	SR-518	P.	E.	2x4'	G-49	J.K.	4-10	2037	P.		J.K.
4-10	5-153/5-155	222' to 0'	SR-519	P.	E.	3x4'	G-415	J.K.	4-10	2037	P.		J.K.
4-10	5-153/5-155	247' to 0'	SR-520	P.	E.	2x6'	G-415	J.K.	4-10	2037	P.		J.K.
4-10	5-153/5-155	BETWEEN SR-519 & SR-520	SR-521	R.	E.	-	G-415	J.K.	4-10	2067	P.		J.K.
4-10	5-155/5-156	292' to 0'	SR-522	G.	E.	-	G-415	J.K.	4-10	2067	P.		J.K.
© GEO SYNTHE CONSULTANTS		Notes: (1) Repair Codes: (2) Repair Types:	Patch Extrusion	C = Cap F = Fusion	G = Grind & Weld	DS = Destructive Sample	R = Reconstruction	T = Topping					J.K.
4-10	5-154/5-156	24' to 0'	SR-516A	P/S-81	E.	2x5'	G-49	J.K.	4-10	2067	P.		J.K.



GEOSYNTEC CONSULTANTS
Boynton Beach, Florida



Trail Ridge Landfill, Inc.

Repair Summary Log

SECONDARY

Sheet No.: 27 of

Project: Trail Ridge Landfill

Project No.: FQ2030

Phase: I & II

Location: Jacksonville, Florida

Contractor: National Seal Company

Year: 1992

Date Repaired (mo/dy)	Seam or Panel No.	Location	Repair				Oper. I.D.	Mach. No.	Q.A. I.D.	Non-Destructive Testing				
			No.	Code (1)	Type (2)	Dim.				Date (mo/dy)	Oper. I.D.	Pass	Fail	Q.A. I.D.
4-11	5-155/5-156	240' to 0'	SR-523	P.	E.	2x5'	2036	G-49	J.K.	4-11	2037	P.		J.K.
4-11	5-155/5-156	204' to 0'	SR-524	P.	E.	3x3	2036	G-49	J.K.	4-11	2037	P.		J.K.
4-10	5-155/5-156	145' to 0'	SR-525	P.	E.	2x2'	2037	G-49	J.K.	4-11	2037	P.		J.K.
4-10	P-# 155	142' to 8' W. of 9' m. # 155/156	SR-526	P.	E.	2x2'	2037	G-49	J.K.	4-11	2037	P.		J.K.
4-10	P-# 155	BETWEEN SR-525 & SR-526	SR-527	G.	E.	-	2037	G-49	J.K.	4-11	2037	P.		J.K.
4-10	5-155/5-156	136' to 0'	SR-528	P.	E.	3x3'	2037	G-49	J.K.	4-11	2067	P.		J.K.
4-10	5-155/5-156	BETWEEN SR-525 & SR-528	SR-529	R.	E.	-	2037	G-49	J.K.	4-11	2067	P.		J.K.
4-11	5-156/5-157	138' to 0'	SR-530	P.	E.	2x2'	2036	G-49	J.K.	4-11	2067	P.		J.K.
4-11	5-156/5-157	155' to 0'	SR-531	P.	E.	1x1'	2036	G-49	J.K.	4-11	2037	P.		J.K.
4-11	5-156/5-157	BETWEEN SR-531 & SR-532	SR-532	R.	E.	-	2036	G-49	J.K.	4-11	2037	P.		J.K.
4-11	5-157/5-159	294' to 0'	SR-533	D-# 582	E.	2x5'	2036	G-49	J.K.	4-11	2037	P.		J.K.
4-11	P-# 157	214' to 2' W. of 5' m. 157/158	SR-534	P.	E.	1x1'	2036	G-49	J.K.	4-11	2037	P.		J.K.
4-11	P-# 157/158/159	214' to 0'	SR-535	P.	E.	2x2'	2036	G-49	J.K.	4-13-92	2025	P.	-	J.K.
4-11	P-# 158/159/160	214' to 0'	SR-536	P.	E.	2x2'	2036	G-49	J.K.	4-13	2025	P.		J.K.
4-11	5-158/5-159	EXT. ENTIRE SEAM	SR-537	R.	E.	-	2036	G-49	J.K.	4-13	2025	P.		J.K.
4-10	5-20/5-129	383' to 0'	SR-538	P.	E.	3x7	2010	G-4/15	J.K.	4-13	2025	P.		J.K.
4-10	P-# 129/130/131	384' to 0'	SR-539	G.	E.	-	2010	G-4/15	J.K.	4-13	2025	P.		J.K.
4-10	P-# 129/130/131	385' to 0'	SR-540	G.	E.	-	2010	G-4/15	J.K.	4-13	2025	P.		J.K.
4-10	P-# 131/132	385' to 0' - T.	SR-541	G.	E.	-	2010	G-4/15	J.K.	4-13-92	2025	P.	-	J.K.

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Notes: (1) Repair Codes: P = Patch C = Cap
(2) Repair Types: E = Extrusion F = Fusion

DS = Destructive Sample

G = Grind & Weld

R = Reconstruction

T = Topping

8/2/92 J.R.



GEOSYNTEC CONSULTANTS
Boynton Beach, Florida



Trail Ridge Landfill, Inc.

Repair Summary Log

Sheet No.: 30 of

SECONDARY

Project: Trail Ridge Landfill

Project No.: FQ2030

Phase: I & II

Location: Jacksonville, Florida

Contractor: National Seal Company

Year: 1992

Date Repaired (mo/dy)	Seam or Panel No.	Location	Repair			Oper. I.D.	Mach. No.	Q.A. I.D.	Non-Destructive Testing					
			No.	Code (1)	Type (2)				Dim.	Date (mo/dy)	Oper. I.D.	Pass	Fail	Q.A. I.D.
4-10-92	P#24/26/133/134	386' to 0' - T.	SR-542	G.	E.	-	2010	G-#15	J.K.	4-13-92	2025	P.	-	J.K.
4-10	P#24/27/133/135	383' to 0' - T.	SR-543	G.	E.	-	2010	G-#15	J.K.	4-13	2025	P.		J.K.
4-10	P#27/28/135/136	387' to 0' - T.	SR-544	G.	E.	-	2010	G-#15	J.K.	4-13	2025	P.		J.K.
4-10	P#28/29/134/137	386' to 0' - T.	SR-545	G.	E.	-	2010	G-#15	J.K.	4-13	2025	P.		J.K.
4-10	P-#132	3' to 0' (T.O. 132/138)	SR-546	P.	E.	2x3'	2010	G-#15	J.K.	4-13	2025	P.		J.K.
4-10	P#29/31/131/138	386' to 0' - T.	SR-547	P.	E.	3x5'	2010	G-#15	J.K.	4-13	2025	P.		J.K.
4-10	P#31/32/133/139	387' to 0' - T.	SR-548	G.	E.	-	2037	G-#9	J.K.	4-13	2025	P.		J.K.
4-10	P#32/33/133/140	387' to 0' - T.	SR-549	G.	E.	-	2037	G-#9	J.K.	4-13	2025	P.		J.K.
4-10	P#33/34/140/142	386' to 0' - T.	SR-550	G.	E.	-	2032	G-#9	J.K.	4-13	2025	P.		J.K.
4-10	S-34/5-142	386' to 0' - T.	SR-551	P/S-580	E.	2x0'	2037	G-#9	J.K.	4-13	2025	P.		J.K.
4-13	P#34/36/143/143	385' to 0' - T.	SR-552	G.	E.	-	2036	G-#9	J.K.	4-13	2025	P.		J.K.
4-10	P#36/37/143/144	385' to 0' - T.	SR-553	G.	E.	-	2036	G-#9	J.K.	4-13-92	2065	P.	-	J.K.
4-10	P#37/38/144/145	386' to 0' - T.	SR-554	P.	E.	1x1'	2036	G-#9	J.K.	4-13	2065	P.		J.K.
4-10	P#38/40/145/147	387' to 0' - T.	SR-555	P.	E.	1x1'	2036	G-#9	J.K.	4-13	2065	P.		J.K.
4-10	P#40/41/147/148	385' to 0' - T.	SR-556	P.	E.	1x1'	2036	G-#9	J.K.	4-13	2065	P.		J.K.
4-10	P-#148	1' to CENTERLINE 148-149	SR-557	P.	E.	1x1'	2036	G-#9	J.K.	4-13	2065	P.		J.K.
4-10	P#41/42/148/149	383' to 0' - T.	SR-558	P.	E.	1x1'	2036	G-#9	J.K.	4-13	2065	P.		J.K.
4-10	P#42/43/149/151	385' to 0' - T.	SR-559	P.	E.	1x1'	2036	G-#9	J.K.	4-13	2065	P.		J.K.
4-11	S-43/5-151	385' to 0' to 0' of 5m 151/152	SR-560	P.	E.	3x3	2010	G-#15	J.K.	4-13-92	2065	P.	-	J.K.

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Notes: (1) Repair Codes: P = Patch C = Cap

(2) Repair Types: E = Extrusion F = Fusion

G = Grind & Weld

DS = Destructive Sample

R = Reconstruction

T = Topping

REPAIR LOG



GEOSYNTEC CONSULTANTS
Boynton Beach, Florida



Trail Ridge Landfill, Inc.

Repair Summary Log

Sheet No.: 31 of

SECONDARY

Project: Trail Ridge Landfill

Project No.: FQ2030

Phase: I & II

Location: Jacksonville, Florida

Contractor: National Seal Company

Year: 1992

Date Repaired (mo/dy)	Seam or Panel No.	Location	Repair			Oper. I.D.	Mach. No.	Q.A. I.D.	Non-Destructive Testing					
			No.	Code (1)	Type (2)				Dim.	Date (mo/dy)	Oper. I.D.	Pass	Fail	Q.A. I.D.
4/11	S48/S156	4' E SM 154/156	SR-561	P	E	2' x 2'	JR	6-15	2010	4-13	2043	P		J.K.
4/11	S44/S152	BTWN SE S61 & SE S62	SR-562	C	E	52' x 2'	JR	6-15	2004	4/13	2043	P		JR
4/11	S48/S156/157	T	SR-563	G	E	-	JR	6-15	2010	4-13	2043	P		J.K.
4/10	S50/S157/158	T	SR-564	G	E	-	JR	6-15 32	2067	4-13	2043	P		J.K.
4/11	S52/S158/159	1/2' W SM 158/160	SR-565	P	E	15' x 3	JR	6-15	2010	4/13	2025	P		JR
3/21	S53/S160/155		SR-566	C	E	15' x 3	2037	6-15	JR	4-13	2025	P		J.K.
4/11	S56/S162/162	BEGINS 3 1/2' E S161/S162	SR-567	P	E	12' x 3	2010	6-15	JR	4-13	2026	P		J.K.
4/11	S58/S163	3 1/2' E S162/163	SR-568	P	E	2' x 2	2011	6-15	JR	4-13	2025	P		J.K.
4/11	S58/S163/164	T	SR-569	G	E	-	2010	6-15	JR	4-13	2025	P		J.K.
4/11	S59/S164/165	T	SR-570	G	E	-	2010	6-15	JR	4-13	2025	P		J.K.
4/13	S60/S165/166	T	SR-571	G	E	-	2010	6-15	JR	4-13	2025	P		J.K.
4/13	S62/S167	6' E SM 165/167	SR-572	P	E	6' x 2	2010	6-15	JR	4-13	2025	P		J.K.
4/13	S62/S167/168	T	SR-573	G	E	-	2010	6-15	JR	4-13	2025	P		J.K.
4/13	S63/S168	1/2' W S168/169	SR-574	P	E	5' x 2	2010	6-15	JR	4-13	2025	P		J.K.
4/13	S63/S168/169	T	SR-575	G	E	-	2010	6-15	JR	4-13	2025	P		J.K.
4/13	S65/S169/170	T	SR-576	G	E	-	2010	6-15	JR	4-13	2025	P		J.K.
4/11	S66/S170/172	T	SR-577	G	E	-	2010	6-15	JR	4-13	2025	P		J.K.
4/13	S151/S152	67' TO 0	SR-578	P	E	2' x 5'	2019	6-15	4R	4-13	2025	P		J.K.
4/13	S151/S152	92' TO 0	SR-579	P	E	2' x 2	2019	6-18	4R	4-13	2025	P		J.K.
GeoSYNTER	CONSULTANTS	Notes: (1) Repair Codes: P = Patch, E = Extrusion, C = Cap, F = Fusion, G = Grind & Weld, DS = Destructive Sample	Patch Extrusion	C = Cap F = Fusion	G =	Grind & Weld	DS =	Destructive Sample	R =	Reconstruction	T =	Topping		J.K.
4-13	S-62/3-167	6' W. OF 51m 167/168	SR-572A	P	E	2' x 5'	2010	6-15	J.K.	4-13	2025	P		J.K.



GEOSYNTEC CONSULTANTS
Boynton Beach, Florida



Trail Ridge Landfill, Inc.

Repair Summary Log

SECONDARY

Sheet No.: 32 of

Project: Trail Ridge Landfill

Project No.: FQ2030

Phase: I & II

Location: Jacksonville, Florida

Contractor: National Seal Company

Year: 1992

Date Repaired (mo/dy)	Seam or Panel No.	Location	Repair				Oper. I.D.	Mach. No.	Q.A. I.D.	Non-Destructive Testing				
			No.	Code (1)	Type (2)	Dim.				Date (mo/dy)	Oper. I.D.	Pass	Fail	Q.A. I.D.
4/13	S151/152	113' TO 0	SR580	P	E	2x2	2066	6-18	JR	4-13	2025	P		JR
4/13	S151/152	138' TO 0	SR581	P	E	2x2	2066	6-18	JR	4-13	2025	P		JR
4/13	S151/152	136' TO 0	SR582	P	E	2x2	2066	6-18	JR	4-13	2025	P		JR
4/13	S151/152	159' TO 0	SR583	P	E	5x2	2019	6-18	JR	4-13	2025	P		JR
4/13	S151/152	94' TO 0	SR584	P	E	2x2	2019	6-18	JR	4-13	2025	P		JR
4/13	S151/152	BTWN SR584 - 578	SR585	R	E	-	2019	6-18	JR	4/13	2025	P		JR
4/13	S160/161	124' TO 0	SR586	P	E	4x2	2019	6-18	JR	4-13	2025	P		JR
4/13	S162/163	109' TO 0	SR587	P	E	5x2	2066	6-18	JR	4-13	2025	P		JR
4/13	S168/172/173	AT 0	SR588	G	E	-	2018	6-15	JR	4-13	2025	P		JR
4/13	S69/173/174	AT 0	SR589	G	E	-	2010	6-15	JR	4-13	2025	P		JR
4/13	S70/174/176	AT 0	SR590	G	E	-	2010	6-15	JR	4-13	2025	P		JR
4/13	S71/176/177	AT 0	SR591	G	E	-	2010	6-15	JR	4-13	2025	P		JR
4/13	S73/177/178	AT 0	SR592	G	E	-	2010	6-15	JR	4-13	2025	P		JR
4/13	S75/176/179	1/2' E S178/179	SR593	P	E	5x3	2036	6-9	JR	4/13	2025	P		JR
4/13	S76/179/181	AT 0	SR614	G	E	-	2036	6-9	JR	4-13	2025	P		JR
4/13	S77/181/182	T	SR595	G	E	-	2036	6-9	JR	4-13	2025	P		JR
4/13	S79/182/183	T	SR596	G	E	-	2036	6-9	JR	4-13	2025	P		JR
4/13	S80/183/185	T	SR597	G	E	-	2036	6-9	JR	4-13	2025	P		JR
4/13	S82/185/186	T	SR598	G	E	-	2036	6-9	JR	4-13	2025	P		JR

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Notes: (1) Repair Codes: P = Patch

(2) Repair Types: E = Extrusion F = Fusion

G = Grind & Weld

DS = Destructive Sample

R = Reconstruction

T = Topping

REPAIRS.XLS



GEOSYNTEC CONSULTANTS
Boynton Beach, Florida



Trail Ridge Landfill, Inc.

Repair Summary Log

Sheet No.: 33 of

Secondary

Project: Trail Ridge Landfill

Project No.: F02030

Phase: I & II

Location: Jacksonville, Florida

Contractor: National Seal Company

Year: 1992

Date Repaired (mo/dy)	Seam or Panel No.	Location	Repair			Oper. I.D.	Mach. No.	Q.A. I.D.	Non-Destructive Testing				
			No.	Code (1)	Type (2)				Dim.	Date (mo/dy)	Oper. I.D.	Pass	Fail
4/13	S83/86/187	AT T OF 3 PANELS	SR-594	P	E	2x2	2036	G-9	JR	2025	P		JR
4/13	S83/84/187	2'-E OF S8590 T	SR-591 ¹⁸	P	E	2x2	2036	G-9	JR	2025	P		JR
4/13	S152/153	238' TO 0	SR-591 ¹⁸	S-794	E	5x2	2066	G-18	JR	2025	P		JR
4/13	S152/153	207' TO 0	SR-593 ¹⁸	S-794	E	5x2	2066	G-18	JR	2025	P		JR
4/13	S-160/5-161	124' TO 0'	SR-603	D ¹⁸ S-83	E	2x5'	2019	G-18	JR	2025	P		JR
4/13	S-162/5-163	107' TO 0'	SR-604	D ¹⁸ S-84	E	2x5'	2066	G-18	JR	2025	P		JR
4/13	S-167/5-165	131' TO 0'	SR-605	P	E	2x2'	2036	G-9	JR	2025	P		JR
4/13	P-# 164	140' TO 0' OF 3m 164/165	SR-606	G-18	E	2x2'	2036	G-9	JR	2025	P		JR
4/13	P-# 164	BETWEEN SR-605 & SR-606	SR-607	G	E	-	2036	G-9	JR	2025	P		JR
4/13	S-164/5-165	141' TO 0'	SR-608	D ¹⁸ S-85	E	2x5'	2019	G-18	JR	2025	P		JR
4/13	P-164/165/166	257' TO 0' T.	SR-609	G	E	-	2036	G-9	JR	2025	P		JR
4/13	P-165/166/167	257' TO 0' - T.	SR-610	G	E	-	2036	G-9	JR	2025	P		JR
4/13	S-167/5-168	217' TO 0'	SR-611	D ¹⁸ S-86	E	2x5'	2036	G-9	JR	2025	P		JR
4/13	S-167/5-168	139' TO 0'	SR-612	P	E	1x4'	2036	G-9	JR	2025	P		JR
4/13	S-168/5-169	143' TO 0'	SR-613	G	E	-	2036	G-9	JR	2025	P		JR
4/13	P-# 168	142' TO 0' OF 5-168/5-169	SR-614	P	E	2x2'	2036	G-9	JR	2025	P		JR
4/13	S-169/5-171	303' TO 0'	SR-615	P	E	2x5'	2036	G-9	JR	2025	P		JR
4/13	P-# 168	BETWEEN SR-613 & SR-614	SR-616	G	E	-	2036	G-9	JR	2025	P		JR
4/13	S-169/5-171	SR-615 & EXT TO S. END	SR-617	R	E	-	2036	G-9	JR	2025	P		JR

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Notes: (1) Repair Codes: P = Patch, C = Cap, E = Extrusion, F = Fusion

(2) Repair Types: G = Grind & Weld, DS = Destructive Sample, R = Reconstruction, T = Topping

REPAIRS



GEOSYNTEC CONSULTANTS
Boynton Beach, Florida



Trail Ridge Landfill, Inc.

Repair Summary Log

Sheet No.: 34 of

SECONDARY

Project: Trail Ridge Landfill

Project No.: FQ2030

Phase: I & II

Location: Jacksonville, Florida

Contractor: National Seal Company

Year: 1992

Date Repaired (mo/dy)	Seam or Panel No.	Location	Repair			Oper. I.D.	Mach. No.	Q.A. I.D.	Non-Destructive Testing					
			No.	Code (1)	Type (2)				Dim.	Date (mo/dy)	Oper. I.D.	Pass	Fail	Q.A. I.D.
4-13-92	S-169/S-171	289' to 0'	SR-618	P.	E.	2x4'	2037	G-#9	J.K.	4-13	2025	P.		J.K.
4-13	S-169/S-171	SR-618 to 0'S. END	SR-619	R.	E.	-	2037	G-#9	J.K.	4-13	2025	P.		J.K.
4-13	S-169/S-171	274' to 0'	SR-620	Q/S-87	E.	2x5'	2036	G-#9	J.K.	4-13	2025	P.		J.K.
4-13	S-169/S-171	157' to 0'	SR-621	P.	E.	4x4'	2036	G-#9	J.K.	4-13	2025	P.		J.K.
4-13	S-169/S-171	180' to 0'	SR-622	P.	E.	2x3'	2036	G-#9	J.K.	4-13	2025	P.		J.K.
4-13	S-169/S-171	BETWEEN SR-621 & SR-622	SR-623	R.	E.	-	2036	G-#9	J.K.	4-13	2025	P.		J.K.
4-13	S-169/S-171	134' to 0'	SR-624	P.	E.	3x3'	2036	G-#9	J.K.	4-13	2025	P.		J.K.
4-13	P-# S-169	141' to 2' W. OF S/M 169/171	SR-625	P.	E.	2x2'	2036	G-#9	J.K.	4-13	2025	P.		J.K.
4-13	P-# S-169	BETWEEN SR-624 & SR-625	SR-626	G.	E.	-	2036	G-#9	J.K.	4-13	2025	P.		J.K.
4-13	P#169/170/171	87' to 0' T.	SR-627	G.	E.	-	2036	G-#9	J.K.	4-13	2027	P.		J.K.
4-13	P#170/171/172	87' to 0' - T.	SR-628	G.	E.	-	2036	G-#9	J.K.	4-13	2027	P.		J.K.
4-13	S-171/S-172	140' to 0'	SR-629	P.	E.	2x3	2036	G-#9	J.K.	4-13	2027	P.		J.K.
4-13	P#-S-171	143' to 6' W. OF S/M 5-171	SR-630	P.	E.	2x2	2036	G-#9	J.K.	4-13	2027	P.		J.K.
4-13	P#-S-171	BETWEEN SR-629 & SR-630	SR-631	G.	E.	-	2036	G-#9	J.K.	4-13	2027	P.		J.K.
4-13	S-171/S-172	166' to 0'	SR-632	P.	E.	1x4'	2027	G-#8	J.K.	4-13	2027	P.		J.K.
4-13	P#173/174/175	221' to 0' T.	SR-633	G.	E.	-	2027	G-#8	J.K.	4-13	2027	P.		J.K.
4-13	S-172/S-173	140' to 0'	SR-634	P.	E.	2x3	2019	G-#18	J.K.	4-13	2027	P.		J.K.
4-13	P#-S-172	143' to 5' W. OF S/M 172/173	SR-635	P.	E.	2x2'	2019	G-#18	J.K.	4-13	2027	P.		J.K.
4-13	P-# S-172	BETWEEN SR-634 & SR-635	SR-636	G.	E.	-	2019	G-#18	J.K.	4-13	2027	P.		J.K.

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Notes: (1) Repair Codes: P = Patch C = Cap
(2) Repair Types: E = Extrusion F = Fusion

DS = Destructive Sample

G = Grind & Weld

R = Reconstruction

T = Topping

REVISED



GEOSYNTEC CONSULTANTS
Boynton Beach, Florida



Trail Ridge Landfill, Inc.

Repair Summary Log

Secondary

Sheet No.: 35 of

Project: Trail Ridge Landfill

Project No.: FQ2030

Phase: I & II

Location: Jacksonville, Florida

Contractor: National Seal Company

Year: 1992

Date Repaired (mo/dy)	Seam or Panel No.	Location	Repair		Oper. I.D.	Mach. No.	Q.A. I.D.	Non-Destructive Testing		
			No.	Code Type (1) (2)	Dim.			Date (mo/dy)	Oper. I.D.	Pass Fail Q.A. I.D.
4-13	5-172/5-173	123' to 0'	SR-637	P/S 5-88	2x5'	2027	G-#8	4-13	2027	P
4-13	5-174/5-176	73' to 0'	SR-638	P/S 5-89	2x5'	2010	G-#15	4-13	2027	P
4-13	P/S 174/175/176	221' to 0' T.	SR-639	G	-	2027	G-#8	4-13	2027	P
4-13	5-177/5-178	183' to 0'	SR-640	P/S 5-90	2x5'	2027	G-#8	4-13	2027	P
4-13	P/S 178/179/180	50' to 0' T.	SR-641	G	-	2010	G-#15	4-13	2027	P
4-13	5-178/5-180	68' to 0'	SR-642	P/S 5-91	2x5'	2010	G-#15	4-13	2027	P
4-13	5-178/5-180	132' to 0'	SR-643	P	4x8'	2027	G-#8	4-13	2027	P
4-13	P/S 5-180	126' to 178' of Sim. 178/180	SR-644	G	-	2036	G-#9	4-13	2027	P
4-13	5-181/5-182	198' to 0'	SR-645	P/S 5-92	2x5'	2036	G-#9	4-13	2027	P
4-13	5-181/5-182	139' to 0'	SR-646	P	2x3'	2027	G-#8	4-14	2037	P
4-13	5-184/5-181	128' to 0'	SR-647	P	4x12'	2027	G-#8	4-14	2037	P
4-13	P/S 179/180/181	50' to 0'	SR-648	G	-	2010	G-#15	4-14	2037	P
4-13	5-182/5-183	34' to 0'	SR-649	P/S 93-A	2x5'	2010	G-#15	4-14	2037	P
4-13	5-182/5-183	48' to 0'	SR-650	P/S 5-93	2x5'	2010	G-#15	4-14	2037	P
4-13	5-182/5-183	Between P/S 93-A & P/S 5-93	SR-651	R	-	2010	G-#15	4-14	2037	P
4-13	5-182/5-183	60' to 0'	SR-652	P/S 93-B	2x5'	2010	G-#15	4-14	2037	P
4-13	5-182/5-183	Between P/S 93-B & P/S 5-93	SR-653	R	-	2010	G-#15	4-14	2037	P
4-13	5-182/5-183	137' to 0'	SR-654	P	3x5'	2027	G-#8	4-14	2037	P
4-13	P/S 182/183/184	199' to 0' T.	SR-655	G	-	2027	G-#8	4-14	2037	P

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Notes: (1) Repair Codes: P = Patch C = Cap
(2) Repair Types: E = Extrusion F = Fusion

DS = Destructive Sample R = Reconstruction T = Topping

REV 10/92



GEO SYNTec CONSULTANTS
Boynton Beach, Florida



Trail Ridge Landfill, Inc.

Repair Summary Log

Sheet No.: 36 of

SECONDARY

Project: Trail Ridge Landfill

Project No.: F02030

Phase: I & II

Location: Jacksonville, Florida

Contractor: National Seal Company

Year: 1992

Date Repaired (mo/dy)	Seam or Panel No.	Location	Repair			Oper. I.D.	Mach. No.	Q.A. I.D.	Non-Destructive Testing			
			No.	Code (1)	Type (2)				Dim.	Date (mo/dy)	Oper. I.D.	Pass Fail
4-13-92	S-182/S-183	199' x 7' W. of 5m 183/184/185	SR-656	D _S -5-94	E.	2 x 5'	2027	G-#8	4-14	2037	P.	J.K.
4-13	P# 183/184/185	199' x 0.0' T.	SR-657	G.	E.	-	2027	G-#8	4-14	2037	P.	J.K.
4-13	S-184/S-185	199' x 0.205'	SR-658	R.	E.	-	2027	G-#8	4-14	2027	P.	J.K.
4-13	S-183/S-185	141' x 0.0'	SR-659	P.	E.	4 x 4'	2027	G-#8	4-14	2027	P.	J.K.
4-13	S-186/S-187	58' x 0.0'	SR-660	G.	E.	-	2027	G-#8	4-14	2027	P.	J.K.
4-13	S-186/S-187	62' x 0.0'	SR-661	G.	E.	-	2027	G-#8	4-14	2027	P.	J.K.
4-13	S-185/S-186	68' x 0.0'	SR-662	P.	E.	2 x 3'	2027	G-#8	4-14	2027	P.	J.K.
4-13	S-185/S-186	111' x 0.0'	SR-663	D _S -5-95	E.	2 x 5'	2004	G-#15	4-14	2027	P.	J.K.
4-13	S-186/S-187	140' x 0.0'	SR-664	P.	E.	2 x 4'	2019	G-#18	4-14	2027	P.	J.K.
4-13	P# S-186	141' x 0.154' x 4' E. of 5m 185/186	SR-665	P.	E.	1 x 15'	2066	G-#18	4-14	2027	P.	J.K.
4-13	P# S-186	154' x 1' E. of 5m 185/186	SR-666	P.	E.	1 x 13'	2066	G-#18	4-14	2027	P.	J.K.
4-13	P# S-187	154' x 0.0' width of Panel	SR-667	G.	E.	1 x 14'	2066	G-#18	4-14	2027	P.	J.K.
4-14	P# S-189/m ¹⁰ /S-146	D.T. TRENCH CAP.	SR-668	C	E.	6' x 2'10"	2004 2037	G-#15 G-#9	4-14	2027	P.	J.K.
4-14	CAP/S-140	7' W. of 5m S-140/S-142	SR-669	D _S -5-97	E.	2 x 5'	2037	G-#9	4-14	2027	P.	J.K.
4-14	S-151/S-152	0' x 0.68'	SR-670	R.	E.	-	2037	G-#9	4-14	2036	P.	J.K.
4-14	S-156/S-157	300' x 0.0'	SR-671	D _S -5-98A1	E.	2 x 5'	2037	G-#9	4-14	2036	P.	J.K.
4-14	S-156/S-157	300' x 0.5' E.N.O.	SR-672	R.	E.	-	2037	G-#9	4-14	2036	P.	J.K.
4-14	S-153/S-153	256' x 0.0'	SR-673	D _S -5-98B1	E.	2 x 5'	2037	G-#9	4-14	2036	P.	J.K.
4-14	S-153/S-153	256' x 0.0' x 5' 79-B	SR-674	R.	E.	-	2037	G-#9	4-14	2036	P.	J.K.
© GeoSYNTEX CONSULTANTS		Notes: (1) Repair Codes: (2) Repair Types:	Patch Extrusion	C = Cap F = Fusion	G = Grind & Weld	PS = Destructive Sample	Reconstruction	T = Topping				
4-14	S-187/S-188	31' x 0.0'	SR-669A	D _S -5-98	E.	2 x 5'	2037	G-#9	4-14	2036	P.	J.K.

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Notes: (1) Repair Codes:
(2) Repair Types:

P = Patch
E = Extrusion

C = Cap
F = Fusion

G = Grind & Weld

DS = Destructive Sample

R = Reconstruction

T = Topping

J.K.



GEOSYNTEC CONSULTANTS
Boynton Beach, Florida



Trail Ridge Landfill, Inc.

Repair Summary Log

Secondary

Sheet No.: 87 of

Project: Trail Ridge Landfill

Project No.: F02030

Phase: I & II

Location: Jacksonville, Florida

Contractor: National Seal Company

Year: 1992

Date Repaired (mo/dy)	Seam or Panel No.	Location	Repair				Oper. I.D.	Mach. No.	Q.A. I.D.	Non-Destructive Testing				
			No.	Code (1)	Type (2)	Dim.				Date (mo/dy)	Oper. I.D.	Pass	Fail	Q.A. I.D.
4/14/92	S188	139' to 0; 2.5' W S188/S189	SR675	P	E	2x2	2036	G-9	JR	4-14	2036	P		JR
4/14	S188	137' to 0; S188/S189 to SR675	SR676	G	E	-	2036	G-9	JR	4-14	2036	P		JR
4/14	S189/S190	221' to 0	SR677	D/S199	E	5x2	2036	G-9	JR	4-15	2036	P		JR
4/14	S189/S190	20' to 0	SR678	G	E	-	2036	G-9	JR	4-15	2036	P		JR
4/14	S190/S191	105' to 0	SR679	D/S100	E	5x2	2036	G-9	JR	4-15	2036	P		JR
4/14	S191	140' to 0; 3 1/2' W S191/S192	SR680	P	E	2x1 1/2	2036	G-9	JR	4-15	2036	P		JR
4/14	S191	140' to 0; S191/S192 to SR680	SR681	G	E	-	2036	G-9	JR	4-15	2036	P		JR
4/14	S192/193	207' to 0	SR682	D/S101	E	5x2	2036	G-9	JR	4-15	2036	P		JR
4/15	S192	140' to 0; 2' W S192/193	SR683	P	E	1x2	2036	G-9	JR	4-15	2036	P		JR
4/15	S192/193	139' to 0	SR684	P	E	4x2	2036	G-9	JR	4-15	2036	P		JR
4/15	S192	Brown SR184 & SR183	SR685	G	E	-	2036	G-9	JR	4-15	2067	P		JR
4/15	S193/S195	134' to 0	SR686	P	E	3x1	2036	G-9	JR	4-15	2067	P		JR
4/15	S193	141' to 0; 3' W S193/195	SR687	P	E	1 1/2 x 1 1/2	2036	G-9	JR	4-15	2067	P		JR
4/15	S193	Brown SR686 & SR687	SR688	G	E	-	2036	G-9	JR	4-15	2067	P		JR
4/15	S193/S195	141' to 0	SR689	P	E	1x2	2036	G-9	JR	4-15	2067	P		JR
4/15	S193/S195	Brown SR686 & SR689	SR690	G	E	-	2036	G-9	JR	4-15	2067	P		JR
4/15	S195	141' to 0 5' W S195/196	SR691	P	E	2x2	2036	G-9	JR	4-15	2067	P		JR
4/15	5-41/5-168	231' to 0'	SR692	D/S868	E	2x5	2010	G-#15	JR	4-15	2067	P		JR
4/15	5-167/5-168	D/S5-868 to D/S5-86	SR693	R	E	-	2010	G-#15	JR	4-15	2067	P		JR

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Notes: (1) Repair Codes: P = Patch C = Cap

(2) Repair Types: E = Extrusion F = Fusion

G = Grind & Weld

DS = Destructive Sample

R = Reconstruction

T = Topping

REF: 00000000



GEOSYNTEC CONSULTANTS
Boynton Beach, Florida



Trail Ridge Landfill, Inc.

Repair Summary Log

Sheet No.: 38 of

SECONDARY

Project: Trail Ridge Landfill

Project No.: FQ2030

Phase: I & II

Location: Jacksonville, Florida

Contractor: National Seal Company

Year: 1992

Date Repaired (mo/dy)	Seam or Panel No.	Location	Repair		Oper. I.D.	Mach. No.	Q.A. I.D.	Non-Destructive Testing		
			No.	Code (1)	Type (2)	Dim.		Date (mo/dy)	Oper. I.D.	Pass Fail Q.A. I.D.
4-15	5-10/5-168	197' to 0'	SR-694	P ₁₅ 86A	E.	2x5'	2010	4-15	2067	P. J.K.
4-15	5-10/5-168	0/5' 5-86A to 0/5' 5-86	SR-695	R.	E.	-	2010	4-15	2067	P. J.K.
4-15	5-10/5-186	154' to 0'	SR-696	P ₁₅ 95-8	E.	2x5'	2010	4-15	2067	P. J.K.
4-15	5-10/5-186	0/5' 95-8 to 0/5' 5-95	SR-697	R.	E.	-	2010	4-15	2067	P. J.K.
4-15	5-10/5-186	0/5' 5-95 to 69' to 0'	SR-698	R.	E.	-	2010	4-15	2067	P. J.K.
4-15	5-10/5-196	131' to 0'	SR-699	G.	E.	-	2036	4-15	2067	P. J.K.
4-15	5-10/5-196	43' to 0'	SR-700	P ₁₅ 5102	E.	2x5'	2010	4-15	2067	P. J.K.
4-15	5-10/5-196	49' to 0' 3' E. of 5m 197	SR-701	P.	E.	1x1'	2004	4-15	2067	P. J.K.
4-15	5-10/5-196	131' to 0'	SR-702	G.	E.	-	2036	4-15	2067	P. J.K.
4-15	5-10/5-196	131' to 0' 141'	SR-703	R.	E.	-	2036	4-15	2067	P. J.K.
4-15	5-10/5-197	141' 5R-691 to 5m 197/96	SR-704	G.	E.	-	2036	4-15	2067	P. J.K.
4-15	5-10/5-197	260' to 0'	SR-705	P.	E.	2x2'	2048	4-15	2067	P. J.K.
4-15	5-10/5-197	260' 4-12' W. of 5m 196/197	SR-706	P.	E.	2x2'	2048	4-15	2067	P. J.K.
4-15	5-10/5-197	Between SR-705 & SR-706	SR-707	G.	E.	-	2048	4-15	2067	P. J.K.
4-15	5-10/5-197	253' to 0'	SR-708	P ₁₅ 5-103	E.	2x5'	2048	4-15	2067	P. J.K.
4-15	5-10/5-197	248' to 0'	SR-709	P.	E.	1x1'	2048	4-15	2067	P. J.K.
4-15	5-10/5-197	Between SR-705 & SR-709	SR-710	R.	E.	-	2048	4-15	2067	P. J.K.
4-15	5-10/5-197	217' to 0'	SR-711	P.	E.	2x2'	2048	4-15	2067	P. J.K.
4-15	5-10/5-196	217' 4' 6" W. of 5m 196/197	SR-712	P.	E.	2x2'	2048	4-15	2067	P. J.K.

Notes: (1) Repair Codes: P = Patch C = Cap G = Grind & Weld DS = Destructive Sample R = Reconstruction T = Topping
(2) Repair Types: E = Extrusion F = Fusion



GEOSYNTEC CONSULTANTS
Boynton Beach, Florida



Trail Ridge Landfill, Inc.

Repair Summary Log

Sheet No. 37 of

SECONDARY

Project: Trail Ridge Landfill

Project No.: F02030

Phase: I & II

Location: Jacksonville, Florida

Contractor: National Seal Company

Year: 1992

Date Repaired (mo/dy)	Seam or Panel No.	Location	Repair			Oper. I.D.	Mach. No.	Q.A. I.D.	Non-Destructive Testing				
			No.	Code (1)	Type (2) Dim.				Date (mo/dy)	Oper. I.D.	Pass Fail	Q.A. I.D.	
4-7-15-94	SR-196	BETWEEN SR-711 & SR-712	SR-713	G.	E.	-	6-# 9	J.K.	4-15-92	2067	P.	-	J.K.
4-7-15-94	S-196/5-197	142' to 0'	SR-714	P.	E.	2x6'	6-# 15	J.K.	4-15	2067	P.		J.K.
4-7-15-94	P-# 196	143' to 12' w. of SR-196	SR-715	P.	E.	1x2	6-# 15	J.K.	4-15	2067	P.		J.K.
4-7-15-94	P-# 196	BETWEEN SR-714 & SR-715	SR-716	G.	E.	-	6-# 15	J.K.	4-15	2067	P.		J.K.
4-7-15-94	S-198/5-197	98' to 0'	SR-717	P.	E.	2x2'	6-# 15	J.K.	4-15	2067	P.		J.K.
4-7-15-94	P-# 196	99' to 13' w. of SR-196	SR-718	P.	E.	2x2'	6-# 15	J.K.	4-15	2067	P.		J.K.
4-7-15-94	P-# 196	BETWEEN SR-717 & SR-718	SR-719	G.	E.	-	6-# 15	J.K.	4-15	2067	P.		J.K.
4-7-15-94	S-196/5-197	43' to 0'	SR-720	P.	E.	2x2'	6-# 15	J.K.	4-15	2067	P.		J.K.
4-7-15-94	P-# 196	43' to 6' w. of SR-196	SR-721	P.	E.	2x2'	6-# 15	J.K.	4-15	2067	P.		J.K.
4-7-15-94	P-# 196	BETWEEN SR-720 & SR-721	SR-722	G.	E.	-	6-# 15	J.K.	4-15	2067	P.		J.K.
4-7-15-94	S-196/5-197	9' to 0'	SR-723	P.	E.	1x1'	6-# 15	J.K.	4-15	2067	P.		J.K.
4-7-15-94	S-197/5-198	178' to 0'	SR-724	G.	E.	-	6-# 15	J.K.	4-15	2067	P.		J.K.
4-7-15-94	S-197/5-198	290' to 0'	SR-725	P.	E.	1x2'	6-# 9	J.K.	4-15	2067	P.		J.K.
4-7-15-94	S-198/5-199	120' to 0'	SR-726	MS-104	E.	2x5'	6-# 15	J.K.	4-15	2067	P.		J.K.
4-7-15-94	P-# 199/200/201	131' to 0'	SR-727	P.	E.	1x1'	6-# 15	J.K.	4-15	2067	P.	-	J.K.
4-7-15-94	S-200/5-201	131' to 6' w. of SR-200	SR-728	MS-5105	E.	2x5'	6-# 15	J.K.	4-15	2067	P.		J.K.
4-7-15-94	P-# 200/201/202	131' to 0'	SR-729	P.	E.	1x1'	6-# 15	J.K.	4-15	2067	P.		J.K.
4-7-15-94	S-201/5-202	BETWEEN SR-728 & SR-729	SR-730	G.	E.	-	6-# 15	J.K.	4-15	2067	P.		J.K.
4-7-15-94	S-202/5-203	18' to 0'	SR-731	MS-5106	E.	2x5'	6-# 15	J.K.	4-15	2067	P.		J.K.

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Notes: (1) Repair Codes:

(2) Repair Types:

P = Patch C = Cap G = Grind & Weld DS = Destructive Sample R = Reconstruction T = Topping

E = Extrusion F = Fusion

REF: 100



GEOSYNTEC CONSULTANTS
Boynton Beach, Florida



Trail Ridge Landfill, Inc.

Repair Summary Log

Secondary

Sheet No.: 40 of

Project: Trail Ridge Landfill

Project No.: F02030

Phase: I & II

Location: Jacksonville, Florida

Contractor: National Seal Company

Year: 1992

Date Repaired (mo/dy)	Seam or Panel No.	Location	Repair			Oper. I.D.	Mach. No.	Q.A. I.D.	Non-Destructive Testing			
			No.	Code (1)	Type (2)	Dim.			Date (mo/dy)	Oper. I.D.	Pass	Fail
4-15	5-202/15-203	140' to 0'	SR-732	G.	E.	-	2010	J.K.	4-15-92	2067	P.	-
4-15	5-203/204/205	276' to 0'	SR-733	P.	E.	2x2'	2010	J.K.	4-15	2067	P.	-
4-15	5-203/15-204	65' to 0'	SR-734	G.	E.	-	2010	J.K.	4-15	2067	P.	-
4-15	5-204/15-206	235' to 0'	SR-735	P. ¹⁰⁷ S.S. 202	E.	2x5'	2010	J.K.	4-15	2067	P.	-
4-15	5-204/205/206	277' to 0'	SR-736	P.	E.	2x2'	2010	J.K.	4-15	2067	P.	-
4-15	5-106/187/85	388' to 1-A-0'	SR-737	P.	E.	2x2'	2036	J.K.	4-15	2067	P.	-
4-15	5-83/85/187	388' to 1-A-0'	SR-738	P.	E.	2x3'	2036	J.K.	4-15	2067	P.	-
4-15	5-85/15-187	388' to 1-A-0'	SR-739	P.	E.	3x9'	210	J.K.	4-15	2067	P.	-
4-15	5-86/86/188	388' to 1-A-0'	SR-740	P.	E.	1x1'	2010	J.K.	4-15	2067	P.	-
4-15	5-86/188/189	389' to 1-A-0'	SR-741	G.	E.	-	2010	J.K.	4-15	2067	P.	-
4-15	5-86/87/189	389' to 1-A-0'	SR-742	G.	E.	-	2010	J.K.	4-15	2067	P.	-
4-15	5-87/189/190	389' to 1-A-0'	SR-743	G.	E.	-	2010	J.K.	4-15	2067	P.	-
4-15	5-87/88/190	389' to 1-A-0'	SR-744	G.	E.	-	2010	J.K.	4-15	2067	P.	-
4-15	5-190/191/88	388' to 1-A-0'	SR-745	G.	E.	-	2010	J.K.	4-15	2067	P.	-
4-15	5-88/89/191	388' to 1-A-0'	SR-746	G.	E.	-	2010	J.K.	4-15	2067	P.	-
4-15	5-191/192/89	388' to 1-A-0'	SR-747	G.	E.	-	2010	J.K.	4-15	2067	P.	-
4-15	5-89/90/192	388' to 1-A-0'	SR-748	G.	E.	-	2010	J.K.	4-15	2067	P.	-
4-15	5-192/193-90	389' to 1-A-0'	SR-749	G.	E.	-	2010	J.K.	4-15	2067	P.	-
4-15	5-90/91/193	389' to 1-A-0'	SR-750	G.	E.	-	2010	J.K.	4-15-92	2067	P.	-

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Notes: (1) Repair Codes: P = Patch C = Cap
(2) Repair Types: E = Extrusion F = Fusion

DS = Destructive Sample

R = Reconstruction

T = Topping

REPAIRS



GEOSYNTEC CONSULTANTS
Boynton Beach, Florida



Trail Ridge Landfill, Inc.

Repair Summary Log

Sheet No.: 41 of 41

Secondary

Project: Trail Ridge Landfill

Project No.: FQ2030

Phase: I & II

Location: Jacksonville, Florida

Contractor: National Seal Company

Year: 1992

Date Repaired (mo/dy)	Seam or Panel No.	Location	Repair				Oper. I.D.	Mach. No.	Q.A. I.D.	Non-Destructive Testing				
			No.	Code (1)	Type (2)	Dim.				Date (mo/dy)	Oper. I.D.	Pass	Fail	Q.A. I.D.
4-15-92	5-92/193	389' to 1A-0'	SR-751	P	E.	2x6'	2048	6-#9	J.K.	4-15-92	2067	P.	-	J.K.
4-15	5-92/194/194	389' to 1A-0' T.	SR-752	G	E.	-	2048	6-#9	J.K.	4-15	2067	P.		J.K.
4-15	5-92/193/194	389' to 1A-0' T.	SR-752	G	E.	-	2048	6-#9	J.K.	4-15	2067	P.		J.K.
4-15	5-194/196/94	387' to 1A-0' T.	SR-754	G	E.	-	2048	6-#9	J.K.	4-15	2067	P.		J.K.
4-15	5-94/95/196	386' to 1A-0' T.	SR-755	G	E.	-	2048	6-#9	J.K.	4-15	2067	P.		J.K.
4-15	5-196/197/95	386' to 1A-0' T.	SR-756	G	E.	-	2048	6-#9	J.K.	4-15	2067	P.		J.K.
4-15	5-95/96/197	386' to 1A-0' T.	SR-757	G	E.	-	2048	6-#9	J.K.	4-17	2067	P.		J.K.
4-15	5-97/198/96	385' to 1A-0' T.	SR-758	G	E.	-	2048	6-#9	J.K.	4-17	2067	P.		J.K.
4-15	5-97/98-198	385' to 1A-0' T.	SR-759	G	E.	-	2048	6-#9	J.K.	4-17	2067	P.		J.K.
4-15	5-198/5-199	384' to 1A-0' T.	SR-760	G	E.	-	2048	6-#9	J.K.	4-17	2067	P.		J.K.
4-15	5-98/99/199	384' to 1A-0' T.	SR-761	G	E.	-	2048	6-#9	J.K.	4-17	2067	P.		J.K.
99 4-15	5-98/99/JK	383' to 1A-0' -T.	SR-762	G	E.	-	2048	6-#9	J.K.	4-17	2067	P.		J.K.
4-15	5-99/101/200	383' to 1A-0' T.	SR-763	G	E.	-	2048	6-#9	J.K.	4-17	2067	P.		J.K.
4-15	5-200/202/101	383' to 1A-0' T.	SR-764	G	E.	-	2048	6-#9	J.K.	4-17	2067	P.		J.K.
4-15	5-101/105/202	383' to 1A-0' T.	SR-765	G	E.	-	2048	6-#9	J.K.	4-17	2067	P.		J.K.
4-15	5-202/203/105	382' to 1A-0' T.	SR-766	G	E.	-	2048	6-#9	J.K.	4-17	2067	P.		J.K.
4-15	5-103/103/203	382' to 1A-0' T.	SR-767	G	E.	-	2048	6-#9	J.K.	4-17	2067	P.		J.K.
4-17	5-207/5-208	44' to 0'	SR-768	9/5-108	E.	2x5'	2036	6-#9	J.K.	4-17	2067	P.		J.K.
4-17	5-208/5-209	223' to 0'	SR-769	9/5-109	E.	2x5'	2036	6-#9	J.K.	4-17	2067	P.		J.K.

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Notes: (1) Repair Codes:

P = Patch C = Cap
E = Extrusion F = Fusion

DS = Destructive Sample

R = Reconstruction

T = Topping

REPAIRS



GEOSYNTEC CONSULTANTS
Boynton Beach, Florida



Trail Ridge Landfill, Inc.

Repair Summary Log

Sheet No.: 42 of

Project: Trail Ridge Landfill

Project No.: FO2030

Phase: I & II

Location: Jacksonville, Florida

Contractor: National Seal Company

Year: 1992

Date Repaired (mo/dy)	Seam or Panel No.	Location	Repair			Oper. I.D.	Mach. No.	Q.A. I.D.	Non-Destructive Testing					
			No.	Code (1)	Type (2)				Dim.	Date (mo/dy)	Oper. I.D.	Pass	Fail	Q.A. I.D.
4-17	5-219/211/212	82' to 0'	SR-770	P.	E.	2x2'	2036	G-9	J.K.	4-17	2067	P.		J.K.
4-17	5-219/5-212	137' to 0'	SR-771	Q [#] S-110	E.	2x5'	2036	G-9	J.K.	4-17	2067	P.		J.K.
4-17	5-211/212/213	82' to 0'	SR-772	P.	E.	2x2'	2036	G-9	J.K.	4-17	2067	P.		J.K.
4-17	5-211/5-213	9' to 0'	SR-773	Q [#] S-111	E.	2x5'	2036	G-9	J.K.	4-17	2067	P.		J.K.
4-17	5-213/5-214	244' to 0'	SR-774	Q [#] S-112	E.	2x5'	2036	G-9	J.K.	4-17	2067	P.		J.K.
4-17	5-214/215/216	250' to 0'	SR-775	P.	E.	1x1'	2036	G-9	J.K.	4-17	2067	P.		J.K.
4-17	5-215/5-217	214' to 0'	SR-776	Q [#] S-113	E.	2x5'	2036	G-9	J.K.	4-17	2067	P.		J.K.
4-17	5-215/216/217	249' to 0'	SR-777	P.	E.	2x2'	2036	G-9	J.K.	4-17	2067	P.		J.K.
4-17	P-216	252' to 10' w. of 5m P [#] 1217	SR-778	G.	E.	-	2036	G-9	J.K.	4-17	2067	P.		J.K.
4-17	5-218/5-219	235' to 0'	SR-779	Q [#] S-114	E.	2x5'	2036	G-9	J.K.	4-17	2067	P.		J.K.
4-17	P-219/220/221	108' to 0'	SR-780	P.	E.	2x2'	2036	G-9	J.K.	4-17	2067	P.		J.K.
4-17	5-219/5-220	88' to 0'	SR-781	Q [#] S-115	E.	2x5'	2036	G-9	J.K.	4-17	2067	P.		J.K.
4-17	5-219/5-220	28' to 0'	SR-782	P.	E.	1x2'	2036	G-9	J.K.	4-17	2067	P.		J.K.
4-17	P-220/221/222	108' to 0'	SR-783	P.	E.	1x2'	2036	G-9	J.K.	4-18	2067	P.		J.K.
4-18	P-203/204/104	382' to 1A-0' T.	SR-784	G.	E.	-	2036	G-9	J.K.	4-18	2067	P.		J.K.
4-18	P-203/206/204	382' to 1A-0' T.	SR-785	G.	E.	-	2036	G-9	J.K.	4-18	2067	P.		J.K.
4-18	P-204/206/106	379' to 1A-0' T.	SR-786	G.	E.	-	2036	G-9	J.K.	4-18	2067	P.		J.K.
4-18	P-206/207/206	379' to 1A-0' T.	SR-787	G.	E.	-	2036	G-9	J.K.	4-18	2067	P.		J.K.
4-18	P-206/207/107	375' to 1A-0' T.	SR-788	G.	E.	-	2036	G-9	J.K.	4-18	2067	P.		J.K.

© GeoSYNTEC CONSULTANTS Notes: (1) Repair Codes: P = Patch C = Cap DS = Destructive Sample R = Reconstruction
(2) Repair Types: E = Extrusion F = Fusion G = Grind & Weld



GEOSYNTEC CONSULTANTS
Boynton Beach, Florida



Trail Ridge Landfill, Inc.

Repair Summary Log

Secondary

Sheet No.: 43 of

Project: Trail Ridge Landfill

Project No.: FO2030

Phase: I & II

Location: Jacksonville, Florida

Contractor: National Seal Company

Year: 1992

Date Repaired (mo/dy)	Seam or Panel No.	Location	Repair				Oper. I.D.	Mach. No.	Q.A. I.D.	Non-Destructive Testing			
			No.	Code (1)	Type (2)	Dim.				Date (mo/dy)	Oper. I.D.	Pass Fail	Q.A. I.D.
4-18	4-107/108/207	375' to 1A-0' T.	SR-789	G.	E.	-	2036	G-19	J.K.	4-18	2067	P.	J.K.
4-18	5-108/5207	375' x PANEL WIDTH	SR-790	P.	E.	2x15'	2036	G-19	J.K.	4-18	2067	P.	J.K.
4-18	200/208/108/110	375' to 1A-0'	SR-791	P.	E.	3x8'	2036	G-19	J.K.	4-18	2067	P.	J.K.
4-18	208/209/110	367' to 1A-0' T.	SR-792	G.	E.	-	2036	G-19	J.K.	4-18	2067	P.	J.K.
4-18	110/111/209	367' to 1A-0' T.	SR-793	G.	E.	-	2036	G-19	J.K.	4-18	2067	P.	J.K.
4-18	209/210/111	359' to 1A-0' T.	SR-794	G.	E.	-	2036	G-19	J.K.	4-18	2067	P.	J.K.
4-18	111/112/210	359' to 1A-0' T.	SR-795	G.	E.	-	2036	G-19	J.K.	4-18	2067	P.	J.K.
4-18	114/114/210/211	355' to 1A-0' T.	SR-796	P.	E.	2x3'	2036	G-19	J.K.	4-18	2067	P.	J.K.
4-18	114/115/211/213	345' to 1A-0'	SR-797	P.	E.	2x4'	2036	G-19	J.K.	4-18	2067	P.	J.K.
4-18	115/116/213/214	338' to 1A-0'	SR-798	P.	E.	2x3'	2036	G-19	J.K.	4-18	2067	P.	J.K.
4-18	214/215/116/117	331' to 1A-0' T.	SR-799	G.	E.	-	2036	G-19	J.K.	4-18	2067	P.	J.K.
4-18	117/118/215	322' to 1A-0' T.	SR-800	G.	E.	-	2036	G-19	J.K.	4-18	2067	P.	J.K.
4-18	215/217/5-18	321' to 1A-0' T.	SR-801	G.	E.	-	2036	G-19	J.K.	4-18	2067	P.	J.K.
4-18	217/218/5-18	LEACHATE CONTAINMENT AREA	SR-802	G.	E.	-	2036	G-19	J.K.	4-18	2067	P.	J.K.
4-18	5-218/5-18	"	SR-803	P.	E.	1x7'	2036	G-19	J.K.	4-18	2067	P.	J.K.
4-18	218/219/5-18	"	SR-804	P.	E.	2x2'	2036	G-19	J.K.	4-18	2067	P.	J.K.
4-18	219/220/5-18	"	SR-805	G.	E.	-	2036	G-19	J.K.	4-18	2067	P.	J.K.
4-18	220/222/5-18	"	SR-806	P.	E.	2x2'	2036	G-19	J.K.	4-18	2067	P.	J.K.
4-18	5-222/5-223	119' to 0'	SR-807	P.	E.	2x5'	2036	G-15	J.K.	4-18	2067	P.	J.K.
4-18	5-223/5-223	119' to 0'	SR-807	P.	E.	2x5'	2036	G-15	J.K.	4-18	2067	P.	J.K.

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Notes: (1) Repair Codes: P = Patch C = Cap
(2) Repair Types: E = Extrusion F = Fusion

G = Grind & Weld DS = Destructive Sample R = Reconstruction

REPAIRS



GEOSYNTEC CONSULTANTS
Boynton Beach, Florida



Trail Ridge Landfill, Inc.

Repair Summary Log

Sheet No. 44 of 44

SECONDARY

Project: Trail Ridge Landfill

Project No.: FQ2030

Phase: I & II

Location: Jacksonville, Florida

Contractor: National Seal Company

Year: 1992

Date Repaired (mo/dy)	Seam or Panel No.	Location	Repair				Oper. I.D.	Mach. No.	Q.A. I.D.	Non-Destructive Testing				
			No.	Code (1)	Type (2)	Dim.				Date (mo/dy)	Oper. I.D.	Pass	Fail	Q.A. I.D.
4-24	PM223/223/18	1A to 1B Tie IN.	SR-808	P.	E.	2x3	2036	6-#15	J.K.	4-24	2060	P.	-	J.K.
4-24	5-223/5-224	30' to 0'	SR-809	95-5117	E.	2x5'	2036	6-#15	J.K.	4-24	2060	P.		J.K.
4-24	PM223/224/18	1A to 1B Tie IN	SR-810	G.	E.	-	2036	6-#15	J.K.	4-24	2060	P.		J.K.
4-24	5-223/5-227	237' to 0'	SR-811	95-5118	E.	2x5'	2036	6-#15	J.K.	4-24	2060	P.		J.K.
4-24	PM223/226/227	105' to 0'	SR-812	G.	E.	-	2036	6-#15	J.K.	4-24	2060	P.		J.K.
4-24	PM223/226/18	1A to 1B Tie IN	SR-813	G.	E.	-	2036	6-#15	J.K.	4-24	2060	P.		J.K.
4-24	PM226/228/18	" "	SR-814	G.	E.	-	2036	6-#15	J.K.	4-24	2060	P.		J.K.
4-24	PM224/227/228	105' to 0'	SR-815	G.	E.	-	2036	6-#15	J.K.	4-24	2060	P.		J.K.
4-24	PM228/229/230	11.5' to 0'	SR-816	G.	E.	-	2036	6-#15	J.K.	4-24	2060	P.		J.K.
4-24	PM228/230/231	26' to 0'	SR-817	G.	E.	-	2036	6-#15	J.K.	4-24	2060	P.		J.K.
4-25	PM228/231/232	40' to 0'	SR-818	G.	E.	-	2036	6-#15	J.K.	4-25	2060	P.		J.K.
4-25	PM228/232/233	55' to 0'	SR-819	G.	E.	-	2036	6-#15	J.K.	4-25	2060	P.		J.K.
4-25	5-232/5-233	30' to EAST 0'	SR-820	95-5119	E.	2x5'	2036	6-#15	J.K.	4-25	2060	P.		J.K.
4-25	PM228/233/234	70' to 0' 1-A	SR-821	G.	E.	-	2036	6-#15	J.K.	4-25	2060	P.		J.K.
4-25	PM228/234/235	84.5' to 0'	SR-822	G.	E.	-	2036	6-#15	J.K.	4-25	2060	P.		J.K.
4-25	PM228/235/236	99' to 0'	SR-823	G.	E.	-	2036	6-#15	J.K.	4-25	2060	P.		J.K.
4-25	PM228/236/237	113.5' to 0'	SR-824	P.	E.	2x2'	2036	6-#15	J.K.	4-25	2060	P.		J.K.
4-25	PM228/237/238	CAP FROM 32 2-0' TO PANEL 5-228	SR-825	C.	E.	2x44'	2036	6-#15	J.K.	4-25	2060	P.		J.K.
4-25	5-237/5-238	30' to 0' (EAST)	SR-826	95-5120	E.	2x5'	2036	6-#15	J.K.	4-25	2060	P.		J.K.

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Notes: (1) Repair Codes: P = Patch C = Cap

(2) Repair Types: E = Extrusion F = Fusion

G = Grind & Weld

DS = Destructive Sample

R = Reconstruction

REVISIONS



GEOSYNTEC CONSULTANTS
Boynton Beach, Florida



Trail Ridge Landfill, Inc.

Repair Summary Log

SECONDARY

Sheet No.: 45 of 45

Project: Trail Ridge Landfill

Project No.: F02030

Phase: I & II

Location: Jacksonville, Florida

Contractor: National Seal Company

Year: 1992

Date Repaired (mo/dy)	Seam or Panel No.	Location	Repair		Oper. I.D.	Mach. No.	Q.A. I.D.	Non-Destructive Testing		
			No.	Code (1)	Type (2)	Dim.		Date (mo/dy)	Oper. I.D.	Pass Fail
4-25	P#228/238/239	146' to 0' (1A) T.	SR-827	G.	E.	-	2036	4-25	2060	P.
4-25	P#228/239/240	159' to 0' " T.	SR-828	G.	E.	-	2067	4-25	2060	P.
4-25	P#228/240/241	CAPF Room 37-E-0' + P#5-228	SR-829	C	E.	2x34'	2067	4-25	2060	P.
4-25	P#3-240	154' to 6' N of 5m 5-240	SR-830	G.	E.	-	2067	4-25	2060	P.
4-25	P#228/241/242	188' to 0' (1A)	SR-831	P.	E.	1x1'	2067	4-25	2060	P.
4-25	P#228/242/243	204' to 0' " T.	SR-832	G.	E.	-	2067	4-25	2060	P.
4-25	5-228/5-243	216' to 0' "	SR-833	G.	E.	2x5'	2067	4-25	2060	P.
4-25	P#228/243/244	218.5' to 0' " T.	SR-834	G.	E.	-	2067	4-25	2060	P.
4-25	P#228/244/245	233' to 0' " T.	SR-835	G.	E.	-	2067	4-25	2060	P.
4-25	P#228/245/246	248' to 0' " T.	SR-836	G.	E.	-	2067	4-25	2060	P.
4-25	5-245/5-246	62' to 0' E-0'	SR-837	G.	E.	2x5'	2067	4-25	2060	P.
4-25	P#228/246/247	262.5' to 0' (1A) T.	SR-838	G.	E.	-	2067	4-25	2060	P.
4-25	P#228/247/248	277' to 0' "	SR-839	P.	E.	2x2'	2067	4-25	2060	P.
4-25	P#228/248/249	292' to 0' "	SR-840	P.	E.	2x2'	2067	4-25	2060	P.
4-25	5-248/5-249	185' to 0' E-0'	SR-841	P.	E.	1x1'	2067	4-25	2060	P.
4-25	5-18/5-220	4' E of 5m 5-249/5-220	SR-842	G.	E.	2x5'	2067	4-25	2060	P.
4-25	5-222/5-223	105' to 0' "	SR-843	G.	E.	2x5'	2067	4-25	2060	P.
4-25	5-224/5-223	133' to 0' "	SR-844	G.	E.	2x5'	2067	4-25	2060	P.
4-25	5-227/5-223	Between SR-843 & SR-844	SR-845	R.	E.	-	2067	4-25	2060	P.

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Notes: (1) Repair Codes: P = Patch C = Cap E = Extrusion F = Fusion

(2) Repair Types: G = Grind & Weld DS = Destructive Sample R = Reconstruction

END SECONDARY PHASE 1A & 1B. J.K.

PRIMARY GEOMEMBRANE LINER



Trail Ridge Landfill, Inc.

Repair Summary Log

Sheet No.: / of 39

Project: *Trail Ridge Landfill*

Project No.:

FQ2030

Phase:

Location: Jacksonville, Florida

Contractor: *National Seal Company*

1992

1992

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Notes: (1) Repair Codes:
(2) Repair Types:

P = Patch C = Cap
E = Extrusion F = Fusion

G = Grind & Weld

DS = Destructive Sample

R = Reconstruction

APPENDIX XI 9



GEOSYNTEC CONSULTANTS
Boynton Beach, Florida



Trail Ridge Landfill, Inc.

Repair Summary Log

Sheet No. 42 of 42

Project: Trail Ridge Landfill

Project No.: FQ2030

Phase: LEACHATE CONTAINMENT AREA

Location: Jacksonville, Florida

Contractor: National Seal Company

Year: 1992

Date Repaired (mo/dy)	Seam or Panel No.	Location	Repair				Oper. I.D.	Mach. No.	Q.A. I.D.	Non-Destructive Testing			
			No.	Code (1)	Type (2)	Dim.				Date (mo/dy)	Oper. I.D.	Pass	Fail
MAR-15	P-6/P-8	4' WEST OF WALL	PR-9	P	E	1x1	2036	G#8	73	MAR 15 2032	P		73
MAR-15	P-6/P-8	8' SEAM EXTRUDED 0-4'	PR-10	R	E		2036	G#8	73	MAR 15 2032	P		73
MAR-15	P-8/P-9	4' WEST OF WALL	PR-11	P	E	1x1	2019	G#18	72	MAR 15 2032	P		73
MAR-15	P-8/P-9	SEAM EXTRUDED 0-4'	PR-12	R	E		2019	G#18	73	MAR 15 2032	P		73
MAR-15	P-9/P-10	2' WEST OF WALL	PR-13	P	E	1x2	2019	G#18	73	MAR 15 2032	P		73
MAR-15	P-10/P-11	3' WEST OF WALL	PR-14	P	E	1x2	2019	G#18	73	MAR 15 2032	P		73
MAR-15	P-10/P-11	SEAM EXTRUDED 0-3'	PR-15	R	E		2019	G#18	73	MAR 15 2032	P		73
MAR-15	P-11/P-12	2' WEST OF WALL	PR-16	P	E	1x2	2019	G#18	73	MAR 15 2032	P		73
MAR-15	P-12	1' WEST OF WALL, 3/4 OF P-12/P-13	PR-17	P	E	2x4	2019	G#18	73	MAR 15 2032	P		73
MAR-15	P-12/P-13	1' WEST OF P-12	PR-18	P	E	1x1	2019	G#18	73	MAR 15 2032	P		73
MAR-15	P-3/P-4	30' WEST OF WALL	PR-19	P/S-P4	E	2x5	2048	G#15	73	MAR 15 2032	P		73
MAR-15	P-2/P-3	117' WEST OF WALL	PR-20	P	E	1x1	2010	G#8	73	MAR 15 2032	P		73
MAR-15	P-2/P-3	177' TO WEST END (EXTENDED)	PR-21	R	E		2010	G#8	73	MAR 15 2032	P		73
MAR-15	P-5/P-7	130' WEST OF L.C. WALL	PR-22	P	E	2x2	2010	G#8	73	MAR 15 2032	P		73
MAR-15	P-5/P-7	SEAM EXTRUDED 131' TO W. END	PR-23	R	E		2010	G#8	73	MAR 15 2032	P		73
MAR-15	P-7	144' W. 4' N.O.F. P-7/P-8	PR-24	P	E	1x1	2010	G#8	73	MAR 15 2032	P		73
MAR-15	P-7	140' W. 5' S.O.F. P-6/P-7	PR-25	P	E		2010	G#8	73	MAR 15 2032	P		73
MAR-15	P-6/P-8	140' W. OF WALL	PR-26	P	E	1x1	2010	G#8	73	MAR 15 2032	P		73
MAR-15	P-8/P-9	139' WEST OF WALL	PR-27	P/S-P2	E	2x5	2048	G#15	75	MAR 15 2032	P		73



GEOSYNTEC CONSULTANTS
Boynton Beach, Florida



Trail Ridge Landfill, Inc.

Repair Summary Log

Primary

Sheet No.: 83 of

Project: Trail Ridge Landfill

Project No.: FQ2030

Phase: LEACHATE CONTAINMENT AREA

Location: Jacksonville, Florida

Contractor: National Seal Company

Year: 1992

Date Repaired (mo/dy)	Seam or Panel No.	Location	Repair		Oper. I.D.	Mach. No.	Q.A. I.D.	Non-Destructive Testing		
			No.	Code (1)	Type (2)	Dim.		Date (mo/dy)	Oper. I.D.	Pass Fail
MAR-15	P-13/P-14	106' WEST OF O'	PR-28	P	E	2x1	G#15	MAR 15 2003	P	
MAR-15	P-15	107' WEST OF O', 5' SOUTH OF P-13	PR-29	G	E		G#15	MAR 15 2003	P	
MAR-15	P-14/P-16	106' WEST OF O'	PR-30	P	E	2x1	G#15	MAR 15 2003	P	
MAR-15	P-15/P-16	SEAM EXTENDED 106' TO 114'	PR-31	R	E		G#15	MAR 15 2003	P	
MAR-15	P-15/P-16	114' W. OF O'	PR-32	P	E	1x1	G#15	MAR 15 2003	P	
MAR-15	P-13/P-14	70' WEST OF O'	PR-33	P/P-3	E	2x5	G#18	MAR 15 2003	P	
MAR-15	P-16/P-17	15' WEST OF O'	PR-34	P/P-4	E	2x5	G#18	MAR 15 2003	P	
3-27	P-20/P-21	333' to 0'	PR-36	P	E	1x1	G#9	3-28 2067	Pass	
3-27	P-20/P-21	289' to 0'	PR-37	P/P-5	E	2x5	G#9	3-28	"	
3-27	P-20/P-21	112' to 0'	PR-38	P	E	1x1	G#9	3-28	"	
3-27	P-20/P-21	15' to 0'	PR-39	P	E	1x1	G#9	3-28	"	
3-27	P-21/P-22	14' to 0'	PR-40	P	E	1x1	G#9	3-28	"	
3-27	P-21/P-22	0' to 14'	PR-41	E	E		G#9	3-28	"	
3-27	P-21/P-22	216' to 0'	PR-42	P/P-6	E	2x5	G#9	3-28	"	
3-27	P#21	213' to 0' 43' E. OF S/M #21/22	PR-43	G	E		G#9	3-28	"	
3-27	P#22	273' to 0' 41' W. OF S/M #21/22	PR-44	G	E		G#9	3-28	"	
3-27	P#21/22/23	T. 299' to 0'	PR-45	G	E		G#9	3-28	"	
3-27	P-23/P-24	320' to 0'	PR-46	P	E	2x7	G#9	3-28	"	
3-27	P#23/23/24	to PR-48	PR-47	G	E		G#9	3-28	"	

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Notes: (1) Repair Codes: P = Patch E = Extrusion
(2) Repair Types: C = Cap F = Fusion

G = Grind & Weld

DS = Destructive Sample

R = Reconstruction

3-27 P-19/P-1

0' to 4'

PR-35 G E

2036

6#9 PR-35 DT 3-28

NEXT 2#49

WAB0413



GEOSYNTEC CONSULTANTS
Boynton Beach, Florida



Trail Ridge Landfill, Inc.

Repair Summary Log

Sheet No.: 4 of

Primary

Project: Trail Ridge Landfill

Project No.: FQ2030

Phase: I & II

Location: Jacksonville, Florida

Contractor: National Seal Company

Year: 1992

Date Repaired (mo/dy)	Seam or Panel No.	Location	Repair		Oper. I.D.	Mach. No.	Q.A. I.D.	Non-Destructive Testing		
			No.	Code (1)	Type (2)	Dim.		Date (mo/dy)	Oper. I.D.	Pass Fail Q.A. I.D.
3-27	5-23/S-24	292' to 0'	PR-48	P.	E.	1x1'	2036	3-28	2067	Pass - J.K.
3-27	P-# 24	292' to 0' & 3' w. of 5m # 20/21	PR-49	P.	E.	1x1'	2036	3-28	"	" - J.K.
3-27	P-# 24	292' between PR-48 & 49	PR-50	G.	E.	-	2036	3-28	"	" - J.K.
3-27	P-22/P-24	188' to 0'	PR-51	P.	E.	3x5'	2036	3-28	"	" - J.K.
3-27	P-22/P-24	105' to 0'	PR-52	DS*P-7	E.	2x5'	2036	3-28	"	" - J.K.
3-27	P-22/P-24	88' to 0'	PR-53	P.	E.	2x3'	2036	3-28	"	" - J.K.
3-27	P-22/P-24	80' to 0'	PR-54	P.	E.	3x4'	2036	3-28	"	" - J.K.
3-27	P-22/P-24	Between PR-53 & PR-54	PR-55	E.	E.	-	2036	3-28	"	" - J.K.
3-27	P-22/P-24	50' to 0'	PR-56	P.	E.	2x4'	2036	3-28	"	" - J.K.
3-27	P-22/P-24	13' to 0'	PR-57	P.	E.	1x1'	2036	3-28	"	" - J.K.
3-27	P-22/P-24	0' to 13'	PR-58	E.	E.	-	2036	3-28	"	" - J.K.
3-27	P-24/P-25	13' to 0'	PR-59	P.	E.	1x1'	2036	3-29	"	" - J.K.
3-27	P-24/P-25	0' to 13'	PR-60	E.	E.	-	2036	3-29	"	" - J.K.
3-27	P-24/P-25	19' to 0'	PR-61	P.	E.	1x1'	2036	3-29	"	" - J.K.
3-27	P-24/P-25	27' to 0'	PR-62	DS*P-8	E.	2x5'	2036	3-29	"	" - J.K.
3-27	P-24/P-25	139' to 0'	PR-63	P.	E.	3x12	2036	3-29	"	" - J.K.
3-27	P-# 21	377' to 7' w. of 5m # 20/21	PR-64	G.	E.	-	2036	3-29	"	" - J.K.
3-27	P-# 21	375' to 9' w. of 5m # 20/21	PR-65	G.	E.	-	2036	3-29	"	" - J.K.
3-27	P-# 21	364' to 4' w. of 5m # 20/21	PR-66	G.	E.	-	2036	3-29	"	" - J.K.



GEOSYNTEC CONSULTANTS
Boynton Beach, Florida



Trail Ridge Landfill, Inc.

Repair Summary Log

PRIMARY

Sheet No.: 5 of

Project: Trail Ridge Landfill

Project No.: FQ2030

Phase: I & II

Location: Jacksonville, Florida

Contractor: National Seal Company

Year: 1992

Date Repaired (mo/dy)	Seam or Panel No.	Location	Repair		Oper. I.D.	Mach. No.	Q.A. I.D.	Non-Destructive Testing		
			No.	Code (1)	Type (2)	Dim.		Date (mo/dy)	Oper. Pass I.D.	Fail Q.A. I.D.
3-27	P-25/P-26	225' to 0'	PR-67	P.	E.	2x2'	2036	3-29	2067 Pass	-
3-27	P-21	242' to 44'E. of 5m # 8/22	PR-68	G.	E.	-	2036	3-29	"	-
3-27	P-26/P-27	13' to 0'	PR-69	P.	E.	1x1'	2036	3-29	"	-
3-27	P-24/P-28	315' to 0'	PR-70	P.	E.	2x6'	2036	3-29	"	-
3-27	P-26/P-28	338' to 0'	PR-71	9/8 P-9	E.	2x5'	2036	3-29	"	-
3-27	P-20/P-21	0' to 14'	PR-72	E.	E.	-	2036	3-29	"	-
3-27	P-27/P-29	12' to 0'	PR-73	P.	E.	1x1'	2036	3-29	"	-
3-27	P-29	7x15' APPROX ON SEAM TO NORTH END OF P-29	PR-74	P.	E.	7x15'	2036	3-29	"	-
3-27	P-27/P-29	193' to 0'	PR-75	9/8 P-10	E.	2x5'	2036	3-29	"	-
3-27	P-27/P-28/P-29	316' to 0'	PR-76	P.	E.	2x2'	2036	3-29	"	-
3-27	P-28	321' to 3'E. of 5m # 24/29	PR-77	P.	E.	1x2'	2036	3-29	"	-
3-27	P-28	330' to 3'E. of 5m # 28/29	PR-78	P.	E.	1x2	2036	3-29	"	-
3-27	P-28	340' to 3'E. of 5m # 28/29	PR-79	P.	E.	1x2	2036	3-29	"	-
3-27	P-28	320' to 3'E. of 5m # 26/28	PR-80	P.	E.	1x1'	2036	3-29	"	-
3-27	P-28	330' to 3'E. of 5m # 26/28	PR-81	G.	E.	-	2036	3-29	"	-
3-27	P-28	334' to 6'E. of 5m # 29/30	PR-82	G.	E.	-	2036	3-29	"	-
3-27	P-27/P-28	EXT. FULL SEAM 316' to 0	PR-83	E.	E.	-	2036	3-29	"	-
3-27	P-28	178' to 6'E. of 5m # 29/30	PR-84	G.	E.	-	2036	3-29	"	-
3-27	P-29/P-30	5' to 0'	PR-85	P.	E.	1x1'	2036	3-29	"	-

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Notes: (1) Repair Codes: P = Patch C = Cap DS = Destructive Sample R = Reconstruction
(2) Repair Types: E = Extrusion F = Fusion G = Grind & Weld



GEOSYNTEC CONSULTANTS
Boynton Beach, Florida



Trail Ridge Landfill, Inc.

Repair Summary Log

Sheet No.: 6 of

Primary

Project: Trail Ridge Landfill

Project No.: F02030

Phase: I & II

Location: Jacksonville, Florida

Contractor: National Seal Company

Year: 1992

Date Repaired (mo/dy)	Seam or Panel No.	Location	Repair			Oper. I.D.	Mach. No.	Q.A. I.D.	Non-Destructive Testing				
			No.	Code (1)	Type (2)				Dim.	Date (mo/dy)	Oper. I.D.	Pass	Fail
3-27	P-23/P-24	299' to 320'	PR-86	E.	E.	-	2036	JK.	3-29	2062	Pass	-	JK.
3-27	P-20	333' to 345' W. of S/m # 20/21	PR-87	G.	E.	-	2036	JK.	3-29	"	"	-	JK.
3-28	P-30/P-31	337' to 0'	PR-88	P.	E.	1x1'	2037	JK.	3-29	"	"	-	JK.
3-28	P-30/P-31	228' to 0'	PR-89	P.	E.	3x4	2037	JK.	3-29	"	"	-	JK.
3-28	P-30/P-31	158' to 0'	PR-90	0 1/2 P.11	E.	2x5'	2037	JK.	3-29	"	"	-	JK.
3-28	P-30/P-31	5' to 0	PR-91	P.	E.	1x2'	2037	JK.	3-29	"	"	-	JK.
3-28	P-30/P-31	0' to 5'	PR-92	E.	E.	-	2037	JK.	3-29	"	"	-	JK.
3-28	P-31/P-32	229' to 0'	PR-93	P.	E.	2x3'	2037	JK.	3-29	"	"	-	JK.
3-28	P-30	285' to 6' E. of S/m # 31/32	PR-94	P.	E.	1x1'	2037	JK.	3-29	"	"	-	JK.
3-28	P-32	ADDON SKIRT to S. END	PR-95	E.	E.	4'x15'	2037	JK.	3-29	"	"	-	JK.
3-28	P-32/33/34	306' to 0' T.	PR-96	G.	E.	-	2037	JK.	3-29	"	"	-	JK.
3-28	P-32/P-33	296' to 0'	PR-97	P.	E.	2x4'	2037	JK.	3-29	"	"	-	JK.
3-28	P-32/P-33	264' to 0'	PR-98	0 1/2 P.12	E.	2x5'	2037	JK.	3-29	"	"	-	JK.
3-28	P-32/P-33	228' to 0'	PR-99	P.	E.	2x2'	2037	JK.	3-29	"	"	-	JK.
3-28	P-32/P-33	88' to 0'	PR-100	G.	E.	-	2037	JK.	3-29	"	"	-	JK.
3-28	P-32/P-33	18' to 0'	PR-101	P.	E.	1x2	2037	JK.	3-29	"	"	-	JK.
3-28	P-32/P-33	0' to 18'	PR-102	E.	E.	-	2037	JK.	3-29	"	"	-	JK.
3-28	P-33/34/35	305' to 0' T.	PR-103	G.	E.	-	2037	JK.	3-29	"	"	-	JK.
3-28	P-33	295' to 6' W. of S/m # 34/33	PR-104	P.	E.	1x1	2037	JK.	3-29	"	"	-	JK.



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Boynton Beach, Florida



Trail Ridge Landfill, Inc.

Repair Summary Log

Primary

Sheet No.: 7 of

Project: Trail Ridge Landfill

Project No.: FQ2030

Phase: I & II

Location: Jacksonville, Florida

Contractor: National Seal Company

Year: 1992

Date Repaired (mo/dy)	Seam or Panel No.	Location	Repair		Oper. I.D.	Mach. No.	Q.A. I.D.	Non-Destructive Testing		
			No.	Code (1)	Type (2)	Dim.		Date (mo/dy)	Oper. I.D.	Pass Fail
3-28	P-# 33	Between PR-97 & 104	PR-105	G.	E.	-	2037	3-29	2067	Pass
3-28	P-33/P-35	233' to 0'	PR-106	P.	E.	3x3'	2037	3-29	"	"
3-29	P-33/P-35	204' to 0'	PR-107	Q ₁₅ -P-13	E.	2x5'	2037	3-29	"	"
3-29	P-35/P-36	117' to 0'	PR-108	Q ₁₅ -P-14	E.	2x5'	2037	3-29	"	"
3-29	P-35/P-36	221' to 0'	PR-109	P.	E.	2x4'	2037	3-29	"	"
3-29	P-# 36/37/38	218' to 0'	PR-110	P.	E.	1x2'	2037	3-29	"	"
3-29	P-36/P-37	56' to 0'	PR-111	Q ₁₅ -P-15	E.	2x5'	2037	3-29	"	"
3-29	P-37/38/39	218' to 0'	PR-112	P.	E.	2x2'	2037	3-29	"	"
3-29	P-38/P-39	264' to 0'	PR-113	Q ₁₅ -P-16	E.	2x5'	2037	3-29	"	"
3-29	P-39/P-40	173' to 0'	PR-114	Q ₁₅ -P-17	E.	2x5'	2037	3-30	"	"
3-29	P-# 40/41/42	128' to 0'	PR-115	P.	E.	1x1'	2037	3-30	"	"
3-29	P-41/P-42	8'E. OF S/M # 41/43	PR-116	Q ₁₅ -P-18	E.	2x5'	2037	3-30	"	"
3-29	P-# 41/42/43	128' to 0'	PR-117	P.	E.	1x1'	2037	3-30	"	"
3-29	P-43/P-44	51' to 0'	PR-118	Q ₁₅ -P-19	E.	2x5'	2037	3-30	"	"
3-29	P-44/P-46	135' to 0'	PR-119	Q ₁₅ -P-20	E.	2x5'	2037	3-30	"	"
3-29	P-# 44/45/46	37' to 0'	PR-120	P.	E.	2x4'	2037	3-30	"	"
3-29	P-44/P-45	25' to 0'	PR-121	P.	E.	1x1'	2037	3-30	"	"
3-29	P-44/P-45	Between PR-120 & 121	PR-122	E.	E.	-	2037	3-30	"	"
3-29	P-# 45/46/47	37' to 0'	P-123	P.	E.	2x3'	2037	3-30	"	"

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Notes: (1) Repair Codes:
(2) Repair Types:

P = Patch C = Cap
E = Extrusion F = Fusion

G = Grind & Weld

DS = Destructive Sample

R = Reconstruction

REF: 000.118



GEOSYNTEC CONSULTANTS
Boynton Beach, Florida



Trail Ridge Landfill, Inc.

Repair Summary Log

Sheet No.: 8 of

Primary

Project: Trail Ridge Landfill

Project No.: F02030

Phase: I & II

Location: Jacksonville, Florida

Contractor: National Seal Company

Year: 1992

Date Repaired (mo/dy)	Seam or Panel No.	Location	Repair			Oper. I.D.	Mach. No.	Q.A. I.D.	Non-Destructive Testing		
			No.	Code (1)	Type (2)				Date (mo/dy)	Oper. I.D.	Pass Fail
3-29	P-46/P-47	253' to 0'	PR-124	D ¹⁵ P ²¹	E.	2037	G- ¹⁵	J.K.	3-30	2067	P -
3-29	P- ³⁸	225' to 51m # 38/39	PR-125	G.	E.	2037	G- ¹⁵	J.K.	3-30	2067	P -
3-30	P- ³³	12' to 51m # 34/35	PR-126	G.	E.	2037	G- ¹⁵	J.K.	3-30	2067	P -
3-30	P-38/P-39	252' to 0'	PR-127	P.	E.	2037	G- ¹⁵	J.K.	3-30	2067	P -
3-30	P-38/P-39	273' to 0'	PR-128	P.	E.	2037	G- ¹⁵	J.K.	3-30	2067	P -
3-30	P-38/P-39	275' to 0'	PR-129	D ¹⁵ P ¹⁶⁸	E.	2010	G- ¹⁵	J.K.	3-30	2067	P -
3-30	P-38/P-39	284' to 0'	PR-130	P.	E.	2010	G- ¹⁵	J.K.	3-30	2067	P -
3-30	P-38/P-39	Between PR-129 & 130	PR-131	E.	E.	2010	G- ¹⁵	J.K.	3-30	2067	P -
3-30	P-38/P-39	250' to 0'	PR-132	D ¹⁵ P ^{16A}	E.	2010	G- ¹⁵	J.K.	3-30	2067	P -
3-30	P-38/P-39	242' to 0'	PR-133	P.	E.	2010	G- ¹⁵	J.K.	3-30	2067	P -
3-30	P-38/P-39	Between PR-132 & 133	PR-134	E.	E.	2010	G- ¹⁵	J.K.	3-30	2067	P -
3-30	P-47/48/49	354' to 0'	PR-135	P.	E.	2010	G- ¹⁵	J.K.	3-30	2067	P -
3-30	P-47/P-48	320' to 0'	PR-136	D ¹⁵ P ²²	E.	2010	G- ¹⁵	J.K.	3-30	2067	P -
3-30	P-48/P-50	26' to 0'	PR-137	P.	E.	2010	G- ¹⁵	J.K.	3-30	2067	P -
3-30	P- ⁴⁸	26' to 4' E. of 51m # 48/50	PR-138	G.	E.	2010	G- ¹⁵	J.K.	3-30	2067	P -
3-30	P- ⁵⁰	198' to 3' W. of 51m # 48/50	PR-139	G.	E.	2010	G- ¹⁵	J.K.	3-30	2067	P -
3-30	P-48/49/50	353' to 0'	PR-140	P.	E.	2010	G- ¹⁵	J.K.	3-30	2067	P -
3-30	P-50/P-51	248' to 0'	PR-141	D ¹⁵ P ²³	E.	2010	G- ¹⁵	J.K.	3-30	2067	P -
3-30	P-50/P-51	27' to 0'	PR-142	P.	E.	2010	G- ¹⁵	J.K.	3-30	2067	P -

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Notes: (1) Repair Codes:

P = Patch

C = Cap

G = Grind & Weld

DS = Destructive Sample

R = Reconstruction

(2) Repair Types:

E = Extrusion

F = Fusion

REPAIRS.xls



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Boynton Beach, Florida



Trail Ridge Landfill, Inc.

Repair Summary Log

Sheet No.: 9 of

PRIMARY

Project: Trail Ridge Landfill

Project No.: FQ2030

Phase: I & II

Location: Jacksonville, Florida

Contractor: National Seal Company

Year: 1992

Date Repaired (mo/dy)	Seam or Panel No.	Location	Repair			Oper. I.D.	Mach. No.	Q.A. I.D.	Non-Destructive Testing				
			No.	Code (1)	Type (2)				Dim.	Date (mo/dy)	Oper. I.D.	Pass	Fail
3-30	P-61/P-52	119' to 0'	PR-143	D ¹⁵ P24	E.	2x5'	G- ¹⁵ /15	J.K.	3-30	2067	P	-	C8
3-30	P-51/52/53	273' to 0'	PR-144	P.	E.	2x2'	G- ¹⁵ /15	J.K.	3-30	2067	P	-	C8
3-30	P-52/53/54	272' to 0'	PR-145	P.	E.	2x2'	G- ¹⁵ /15	J.K.	3-30	2067	P	-	C8
3-30	P-52/P-54	207' to 0'	PR-146	D ¹⁵ P25	E.	2x5'	G- ¹⁵ /15	J.K.	3-30	2067	P	-	C8
3-30	P-54/P-55	160' to 0'	PR-147	P.	E.	2x4'	G- ¹⁵ /15	J.K.	3-30	2067	P	-	C8
3-30	P-54/P-55	296' to 0'	PR-148	D ¹⁵ P26	E.	2x5'	G- ¹⁵ /15	J.K.	3-30	2067	P	-	C8
4-4	P-20/P-56	230' to 0'	PR-149	P.	E.	1x1'	G- ¹⁹ /9	J.K.	4-4	2036	P	-	J.K.
4-4	P-20/P-56	212' to 0'	PR-150	P.	E.	1x1'	G- ¹⁹ /9	J.K.	4-4	2036	P	-	J.K.
4-4	P-20/P-56	Between PR-149 & PR-150	PR-151	R.	E.	-	G- ¹⁹ /9	J.K.	4-4	2036	P	-	J.K.
4-4	P-20/P-56	214' to 0'	PR-152	P.	E.	1x1'	G- ¹⁹ /9	J.K.	4-4	2036	P	-	J.K.
4-4	P-20/P-56	Between PR-150 & PR-152	PR-153	R	E.	-	G- ¹⁹ /9	J.K.	4-4	2036	P	-	J.K.
4-4	P-20/P-56	183' to 0'	PR-154	D ¹⁵ P27	E.	2x5'	G- ¹⁹ /9	J.K.	4-4	2036	P	-	J.K.
4-4	P-20/P-56	141' to 0'	PR-155	P.	E.	1x1'	G- ¹⁹ /9	J.K.	4-4	2036	P	-	J.K.
4-4	P-20/P-56	14' to 0'	PR-156	P.	E.	1x1'	G- ¹⁹ /9	J.K.	4-4	2036	P	-	J.K.
4-4	P-20/P-56	4' to 0'	PR-157	P.	E.	1x1'	G- ¹⁹ /9	J.K.	4-4	2036	P	-	J.K.
4-4	P-20/P-56	0' to 14'	PR-158	R.	E.	-	G- ¹⁹ /9	J.K.	4-4	2036	P	-	J.K.
4-4	P-56/P-57	138' to 0'	PR-159	D ¹⁵ P28	E.	2x5'	G- ¹⁹ /9	J.K.	4-4-92	2026	P	-	J.K.
4-4	P-56/P-57	190' to 0'	PR-160	P.	E.	1x1'	G- ¹⁹ /9	J.K.	4-4	2026	P	-	J.K.
4-4	P-56/57/58	202' to 0'	PR-161	G.	E.	-	G- ¹⁹ /9	J.K.	4-4	2036	P	-	J.K.

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Notes: (1) Repair Codes:

(2) Repair Types: P = Patch C = Cap G = Grind & Weld DS = Destructive Sample R = Reconstruction T = Topping
E = Extrusion F = Fusion

REF: 100.110



GEOSYNTEC CONSULTANTS
Boynton Beach, Florida



Trail Ridge Landfill, Inc.

Repair Summary Log

Primary

Sheet No.: 10 of

Project: Trail Ridge Landfill

Project No.: FQ2030

Phase: I & II

Location: Jacksonville, Florida

Contractor: National Seal Company

Year: 1992

Date Repaired (mo/dy)	Seam or Panel No.	Location	Repair			Oper. I.D.	Mach. No.	Q.A. I.D.	Non-Destructive Testing				
			No.	Code (1)	Type (2)				Dim.	Date (mo/dy)	Oper. I.D.	Pass	Fail
4-4-92	P-56/P-57	BETWEEN PR-160 & PR-161	PR-162	R.	E.	-	G-#9	J.K.	4-4-92	2036	PASS	-	J.K.
4-4	P-56/P-58	209' to 0'	PR-163	P.	E.	1x1'	G-#9	J.K.	4-4	2036	P.	-	J.K.
4-4	P-56/P-58	BETWEEN PR-161 & PR-163	PR-164	R.	E.	-	G-#9	J.K.	4-4	2036	P.	-	J.K.
4-4	P-#58	203' & 5' E. OF SIM #56/58	PR-165	P.	E.	1x1'	G-#9	J.K.	4-4	2036	P.	-	J.K.
4-4	P-56/P-58	226' to 0'	PR-166	P.	E.	1x2'	G-#9	J.K.	4-4	2036	PASS	-	J.K.
4-4	P-58/P-59	283' to 0'	PR-167	D ¹ / ₅ " P29	E.	2x5'	G-#15-	J.K.	4-6-92	2068	PASS	-	J.K.
4-4	P-58/P-59	222' to 0'	PR-168	P.	E.	1x1'	G-#9	J.K.	4-6	2068	PASS	-	J.K.
4-4	P-58/P-59	217' to 0'	PR-169	P.	E.	1x9'	G-#9	J.K.	4-6	2067	P.	-	J.K.
4-4	P-58/P-59	212' to 0'	PR-170	P.	E.	1x8	G-#9	J.K.	4-6	2067	P.	-	J.K.
4-4	P-57/58/59	200' to 0'	PR-171	P.	E.	1x1'	G-#9	J.K.	4-6	2068	P.	-	J.K.
4-4	P-58/P-59	BETWEEN SR-170 & SR-171	PR-172	R.	E.	-	G-#9	J.K.	4-6	2067	P.	-	J.K.
4-4	P-59/P-60	15' to 0'	PR-173	P.	E.	1x1'	G-#9	J.K.	4-6	2067	P.	-	J.K.
4-4	P-59/P-60	2' to 0'	PR-174	P.	E.	1x1	G-#9	J.K.	4-6	2067	P.	-	J.K.
4-4	P-59/P-60	0' to 15'	PR-175	R.	E.	-	G-#9	J.K.	4-6	2067	P.	-	J.K.
4-6	P-59/P-60	204' to 0'	PR-176	D ¹ / ₅ " P30A	E.	2x5'	G-#15	J.K.	4-6	2067	PASS	-	J.K.
5 th 4-8-94	P-59/P-60	219' to 0'	PR-177	P ¹ / ₅ " P30	E.	2x5'	G-#15-	J.K.	4-6	2068	P.	-	J.K.
4-6	P-59/P-60	BETWEEN PR-176 & PR-177	PR-178	R.	E.	-	G-#15-	J.K.	4-6	2067	P.	-	J.K.
4-6	P-59/P-60	237' to 0'	PR-179	D ¹ / ₅ " P30-B	E.	2x5'	G-#15-	J.K.	4-6	2067	P.	-	J.K.
4-6	P-59/P-60	BETWEEN PR-177 & PR-179	PR-180	R.	E.	-	G-#15-	J.K.	4-6	2067	P.	-	J.K.

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Notes: (1) Repair Codes: P = Patch
(2) Repair Types: E = Extrusion F = Fusion

G = Grind & Weld
DS = Destructive Sample

R = Reconstruction

T = Topping

REPAIRS



GEOSYNTEC CONSULTANTS
Boynton Beach, Florida



Trail Ridge Landfill, Inc.

Repair Summary Log

Sheet No. 11 of 11

Primary

Project: Trail Ridge Landfill

Project No.: FQ2030

Phase: I & II

Location: Jacksonville, Florida

Contractor: National Seal Company

Year: 1992

Date Repaired (mo/dy)	Seam or Panel No.	Location	Repair			Oper. I.D.	Mach. No.	Q.A. I.D.	Non-Destructive Testing				
			No.	Code (1)	Type (2)				Dim.	Date (mo/dy)	Oper. I.D.	Pass	Fail
4-4	P-60/P-61/62	125' to 0' T.	PR-181	G.	E.	-	G-#9	J.K.	4-6-92	2036	Pass	-	J.K.
4-4	P-61/P-63	78' to 0'	PR-182	9/8 P-31	E.	2x5'	G-#9	J.K.	4-6	2036	Pass	-	J.K.
4-4	P-61/62/63	125' to 0'	PR-183	P.	E.	1x1'	G-#9	J.K.	4-6	2036	Pass	-	J.K.
4-4	P-62/P-63	207' to 0'	PR-184	P.	E.	1x1'	G-#9	J.K.	4-6	2036	Pass	-	J.K.
4-4	P-62/P-63	222' to 0'	PR-185	P.	E.	1x1'	G-#9	J.K.	4-6	2036	Pass	-	J.K.
4-4	P-62/P-63	Between PR-184 & PR-185	PR-186	R.	E.	-	G-#9	J.K.	4-6	2036	Pass	-	J.K.
4-4	P-63/P-64	171' to 0'	PR-187	9/8 P-32	E.	2x5'	G-#9	J.K.	4-6	2067	Pass	-	J.K.
4-4	P-64/65/66	29' to 0'	PR-188	P.	E.	1x1'	G-#9	J.K.	4-6	2067	Pass	-	J.K.
4-4	P-64/P-66	293' to 0'	PR-189	9/8 P-33	E.	2x5'	G-#15	J.K.	4-6	2036	Pass	-	J.K.
4-4	P-65/66/67	29' to 0'	PR-190	P.	E.	1x1'	G-#9	J.K.	4-6	2036	Pass	-	J.K.
4-4	P-67/P-68	47' to 0'	PR-191	P.	E.	2x3'	G-#15	J.K.	4-6	2036	Pass	-	J.K.
4-4	P-#68	55' 41" E. OF 51M* 67/68	PR-192	G.	E.	-	G-#15	J.K.	4-6	2036	Pass	-	J.K.
4-4	P-67/P-68	192' to 0	PR-193	9/8 P-34	E.	2x5'	G-#9	J.K.	4-6	2036	Pass	-	J.K.
4-4	P-67/P-68	198' to 0'	PR-194	P.	E.	1x1'	G-#9	J.K.	4-6	2067	Pass	-	J.K.
4-4	P-67/P-68	Between PR-193 & PR-194	PR-195	R.	E.	-	G-#9	J.K.	4-6	2067	Pass	-	J.K.
4-4	P-68/69/70	198' to 0'	PR-196	P.	E.	1x1'	G-#9	J.K.	4-6	2067	Pass	-	J.K.
4-4	P-68/P-70	117' to 0'	PR-197	9/8 P-35	E.	2x5'	G-#9	J.K.	4-6	2067	Pass	-	J.K.
4-4	P-70/P-71	7' to 0'	PR-198	P.	E.	2x3	G-#9	J.K.	4-6	2036	Pass	-	J.K.
4-4	P-70/P-71	0' to 7'	PR-199	R.	E.	-	G-#9	J.K.	4-6	2036	Pass	-	J.K.

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Notes: (1) Repair Codes:
(2) Repair Types:

P = Patch C = Cap
E = Extrusion F = Fusion

G = Grind & Weld DS = Destructive Sample

R = Reconstruction

T = Topping

REF:MSJ.M



GEOSYNTEC CONSULTANTS
Boynton Beach, Florida



Trail Ridge Landfill, Inc.

Repair Summary Log

Sheet No.: 12 of

Primary

Project: Trail Ridge Landfill

Project No.: FQ2030

Phase: I & II

Location: Jacksonville, Florida

Contractor: National Seal Company

Year: 1992

Date Repaired (mo/dy)	Seam or Panel No.	Location	Repair			Oper. I.D.	Mach. No.	Q.A. I.D.	Non-Destructive Testing					
			No.	Code (1)	Type (2)				Dim.	Date (mo/dy)	Oper. I.D.	Pass	Fail	Q.A. I.D.
4-4	P-71	82' x 7' E. of 51m #790	PR-200	G.	E.	-	2036	G-9	J.K.	4-6	2036	PASS	-	J.K.
4-4	P-70/P-71	264' to 0	PR-201 D/S #201	D/S P36	E.	2x5'	2010	G-4/15	J.K.	4-6	2036	PASS	-	J.K.
4-4	P-71/P-73	181'	PR-202	D/S #P37	E	2x5'	2010	G-4/15	B.T.	4-6	2036	PASS	-	J.K.
4-4	P-71/P-72/P-73	101'	PR-203	P	E	1x1'	2010	G-4/15	B.T.	4-6	2036	PASS	-	J.K.
4-4	P-71/P-72	72'	R-204	P	E	2x3'	2010	G-4/15	B.T.	4-6	2036	PASS	-	J.K.
4-4	P-71/P-72	Between PR-203 + PR-204	PR-205	R	E	-	2010	G-4/15	B.T.	4-6	2036	PASS	-	J.K.
4-4	P-71/P-72	42'	PR-206	P	E	2x5'	2010	G-4/15	B.T.	4-6	2036	PASS	-	J.K.
4-4	P-72/P-74	18'	PR-207	P	E	2x4'	2010	G-4/15	B.T.	4-6	2036	PASS	-	J.K.
4-4	P-72/P-74	63'	PR-208	R G	E	1'	2010	G-4/15	B.T.	4-6	2036	PASS	-	J.K.
4-4	P-72/P-73/P-74	101'	PR-209	P	E	1x1'	2010	G-4/15	B.T.	4-6	2036	PASS	-	J.K.
4-4	P-74/P-75	295'	PR-210	B P38	E	2x5'	2010	G-4/15	B.T.	4-6	2036	PASS	-	J.K.
4-4	P-75/P-76	196'	PR-211	D/S P39	E	2x5'	2010	G-4/15	B.T.	4-6	2036	PASS	-	J.K.
4-4	P-76/P-77	53' to 0'	PR-212	D/S #P40	E.	2x5'	2010	G-4/15	J.K.	4-6	2036	PASS	-	J.K.
4-4	P-77/P-79	290' to 0'	PR-213	P.	E.	2x2'	2010	G-4/15	J.K.	4-6	2036	PASS	-	J.K.
4-4	P-77/P-79	331' to 0'	PR-214	D/S #P41	E.	2x5'	2010	G-4/15	J.K.	4-6	2036	PASS	-	J.K.
4-4	P-78/P-80	290' to 0' T.	PR-215	G.	E.	-	2010	G-4/15	J.K.	4-6	2036	PASS	-	J.K.
4-4	P-79	295' to 5' W. of 51m #790	PR-216	G.	E.	-	2010	G-4/15	J.K.	4-6	2036	PASS	-	J.K.
4-4	P-78/P-80	271' to 0'	PR-217	D/S #P42	E.	2x5'	2010	G-4/15	J.K.	4-6	2036	PASS	-	J.K.
4-4	P-78/P-79	290' Recon. Entire Seam	PR-218	R.	E.	-	2010	G-4/15	J.K.	4-6	2036	PASS	-	J.K.

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Notes: (1) Repair Codes: P = Patch C = Cap
(2) Repair Types: E = Extrusion F = Fusion

DS = Destructive Sample

R = Reconstruction

T = Topping

REPAIR LOG



GEOSYNTEC CONSULTANTS
Boynton Beach, Florida



Trail Ridge Landfill, Inc.

Repair Summary Log

Sheet No.: 13 of

PRIMARY

Project: Trail Ridge Landfill

Project No.: F02030

Phase: I & II

Location: Jacksonville, Florida

Contractor: National Seal Company

Year: 1992

Date Repaired (mo/dy)	Seam or Panel No.	Location	Repair		Oper. I.D.	Mach. No.	Q.A. I.D.	Non-Destructive Testing		
			No.	Code (1)	Type (2)	Dim.		Date (mo/dy)	Oper. I.D.	Pass Fail
4-4-92	P-81/P-83	215' to 0'	PR219	95P43	E	2x5'	2010 G-15	4-6-92	2036	Pass -
4-4	P-81/P-83	198' to 0'	PR220	P	E	1x1'	2010 G-15	4-6-92	2036	Pass -
4-4	P-84/P-84	198' to 0'	PR221	P	E	1x1'	2010 G-15	4-6-92	2036	Pass -
4-4	P-83	202' to 2' W of 5m # 83/84	PR222	G	E	-	2010 G-15	4-6-92	2036	Pass -
4-4	P-83/P-84	310' to 0'	PR223	95P44	E	2x5'	2010 G-15	4-6-92	2036	Pass -
4-4	P-84/P-85	140' to 0'	PR224	95P45	E	2x5'	2010 G-15	4-6-92	2036	Pass -
4-6	P-85/P-86	378' to 0'	PR225	P	E	2x3'	2010 G-15	4-7-92	2067	P -
4-6	P-85/P-86	222' to 0'	PR226	P	E	2x8'	2010 G-15	4-7	2067	P -
4-7	P-85/P-86	21' to 0'	PR227	95P46	E	2x5'	2010 G-9	4-7-92	2068	P -
4-7	P-85	25' to 0' & 6' E of 5m # 84/85	PR228	G	E	-	2010 G-9	4-7	2067	P -
4-7	P-85	15' to 0' & 3' W of 5m # 85/86	PR229	G	E	-	2010 G-9	4-7	2067	P -
4-7	P-85	6' to 0' & 1' W of 5m # 86/87	PR230	G	E	-	2010 G-9	4-7	2068	P -
4-7	P-85	4' to 0' & 7' W of 5m # 85/86	PR231	P	E	2x2	2010 G-9	4-7	2068	P -
4-7	P-85	9' to 0' & 5' E of 5m # 84/85	PR232	P	E	2x2	2010 G-9	4-7	2068	P -
4-7	P-84	9' to 0' & 4' E of 5m # 84/85	PR233	P	E	3x3	2010 G-9	4-7	2067	P -
4-6	P-86/P-87	14' to 0'	PR234	P	E	2x2	2010 G-15	4-6-92	2067	P -
4-6	P-86/P-87	23' to 0'	PR235	P	E	2x2	2010 G-15	4-6	2067	P -
4-6	P-86/P-87	14' to 23' (Ext. Seam)	PR236	E	E	-	2010 G-15	4-6	2067	P -
4-6	P-86/P-87	139' to 0'	PR237	P	E	1x1	2010 G-15	4-6	2067	P -

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Notes: (1) Repair Codes: P = Patch C = Cap DS = Destructive Sample R = Reconstruction
(2) Repair Types: E = Extrusion F = Fusion G = Grind & Weld



GEOSYNTEC CONSULTANTS
Boynton Beach, Florida



Trail Ridge Landfill, Inc.

Repair Summary Log

Sheet No.: 134 of 134

Primary

Project: Trail Ridge Landfill

Project No.: FQ2030

Phase: I & II

Location: Jacksonville, Florida

Contractor: National Seal Company

Year: 1992

Date Repaired (mo/dy)	Seam or Panel No.	Location	Repair				Oper. I.D.	Mach. No.	Q.A. I.D.	Non-Destructive Testing				
			No.	Code (1)	Type (2)	Dim.				Date (mo/dy)	Oper. I.D.	Pass	Fail	Q.A. I.D.
4-7	P86/P87	309 to 0'	PR238	DS P 47	E	2x5	2010	G-9	CS	4-8	2067	Pass	-	J.K.
4-7	P-87/P88	181 to 0'	PR239	DS P 48	E	2x5	2010	G-9	CS	4-8	2067	P.	-	J.K.
4-7	P87/P88/89	296' to 0'	PR240	P	E	1x1	2010	G-15	CS	4-8	2067	P.	-	J.K.
4-7	P88/89/90	296' to 0'	PR241	P	E	1x1	2010	G-9	CS	4-8	2067	P.	-	J.K.
4-7	P88/P90	220' to 0'	PR242	P	E	2x2	2010	G-15	CS	4-8	2067	P.	-	J.K.
4-7	P88/P90	212' to 0'	PR243	P	E	2x2	2010	CS G-15	CS	4-8	2067	P.	-	J.K.
4-7	P88/P90	212' to 220' (Ext seam)	PR244	E	E	-	2010	CS G-15	CS	4-8	2067	P.	-	J.K.
4-7	P88/P90	189' to 0'	PR245	P	E	1x1	2010	CS G-15	CS	4-8	2067	P.	-	J.K.
4-7	P88/P90	182' to 0'	PR246	P	E	1x1	2010	CS G-15	CS	4-8	2067	P.	-	J.K.
4-7	P88/P90	182' to 189' (Ext seam)	PR247	E	E	-	2010	CS G-15	CS	4-8	2067	P.	-	J.K.
4-7	P88/P-90	75' to 0'	PR248	DS P 49	E	2x5	2010	G-9	CS	4-8	2067	P.	-	J.K.
4-7	P90/P91	137' to 0'	PR249	P	E	1x1	2010	G-9	CS	4-8	2067	P.	-	J.K.
4-7	P91/P93	237' to 0'	PR250	DS P 50	E	2x5	2010	G-9	CS	4-8	2067	P.	-	J.K.
4-7	P-93	229' to 0' 229' to 0' 4' 20' F	PR251	PR	E	1x1	2010	G-9	CS	4-8	2067	P.	-	J.K.
4-7	P91/P92/P93	195' to 0'	PR252	P	E	2x2	2010	G-9	CS	4-8	2067	P.	-	J.K.
4-7	P92/P94	100' to 0'	PR253	DS P 51	E	2x5	2010	G-9	CS	4-8	2067	P.	-	J.K.
4-7	P92/93/94	195' to 0'	PR254	P	E	2x2	2010	G-9	CS	4-8	2067	P.	-	J.K.
4-7	P-94/P-95	239' to 0'	PR255	DS P 52	E	2x5	2010	G-9	CS	4-8	2067	P.	-	J.K.
4-7	P-95/96/97	108' to 0'	PR256	P.	E.	2x2'	2010	G-9	J.N.	4-8	2067	Pass	-	J.K.



GEOSYNTEC CONSULTANTS
Boynton Beach, Florida



Trail Ridge Landfill, Inc.

Repair Summary Log

Primary

Sheet No. 15 of

Project: Trail Ridge Landfill

Project No.: FQ2030

Phase: I & II

Location: Jacksonville, Florida

Contractor: National Seal Company

Year: 1992

Date Repaired (mo/dy)	Seam or Panel No.	Location	Repair				Oper. I.D.	Mach. No.	Q.A. I.D.	Non-Destructive Testing				
			No.	Code (1)	Type (2)	Dim.				Date (mo/dy)	Oper. I.D.	Pass	Fail	Q.A. I.D.
4-7	P-95/P-96	13' to 0'	PR-257	P.	E.	2x2'	2010	G-#9	J.K.	4-8	2067	Pass	-	J.K.
4-7	P-95/P-96	0' to 13'	PR-258	R.	E.	-	2010	G-#9	J.K.	4-8	2067	P.	-	J.K.
4-7	P-96/P-98	81' to 0'	PR-259	9/5 P-53	E.	2x5'	2010	G-#9	J.K.	4-8	2067	P.	-	J.K.
4-7	P-96/97/98	108' to 0'	PR-260	P.	E.	2x3'	2010	G-#9	J.K.	4-8	2067	P.	-	J.K.
4-8	P-98/P-99	236' to 0'	PR-261	9/5 P-54	E.	2x5'	2036	G-#9	J.K.	4-8	2067	Pass	-	J.K.
4-7	P-99/P-100	EXT. ENTIRE SEAM	PR-262	R	E.	-	2010	G-#9	J.K.	4-8	2067	P.	-	J.K.
4-8	P-# 99	ADD ON SKIRT TO N. END	PR-263	P.	E.	6x15'	2036	G-#9	J.K.	4-8	2067	P.	-	J.K.
4-7	P-99/100/101	25' to 0'	PR-264	P.	E.	5x12'	2010	G-#9	J.K.	4-8	2067	P.	-	J.K.
4-7	P-# 99	210' to 5' W. OF 5/m # 99/101	PR-265	G.	E.	-	2010	G-#9	J.K.	4-8	2067	P.	-	J.K.
4-7	P-99/P-101	357' to 0'	PR-266	9/5 P-55	E.	5x8' to 24'	2010	G-#9	J.K.	4-8	2067	Pass	-	J.K.
4-8	P-101/P-102	147' to 0'	PR-267	9/5 P-56	E.	2x5'	2036	G-#9	J.K.	4-8	2067	P.	-	J.K.
4-7	P-100/101/102	17' to 0'	PR-268	P.	E.	2x2'	2010	G-#9	J.K.	4-8	2067	P.	-	J.K.
4-7	P-102/P-103	7' to 0'	PR-269	P.	E.	1x1'	2010	G-#9	J.K.	4-8	2067	P.	-	J.K.
4-7	P-102/P-103	0' to 7'	PR-270	R.	E.	-	2010	G-#9	J.K.	4-8	2068	P.	-	J.K.
4-8	P-102/P-103	50' to 0'	PR-271	P.	E.	2x3'	2036	G-#9	J.K.	4-8	2068	P.	-	J.K.
4-8	P-102/P-103	62' to 0'	PR-272	9/5 P-57	E.	2x5'	2036	G-#9	J.K.	4-8	2068	P.	-	J.K.
4-8	P-102/P-103	206' to 0'	PR-273	P.	E.	2x7'	2036	G-#9	J.K.	4-8	2068	P.	-	J.K.
4-8	P-102/P-103	333' to 0'	PR-274	P.	E.	1x1'	2036	G-#9	J.K.	4-8	2068	P.	-	J.K.
4-8	P-102/103/104	349' to 0'	PR-275	P.	E.	3x6'	2036	G-#9	J.K.	4-8	2068	P.	-	J.K.

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Notes: (1) Repair Codes: P = Patch C = Cap

(2) Repair Types: E = Extrusion F = Fusion

G = Grind & Weld DS = Destructive Sample

R = Reconstruction

T = Topping

4-8 - P-102/P-103 - Between PR-274 & PR-275 - R. - E. - 2036 - G-#9 - J.K.

REMARKS



GEOSYNTEC CONSULTANTS
Boynton Beach, Florida



Trail Ridge Landfill, Inc.

Repair Summary Log

Sheet No.: 16 of

Primary

Project: Trail Ridge Landfill

Project No.: FQ2030

Phase: I & II

Location: Jacksonville, Florida

Contractor: National Seal Company

Year: 1992

Date Repaired (mo/dy)	Seam or Panel No.	Location	Repair				Oper. I.D.	Mach. No.	Q.A. I.D.	Non-Destructive Testing				
			No.	Code (1)	Type (2)	Dim.				Date (mo/dy)	Oper. I.D.	Pass	Fail	Q.A. I.D.
4-8-92	P-103/104/105	345' to 0'	PR-277	P.	E.	2x2'	2036	G-49	J.K.	4-8-92	2067	Pass	-	J.K.
4-8	P-103/P-105	241' to 0'	PR-278	1/5" P-58	E.	2x5'	2036	G-49	J.K.	4-8	2067	Pass	-	J.K.
4-8	P-105/P-106	172' to 0'	PR-279	1/5" P-59	E.	2x5'	2036	G-49	J.K.	4-8	2067	Pass	-	J.K.
4-8	P-106/107/108	321' to 0'	PR-280	P.	E.	1x2'	2036	G-49	J.K.	4-8	2067	Pass	-	J.K.
4-8	P-106/P-107	281' to 0'	PR-281	1/5" P-60	E.	2x5'	2036	G-49	J.K.	4-8	2067	Pass	-	J.K.
4-8	P-106/P-107	271' to 0'	PR-282	P.	E.	2x2'	2036	G-49	J.K.	4-8	2067	Pass	-	J.K.
4-8	P-106/P-107	Between PR-281 & PR-282	PR-283	R.	E.	-	2036	G-49	J.K.	4-8	2067	Pass	-	J.K.
4-8	P-106/P-107	206' to 0'	PR-284	P.	E.	1x1'	2036	G-49	J.K.	4-8	2067	P.	-	J.K.
4-8	P-106/P-107	196' to 0'	PR-285	P.	E.	1x1'	2036	G-49	J.K.	4-8	2067	P.	-	J.K.
4-8	P-106/P-107	Between PR-284 & PR-285	PR-286	R.	E.	-	2036	G-49	J.K.	4-8	2067	P.	-	J.K.
4-8	P-107/108/109	310' to 0'	PR-287	G.	E.	-	2036	G-49	J.K.	4-8	2067	P.	-	J.K.
4-7	P-211/P-73	171' to 0'	PR-288	1/5 P-37A	E.	2x5'	2036	G-49	J.K.	4-8	2067	P.	-	J.K.
4-7	P-211/P-73	Between PR-288 & 1/5 P-37	PR-289	R.	E.	-	2036	G-49	J.K.	4-8	2067	P.	-	J.K.
4-7	P-211/P-73	191' to 0'	PR-290	1/5 P-37B	E.	2x5'	2036	G-49	J.K.	4-8	2067	P.	-	J.K.
4-7	P-211/P-73	Between PR-290 & 1/5 P-37	PR-291	R.	E.	-	2036	G-49	J.K.	4-8	2067	P.	-	J.K.
4-8	P-94/P-95	215' to 0'	PR-292	1/5 P-37A	E.	2x5'	2036	G-49	J.K.	4-8	2067	P.	-	J.K.
4-8	P-94/P-95	Between PR-292 & 1/5 P-52	PR-293	R.	E.	-	2036	G-49	J.K.	4-8	2067	P.	-	J.K.
4-8	P-94/P-95	253' to 0'	PR-294	1/5 P-37B	E.	2x5'	2036	G-49	J.K.	4-8	2067	P.	-	J.K.
4-8	P-94/P-95	Between PR-294 & 1/5 P-52	PR-295	R.	E.	-	2036	G-49	J.K.	4-8	2067	P.	-	J.K.

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Notes: (1) Repair Codes: P = Patch C = Cap
(2) Repair Types: E = Extrusion F = Fusion

DS = Destructive Sample

R = Reconstruction

T = Topping

REPAIRS



GEOSYNTEC CONSULTANTS
Boynton Beach, Florida



Trail Ridge Landfill, Inc.

Repair Summary Log

Primary

Sheet No.: 17 of

Project: Trail Ridge Landfill

Project No.: FQ2030

Phase: I & II

Location: Jacksonville, Florida

Contractor: National Seal Company

Year: 1992

Date Repaired (mo/dy)	Seam or Panel No.	Location	Repair			Oper. I.D.	Mach. No.	Q.A. I.D.	Non-Destructive Testing				
			No.	Code (1)	Type (2)				Dim.	Date (mo/dy)	Oper. I.D.	Pass	Fail
4-8-92	P-109/P-110	191' to 0'	PR-296	P.	E.	2x12'	G-#9	J.K.	4-8	2065	P.	-	J.K.
4-8	P-# 110	26' to 1' E. of 5m 109/110	PR-297	G.	E.	-	G-#9	J.K.	4-8	2065	P.	-	J.K.
4-8	P-110/P-113	13' to 0'	PR-298	P.	E.	2x2'	G-#9	J.K.	4-8	2065	P.	-	J.K.
4-8	P-110/P-113	23' to 0'	PR-299	95 P-61	E.	2x5'	G-#9	J.K.	4-8	2065	P.	-	J.K.
4-8	P-110/P-113	50' to 0'	PR-300	P.	E.	2x3'	G-#9	J.K.	4-8	2065	P.	-	J.K.
4-8	P-110/P-113	100' to 0'	PR-301	P.	E.	2x2'	G-#9	J.K.	4-8	2065	P.	-	J.K.
4-8	P-110/P-113	Between PR-300 & PR-301	PR-302	R.	E.	-	G-#9	J.K.	4-8	2065	P.	-	J.K.
4-8	P-110/P-113	163' to 0'	PR-303	P.	E.	2x4'	G-#9	J.K.	4-8	2065	P.	-	J.K.
4-8	P-# 110	180' to 0' 257' J.K.	PR-304	P.	E.	3x15'	G-#9	J.K.	4-8	2065	P.	-	J.K.
4-8	P-13/P-112	257' to 0'	PR-305	95 P-62	E.	2x5'	G-#18	J.K.	4-9	2065	P.	-	J.K.
4-8	P-113/P-114	19' to 0'	PR-306	P.	E.	2x2'	G-#9	J.K.	4-9	2060	P.	-	J.K.
4-8	P-113/P-114	0' to 19'	PR-307	R.	E.	-	G-#9	J.K.	4-9	2065	P.	-	J.K.
4-8	P-114/P-115	70' to 0'	PR-308	P.	E.	2x2'	G-#9	J.K.	4-9	2060	P.	-	J.K.
4-8	P-114/P-115	70' to 85'	PR-309	R.	E.	-	G-#9	J.K.	4-9	2060	P.	-	J.K.
4-9	P-115/P-116	48' to 0'	PR-310	P.	E.	5'x5'	G-#9	J.K.	4-9	2060	P.	-	J.K.
4-9	P-115/P-116	0' to 48'	PR-311	R.	E.	-	G-#9	J.K.	4-9	2060	P.	-	J.K.
4-9	P-115/P-116	48' to South End	PR-312	R.	E.	-	G-#9	J.K.	4-9	2065	P.	-	J.K.
4-9	P-117/P-118	2' to 0'	PR-313	P.	E.	1x2'	G-#9	J.K.	4-9	2065	P.	-	J.K.
4-9	P-117/P-118	53' to 0'	PR-314	P.	E.	1x1'	G-#9	J.K.	4-9	2060	P.	-	J.K.

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Notes: (1) Repair Codes: P = Patch C = Cap
(2) Repair Types: E = Extrusion F = Fusion

DS = Destructive Sample
G = Grind & Weld

R = Reconstruction

T = Topping

REF: 0001.10



GEOSYNTEC CONSULTANTS
Boynton Beach, Florida



Trail Ridge Landfill, Inc.

Repair Summary Log

Primary

Sheet No.: 18 of

Project: Trail Ridge Landfill

Project No.: FQ2030

Phase: I & II

Location: Jacksonville, Florida

Contractor: National Seal Company

Year: 1992

Date Repaired (mo/dy)	Seam or Panel No.	Location	Repair			Oper. I.D.	Mach. No.	Q.A. I.D.	Non-Destructive Testing				
			No.	Code (1)	Type (2)				Dim.	Date (mo/dy)	Oper. I.D.	Pass	Fail
4-9-92	P-117/P-118	53' to South End	PR-315	R	E.	-	G-#9	J.K.	4-9-92	2060	P.	-	J.K.
4-9	P-117/P-118	12' to 0'	PR-316	P.	E.	1x2'	G-#9	J.K.	4-10-92	2060	P.	-	J.K.
4-9	P-117/P-118	0' to 12'	PR-317	R.	E.	-	G-#9	J.K.	4-10	2060	P.	-	J.K.
4-10	P-4/5/127	167' to 0'	PR-318	P.	E.	2x6'	G-#18	J.K.	4-10	2067	P.	-	J.K.
4-10	P-8/9/127	204' to 0'	PR-319	P.	E.	2x2'	G-#18	J.K.	4-10	2067	P.	-	J.K.
4-10	P-123/P-124	207' to 0'	PR-320	P.	E.	1x1'	G-#18	J.K.	4-10	2067	P.	-	J.K.
4-10	P-9/P-127	211' to 0'	PR-321	P.	E.	2x5'	G-#18	J.K.	4-10	2067	P.	-	J.K.
4-10	P-123/P-123	182' to 0'	PR-322	P.	E.	5x5'	G-#9	J.K.	4-10	2067	P.	-	J.K.
4-10	P-#122	178' to 0 & 2' W. of Sump	PR-323	P.	E.	1x1'	G-#9	J.K.	4-10	2067	P.	-	J.K.
4-10	P-122/P-123	183' to 0'	PR-324	P.	E.	2x11'	G-#9	J.K.	4-10	2067	P.	-	J.K.
4-10	P-128/P-125	Sump #5 to 10' S. of PR-323	PR-325	G.	E.	-	G-#9	J.K.	4-10	2067	P.	-	J.K.
4-10	P-123/P-124	179' to 0'	PR-326	P.	E.	2x11'	G-#9	J.K.	4-10	2067	P.	-	J.K.
4-10	P-#123	177' & 2' E. of Sump	PR-327	P.	E.	1x1'	G-#9	J.K.	4-10	2067	P.	-	J.K.
4-10	PR-123/124/4	From PR-324 to Sump	PR-328	G.	E.	-	G-#9	J.K.	4-10	2067	P.	-	J.K.
4-10	Sump Skirt		PR-329	Boat	E.	-	G-#18	J.K.	4-10	2067	P.	-	J.K.
4-10	P-124/P-9	213' to 0'	PR-330	P.	E.	1x1'	G-#18	J.K.	4-10	2067	P.	-	J.K.
4-10	P-126/P-127	(3-PL) 209' to 0'	PR-331	P.	E.	3x4'	G-#18	J.K.	4-10	2067	P.	-	J.K.
4-10	P-#125	177' & 1' W. of Sump	PR-332	P.	E.	1x1'	G-#9	J.K.	4-10	2067	P.	-	J.K.
4-10	P-125/P-126	(3-PL) 182' to 0'	PR-333	P.	E.	2x11'	G-#9	J.K.	4-10	2067	P.	-	J.K.

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Notes: (1) Repair Codes: P = Patch C = Cap G = Grind & Weld DS = Destructive Sample R = Reconstruction T = Topping
(2) Repair Types: E = Extrusion F = Fusion

Note: PR-331 Designation 3-PL = THIRD PROTECTIVE LAYER IN SUMP. J.K.

Panels # P-125, 126, 127 & 128.



GEOSYNTEC CONSULTANTS
Boynton Beach, Florida



Trail Ridge Landfill, Inc.

Repair Summary Log

Sheet No.: 19 of

Primary

Project: Trail Ridge Landfill

Project No.: FQ2030

Phase: I & II

Location: Jacksonville, Florida

Contractor: National Seal Company

Year: 1992

Date Repaired (mo/dy)	Seam or Panel No.	Location	Repair				Oper. I.D.	Mach. No.	Q.A. I.D.	Non-Destructive Testing			
			No.	Code (1)	Type (2)	Dim.				Date (mo/dy)	Oper. I.D.	Pass	Fail
4-10	P-# 127	(3-PL) 1754' to 0' ^{2' E. OF SEAM}	PR-334	P	E.	1x1'	2036	6-# 9	J.K.	P.	-	J.K.	
4-10	P-126/P-127	(3-PL) 180' to 0'	PR-335	P	E.	2x11'	2036	6-# 9	J.K.	P.	-	J.K.	
4-10	P-# 127	(3-PL) EXT. PR-335 to 1/2 COL. ^{EXT.}	PR-336	G.	E.	-	2036	6-# 9	J.K.	P.	-	J.K.	
4-10	BOOT/SKIIR	8007/SKIIR TO PRIMARY ^{EXT. (3-PL)}	PR-337	G.	E.	-	2036	6-# 9	J.K.	P.	-	J.K.	
-	END	PRIMARY Phase	1-A	-	-	-	-	-	-	-	-	J.K.	
4-16	P-129/P-131	140' to 0'	PR-338	P	E.	2x2'	2010	6-# 15	J.K.	P.	-	J.K.	
4-16	P-129/P-131	145' to 0'	PR-339	P	E.	2x2	2010	6-# 15	J.K.	P.	-	J.K.	
4-16	P-129/P-131	BETWEEN PR-338 & 339	PR-340	R.	E.	-	2010	6-# 15	J.K.	P.	-	J.K.	
4-16	P-129/130/131	101' to 0'	PR-341	P	E.	2x2'	2010	6-# 15	J.K.	P.	-	J.K.	
4-16	P-130/131/132	101' to 0'	PR-342	P	E.	2x2'	2010	6-# 15	J.K.	P.	-	J.K.	
4-16	P-130/P-131	EXT. ENTIRE SEAM	PR-343	R.	E.	-	2010	6-# 15	J.K.	P.	-	J.K.	
4-16	P-129/P-130	78' to 0'	PR-344	P ¹³ P ¹³	E.	2x5'	2010	6-# 15	J.K.	P.	-	J.K.	
4-16	P-129/P-130	46' to 0'	PR-345	P	E.	1x1'	2010	6-# 15	J.K.	P.	-	J.K.	
4-16	P-131/P-132	144' to 0'	PR-346	P	E.	2x3'	2010	6-# 15	J.K.	P.	-	J.K.	
4-16	P-131/P-132	249' to 0'	PR-347	P ¹³ P ¹⁴	E.	2x5'	2010	6-# 15	J.K.	P.	-	J.K.	
4-16	P-# 132	248' & 3' E. OF SEAM ^{131/132}	PR-348	G.	E.	-	2010	6-# 15	J.K.	P.	-	J.K.	
4-16	P-133/P-134	154' to 0'	PR-349	P ¹³ P ¹⁵	E.	2x5'	2010	6-# 15	J.K.	P.	-	J.K.	
4-16	P-133/134/135	256' to 0'	PR-350	P	E.	1x1'	2010	6-# 15	J.K.	P.	-	J.K.	
4-16	P-134/135/136	255' to 0'	PR-351	P	E.	1x1'	2010	6-# 15	J.K.	P.	-	J.K.	

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Notes: (1) Repair Codes: P = Patch, C = Cap, G = Grind & Weld, DS = Destructive Sample, R = Reconstruction, T = Topping

(2) Repair Types: E = Extrusion, F = Fusion

DESIGNATION - 3-PL = THIRD PROTECTIVE LAYER, Phase 1-A SUMM AREA. J.K.



GEOSYNTEC CONSULTANTS
Boynton Beach, Florida



Trail Ridge Landfill, Inc.

Repair Summary Log

Primary

Sheet No.: 20 of

Project: Trail Ridge Landfill

Project No.: FQ2030

Phase: I & II

Location: Jacksonville, Florida

Contractor: National Seal Company

Year: 1992

Date Repaired (mo/dy)	Seam or Panel No.	Location	Repair				Oper. I.D.	Mach. No.	Q.A. I.D.	Non-Destructive Testing				
			No.	Code (1)	Type (2)	Dim.				Date (mo/dy)	Oper. I.D.	Pass	Fail	Q.A. I.D.
4-16-92	P-134/P-135	EXT. ENTIRE SEAM	PR-352	R.	E.	-	2010	6-#15	J.K.	4-17	2067	P.		J.K.
4-16	P-135/P-136	260' to 0'	PR-353	P.	E.	2x2'	2010	6-#15	J.K.	4-17	2067	P.		J.K.
4-16	P-135/P-136	BETWEEN PR-351 & PR-353	PR-354	R.	E.	-	2010	6-#15	J.K.	4-17	2067	P.		J.K.
4-16	P-135/P-136	280' to 0'	PR-355	P.	E.	1x1'	2010	6-#15	J.K.	4-17	2067	P.		J.K.
4-16	P-# 135	272' to 10' W. OF 5m 135/136	PR-356	G.	E.	-	2010	6-#15	J.K.	4-17	2067	P.		J.K.
4-16	P-134/P-136	13' to 0'	PR-357	9/5 P-66	E.	2x5'	2010	6-#15	J.K.	4-17	2067	P.		J.K.
4-16	P-137/P-138	119' to 0'	PR-358	9/5 P-67	E.	2x5'	2010	6-#15	J.K.	4-17	2067	P.		J.K.
4-16	P-138/139/140	106' to 0'	PR-359	P.	E.	2x2'	2010	6-#15	J.K.	4-17	2067	P.		J.K.
4-16	P-138/P-140	281' to 0'	PR-360	9/5 P-68	E.	2x5'	2010	6-#15	J.K.	4-17	2067	P.		J.K.
4-16	P-139/140/141	106' to 0'	PR-361	P.	E.	2x2'	2010	6-#15	J.K.	4-17	2067	P.		J.K.
4-16	P-141/P-142	81' to 0'	PR-362	9/5 P-69	E.	2x5'	2010	6-#15	J.K.	4-17	2067	P.		J.K.
3-4-16-17	P-142/143/144	263' to 0'	PR-363	P.	E.	2x2'	2036	6-#9	J.K.	4-17	2067	P.		J.K.
3-4-16-17	P-143/144/145	262' to 0'	PR-364	P.	E.	2x2'	2036	6-#9	J.K.	4-17	2067	P.		J.K.
3-4-16-17	P-143/P-144	EXT. ENTIRE SEAM	PR-365	R.	E.	-	2036	6-#9	J.K.	4-17	2067	P.		J.K.
3-4-16-17	P-# 144	264' to 5' W. OF 5m 144/145	PR-366	P.	E.	2x2'	2036	6-#9	J.K.	4-17	2067	P.		J.K.
3-4-16-17	P-143/P-145	185' to 0'	PR-367	P.	E.	2x2'	2036	6-#9	J.K.	4-17	2067	P.		J.K.
3-4-16-17	P-143/P-145	136' to 0'	PR-368	9/5 P-70	E.	2x5'	2036	6-#9	J.K.	4-17	2067	P.		J.K.
3-4-16-17	P-# 143	194' to 2' W. OF 5m 143/145	PR-369	G.	E.	-	2036	6-#9	J.K.	4-17	2067	P.		J.K.
3-4-16-17	P-# 141	6' to 11' W. OF 5m 141/142	PR-370	P.	E.	1x1'	2036	6-#9	J.K.	4-17	2067	P.		J.K.

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Notes: (1) Repair Codes:
(2) Repair Types:

P = Patch C = Cap
E = Extrusion F = Fusion

DS = Destructive Sample

R = Reconstruction

T = Topping

REPAIR LOG



GEOSYNTEC CONSULTANTS
Boynton Beach, Florida



Trail Ridge Landfill, Inc.

Repair Summary Log

Sheet No.: 21 of

Primary

Project: Trail Ridge Landfill

Project No.: FQ2030

Phase: I & II

Location: Jacksonville, Florida

Contractor: National Seal Company

Year: 1992

Date Repaired (mo/dy)	Seam or Panel No.	Location	Repair				Oper. I.D.	Mach. No.	Q.A. I.D.	Non-Destructive Testing			
			No.	Code (1)	Type (2)	Dim.				Date (mo/dy)	Oper. I.D.	Pass	Fail
4-17-92	P-# 141	114.3' W. of 51m 141/142	PR-371	G.	E.	-	2036	G-# 9	J.K.	4-17	2067	P.	J.K.
4-17	P-146/P-147	145' to 148'	PR-372	G.	E.	-	2036	G-# 9	J.K.	4-17	2067	P.	J.K.
4-17	P-146/P-147	199' to 0'	PR-373	P/P-71	E.	2x5'	2036	G-# 9	J.K.	4-17	2067	P.	J.K.
4-17	PA147/148/149	90' to 0'	PR-374	P.	E.	2x2'	2036	G-# 9	J.K.	4-17	2037	P.	J.K.
4-17	P-148/P-149	90' to 6' E. of 51m 147/149	PR-375	P/P-72	E.	2x5'	2036	G-# 9	J.K.	4-17	2037	P.	J.K.
4-17	P-148/P-149	90' to 0' Between PR-374 & PR-375	PR-376	R.	E.	-	2036	G-# 9	J.K.	4-17	2037	P.	J.K.
4-17	PA149/149/150	91' to 0'	PR-377	P.	E.	2x2'	2036	G-# 9	J.K.	4-17	2037	P.	J.K.
4-17	P-149/P-150	147' to 0'	PR-378	P.	E.	3x4'	2036	G-# 9	J.K.	4-17	2037	P.	J.K.
4-17	P-149/P-150	252' to 0'	PR-379	P.	E.	1x4'	2036	G-# 9	J.K.	4-17	2037	P.	J.K.
4-17	P-149/P-150	272' to 0'	PR-380	P.	E.	1x1'	2036	G-# 9	J.K.	4-17	2037	P.	J.K.
4-17	P-149/P-150	Between PR-379 to PR-380	PR-381	R.	E.	-	2036	G-# 9	J.K.	4-17	2037	P.	J.K.
4-17	P-150/P-151	95' to 0'	PR-382	P/P-73	E.	2x5'	2036	G-# 9	J.K.	4-17	2037	P.	J.K.
4-17	PA151/152/153	240' to 0'	PR-383	P.	E.	3x3'	2036	G-# 9	J.K.	4-17	2037	P.	J.K.
4-17	PA153/154/159	381' to 1-A-0'	PR-384	P.	E.	1x2'	2036	G-# 9	J.K.	4-17	2037	P.	J.K.
4-17	PA129/130/154	381' to 1A-0' T.	PR-385	G.	E.	-	2036	G-# 9	J.K.	4-18	2067	P.	J.K.
4-17	PA154/153/130	382' to 1A-0'	PR-386	P.	E.	1x1'	2036	G-# 9	J.K.	4-18	2067	P.	J.K.
4-17	PA130/132/153	382' to 1A-0' T.	PR-387	G.	E.	-	2036	G-# 9	J.K.	4-18	2067	P.	J.K.
4-17	PA153/151/132	383' to 1A-0'	PR-388	P.	E.	1x2'	2036	G-# 9	J.K.	4-18	2067	P.	J.K.
4-17	PA132/133/151	383' to 1A-0' T.	PR-389	G.	E.	-	2036	G-# 9	J.K.	4-18	2067	P.	J.K.

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Notes: (1) Repair Codes:
(2) Repair Types:

P = Patch C = Cap
E = Extrusion F = Fusion

DS = Destructive Sample

G = Grind & Weld

R = Reconstruction

T = Topping

REPAIRS



GEOSYNTEC CONSULTANTS
Boynton Beach, Florida



Trail Ridge Landfill, Inc.

Repair Summary Log

Sheet No.: 22 of

Primary

Project: Trail Ridge Landfill

Project No.: FQ2030

Phase: I & II

Location: Jacksonville, Florida

Contractor: National Seal Company

Year: 1992

Date Repaired (mo/dy)	Seam or Panel No.	Location	Repair				Oper. I.D.	Mach. No.	Q.A. I.D.	Non-Destructive Testing				
			No.	Code (1)	Type (2)	Dim.				Date (mo/dy)	Oper. I.D.	Pass	Fail	Q.A. I.D.
4-17	P#51/50/133	383' to 1A-0'	PR-390	P.	E.	1x2'	2036	G-#9	J.K.	4-18	2067	P.		J.K.
4-17	P#133/134/50	383' to 1A-0' T.	PR-391	G.	E.	-	2036	G-#9	J.K.	4-18	2067	P.		J.K.
4-17	P#59/49/134	384' to 1A-0'	PR-392	P.	E.	1x1	2036	G-#9	J.K.	4-18	2067	P.		J.K.
4-17	P#134/136/49	384' to 1A-0' T.	PR-393	G.	E.	-	2036	G-#9	J.K.	4-18	2067	P.		J.K.
4-17	P#49/47/136	385' to 1A-0'	PR-394	P.	E.	2x2'	2036	G-#9	J.K.	4-18	2037	P.		J.K.
4-17	P#136/137/47	385' to 1A-0' T.	PR-395	G.	E.	-	2036	G-#9	J.K.	4-18	2037	P.		J.K.
4-17	P#47/46/137	385' to 1A-0'	PR-396	P.	E.	1x2'	2036	G-#9	J.K.	4-18	2037	P.		J.K.
4-17	P#137/138/46	385' to 1A-0' T.	PR-397	G.	E.	-	2036	G-#9	J.K.	4-18	2037	P.		J.K.
4-17	P#46/44/138	384' to 1A-0' T.	PR-398	G.	E.	-	2036	G-#9	J.K.	4-18	2037	P.		J.K.
4-17	P#138/139/44	384' to 1A-0' T.	PR-399	G.	E.	-	2036	G-#9	J.K.	4-18	2037	P.		J.K.
4-17	P#44/43/139	385' to 1A-0' T.	PR-400	G.	E.	-	2036	G-#9	J.K.	4-18	2037	P.		J.K.
4-17	P#139/141/43	385' to 1A-0' T.	PR-401	G.	E.	-	2036	G-#9	J.K.	4-18	2037	P.		J.K.
4-17	P#43/42/141	386' to 1A-0' T.	PR-402	G.	E.	-	2036	G-#9	J.K.	4-18	2037	P.		J.K.
4-17	P#141/142/42	386' to 1A-0' T.	PR-403	G.	E.	-	2036	G-#9	J.K.	4-18	2037	P.		J.K.
4-17	P#42/40/142	385' to 1A-0' T.	PR-404	G.	E.	-	2036	G-#9	J.K.	4-18	2037	P.		J.K.
4-17	P#142/143/40	385' to 1A-0' T.	PR-405	G.	E.	-	2036	G-#9	J.K.	4-18	2037	P.		J.K.
4-17	P#40/39/143	385' to 1A-0' T.	PR-406	G.	E.	-	2036	G-#9	J.K.	4-18	2037	P.		J.K.
4-17	P#143/145/39	385' to 1A-0' T.	PR-407	G.	E.	-	2036	G-#9	J.K.	4-18	2037	P.		J.K.
4-17	P#39/38/145	385' to 1A-0' T.	PR-408	G.	E.	-	2036	G-#9	J.K.	4-18	2037	P.		J.K.

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Notes: (1) Repair Codes:
(2) Repair Types:

P = Patch C = Cap
E = Extrusion F = Fusion

DS = Destructive Sample

R = Reconstruction

T = Topping

REPAIRS



GEOSYNTEC CONSULTANTS
Boynton Beach, Florida



Trail Ridge Landfill, Inc.

Repair Summary Log

Summary

Sheet No.: 23 of

Project: Trail Ridge Landfill

Project No.: FQ2030

Phase: I & II

Location: Jacksonville, Florida

Contractor: National Seal Company

Year: 1992

Date Repaired (mo/dy)	Seam or Panel No.	Location	Repair				Oper. I.D.	Mach. No.	Q.A. I.D.	Non-Destructive Testing			
			No.	Code (1)	Type (2)	Dim.				Date (mo/dy)	Oper. I.D.	Pass	Fail
4-17	P#145/146/38	385' to 1A-0' T.	PR-409	G.	E.	-	2036	G-#9	J.K.	4-18	2037	P.	J.K.
4-17	P#38/37/146	385' to 1A-0' T.	PR-410	G.	E.	-	2036	G-#9	J.K.	4-18	2037	P.	J.K.
4-17	P#146/147/37	385' to 1A-0' T.	PR-411	G.	E.	-	2036	G-#9	J.K.	4-18	2037	P.	J.K.
4-17	P-37/P-147	385' to 1A-0' T.	PR-412	P# P-74	E.	2x5'	2036	G-#9	J.K.	4-18	2037	P.	J.K.
4-17	P#37/35/147	384' to 1A-0' T.	PR-413	G.	E.	-	2036	G-#9	J.K.	4-18	2037	P.	J.K.
4-17	P#147/148/35	384' to 1A-0' T.	PR-414	G.	E.	-	2036	G-#9	J.K.	4-18	2037	P.	J.K.
4-17	P-# 35	383' to 1A-0' T.	PR-415	G.	E.	-	2036	G-#9	J.K.	4-18	2037	P.	J.K.
4-17	P#35/34/148	384' to 1A-0' T.	PR-416	G.	E.	-	2036	G-#9	J.K.	4-18	2037	P.	J.K.
4-17	P#148/150/34	384' to 1A-0' T.	PR-417	G.	E.	-	2036	G-#9	J.K.	4-18	2037	P.	J.K.
4-17	P-# 34	383' to 1A-0' T.	PR-418	P.	E.	1x1'	2036	G-#9	J.K.	4-18	2037	P.	J.K.
4-17	P#34/33/150	384' to 1A-0' T.	PR-419	G.	E.	-	2036	G-#9	J.K.	4-18	2037	P.	J.K.
4-17	P#150/151/33	384' to 1A-0' T.	PR-420	G.	E.	-	2036	G-#9	J.K.	4-18	2037	P.	J.K.
4-17	P-# 33	384' to 1A-0' T.	PR-421	C.	E.	1x15'	2036	G-#9	J.K.	4-18	2037	P.	J.K.
4-17	P#151/152/31	384' to 1A-0' T.	PR-422	G.	E.	-	2036	G-#9	J.K.	4-18	2037	P.	J.K.
4-20	P#152/153/154	240' to 0' -	PR-423	P.	E.	1x1'	2027	G-#18	J.K.	4-20	2067	P.	J.K.
4-20	P-152/P-154	215' to 0' -	PR-424	P.	E.	1x1	2027	G-#18	J.K.	4-20	2067	P.	J.K.
4-20	P-152/P-154	145' to 0' -	PR-425	P.	E.	2x5'	2027	G-#18	J.K.	4-20	2067	P.	J.K.
4-20	P-152/P-154	52' to 0' -	PR-426	P# P-75	E.	2x5'	2027	G-#18	J.K.	4-20	2067	P.	J.K.
4-20	P-154/P-155	4' to 0' -	PR-427	P.	E.	2x2	2027	G-#18	J.K.	4-20	2067	P.	J.K.

Notes: (1) Repair Codes: P = Patch C = Cap
(2) Repair Types: E = Extrusion F = Fusion

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* PR-412 IS ALSO LISTED
AS PR-480 (P# P-74)

T = Topping

R = Reconstruction

DS = Destructive Sample

G = Grind & Weld

C = Cap

P = Patch

(1) Repair Codes:

(2) Repair Types:

WAPDALE



GEOSYNTEC CONSULTANTS
Boynton Beach, Florida



Trail Ridge Landfill, Inc.

Repair Summary Log

PRIMARY

Sheet No.: 24 of

Project: Trail Ridge Landfill

Project No.: FQ2030

Phase: I & II

Location: Jacksonville, Florida

Contractor: National Seal Company

Year: 1992

Date Repaired (mo/dy)	Seam or Panel No.	Location	Repair				Oper. I.D.	Mach. No.	Q.A. I.D.	Non-Destructive Testing				
			No.	Code (1)	Type (2)	Dim.				Date (mo/dy)	Oper. I.D.	Pass	Fail	Q.A. I.D.
4-20	P-154/P-155	0' to 4'	PR-428	R.	E.	-	2027	G-#18	J.K.	4-20	2067	P.		J.K.
5-20	P-154/P-155	219' to 0'	Q5 P-26	PR-429	E.	2x5'	2027	G-#18	J.K.	4-20	2067	P.		J.K.
4-20	P-154/P-155	264' to 0'	PR-430	P.	E.	1x1'	2010	G-#9	J.K.	4-20	2067	P.		J.K.
4-20	P-154/P-155/156	281' to 0'	PR-431	P.	E.	1x1	2010	G-#9	J.K.	4-20	2067	P.		J.K.
4-20	P-154/P-155	Between PR-430 & PR-431	PR-432	R.	E.	-	2010	G-#9	J.K.	4-20	2067	P.		J.K.
4-20	P-155/156/157	282' to 0'	PR-433	P.	E.	1x2'	2010	G-#9	J.K.	4-20	2067	P.		J.K.
4-20	P-155/P-157	151' to 0'	PR-434	P.	E.	2x3	2010	G-#9	J.K.	4-20	2067	P.		J.K.
4-20	P-155/P-157	130' to 0'	PR-435	P.	E.	2x2	2027	G-#18	J.K.	4-20	2067	P.		J.K.
4-20	P-157/P-157	1' to 0'	PR-436	P.	E.	1x1'	2027	G-#18	J.K.	4-20	2067	P.		J.K.
4-20	P-157/P-158	137' to 0'	PR-437	Q5 P-77	E.	2x5'	2027	G-#18	J.K.	4-20	2067	P.		J.K.
4-20	P-158/P-159	21' to 0'	PR-438	Q5 P-78	-	2x5'	2027	G-#18	J.K.	4-20	2067	P.		J.K.
4-20	P-159/160/161	126' to 0'	PR-439	P.	E.	1x1	2027	G-#18	J.K.	4-20	2067	P.		J.K.
4-20	P-160/161/162	128' to 0'	PR-440	P.	E.	1x2	2027	G-#18	J.K.	4-20	2067	P.		J.K.
4-20	P-161/P-162	297' to 0	PR-441	Q5 P-79	E.	2x5'	2010	G-#9	J.K.	4-20	2067	P.		J.K.
4-20	P-162/P-163	159' to 0'	PR-442	Q5 P-80	E.	2x5'	2010	G-#9	J.K.	4-20	2067	P.		J.K.
4-20	P-#163	1' to 3' W. of 5th 163/164	PR-443	P.	E.	1x1'	2010	G-#9	J.K.	4-20	2067	P.		J.K.
4-20	P-164/P-166	9' to 0'	PR-444	P.	E.	1x2'	2010	G-#9	J.K.	4-20	2067	P.		J.K.
4-20	P-163/164/165	289' to 0'	PR-445	P.	E.	2x2	2027	G-#18	J.K.	4-20	2067	P.		J.K.
4-20	P-164/P-166	75' to 0'	PR-446	Q5 P-81	E.	2x5'	2027	G-#18	J.K.	4-20	2067	P.		J.K.

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Notes: (1) Repair Codes: P = Patch, C = Cap, E = Extrusion, F = Fusion
(2) Repair Types:

G = Grind & Weld, DS = Destructive Sample, R = Reconstruction, T = Topping

REPAIRS



GEOSYNTEC CONSULTANTS
Boynton Beach, Florida



Trail Ridge Landfill, Inc.

Repair Summary Log

PRIMARY

Sheet No. 25 of

Project: Trail Ridge Landfill

Project No.: FQ2030

Phase: I & II

Location: Jacksonville, Florida

Contractor: National Seal Company

Year: 1992

Date Repaired (mo/dy)	Seam or Panel No.	Location	Repair				Oper. I.D.	Mach. No.	Q.A. I.D.	Non-Destructive Testing			
			No.	Code (1)	Type (2)	Dim.				Date (mo/dy)	Oper. I.D.	Pass Fail	Q.A. I.D.
4-20	P-164/P-165/166	290' to 0'	PR-447	P.	E.	2x2'	2010	G-19	J.K.	4-20	2067	P.	J.K.
4-20	P-165/P-166	307' to 0'	PR-448	P.	E.	2x3'	2010	G-19	J.K.	4-20	2067	P.	J.K.
4-20	P-164/P-167	293' to 0'	PR-449	95 P-82	E.	2x5'	2010	G-19	J.K.	4-20	2067	P.	J.K.
4-20	P-168/P-169	344' to 0' J.K. 105' to 0'	PR-450	95 P-83	E.	2x5'	2010	G-19	J.K.	4-20	2067	P.	J.K.
4-20	P-168/P-169/170	136' to 0'	PR-451	P.	E.	1x1'	2010	G-19	J.K.	4-20	2067	P.	J.K.
4-20	P-169/P-170/171	136' to 0'	PR-452	P.	E.	1x1'	2010	G-19	J.K.	4-20	2067	P.	J.K.
4-20	P-169/P-171	34' to 0'	PR-453	95 P-84	E.	2x5'	2010	G-19	J.K.	4-20	2067	P.	J.K.
4-20	P-169/P-171	59' to 0'	PR-454	P.	E.	2x3'	2010	G-19	J.K.	4-20	2067	P.	J.K.
4-20	P-171/P-172	204' to 0'	PR-455	95 P-85	E.	2x5'	2027	G-18	J.K.	4-20	2067	P.	J.K.
4-20	P-172/P-173/174	298' to 0'	PR-456	P.	E.	2x2'	2027	G-18	J.K.	4-20	2067	P.	J.K.
4-20	P-173/P-174/175	298' to 0'	PR-457	P.	E.	2x2'	2027	G-18	J.K.	4-20	2067	P.	J.K.
4-20	P-173/P-175	127' to 0'	PR-458	95 P-86	E.	2x5'	2010	G-19	J.K.	4-20	2067	P.	J.K.
4-20	P-176/P-177	303' to 0'	PR-459	P.	E.	2x2'	2027	G-18	J.K.	4-20	2067	P.	J.K.
4-20	P-176/P-177	58' to 0'	PR-460	95 P-87	E.	2x5'	2010	G-19	J.K.	4-20	2067	P.	J.K.
4-20	P-177/P-178/179	152' to 0.	PR-461	95 P-87	E.	1x1'	2027	G-18	J.K.	4-20	2067	P.	J.K.
4-20	P-177/P-179	223' to 0'	PR-462	95 P-88	E.	2x5'	2027	G-18	J.K.	4-20	2067	P.	J.K.
4-20	P-178/P-179/180	152' to 0'	PR-463	P.	E.	1x1'	2027	G-18	J.K.	4-20	2067	P.	J.K.
4-20	P-180/P-181	139' to 0'	PR-464	95 P-88	E.	2x5'	2027	G-18	J.K.	4-20	2067	P.	J.K.
4-20	P-181/P-182	105' to 0'	PR-465	G.	E.	-	2027	G-18	J.K.	4-20	2067	P.	J.K.

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Notes: (1) Repair Codes: P = Patch C = Cap
(2) Repair Types: E = Extrusion F = Fusion

DS = Destructive Sample

R = Reconstruction

REPAIR LOG



GEOSYNTEC CONSULTANTS
Boynton Beach, Florida



Trail Ridge Landfill, Inc.

Repair Summary Log

Primary

Sheet No.: 26 of

Project: Trail Ridge Landfill

Project No.: FQ2030

Phase: I & II

Location: Jacksonville, Florida

Contractor: National Seal Company

Year: 1992

Date Repaired (mo/dy)	Seam or Panel No.	Location	Repair			Oper. I.D.	Mach. No.	Q.A. I.D.	Non-Destructive Testing			
			No.	Code (1)	Type (2)				Dim.	Date (mo/dy)	Oper. I.D.	Pass Fail
4-20	P-181/P-182	131' to 0'	PR-466	P.	E.	1x1'	G-49	J.K.	4-20	2067	P.	J.K.
4-20	P-181/P-182	140' to 0'	PR-467	P.	E.	1x1'	G-49	J.K.	4-20	2067	P.	J.K.
4-20	P-181/P-182	Between PR-466 & PR-467	PR-468	R.	E.	-	G-49	J.K.	4-20	2067	P.	J.K.
4-20	P-182/P-183	141' to 0'	PR-469	P.	E.	1x2'	G-49	J.K.	4-20	2067	P.	J.K.
4-20	P-182/P-183	133' to 0'	PR-470	P.	E.	1x2'	G-49	J.K.	4-20	2067	P.	J.K.
4-20	P-182/P-183	Between PR-469 & PR-470	PR-471	R.	E.	-	G-49	J.K.	4-20	2067	P.	J.K.
4-20	P-182/P-183	83' to 0'	PR-472	P.	E.	2x2'	G-49	J.K.	4-20	2037	P.	J.K.
4-20	P-4 182	81' to 1' w.o.f 3m 182/183	PR-473	G.	E.	-	G-49	J.K.	4-20	2037	P.	J.K.
4-20	P-182/P-183	33' to 0'	PR-474	P.	E.	2x5'	G-49	J.K.	4-20	2037	P.	J.K.
4-20	P-4 182	4' to 3' w.o.f 3m 182/183	PR-475	G.	E.	-	G-49	J.K.	4-20	2037	P.	J.K.
4-20	P-183/P-184	14' to 0'	PR-476	P.	E.	1x2	G-49	J.K.	4-20	2037	P.	J.K.
4-20	P-4 183	142' to 6' w.o.f 3m 183/184	PR-477	P.	E.	1x1'	G-49	J.K.	4-20	2037	P.	J.K.
4-20	P-183/P-184	181' to 0'	PR-478	P.	E.	2x5'	G-49	J.K.	4-20	2037	P.	J.K.
4-20	P-183/P-184	269' to 0'	PR-479	G.	E.	-	G-49	J.K.	4-20	2037	P.	J.K.
4-20	P-37/P-147	5' E.o.f 3m 146/147	PR-480	P.	E.	2x5	G-49	J.K.	4-20	2037	P.	J.K.
4-20	P-145/146/139	385' to 1A-0' T.	PR-481	G.	E.	-	G-49	J.K.	4-20	2037	P.	J.K.
4-20	P-147/146/137	385' to 1A-0' T.	PR-482	G.	E.	-	G-49	J.K.	4-20	2037	P.	J.K.
4-20	P-37/35/147	385' to 1A-0' T.	PR-483	G.	E.	-	G-49	J.K.	4-20	2037	P.	J.K.
4-20	P-4 35	384' to 1A-0' 31E.o.f 3m 37/35	PR-484	G.	E.	-	G-49	J.K.	4-20	2037	P.	J.K.

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Notes: (1) Repair Codes: P = Patch, G = Cap, E = Extrusion, F = Fusion
(2) Repair Types: DS = Destructive Sample, R = Reconstruction

G = Grind & Weld

DS = Destructive Sample

R = Reconstruction

REMARKS



GEOSYNTEC CONSULTANTS
Boynton Beach, Florida



Trail Ridge Landfill, Inc.

Repair Summary Log

PRIMA

Sheet No. 27 of

Project: Trail Ridge Landfill

Project No.: FQ2030

Phase: I & II

Location: Jacksonville, Florida

Contractor: National Seal Company

Year: 1992

Date Repaired (mo/dy)	Seam or Panel No.	Location	Repair			Oper. I.D.	Mach. No.	Q.A. I.D.	Non-Destructive Testing				
			No.	Code (1)	Type (2)				Dim.	Date (mo/dy)	Oper. I.D.	Pass Fail	Q.A. I.D.
4-20	P-34/35/148	385' to 1A-0' T.	PR-485	G.	E.	-	2010	G-19	J.K.	4-20	2037	P.	J.K.
4-20	P-148/150/34	385' to 1A-0' T.	PR-486	G.	E.	-	2010	G-19	J.K.	4-20	2037	P.	J.K.
4-20	P-34	383.5' to 384.5' E. of 34/35 ADD ON SEAM TO 5' END	PR-487	P.	E.	1x1'	2010	G-19	J.K.	4-20	2037	P.	J.K.
4-20	P-33	PANEL WIDTH	PR-488	P.	E.	1x5'	2010	G-19	J.K.	4-20	2037	P.	J.K.
4-20	P-159/151/51	384' to 0' T.	PR-489	G.	E.	-	2010	G-19	J.K.	4-20	2037	P.	J.K.
4-20	P-151/152/31	384' to 1A-0' T.	PR-490	G.	E.	-	2010	G-19	J.K.	4-20	2037	P.	J.K.
4-20	P-30/31/152/154	385' to 1A-0'	PR-491	P.	E.	4x4'	2010	G-19	J.K.	4-20	2037	P.	J.K.
4-20	P-28/30/154	384' to 1A-0'	PR-492	P.	E.	2x2'	2027	G-18	J.K.	4-20	2037	P.	J.K.
4-20	P-155/157	1' to 1B-0'	PR-493	P.	E.	2x2'	2027	G-18	J.K.	4-20	2037	P.	J.K.
4-20	P-155/157/28	385' to 1A-0' T.	PR-494	G.	E.	-	2027	G-18	J.K.	4-20	2037	P.	J.K.
4-20	P-26/28/157	385' to 1A-0' T.	PR-495	G.	E.	-	2027	G-18	J.K.	4-20	2037	P.	J.K.
4-20	P-157/158/26	385' to 1A-0' T.	PR-496	G.	E.	-	2027	G-18	J.K.	4-20	2037	P.	J.K.
4-20	P-25/26/158	384' to 1A-0' T.	PR-497	P.	E.	2x2'	2027	G-18	J.K.	4-20	2037	P.	J.K.
4-20	P-158/159/25	384' to 1A-0' T.	PR-498	G.	E.	-	2027	G-18	J.K.	4-20	2037	P.	J.K.
4-20	P-25/24/159	384' to 1A-0' T.	PR-499	G.	E.	-	2027	G-18	J.K.	4-20	2037	P.	J.K.
4-20	P-159/160/24	384' to 1A-0' T.	PR-500	G.	E.	-	2027	G-18	J.K.	4-20	2037	P.	J.K.
4-20	P-23/24/160	384' to 1A-0' T.	PR-501	G.	E.	-	2027	G-18	J.K.	4-20	2037	P.	J.K.
4-20	P-160/162/23	384' to 1A-0' T.	PR-502	G.	E.	-	2027	G-18	J.K.	4-20	2037	P.	J.K.
4-20	P-23/21/162	384' to 1A-0' T.	PR-503	G.	E.	-	2027	G-18	J.K.	4-20	2037	P.	J.K.

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Notes: (1) Repair Codes: P = Patch C = Cap
(2) Repair Types: E = Extrusion F = Fusion

DS = Destructive Sample

R = Reconstruction



GEOSYNTEC CONSULTANTS
Boynton Beach, Florida



Trail Ridge Landfill, Inc.

Repair Summary Log

Primary

Sheet No.: 28 of

Project: Trail Ridge Landfill

Project No.: F02030

Phase: I & II

Location: Jacksonville, Florida

Contractor: National Seal Company

Year: 1992

Date Repaired (mo/dy)	Seam or Panel No.	Location	Repair				Oper. I.D.	Mach. No.	Q.A. I.D.	Non-Destructive Testing				
			No.	Code (1)	Type (2)	Dim.				Date (mo/dy)	Oper. I.D.	Pass	Fail	Q.A. I.D.
4-20	P-165/163/21	384' to 1A-0' - T.	PR-504	G.	E.	-	2027	G-18	J.K.	4-20	2037	P		J.K.
4-20	P-21/20/163	385' to 1A-0' - T.	PR-505	G.	E.	-	2027	G-18	J.K.	4-20	2037	P		J.K.
4-20	P-163/164/20	385' to 1A-0' -	PR-506	P.	E	2x3'	2027	G-18	J.K.	4-20	2037	P		J.K.
4-20	P-20/56/164	385' to 1A-0' - T.	PR-507	G.	E.	-	2010	G-19	J.K.	4-20	2037	P		J.K.
4-20	P-164/166/56	385' to 1A-0' - T.	PR-508	G.	E.	-	2010	G-19	J.K.	4-20	2037	P		J.K.
4-20	P-54/58/166	385' to 1A-0' - T.	PR-509	G.	E.	-	2010	G-19	J.K.	4-20	2037	P		J.K.
4-20	P-166/167/58	385' to 1A-0' - T.	PR-510	G.	E.	-	2010	G-19	J.K.	4-20	2037	P		J.K.
4-20	P-58/59/167	385' to 1A-0' - T.	PR-511	G.	E.	-	2010	G-19	J.K.	4-20	2067	P	-	J.K.
4-20	P-167/168/59	385' to 1A-0' - T.	PR-512	G.	E.	-	2010	G-19	J.K.	4-20	2067	P		J.K.
4-20	P-59/60/168	385' to 1A-0' - T.	PR-513	G.	E.	-	2010	G-19	J.K.	4-20	2067	P		J.K.
4-20	P-168/169/60	385' to 1A-0' - T.	PR-514	G.	E.	-	2010	G-19	J.K.	4-20	2067	P		J.K.
4-20	P-60/169	385' to 1A-0' - T.	PR-514	G.	E.	-	2010	G-19	J.K.	4-20	2067	P		J.K.
4-20	P-69/62/169	385' to 1A-0' - T.	PR-514	G.	E.	-	2010	G-19	J.K.	4-20	2067	P		J.K.
4-20	P-69/62/169	385' to 1A-0' - T.	PR-514	G.	E.	-	2010	G-19	J.K.	4-20	2067	P		J.K.
4-20	P-69/171/62	385' to 1A-0' - T.	PR-517	J.K. P.	E.	2x2'	2010	G-19	J.K.	4-20	2067	P		J.K.
4-20	P-62/63/171	384' to 1A-0' - T.	PR-518	G.	E.	-	2010	G-19	J.K.	4-20	2067	P		J.K.
4-20	P-171/172/63	384' to 1A-0' - T.	PR-519	G.	E.	-	2010	G-19	J.K.	4-20	2067	P		J.K.
4-20	P-63/64/172	383' to 1A-0' - T.	PR-520	G.	E.	-	2010	G-19	J.K.	4-20	2067	P		J.K.
4-20	P-172/173/64	383' to 1A-0' - T.	PR-521	G.	E.	-	2010	G-19	J.K.	4-20	2067	P		J.K.
4-20	P-64/66/173	383' to 1A-0' - T.	PR-522	G.	E.	-	2010	G-19	J.K.	4-20	2067	P		J.K.

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Notes: (1) Repair Codes: P = Patch C = Cap
(2) Repair Types: E = Extrusion F = Fusion

G = Grind & Weld DS = Destructive Sample R = Reconstruction

REPAIR LOG



GEOSYNTEC CONSULTANTS
Boynton Beach, Florida



Trail Ridge Landfill, Inc.

Repair Summary Log

Sheet No.: 29 of

Project: Trail Ridge Landfill

Project No.: FQ2030

Phase: I & II

Location: Jacksonville, Florida

Contractor: National Seal Company

Year: 1992

Date Repaired (mo/dy)	Seam or Panel No.	Location	Repair				Oper. I.D.	Mach. No.	Q.A. I.D.	Non-Destructive Testing				
			No.	Code (1)	Type (2)	Dim.				Date (mo/dy)	Oper. I.D.	Pass	Fail	Q.A. I.D.
4-20	P-173/175/166	383' to 1A-0'	PR-523	P.	E.	2x3	2010	G-19	J.K.	4-20	2067	P	-	J.K.
4-20	P-166/171/175	385' to 1A-0' - T.	PR-524	G.	E.	-	2010	G-19	J.K.	4-20	2067	P		J.K.
4-20	P-173/176/167	386' to 1A-0' - T.	PR-525	G.	E.	-	2010	G-19	J.K.	4-20	2067	P		J.K.
4-20	P-176/179/176	386' to 1A-0' - T.	PR-526	G.	E.	-	2010	G-19	J.K.	4-20	2067	P		J.K.
4-20	P-178/177/169	386' to 1A-0' - T.	PR-527	G.	E.	-	2010	G-19	J.K.	4-20	2067	P		J.K.
4-20	P-169/170/177	386' to 1A-0' - T.	PR-528	G.	E.	-	2010	G-19	J.K.	4-20	2067	P		J.K.
4-20	P-177/178/170	386' to 1A-0' - T.	PR-529	G.	E.	-	2010	G-19	J.K.	4-20	2067	P		J.K.
4-20	P-170/171/178	386' to 1A-0' T.	PR-530	G.	E.	-	2010	G-19	J.K.	4-20	2067	P		J.K.
4-20	P-170/180/171	386' to 1A-0' - T.	PR-531	G.	E.	-	2010	G-19	J.K.	4-20	2067	P		J.K.
4-20	P-171/173/180	386' to 1A-0' - T.	PR-532	G.	E.	-	2010	G-19	J.K.	4-20	2067	P		J.K.
4-20	P-180/181/173	386' to 1A-0' -	PR-533	P.	E.	2x8'	2010	G-19	J.K.	4-20	2067	P		J.K.
4-20	P-173/174/181	385' to 1A-0' T.	PR-534	G.	E.	-	2027	G-18	J.K.	4-20	2067	P		J.K.
4-20	P-181/182/174	385' to 1A-0' - T.	PR-535	G.	E.	-	2027	G-18	J.K.	4-20	2067	P		J.K.
4-20	P-174/175/182	385' to 1A-0' - T.	PR-536	G.	E.	-	2027	G-18	J.K.	4-20	2067	P		J.K.
4-20	P-175/176/183	387' to 1A-0' - T.	PR-537	G.	E.	-	2027	G-18	J.K.	4-20	2067	P		J.K.
4-20	P-183/184/176	387' to 1A-0' T.	PR-538	G.	E.	-	2027	G-18	J.K.	4-20	2067	P		J.K.
4-20	P-176/177/184	388' to 1A-0' - T.	PR-539	G.	E.	-	2027	G-18	J.K.	4-20	2067	P	-	J.K.
4-20	P-63/P-172	Phase 1A to 18 T/E IN S.W. OF RM 63/164	PR-540	QSP-92	E.	2x5'	2010	G-19	J.K.	4-20	2067	P	-	J.K.
4-20	P-185/P-186	161' to 0'	PR-541	QSP-93	E.	2x5'	2010	G-19	J.K.	4-22	2067	P		J.K.



GEOSYNTEC CONSULTANTS
Boynton Beach, Florida



Trail Ridge Landfill, Inc.

Repair Summary Log

Primary

Sheet No.: 30 of

Project: Trail Ridge Landfill

Project No.: FQ2030

Phase: I & II

Location: Jacksonville, Florida

Contractor: National Seal Company

Year: 1992

Date Repaired (mo/dy)	Seam or Panel No.	Location	Repair				Oper. I.D.	Mach. No.	Q.A. I.D.	Non-Destructive Testing			
			No.	Code (1)	Type (2)	Dim.				Date (mo/dy)	Oper. I.D.	Pass Fail	Q.A. I.D.
4-21	P-185/P-186	141' to 0'	PR-542	P.	E.	2x2'	2010	G-#15	J.K.	4-21	2060	P.	J.K.
4-21	P-186/P-187	82' to 0'	PR-543	P/S P-94	E.	2x5'	2010	G-#15	J.K.	4-21	2060	P.	J.K.
4-21	P-188/P-189	164' to 0'	PR-544	P.	E.	1x1'	2010	G-#15	J.K.	4-21	2060	P.	J.K.
4-21	P-188/P-189	150' to 0'	PR-545	P/S P-95	E.	2x5'	2010	G-#15	J.K.	4-21	2060	P.	J.K.
4-21	P-189/P-190	164' to 0'	PR-546	P.	E.	1x1'	2010	G-#15	J.K.	4-21	2060	P.	J.K.
4-21	P-189/P-191	140' to 0'	PR-547	P.	E.	2x4'	2010	G-#15	J.K.	4-21	2060	P.	J.K.
4-21	P-# 189	139' to 6' w.o.F sim 189/191	PR-548	P.	E.	1x1'	2010	G-#15	J.K.	4-21	2060	P.	J.K.
4-21	P-# 189	Between PR-547 & PR-548	PR-549	G.	E.	-	2010	G-#15	J.K.	4-21	2060	P.	J.K.
4-21	P-185/186/79	388' to 1A-0'	PR-550	P.	E.	2x2'	2010	G-#15	J.K.	4-21	2060	P.	J.K.
4-21	P-79/80/186	387' to 1A-0'	PR-551	P.	E.	2x2'	2010	G-#15	J.K.	4-21	2060	P.	J.K.
4-21	P-80/81/187	388' to 1A-0'	PR-552	P.	E.	2x4'	2010	G-#15	J.K.	4-21	2060	P.	J.K.
4-21	P-186/187/80	387' to 1A-0' T.	PR-553	G.	E.	-	2010	G-#15	J.K.	4-21	2060	P.	J.K.
4-21	P-187/188/81	388' to 1A-0' T.	PR-554	G.	E.	-	2010	G-#15	J.K.	4-21	2060	P.	J.K.
4-21	P-81/83/188	390' to 1A-0' T.	PR-555	G.	E.	-	2010	G-#15	J.K.	4-21	2060	P.	J.K.
4-21	P-188/189/83	390' to 1A-0' T.	PR-556	G.	E.	-	2010	G-#15	J.K.	4-21	2060	P.	J.K.
4-21	Phases 1A to 1B Tie in	From sim 189/91 to sim 193/194	PR-557	C	E.	2x48'	2010	G-#15	J.K.	4-21	2060	P.	J.K.
4-21	P-192/P-193	206' to 0'	PR-558	P/S P-97	E.	2x5'	2010	G-#15	J.K.	4-21	2060	P.	J.K.
4-21	P-190/P-191	280' to 0'	PR-559	P/S P-96	E.	2x5'	2010	G-#15	J.K.	4-21	2060	P.	J.K.
4-21	P-193/P-194	16' to 0'	PR-560	P/S P-98	E.	2x5'	2010	G-#15	J.K.	4-21	2060	P.	J.K.

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Notes: (1) Repair Codes: P = Patch C = Cap
(2) Repair Types: E = Extrusion F = Fusion

G = Grind & Weld DS = Destructive Sample

R = Reconstruction

REPAIRS



GEOSYNTEC CONSULTANTS
Boynton Beach, Florida



Trail Ridge Landfill, Inc.

Repair Summary Log

Sheet No.: 31 of

Primary

Project: Trail Ridge Landfill

Project No.: FQ2030

Phase: I & II

Location: Jacksonville, Florida

Contractor: National Seal Company

Year: 1992

Date Repaired (mo/dy)	Seam or Panel No.	Location	Repair			Oper. I.D.	Mach. No.	Q.A. I.D.	Non-Destructive Testing				
			No.	Code (1)	Type (2)				Dim.	Date (mo/dy)	Oper. I.D.	Pass Fail	Q.A. I.D.
4-21	P-193/P-194	1' to 0'	PR-561	P.	E.	1X1'	2010	G-#15	4-21	2060	P	-	J.K.
4-21	P-# 194	4' 8' w. of 5th 194/195	PR-562	P.	E.	1X2'	2010	G-#15	4-21	2060	P.		J.K.
4-21	P-# 194	BETWEEN PR-562 & 5th 194/195	PR-563	G.	E.	-	2010	G-#15	4-21	2060	P.		J.K.
4-21	P-194/P-195	136' to 0'	PR-564	95-P199	E.	2X5'	2010	G-#15	4-21	2060	P.		J.K.
4-21	P-# 194	270' to 1' w. of 5th 194/195	PR-565	G.	E.	-	2010	G-#15	4-21	2060	P.		J.K.
4-21	P-196/P-197	182' to 0'	PR-566	P.	E.	1X1'	2010	G-#15	4-21	2060	P.		J.K.
4-21	P-197/P-198	88' to 0'	PR-567	95-P100	E.	2X5'	2010	G-#15	4-21	2060	P.		J.K.
4-21	P-197/P-199	139' to 0'	PR-568	P.	E.	2X4'	2010	G-#15	4-21	2060	P.		J.K.
4-21	P-199/P-200	182' to 0'	PR-569	P.	E.	1X1'	2010	G-#15	4-21	2060	P.		J.K.
4-21	P-199/P-200	120' to 0'	PR-570	G.	E.	-	2010	G-#15	4-21	2060	P.		J.K.
4-21	P-199/P-200	112' to 0'	PR-571	G.	E.	-	2010	G-#15	4-21	2060	P.		J.K.
4-21	P-199/P-200	15' to 0'	PR-572	95-P101	E.	2X5'	2010	G-#15	4-21	2060	P.		J.K.
4-21	P-200/P-201	102' to 0'	PR-573	G.	E.	-	2010	G-#15	4-21	2060	P.		J.K.
4-21	P-200/P-201	245' to 0'	PR-574	95-P102	E.	2X5'	2010	G-#15	4-21	2060	P.		J.K.
4-21	P-200/P-203	177' to 0'	PR-575	P.	E.	1X1'	2010	G-#15	4-21	2060	P.		J.K.
4-22	P-203/P-204	177' to 0'	PR-576	P.	E.	1X1'	2037	G-#15	4-22	2068	P.		J.K.
4-22	P-203/P-203	EXT. ENTIRE SCAM.	PR-577	R.	E.	-	2037	G-#15	4-22	2068	P.		J.K.
4-22	P-204/P-204	76' to 0'	PR-578	95-P103	E.	2X5'	2037	G-#15	4-22	2068	P.		J.K.
4-22	P-205/P-206	214' to 0'	PR-579	95-P104	E.	2X5'	2037	G-#15	4-22	2068	P.		J.K.

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Notes: (1) Repair Codes:
(2) Repair Types:

P = Patch C = Cap
E = Extrusion F = Fusion

G = Grind & Weld

DS = Destructive Sample

R = Reconstruction



GEOSYNTEC CONSULTANTS
Boynton Beach, Florida



Trail Ridge Landfill, Inc.

Repair Summary Log

Sheet No.: 32 of 32

Primary

Project: Trail Ridge Landfill

Project No.: FQ2030

Phase: I & II

Location: Jacksonville, Florida

Contractor: National Seal Company

Year: 1992

Date Repaired (mo/dy)	Seam or Panel No.	Location	Repair			Oper. I.D.	Mach. No.	Q.A. I.D.	Non-Destructive Testing					
			No.	Code (1)	Type (2)				Dim.	Date (mo/dy)	Oper. I.D.	Pass	Fail	Q.A. I.D.
4-22	P-204/P-208	97' to 0'	PR-580	Q-5-P105	E.	2X5'	2037	G-#15	J.K.	4-22	2068	P.		J.K.
4-22	P-204/P-208	30' to 0'	PR-581	P.	E.	1X1'	2037	G-#15	J.K.	4-22	2068	P.		J.K.
4-22	P-207/P-209	29' to 0'	PR-582	P.	E.	1X1'	2037	G-#15	J.K.	4-22	2068	P.		J.K.
4-22	P-207/P-208	29.5' to 0' EXT FULL SCAM	PR-583	R.	E.	-	2037	G-#15	J.K.	4-22	2068	P.		J.K.
4-22	P-# 209	142' to 1' W OF 5th 209/210	PR-584	G.	E.	-	2037	G-#15	J.K.	4-22	2068	P.		J.K.
4-22	P-209/P-210	106' to 0'	PR-585	Q-5-P106	E.	2X5'	2037	G-#15	J.K.	4-22	2068	P.		J.K.
4-22	P-210/P-212	209' to 0'	PR-586	P.	E.	1X2'	2037	G-#15	J.K.	4-22	2068	P.		J.K.
4-22	P-211/P-212	5' W OF 5th 212/213	PR-587	Q-5-P107	E.	2X5'	2037	G-#15	J.K.	4-22	2068	P.		J.K.
4-22	P-211/P-213	208' to 0'	PR-588	P.	E.	1X1'	2037	G-#15	J.K.	4-22	2068	P.		J.K.
4-22	P-211/P-213	141' to 0'	PR-589	P.	E.	1X1'	2037	G-#15	J.K.	4-22	2068	P.		J.K.
4-22	P-211/P-213	131' to 0'	PR-590	P.	E.	3X3'	2037	G-#15	J.K.	4-22	2068	P.		J.K.
4-22	P-211/P-213	BETWEEN PR-589 & PR-590	PR-591	R.	E.	-	2037	G-#15	J.K.	4-22	2068	P.		J.K.
4-23	P-213/P-214	130' to 0'	PR-592	Q-5-P108	E.	2X5'	2010	G-#15	J.K.	2067 1/2	2067	P.		J.K.
4-23	P-214/P-215	6' to 0'	PR-593	P.	E.	1X1'	2010	G-#15	J.K.	4-23	2067	P.		J.K.
4-23	P-214/P-215	FROM PR-593 N. to 191/18 tie IN	PR-594	R.	E.	-	2010	G-#15	J.K.	4-23	2067	P.		J.K.
4-23	P-215/P-217	211' to 0'	PR-595	Q-5-P109	E.	-	2010	G-#15	J.K.	4-23	2067	P.		J.K.
4-23	P-215/P-217	112' to 0'	PR-596	G.	E.	-	2010	G-#15	J.K.	4-23	2067	P.		J.K.
4-23	P-215/P-217	74' to 0'	PR-597	P.	E.	2X2'	2010	G-#15	J.K.	4-23	2067	P.		J.K.
4-23	P-215/P-216	71' to 0'	PR-598	G.	E.	-	2010	G-#15	J.K.	4-23	2067	P.		J.K.

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Notes: (1) Repair Codes:
(2) Repair Types:

P = Patch C = Cap
E = Extrusion F = Fusion

G = Grind & Weld

DS = Destructive Sample

R = Reconstruction

REPAIRS



GEOSYNTEC CONSULTANTS
Boynton Beach, Florida



Trail Ridge Landfill, Inc.

Repair Summary Log

PRIMARY

Sheet No.: 33 of

Project: Trail Ridge Landfill

Project No.: FQ2030

Phase: I & II

Location: Jacksonville, Florida

Contractor: National Seal Company

Year: 1992

Date Repaired (mo/dy)	Seam or Panel No.	Location	Repair				Oper. I.D.	Mach. No.	Q.A. I.D.	Non-Destructive Testing				
			No.	Code (1)	Type (2)	Dim.				Date (mo/dy)	Oper. I.D.	Pass	Fail	Q.A. I.D.
4-23	P-216/P-218	18' to 0'	PR-599	Q-5-P110	E.	2x5'	2010	6-#15	J-K.	4-23	2067	P.		J-K.
4-23	P-216/P-218	76' to 0'	PR-600	P.	E.	2x4'	2010	6-#15	J-K.	4-23	2067	P.		J-K.
4-23	P-218/P-219	257' to 0'	PR-601	Q-5-P111	E.	2x5'	2010	6-#15	J-K.	4-23	2067	P.		J-K.
4-23	P-218/P-219	110' to 0'	PR-602	G.	E.	-	2010	6-#15	J-K.	4-23	2067	P.		J-K.
4-23	P-219/P-220	242' to 0'	PR-603	P.	E.	2x2'	2010	6-#15	J-K.	4-23	2067	P.		J-K.
4-23	P-220/P-221	242' to 0'	PR-604	P.	E.	1x2'	2010	6-#15	J-K.	4-23	2067	P.		J-K.
4-23	P-220/P-221	EXT FULL SEAM	PR-605	R.	E.	-	2010	6-#15	J-K.	4-23	2067	P.		J-K.
4-25	P-216/P-218	391' to 0'	PR-606	G.	E.	-	2036	6-#15	J-K.	4-25	2060	P.		J-K.
4-25	P-216/P-218	390' to 0'	PR-607	C.	E.	2x11'	2036	6-#15	J-K.	4-25	2060	P.		J-K.
4-25	P-215/P-196	389' to 0'	PR-608	P.	E.	1x1	2036	6-#15	J-K.	4-25	2060	P.		J-K.
4-25	P-215/P-196	389' to 0'	PR-609	G.	E.	-	2036	6-#15	J-K.	4-25	2060	P.		J-K.
4-25	P-216/P-218	390' to 0'	PR-610	G.	E.	-	2036	6-#15	J-K.	4-25	2060	P.		J-K.
4-25	P-216/P-218	390' to 0'	PR-611	G.	E.	-	2036	6-#15	J-K.	4-25	2060	P.		J-K.
4-25	P-217/P-197	390' to 0'	PR-612	G.	E.	-	2036	6-#15	J-K.	4-25	2060	P.		J-K.
4-25	P-217/P-197	390' to 0'	PR-613	G.	E.	-	2036	6-#15	J-K.	4-25	2060	P.		J-K.
4-25	P-213/P-194	390' to 0'	PR-614	P.	E.	2x4'	2036	6-#15	J-K.	4-25	2060	P.		J-K.
4-25	P-219/P-200	389' to 0'	PR-615	G.	E.	-	2036	6-#15	J-K.	4-25	2060	P.		J-K.
4-25	Phase 1A to 1B	From 91m 2495 to 91m 201/202	PR-616	C.	E.	2x16'	2036	6-#15	J-K.	4-25	2060	P.		J-K.
4-25	P-217/P-198	386' to 0' 1A T.	PR-617	G.	E.	-	2036	6-#15	J-K.	4-25	2060	P.		J-K.

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Notes: (1) Repair Codes: P = Patch C = Cap
(2) Repair Types: E = Extrusion F = Fusion

G = Grind & Weld DS = Destructive Sample

R = Reconstruction

REVISIONS



GEOSYNTEC CONSULTANTS
Boynton Beach, Florida



Trail Ridge Landfill, Inc.

Repair Summary Log

Primary

Sheet No.: 34 of

Project: Trail Ridge Landfill

Project No.: FQ2030

Phase: I & II

Location: Jacksonville, Florida

Contractor: National Seal Company

Year: 1992

Date Repaired (mo/dy)	Seam or Panel No.	Location	Repair				Oper. I.D.	Mach. No.	Q.A. I.D.	Non-Destructive Testing				
			No.	Code (1)	Type (2)	Dim.				Date (mo/dy)	Oper. I.D.	Pass	Fail	Q.A. I.D.
4-25	P#2004/204/198	386' to 0' 1-A T.	PR-618	G.	E.	-	2036	G-#15	J.K.	4-25	2060	P.		J.K.
4-25	P#98/99/204	387' to 0' 1A T.	PR-619	G.	E.	-	2036	G-#15	J.K.	4-25	2060	P.		J.K.
4-25	P#204/205/99	387' to 0' 1A T.	PR-620	G.	E.	-	2036	G-#15	J.K.	4-25	2060	P.		J.K.
4-25	P#99/101/205	384' to 0' 1A J.K.	PR-621	P.	E	2x3'	2036	G-#15	J.K.	4-25	2060	P.		J.K.
4-25	P#207/208/101	384' to 0' 1A T.	PR-622	G.	E.	-	2067	G-#9	J.K.	4-25	2060	P.		J.K.
4-25	P#101/103/206	385' to 0' 1A.	PR-623	P.	E.	2x4'	2067	G-#9	J.K.	4-25	2060	P.		J.K.
4-25	P#206/208/102	385' to 0' 1A.	PR-624	P.	E.	1x1'	2067	G-#9	J.K.	4-25	2060	P.		J.K.
4-25	P#103/104/207	381' to 0' 1A T.	PR-625	G.	E.	-	2067	G-#9	J.K.	4-25	2060	P.		J.K.
4-25	P#207/209/104	381' to 0' 1A T.	PR-626	G.	E.	-	2067	G-#9	J.K.	4-25	2060	P.		J.K.
4-25	P#104/105/209	381' to 0' 1A.	PR-627	P.	E.	2x2	2067	G-#9	J.K.	4-25	2060	P.		J.K.
4-25	P#209/210/105	381' to 0' 1A T.	PR-628	G.	E.	-	2067	G-#9	J.K.	4-25	2060	P.		J.K.
4-25	P#105/106/210	378' to 0' 1A T.	PR-629	G.	E.	-	2067	G-#9	J.K.	4-25	2060	P.		J.K.
4-25	P#210/211/106	378' to 0' 1A T.	PR-630	G.	E.	-	2067	G-#9	J.K.	4-25	2060	P.		J.K.
4-25	P#106/108/211	375' to 0' 1A T.	PR-631	G.	E.	-	2067	G-#9	J.K.	4-25	2060	P.		J.K.
4-25	P#211/213/108	375' to 0' 1A T.	PR-632	G.	E.	-	2067	G-#9	J.K.	4-25	2060	P.		J.K.
4-25	P#108/109/213	372' to 0' 1A T.	PR-633	P.	E.	2x2'	2067	G-#9	J.K.	4-25	2060	P.		J.K.
4-25	P#213/214/109	372' to 0' 1A T.	PR-634	G.	E.	-	2067	G-#9	J.K.	4-25	2060	P.		J.K.
4-25	P#109/110/214	348' to 0' 1A T.	PR-635	G.	E.	-	2067	G-#9	J.K.	4-25	2060	P.		J.K.
4-25	P#214/215/110	121' to Sump-1A T.	PR-636	G.	E.	-	2067	G-#9	J.K.	4-25	2060	P.		J.K.



GEOSYNTEC CONSULTANTS
Boynton Beach, Florida



Trail Ridge Landfill, Inc.

Repair Summary Log

PRIMARY

Sheet No. 35 of

Project: Trail Ridge Landfill

Project No.: FQ2030

Phase: I & II

Location: Jacksonville, Florida

Contractor: National Seal Company

Year: 1992

Date Repaired (mo/dy)	Seam or Panel No.	Location	Repair				Oper. I.D.	Mach. No.	Q.A. I.D.	Non-Destructive Testing		
			No.	Code (1)	Type (2)	Dim.				Date (mo/dy)	Oper. I.D.	Pass Fail
4-25	P#18/111/215	12' to Sump 1A T.	PR-637	G.	E.	-	2067	G#9	J.K.	2060	P.	J.K.
4-25	P#23/216/111	INTERSECTION OF T.	PR-638	G.	E.	-	2067	G#9	J.K.	2060	P.	J.K.
4-25	P#11/112/216	" " T.	PR-639	G.	E.	-	2067	G#9	J.K.	2060	P.	J.K.
4-25	P#216/218/112	" " T.	PR-640	G.	E.	-	2067	G#9	J.K.	2060	P.	J.K.
4-25	P#18/112/218	" " T.	PR-641	G.	E.	-	2067	G#9	J.K.	2060	P.	J.K.
4-25	P#18/218/219	" " T.	PR-642	G.	E.	-	2067	G#9	J.K.	2060	P.	J.K.
4-25	P#18/219/220	" " T.	PR-643	G.	E.	-	2067	G#9	J.K.	2060	P.	J.K.
4-27	P#18/220/222	" " T.	PR-644	G.	E.	-	2057	G#9	J.K.	2067	P.	J.K.
4-27	P#18/223/223	" " "	PR-645	P.	E.	2x3'	2057	G#9	J.K.	2067	P.	J.K.
4-27	P#18/223/224	" " "	PR-646	P.	E.	2x5'	2057	G#9	J.K.	2067	P.	J.K.
4-27	P#18	3' N. OF 1A-18 TIE IN 8' 5' W. OF Sump 223/224	PR-647	G.	E.	-	2057	G#9	J.K.	2067	P.	J.K.
4-27	P#18/P-224	1A to 1B TIE IN 8' E. OF Sump 223/224	PR-648	P.	E.	1x1'	2057	G#9	J.K.	2067	P.	J.K.
4-27	P#18/224/225	INTERSECTION OF T.	PR-649	G.	E.	-	2057	G#9	J.K.	2067	P.	J.K.
4-27	P-18/P-225	6' E. OF Sump 224/225	PR-650	G#9	E.	2x5'	2057	G#9	J.K.	2067	P.	J.K.
4-27	P#18/225/227	INTERSECTION OF T.	PR-651	G#9	E.	2x2'	2057	G#9	J.K.	2067	P.	J.K.
4-27	P#18/227/228	" " T.	PR-652	G.	E.	-	2057	G#9	J.K.	2067	P.	J.K.
4-27	P#18/228/229	" " T.	PR-653	G.	E.	-	2057	G#9	J.K.	2067	P.	J.K.
4-27	P#18/229/230	" " T.	PR-654	G.	E.	-	2057	G#9	J.K.	2067	P.	J.K.
4-27	P#18/230/239	" " T.	PR-655	G.	E.	-	2057	G#9	J.K.	2067	P.	J.K.

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Notes: (1) Repair Codes: P = Patch G = Cap
(2) Repair Types: E = Extrusion F = Fusion

D8 = Destructive Sample DS = Destructive Sample R = Reconstruction



GEOSYNTEC CONSULTANTS
Boynton Beach, Florida



Trail Ridge Landfill, Inc.

Repair Summary Log

PRIMARY

Sheet No. 36 of

Project: Trail Ridge Landfill

Project No.: FQ2030

Phase: I & II

Location: Jacksonville, Florida

Contractor: National Seal Company

Year: 1992

Date Repaired (mo/dy)	Seam or Panel No.	Location	Repair			Oper. I.D.	Mach. No.	Q.A. I.D.	Non-Destructive Testing				
			No.	Code (1)	Type (2)				Dim.	Date (mo/dy)	Oper. I.D.	Pass Fail	Q.A. I.D.
4-27	P221/P-222	242' to 0'	PR-656	P.	E.	2x2'	2057	G-49	J.K.	4-28	2067	P.	J.K.
4-27	P220/P-222	69' to 0'	PR-657	Q5-P112	E.	2x5'	2057	G-49	J.K.	4-28	2067	P.	J.K.
4-27	P220/P-222	37' to 0'	PR-658	P.	E.	1x1'	2057	G-49	J.K.	4-28	2067	P.	J.K.
4-27	P220/P-222	3' to 0'	PR-659	P.	E.	2x2'	2057	G-49	J.K.	4-28	2067	P.	J.K.
4-27	P220/P-222	Between PR-658 & PR-659	PR-660	R.	E.	-	2057	G-49	J.K.	4-28	2067	P.	J.K.
4-27	P220/P-222	3' to 0'	PR-661	R.	E.	-	2057	G-49	J.K.	4-28	2067	P.	J.K.
4-27	P223/P-223	222' to 0'	PR-662	Q5-P113	E.	2x5'	2057	G-49	J.K.	4-28	2067	P.	J.K.
4-27	P223/P-224	206' to 0	PR-663	G.	E.	-	2057	G-49	J.K.	4-28	2067	P.	J.K.
4-27	P-224/P-225	164' to 0' or 5m 223/224	PR-664	G.	E.	-	2057	G-49	J.K.	4-28	2067	P.	J.K.
4-27	P224/P-225	75' to 0'	PR-665	Q5-P114	E.	2x5'	2057	G-49	J.K.	4-28	2067	P.	J.K.
4-28	P224/P-225	59' to 0'	PR-666	Q5-P114A	E.	2x5'	2036	G-12	J.K.	4-28	2067	P.	J.K.
4-28	P224/P-225	88' to 0'	PR-667	Q5-P114B	E.	2x5'	2036	G-12	J.K.	4-28	2067	P.	J.K.
4-28	P224/P-225	Between PR-666 & PR-667	PR-668	R.	E.	-	2036	G-12	J.K.	4-28	2067	P.	J.K.
4-27	P226/P-227	183' to 0'	PR-669	P.	E.	2x4'	2057	G-49	J.K.	4-28	2067	P.	J.K.
4-27	P226/P-227	290' to 0'	PR-670	Q5-P115	E.	2x5'	2057	G-49	J.K.	4-28	2067	P.	J.K.
4-27	P226/P-227	189' to 0'	PR-671	P.	E.	1x1'	2057	G-49	J.K.	4-28	2067	P.	J.K.
4-27	P225/P-226/227	183' to 0'	PR-672	P.	E.	1x1'	2057	G-49	J.K.	4-28	2067	P.	J.K.
4-27	P226/P-227	Between PR-671 & PR-672	PR-673	R.	E.	-	2057	G-49	J.K.	4-28	2067	P.	J.K.
4-27	P227/P-228	4' to 0'	PR-674	P.	E.	1x1'	2057	G-49	J.K.	4-28	2067	P.	J.K.

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Notes: (1) Repair Codes:
(2) Repair Types:

P = Patch G = Cap
E = Extrusion F = Fusion

G = Grind & Weld

DS = Destructive Sample

R = Reconstruction



GEOSYNTEC CONSULTANTS
Boynton Beach, Florida



Trail Ridge Landfill, Inc.

Repair Summary Log

Primary

Sheet No.: 37 of

Project: Trail Ridge Landfill

Project No.: F02030

Phase: I & II

Location: Jacksonville, Florida

Contractor: National Seal Company

Year: 1992

Date Repaired (mo/dy)	Seam or Panel No.	Location	Repair			Oper. I.D.	Mach. No.	Q.A. I.D.	Non-Destructive Testing		
			No.	Code (1)	Type (2)				Date (mo/dy)	Oper. I.D.	Pass Fail
4-27	P227/P228	210' to 0'	PR-675	G.	E.	2057	G-19	JK.	4-28	2067	P.
4-27	P227/P228	230' to 0'	PR-676	G.	E.	2057	G-19	JK.	4-28	2067	P.
4-27	P228/P229	149' to 0'	PR-677	DS-P116	E.	2057	G-19	JK.	4-28	2067	P.
4-27	P229/P230	139' to 0'	PR-678	P.	E.	2057	G-19	JK.	4-28	2067	P.
4-27	P-# 230	113' to 1' E of 5m 229/230	PR-679	G.	E.	2057	G-19	JK.	4-28	2067	P.
4-28	P230/P239/P240	14.5' to 0'	PR-680	G.	E.	2048	G-15	JK.	4-28	2067	P.
4-28	P230/P240/P241	29' to 0'	PR-681	G.	E.	2048	G-15	JK.	4-28	2067	P.
4-28	P230/P241	43.5' to 0'	PR-682	G.	E.	2048	G-15	JK.	4-28	2067	P.
4-28	P230/P242	58' to 0'	PR-683	G.	E.	2048	G-15	JK.	4-28	2067	P.
4-28	P230/P243	72.5' to 0'	PR-684	G.	E.	2048	G-15	JK.	4-28	2067	P.
4-28	P230/P244	87' to 0'	PR-685	G.	E.	2048	G-15	JK.	4-28	2067	P.
4-28	P230/P245	101.5' to 0'	PR-686	G.	E.	2048	G-15	JK.	4-28	2067	P.
4-28	P230/P246	116' to 0'	PR-687	G.	E.	2048	G-15	JK.	4-28	2067	P.
4-28	P230/P247	6' to 0' of 5m 243/245	PR-688	DS-P120	E.	2048	G-15	JK.	4-28	2067	P.
4-28	P230/P248	191' to 0'	PR-689	G.	E.	2048	G-15	JK.	4-28	2067	P.
4-28	P230/P249	207' to 0'	PR-690	G.	E.	2048	G-15	JK.	4-28	2067	P.
4-28	P230/P250	221' to 0'	PR-691	G.	E.	2048	G-15	JK.	4-28	2067	P.
4-28	P230/P251	235.5' to 0'	PR-692	G.	E.	2048	G-15	JK.	4-28	2067	P.
4-28	P230/P252	250' to 0'	PR-693	G.	E.	2048	G-15	JK.	4-28	2067	P.

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Notes: (1) Repair Codes: P = Patch C = Cap
(2) Repair Types: E = Extrusion F = Fusion

G = Grind & Weld DS = Destructive Sample

R = Reconstruction



GEO SYNTec CONSULTANTS
Boynton Beach, Florida



Trail Ridge Landfill, Inc.

Repair Summary Log

PRIMARY

Sheet No.: 38 of

Project: Trail Ridge Landfill

Project No.: F02030

Phase: I & II

Location: Jacksonville, Florida

Contractor: National Seal Company

Year: 1992

Date Repaired (mo/dy)	Seam or Panel No.	Location	Repair			Oper. I.D.	Mach. No.	Q.A. I.D.	Non-Destructive Testing			
			No.	Code (1)	Type (2)				Dim.	Date (mo/dy)	Oper. I.D.	Pass Fail
4-28	P230/P235/236	V010 F.K.	PR-694			2048	G-#15	J.K.	4-28	2067	P	J.K.
4-28	P230/P234/237	265' to 0' T.	PR-694	G.	E.	-	2048	G-#15	J.K.	2067	P.	J.K.
4-28	P230/P237/238	279.5' to 0' T.	PR-695	G.	E.	-	2048	G-#15	J.K.	2067	P.	J.K.
4-28	P230/P234	EXT FULL SEAM	PR-696	R.	E.	-	2048	G-#15	J.K.	2067	P.	J.K.
4-28	P230/P236	" "	PR-697	R.	E.	-	2048	G-#15	J.K.	2067	P.	J.K.
4-28	P230/P237	" "	PR-698	R.	E.	-	2048	G-#15	J.K.	2067	P.	J.K.
4-28	P240/P241	12' to EAST 0'	PR-699	P.	E.	2X3'	2066	G-#12	J.K.	2060	P.	J.K.
4-28	P241/P242	0' to 2'	PR-700	P.	E.	2X2'	2066	G-#12	J.K.	2060	P.	J.K.
4-28	P#-243	574.1' N. of S.M. 243/245	PR-701	P.	E.	1X1'	2066	G-#12	J.K.	2060	P.	J.K.
4-28	P243/P244	0' to 5'	PR-702	P.	E.	2X5'	2066	G-#12	J.K.	2060	P.	J.K.
4-28	P244/P245	CAP FULL SEAM	PR-703	C.	E.	2X15'	2066	G-#12	J.K.	2060	P.	J.K.
4-28	P244/P246	32' to E. 0'	PR-704	95-P118	E.	2X5'	2066	G-#12	J.K.	2060	P.	J.K.
4-28	P#-233	134.5' S. of S.M. 230/233	PR-705	G.	E.	-	2066	G-#12	J.K.	2060	P.	J.K.
4-28	P234/P235	5' to 7' to E. 0'	PR-706	P.	E.	2X2'	2066	G-#12	J.K.	2060	P.	J.K.
4-28	P234/P235	44' to E. 0'	PR-707	95-P117	E.	2X5'	2066	G-#12	J.K.	2060	P.	J.K.
5-1	P247/251/250	118' to 0'	PR-708	P.	E.	2X4'	2036	G-9	J.K.	2060	P.	J.K.
5-1	P# 251	CAP ADD'N SKIRT IN EAST ANCHOR	PR-709	C	E.	2X15'	2057	G-#15	J.K.	2060	P.	J.K.
5-1	P250/P-251	CAP 37' to W. END (SUMP)	PR-710	C	E.	2X45'	2048	G-#8	J.K.	2060	P.	J.K.
5-1	P# 250	59' to E. 0'	PR-711	P.	E.	2X7'	2048	G-#8	J.K.	2060	P.	J.K.

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Notes: (1) Repair Codes:
(2) Repair Types:

P = Patch C = Cap
E = Extrusion F = Fusion

G = Grind & Weld

DS = Destructive Sample

R = Reconstruction

REMARKS



GEOSYNTEC CONSULTANTS
Boynton Beach, Florida



Trail Ridge Landfill, Inc.

Repair Summary Log

Primary

Sheet No.: 39 of 39

Project: Trail Ridge Landfill

Project No.: FQ2030

Phase: I & II

Location: Jacksonville, Florida

Contractor: National Seal Company

Year: 1992

Date Repaired (mo/dy)	Seam or Panel No.	Location	Repair		Oper. I.D.	Mach. No.	Q.A. I.D.	Non-Destructive Testing		
			No.	Code (1)	Type (2)	Dim.		Date (mo/dy)	Oper. Pass I.D.	Fail Q.A. I.D.
5-1	P-250/P-230	141' to 0'	PR-712	P	E	2X3'	G-#9	5-1	2060	P
5-1	P-#252	59' to E.O' ACROSS FOUR PANEL	PR-713	P	E	2X15'	G-#8	5-1	2060	P
5-1	P-#252	46' to E.O' "	PR-714	P	E	2X15'	G-#8	5-1	2060	P
5-1	P-#249	61' to E.O' CAP UNDER	PR-715	C	E	2X61'	G-#15	5-1	2060	P
5-1	P-#249	46' to E.O' FROM PR-715 TO SIM 252/249	PR-716	P	E	2X8'	G-#8	5-1	2060	P
5-1	P-259/P-249	46' to W. END	PR-717	C	E	2X30	G-#15	5-1	2060	P
5-1	P-#249	61' to E.O' BOOT SKIRT	PR-718	-	E	8X7'	G-#9	5-1	2060	P
5-1	P-269/252/230	147' to N.O'	PR-719	G	E	-	G-#9	5-1	2060	P
5-1	P-239/248/249	167' to N.O'	PR-720	G	E	-	G-#9	5-1	2060	P
5-1	P-239/231/248	183' to N.O'	PR-721	G	E	-	G-#9	5-1	2060	P
5-1	P-247/254/230	117' to N.O'	PR-722	G	E	-	G-#15	5-1	2060	P
5-1	P-253/254/230	132' to N.O'	PR-723	G	E	-	G-#15	5-1	2060	P
5-1	P-253/P-254	39' to 25' to E.O'	PR-724	C	E	2X36'	G-#8	5-1	2060	P
5-1	P-253/257/230	146' to E.O'	PR-725	G	E	-	G-#15	5-1	2060	P
5-1	P-256/P-257	43' to 84' to E.O'	PR-726	C	E	2X41'	G-#8	5-1	2060	P
5-1	P-#257	67' to 2' N.O' 5m 256/257	PR-727	P	E	2X2'	G-#8	5-1	2060	P
5-1	P-#256	47' to E.O' CUTOUT EXT TO PRIMARY (8000)	PR-728	G	E	2X47'	G-#15	5-1	2060	P
5-1	P-255/256/230	168' to N.O'	PR-729	G	E	-	G-#15	5-1	2060	P
5-1	P-259/231/255	183' to N.O'	PR-730	G	E	-	G-#15	5-1	2060	P

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Notes: (1) Repair Codes: P = Patch C = Cap E = Extrusion F = Fusion

(2) Repair Types: DS = Destructive Sample R = Reconstruction

5-1 P-231/P-255 - 76' to E.O' PR-731
END 1B 3RD LAYER REPAIRS

END 1B PRIMARY REPAIRS

Begin 3RD PROTECTIVE LAYER REPAIRS 1B 5UMP

APPENDIX 0

FIELD DESTRUCTIVE TEST LOGS

SECONDARY GEOMEMBRANE LINER



GEO SYNTec CONSULTANTS
Boynton Beach, Florida



Trail Ridge Landfill, Inc.

Field Destructive Test Log

Sheet No.: 1 of 16

Project: Trail Ridge Landfill

Project No.: FQ2030

Phase: I & II

Location: Jacksonville, Florida

Contractor: National Seal Company

Year: 1992

Sample Data			Field Data						Laboratory Data							
D.S. No.	Seam No. and Location	Date Marked (mo/dy)	Peel (ppi)		Shear (ppi)	Pass	Fail	QA I.D.	Date of Results (mo/dy)	Avg. Peel (ppi)		Avg. Shear (ppi)	Pass	Fail	Iso. Samp. No.	QA I.D.
			Inside	Outside						Inside	Outside					
S 1	53/54 111' from east wall	MAR 13	101	127	157	P		TCB	MAR 14	126	125	164	P		—	TCB
			111	120	165	P		TCB								
S 2	58/510 20' from east wall	MAR 13	131	133	177	P		TCB	MAR 14	106	133	166	P		—	TCB
			132	135	185	P		TCB								
S 3	513/514 71' from east end	MAR 13	130	121	180	P		TCB	MAR 14	126	129	165	P		—	TCB
			128	129	178	P		TCB								
S 4	520/522 321' from N. End	MAR 16	143	143	199	P		TCB	MAR 18	131	126	152	P		—	TCB
			126	135	201	P		TCB								
S 5	521/523 46' from N. end	MAR 16	132	148	203	P		TCB	MAR 18	129	138	156	P		—	TCB
			145	116	194	P		TCB								
S 6	523/524 178' from N. End	MAR 16	144	156	188	P		TCB	MAR 18	120	123	156	P		—	TCB
			147	142	201	P		TCB								
S 7	526/527 347' from N. End	MAR 16	136	138	182	P		TCB	MAR 18	133	123	157	P		—	TCB
			139	138	181	P		TCB								
S 8	527/528 108' from N. End	MAR 17	137	116	149	P		TCB	MAR 18	99	126	157	P		—	TCB
			118	119	150	P		TCB								



GEOSYNTEC CONSULTANTS
Boynton Beach, Florida



Trail Ridge Landfill, Inc.

Field Destructive Test Log

Sheet No.: 2 of 16

Project: Trail Ridge Landfill

Project No.: FQ2030

Phase: I & II

Location: Jacksonville, Florida

Contractor: National Seal Company

Year: 1992

Sample Data

Field Data

Laboratory Data

D.S. No.	Seam No. and Location	Date Marked (mo/dy)	Peel (ppi)		Shear (ppi)	Pass	Fail	QA I.D.	Date of Results (mo/dy)	Avg. Peel (ppi)		Avg. Shear (ppi)	Pass	Fail	Iso. Samp. No.	QA I.D.
			Inside	Outside						Inside	Outside					
S 9	528/529 208' from N. End	MAR 17	117	119	166	P		TCB	MAR 18	114.0	122.1	154.4	P		—	TCB
			99	119	137	P		TCB								
S 10	529/530 354' from N. End	MAR 17	119	105	146	P		TCB	MAR 18	104.3	129.2	155.6	P		—	TCB
			120	101	149	P		TCB								
S 11	531/532 3' from Seam 534/533	MAR 17	114	128	170	P		TCB	MAR 19	115	129	153	P		—	TCB
			122	128	180	P		TCB								
S 12	531/533 23' from N. End	MAR 17	143	104	188	P		TCB	MAR 19	122	118	159	P		—	TCB
			140	105	195	P		TCB								
S 13	533/534 121' from N. End	MAR 17	130	92	169	P		TCB	MAR 19	113	85	159		F	513 B-2 513A	TCB
			132	110	165	P		TCB								
S 14	534/536 253' from N. End	MAR 17	138	116	165	P		TCB	MAR 19	122	116	158	P		—	TCB
			129	118	146	P		TCB								
S 15	536/537 302' from N. End	MAR 17	135	120	169	P		TCB	MAR 19	132	115	158	P		—	TCB
			135	122	159	P		TCB								
S 16	537/538 193' from N. End	MAR 17	116	129	170	P		TCB	MAR 19	126	89	158		F	516 B 516A	TCB
			122	128	165	P		TCB								



GEOSYNTEC CONSULTANTS
Boynton Beach, Florida



Trail Ridge Landfill, Inc.

Field Destructive Test Log

Sheet No.: 3 of 16

Project: Trail Ridge Landfill

Project No.: FQ2030

Phase: I & II

Location: Jacksonville, Florida

Contractor: National Seal Company

Year: 1992

Sample Data

Field Data

Laboratory Data

D.S. No.	Seam No. and Location	Date Marked (mo/dy)	Peel (ppi)		Shear (ppi)	Pass	Fail	QA I.D.	Date of Results (mo/dy)	Avg. Peel (ppi)		Avg. Shear (ppi)	Pass	Fail	Iso. Samp. No.	QA I.D.
			Inside	Outside						Inside	Outside					
S 17	538/540 346' from N. End	MAR 17	142	128	174	P		TCB	MAR 19	113	127	161	P			TCB
S 18	541/539 150' from N. End	MAR 17	134	144	173	P		TCB								
S 19	541/542 294' from N. End	MAR 19	130	119	166	P		TCB	MAR 19	133	125	161	P			TCB
S 20	541/543 222' from N. End	MAR 19	126	130	164	P		TCB								
S 21	543/544 94' from N. End	MAR 19	Peel	—	—		F	TCB							519-A1B 519-CAP	
S 22	543/547 22' from N. End	MAR 19	112	125	156	P		TCB	MAR 20	124	129	159	P			TCB
S 23	547/548 104' from N. End	MAR 19	122	98	161	P		TCB	MAR 20	122	126	157	P			TCB
S 24	547/548 104' from N. End	MAR 19	119	121	155	P		TCB								
S 25	547/548 104' from N. End	MAR 19	122	110	157	P		TCB	MAR 20	117	120	158	P			TCB
S 26	547/548 104' from N. End	MAR 19	120	116	156	P		TCB								
S 27	547/548 104' from N. End	MAR 19	110	122	150	P		TCB	MAR 20	131	114	159	P			TCB
S 28	547/548 104' from N. End	MAR 19	115	121	153	P		TCB								
S 29	547/548 104' from N. End	MAR 20	Peel	—	—		F	TCB							524-A1B	
S 30	547/548 104' from N. End	MAR 20	Peel	—	—		F	TCB								



GEOSYNTEC CONSULTANTS
Boynton Beach, Florida



Trail Ridge Landfill, Inc.

Field Destructive Test Log

Sheet No.: 4 of 16

Project: Trail Ridge Landfill

Project No.: FQ2030

Phase: I & II

Location: Jacksonville, Florida

Contractor: National Seal Company

Year: 1992

Sample Data			Field Data					Laboratory Data								
D.S. No.	Seam No. and Location	Date Marked (mo/dy)	Peel (ppi)		Shear (ppi)	Pass	Fail	QA I.D.	Date of Results (mo/dy)	Avg. Peel (ppi)		Avg. Shear (ppi)	Pass	Fail	Iso. Samp. No.	QA I.D.
			Inside	Outside						Inside	Outside					
525	524/552 47' from N. End	MAR 21	137	139	183	P		TS	MAR 24	115.1	112.4	163.8	P		—	TS
			112	117	182	P		TS								
526	553/553 205' from N. End	MAR 21	139	138	169	P		TS	MAR 24	114.0	126.3	165.2		F	264/268	TS
			137	138	163	P		TS								
527	553/555 329' from N. End	MAR 21	116	103	160	P		TS	MAR 24	120.8	123.3	161.6	P		—	TS
			134	104	169	P		TS								
528	553/556 125' from N. End	MAR 21	104	116	161	P		TS	MAR 24	115.4	121.7	163.0	P		—	TS
			129	106	162	P		TS								
529	556/557 247' from N. End	MAR 21	136	112	157	P		TS	MAR 24	135.6	115.5	158.0	P		—	TS
			136	110	158	P		TS								
530	558/559 375' from N. End	MAR 21	119	130	170	P		TS	MAR 24	105.7	131.9	156.8	P		—	TS
			111	111	172	P		TS								
531	559/560 84' from N. End	MAR 21	125	116	171	P		TS	MAR 24	121.4	116.7	159.6	P		—	TS
			115	115	168	P		TS								
532	561/562 5' from Seam 516/515	MAR 21	168		159	P		TS	MAR 24	102.9	NA	158.8	P		—	TS
			130		163	P		TS								



GEOSYNTEC CONSULTANTS
Boynton Beach, Florida



Trail Ridge Landfill, Inc.

Field Destructive Test Log

Sheet No.: 5 of 16

Project: Trail Ridge Landfill

Project No.: F02030

Phase: I & II

Location: Jacksonville, Florida

Contractor: National Seal Company

Year: 1992

Sample Data			Field Data					Laboratory Data								
D.S. No.	Seam No. and Location	Date Marked (mo./dy)	Peel (ppi)		Shear (ppi)	Pass	Fail	QA I.D.	Date of Results (mo./dy)	Avg. Peel (ppi)		Avg. Shear (ppi)	Pass	Fail	Iso. Samp. No.	QA I.D.
			Inside	Outside						Inside	Outside					
S-33	S-63/S-64 189' FROM N. END	MAR 21	122	123	160	P		TS	MAR 24	114.3	134.7	156.8	P		—	TS
S-34	S-64/S-65 257' FROM N. END	MAR 26	118	121	160	P		TS	MAR 27	112.3	112.7	170.4		F	S-34A/S-34B	TS
			126	140	161	P		TS								
S-35	S-67/S-68 73' FROM N. END	MAR 25	132	131	171	P		TS	MAR 27	105.2	119.6	165.7	P		—	TS
			106	127	160	P		TS								
S-36	S-68/S-69 102' FROM N. END	MAR 26	120	124	171	P		TS	MAR 27	126.0	121.8	162.5	P		—	TS
			117	126	175	P		TS								
S-37	S-69/S-70 191' FROM N. END 6' E OF S-20/S-29 BETWEEN PAPER	MAR 27	125	131	173	P		TS	MAR 28	138.8	N/A	162.1	P		—	TS
			108	104	143	P		TS								
S-38	S-69/S-70 191' FROM N. END	MAR 29	125	110	153	P		TS	MAR 31	111.2	125.5	160.6		F	S-38A/S-38B	TS
			104	115	158	P		TS								
S-39	S-71/S-72 112' FROM N. END	MAR 29	117	109	157	P		TS	MAR 31	132.9	131.3	158.8	P		—	TS
			119	115	144	P		TS								
S-40	S-72/S-75 305' FROM N. END	MAR 29	116	104	146	P		TS	MAR 31	124.7	125.4	158.2	P		—	TS
			108	121	137	P		TS								



GEOSYNTEC CONSULTANTS
Boynton Beach, Florida



Trail Ridge Landfill, Inc.

Field Destructive Test Log

Sheet No.: 6 of 16

Project: Trail Ridge Landfill

Project No.: FQ2030

Phase: I & II

Location: Jacksonville, Florida

Contractor: National Seal Company

Year: 1992

Sample Data			Field Data						Laboratory Data							
D.S. No.	Seam No. and Location	Date Marked (mo/dy)	Peel (ppi)		Shear (ppi)	Pass	Fail	QA I.D.	Date of Results (mo/dy)	Avg. Peel (ppi)		Avg. Shear (ppi)	Pass	Fail	Iso. Samp. No.	QA I.D.
			Inside	Outside						Inside	Outside					
S-41	5-85/5-76 242' FROM N.END	MAR 29	114	113	159	P		TS	MAR 31	119.7	125.9	164.4	P		-	TS
			118	122	150	P		TS								
S-42	5-76/5-77 87' FROM N.END	MAR 29	123	117	148	P		TS	MAR 31	122.2	124.4	162.4	P		-	TS
			117	114	146	P		TS								
S-43	5-79/5-80 314' FROM N.END	MAR 29	100	116	153	P		TS	MAR 31	123.1	129.6	163.8	P		-	TS
			119	119	149	P		TS								
S-44	5-80/5-81 244' FROM N.END	MAR 29	112	117	154	P		TS	MAR 31	141.8	138.3	163.8	P		-	TS
			104	128	141	P		TS								
S-45	5-81/5-83 92' FROM N.END	MAR 29	109	113	152	P		TS	MAR 31	140.2	135.3	156.0	P		-	TS
			111	121	147	P		TS								
S-46	5-83/5-84 187' FROM N.END	MAR 29	118	122	156	P		TS	MAR 31	118.0	119.6	159.2	P		-	TS
			114	105	156	P		TS								
S-47	5-85/5-87 237' FROM N.END	MAR 29	84	124	152	P		TS	MAR 31	124.9	132.4	166.6	P		-	TS
			126	121	149	P		TS	MAR 31							
S-48	5-87/5-88 305' FROM N.END	MAR 29	106	116	143	P		TS	MAR 31	139.8	124.1	164.0	P		-	TS
			120	111	144	P		TS								



GEOSYNTEC CONSULTANTS
Boynton Beach, Florida



Trail Ridge Landfill, Inc.

Field Destructive Test Log

Sheet No.: 7 of 16

Project: Trail Ridge Landfill

Project No.: F02030

Phase: I & II

Location: Jacksonville, Florida

Contractor: National Seal Company

Year: 1992

Sample Data			Field Data					Laboratory Data								
D.S. No.	Seam No. and Location	Date Marked (mo/dy)	Peel (ppi)		Shear (ppi)	Pass	Fail	QA I.D.	Date of Results (mo/dy)	Avg. Peel (ppi)		Avg. Shear (ppi)	Pass	Fail	Iso. Samp. No.	QA I.D.
			Inside	Outside						Inside	Outside					
S-49	S-49/194 101' FROM N.END	MAR 31	131	126	141	P		B	APR 1	105.1	97.0	162.0		F	499/548	B
			104	107	159	P		B								
S-50	S-49/194 284' FROM N.END	MAR 31	114	100	161	P		B	APR 1	137.7	109.7	163.8	P		-	B
			116	113	164	P		B	APR 1							
S-51	S-49/194 105' FROM N.END	MAR 31	108		156	P		B	127.7							
			108		154	P		B	APR-1	127.7		161.6	P		-	B
S-52	S-49/194 318' FROM N.END	MAR 31	111		150	P		B	APR-1	85.2		160.8	P		-	B
			111		156	P		B								
S-53	S-49/194 153' FROM N.END	APR 1	140		140	P		B	APR-2	129.8	-	170.1	P		-	J.K.
			117		144	P		B								
S-54	S-49/198 211' FROM N.END	MAR 31	124	130	163	P		B	APR 2	122.2	135.9	161.4	P		-	B
			129	130	164	P		B								
S-55	S-49/194 115' FROM N.END	MAR 31	124	136	161	P		B	APR 2	127.7	105.4	163.0	P		-	B
			124	123	158	P		B								
S-56	S-49/192 178' FROM N.END	MAR 31	119	132	167	P		B	APR 2	102.8	125.9	159.7	P		-	B
			118	100	163	P		B								



GEOSYNTEC CONSULTANTS
Boynton Beach, Florida



Trail Ridge Landfill, Inc.

Field Destructive Test Log

Sheet No.: 8 of 16

Project: Trail Ridge Landfill

Project No.: FQ2030

Phase:

Location: Jacksonville, Florida

Contractor: National Seal Company

Year: 1992

Sample Data

Field Data

Laboratory Data

D.S. No.	Seam No. and Location	Date Marked (mo/dy)	Peel (ppi)		Shear (ppi)	Pass	Fail	QA I.D.	Date of Results (mo/dy)	Avg. Peel (ppi)		Avg. Shear (ppi)	Pass	Fail	Iso. Samp. No.	QA I.D.
			Inside	Outside						Inside	Outside					
S-57	S-102/S-103 26A' FROM N.END	APR 1	127	122	156	P		18	APR 2	121.6	127.3	160.1	P		+	18
S-58	S-98/S-99 507' FROM N.END	APR 1	127	127	161	P		18	APR 2	137.7		161.0	P		-	18
S-59	S-91/S-93 350' FROM N.END	APR 1	127	145	154	P		18	APR 2	108.2		153.4	P		-	18
S-60	S-100/S-107 286' FROM N.END	APR 2	103	109	150	P		18	APR 3	111.6	101.4	158.0		F	560A/560B	18
S-61	S-107/S-108 120' FROM N.END	APR 2	106	102	150	P		18	APR 3	106.6	123.1	159.0	P		-	18
S-62	S-110/S-111 172' FROM N.END	APR 2	118	122	143	P		18	APR 3	126.5	129.5	163.0	P		-	18
S-63	S-111/S-112 415' FROM N.END	APR 2	99	103	153	P		18	APR 4	110.8	118.3	160.0	P		-	18
S-64	S-112/S-114 188' FROM N.END	APR 2	123	127	155	P		18	APR 4	130.9	122.6	161.4	P		-	18
S-65	111' 116' 215'		124	124	160	P		18								



GEOSYNTEC CONSULTANTS
Boynton Beach, Florida



Trail Ridge Landfill, Inc.

Field Destructive Test Log

Sheet No.: 9 of 16

Project: Trail Ridge Landfill

Project No.: FQ2030

Phase: I & II

Location: Jacksonville, Florida

Contractor: National Seal Company

Year: 1992

Sample Data			Field Data						Laboratory Data							
D.S. No.	Seam No. and Location	Date Marked (mo/dy)	Peel (ppi)		Shear (ppi)	Pass	Fail	QA I.D.	Date of Results (mo/dy)	Avg. Peel (ppi)		Avg. Shear (ppi)	Pass	Fail	Iso. Samp. No.	QA I.D.
			Inside	Outside						Inside	Outside					
S-65	115/116 268' FROM N.E. END	APR 2	118	121	149	P		68	APR 4	139.7	133.4	162.4	P		-	68
S-66	59/5-117 206' FROM N.E. END	APR 3	111	116	154	P		68	APR 4	111.1	—	155.8	P.		—	68
			① 141	② 136	156	P		68								
			② 126	③ 127	161	P		68								
S-67	5-139/5-131 - 200' to 0'	APR - 8	116	127	153	P		J.K.	4-9-92	118.0	121.4	167.5	P.		-	J.K.
			121	103	151	P										
S-68	5-132/5-133 - 5' to 0'	APR - 8	125	124	143	P		J.K.	4-9	113.0	117.1	161.3	P.		-	J.K.
			117	118	144	P										
S-69	5-134/5-135 - 225' to 0'	APR - 8	125	121	144	P		J.K.	4-9	113.8	120.3	160.3	P.		-	J.K.
			98	112	151	P										
S-70	5-136/5-137 - 15' to 0'	APR - 8	115	111	145	P		J.K.	4-9	117.1	122.9	163.0	P.		-	J.K.
			104	121	149	P										
S-71	5-137/5-138 - 176' to 0'	4-9-92	108	102	140	P		J.K.	4-11	124.1	107.4	158.4	P.		-	J.K.
			97	103	149	P.		J.K.								
S-72	5-139/5-140 - 55' to 0'	4-9	114	110	139	P.		J.K.	4-11	123.8	109.9	157.7	P.		-	J.K.
			109	99	142	P.		J.K.								



GEOSYNTEC CONSULTANTS
Boynton Beach, Florida



Trail Ridge Landfill, Inc.

Field Destructive Test Log

Sheet No.: 10 of 16

SECONDARY

Project: Trail Ridge Landfill

Project No.: FQ2030

Phase: I & II

Location: Jacksonville, Florida

Contractor: National Seal Company

Year: 1992

Sample Data				Field Data					Laboratory Data							
D.S. No.	Seam No. and Location	Date Marked (mo/dy)	Peel (ppi)		Shear (ppi)	Pass	Fail	QA I.D.	Date of Results (mo/dy)	Avg. Peel (ppi)		Avg. Shear (ppi)	Pass	Fail	Iso. Samp. No.	QA I.D.
			Inside	Outside						Inside	Outside					
S-73	S-140/S-142 - 156' to 0'	4-9-92	111	106	142	Pass		J.K.	4-11-92	101.1	103.3	155.6	P		-	J.K.
S-74	S-143/S-144 - 262' to 0'	4-9	113	99	163	P		J.K.	4-11-92	113.6	124.1	161.9	P		-	J.K.
S-75	S-145/S-146 - 276' to 9m 1447	4-9	115	113	159	P		J.K.	4-11-92	124.4	118.1	155.6	P		-	J.K.
S-76	S-147/S-148 - 88' to 0'	4-9	116	116	144	P		J.K.	4-11-92	120.6	113.3	156.8	P			J.K.
S-77	S-149/S-151 - 216' to 0'	4-9	101	102	130	P		J.K.	4-11-92	122.5	123.9	159.5	P			J.K.
S-78	S-151/S-152 - 126' to 0'	4-10-92	102	101	129	P		J.K.	4-11-92	61.0	61.0	163.6	3-100% Pass	FAIL	S-78-A1 - B1	J.K.
S-79	S-152/S-153 - 222' to 0'	4-10	99	106	133	P		J.K.	4-11-92	108.9	114.2	155.6	Recd. 1-70% 1-65%	FAIL	S-79-A B1	J.K.
S-80	S-34/S-142 - 5' to 5m 5142	4-10	103	102	130	P		J.K.	4-11-92	130.8	-	157.8	P		-	J.K.
			107	107	134	P		J.K.	4-11-92	130.8	-	157.8	P			J.K.
			99	111	129	P		J.K.	4-11-92	130.8	-	157.8	P			J.K.
			-	-	146	P										



GEOSYNTEC CONSULTANTS
Boynton Beach, Florida



Trail Ridge Landfill, Inc.

Field Destructive Test Log

Sheet No.: 11 of 16

Project: Trail Ridge Landfill

Project No.: FQ2030

Phase: I & II

Location: Jacksonville, Florida

Contractor: National Seal Company

Year: 1992

Sample Data			Field Data					Laboratory Data								
D.S. No.	Seam No. and Location	Date Marked (mo/dy)	Peel (ppi)		Shear (ppi)	Pass	Fail	QA I.D.	Date of Results (mo/dy)	Avg. Peel (ppi)		Avg. Shear (ppi)	Pass	Fail	Iso. Samp. No.	QA I.D.
			Inside	Outside						Inside	Outside					
S-81	5-154/5-156-2440'	4-10-92	109	112	145	Pass		5-K.	4-14	118.9	119.6	152	P.		-	5-K.
S-82	5-157/5-159-29440'	4-10-92	114	110	149	P.		5-K.	4-14	125.4	105.8	152.4	P.		-	5-K.
S-83	5-160/5-161-12440' 5-K. 5-162 5-163 12440'	4-10-92	109	109	141	P.		5-K.	4-14	110.4	127.9	158.8	P.		-	5-K.
S-84	5-162/5-163-10740'	4-11-92	117	98	163	P.		5-K.	4-14	104.9	112.8	158.	P.		-	5-K.
S-85	5-164/5-165-14140'	4-11-92	92	111	162	P.		5-K.	4-14	117.6	121.2	157.6	P.		-	5-K.
S-86	5-167/5-168-21240'	4-11-92	125	98	163	P.		5-K.	4-14	123.5	95.4	154.4	X	F	5-86-A-B	5-K.
S-87	5-169/5-171-27440'	4-11-92	134	108	163	P.		5-K.	4-14	123.8	128.6	154.8	P	NMT	-	5-K.
S-88	5-172/5-173-12340'	4-11-92	127	129	160	P.		5-K.	4-14	122.4	112.4	150.6	P.		-	5-K.
			126	112	143	P.										
			116	111	145	Pass										



GEO SYNTec CONSULTANTS
Boynton Beach, Florida



Trail Ridge Landfill, Inc.

Field Destructive Test Log

Secondary

Sheet No.: 12. of 16

Project: Trail Ridge Landfill

Project No.: FQ2030

Phase: I & II

Location: Jacksonville, Florida

Contractor: National Seal Company

Year: 1992

Sample Data			Field Data					Laboratory Data								
D.S. No.	Seam No. and Location	Date Marked (mo/day)	Peel (ppi)		Shear (ppi)	Pass	Fail	QA I.D.	Date of Results (mo/day)	Avg. Peel (ppi)		Avg. Shear (ppi)	Pass	Fail	Iso. Samp. No.	QA I.D.
			Inside	Outside						Inside	Outside					
S-89	5-174/5-176-73'±0'	4-11-92	117	119	157	Pass		JK.	4-14	126.1	120.5	154.6	P.		-	JK.
			121	114	160	P.		JK.								
S-90	5-177/5-178-184'±0'	4-11-92	135	116	164	P.		JK.	4-14	130.1	123.4	155.4	P.		-	JK.
			121	122	158	P.		JK.								
S-91	5-178/5-180-68'±0'	4-13-92	118	126	150	P.		JK.	4-14	131.6	106.5	159.6	P.		-	JK.
			130	128	157	P.		JK.								
S-92	5-181/5-182-198'±0'	4-13-92	121	111	164	P.		JK.	4-14	120.7	122.3	154.4	P.		-	JK.
			126	126	157	P.		JK.								
S-93	5-182/5-183-48'±0'	4-13-92	128	Peel	-	-	FAIL	JK.	4-14	-	-	-	-	F.	5-93-A 5-93-B	JK.
			Peel	-	-	-	FAIL	JK.		-	-	-	-	F.		JK.
S-94	5-183/5-184-5-183-5-185-71'±0'±51M	4-13-92	104	115	158	P.		JK.	4-14	123.9	128.5	159	P.		-	JK.
			114	120	163	P.		JK.								
S-95	5-185/5-186-111'±0'	4-13-92	115	112	168	P.		JK.	4-14	115.3	80.7	152	P.		5-95-A 5-95-B	JK.
			111	122	161	P.		JK.								
S-96	5-187/5-187-5-187-5-188-61'±0'±51M	4-13-92	110	-	147	P.		JK.	4-14	104.5	-	155.8	P.		-	JK.
			90	-	149	P.		JK.								



GEOSYNTEC CONSULTANTS
Boynton Beach, Florida



Trail Ridge Landfill, Inc.

Field Destructive Test Log

Sheet No.: 13 of 16

SECONDARY

Project: Trail Ridge Landfill

Project No.: FQ2030

Phase: I & II

Location: Jacksonville, Florida

Contractor: National Seal Company

Year: 1992

Sample Data			Field Data					Laboratory Data								
D.S. No.	Seam No. and Location	Date Marked (mo/dy)	Peel (ppi)		Shear (ppi)	Pass	Fail	QA I.D.	Date of Results (mo/dy)	Avg. Peel (ppi)		Avg. Shear (ppi)	Pass	Fail	Iso. Samp. No.	QA I.D.
			Inside	Outside						Inside	Outside					
S-97	S-140/CAP-7' w. 5' 5m 140'	4-14	105	-	141	P.		J.K.	4-15	108.4	-	151	P.		-	J.K.
			102	-	132	P.		J.K.								
S-98	S-187/S-188-31' to 0	4-14	106	104	144	P.		J.K.	4-15	97	121	151.2	P.		-	J.K.
			107	112	149	P.		J.K.		124.3	111.1					
S-99	S-189/S-190-212' to 0	4-14	119	119	146	P.		J.K.	4-15	154.4	151.2	151.2	P.		-	J.K.
			102	111	149	P.		J.K.								
S-100	S-190/S-191-105' to 0	4-14	120	103	141	P.		J.K.	4-15	122.3	106.5	154.8	P.		-	J.K.
			123	111	148	P.		J.K.								
S-101	S-192/S-193-207' to 0	4-14	127	112	141	P.		J.K.	4-15	132.2	122.6	152.8	P.		-	J.K.
			121	118	149	P.		J.K.								
S-102	S-194/S-196-43' to 0	4-15	105	105	145	P.		J.K.	4-16	131.8	120.3	159.6	P.		-	J.K.
			105	113	139	P.		J.K.								
S-103	S-196/S-197-253'	4-15	106	109	141	P.		J.K.	4-16	127.9	119.4	160.5	P.		-	J.K.
			109	102	139	P.		J.K.								
S-104	S-198/S-199-120'	4-15	110	110	135	P.		J.K.	4-16	140.1	134.2	162.4	P.		-	J.K.
			112	118	139	P.		J.K.								



GEOSYNTEC CONSULTANTS
Boynton Beach, Florida



Trail Ridge Landfill, Inc.

Field Destructive Test Log

Secondary

Sheet No.: 14 of 16

Project: Trail Ridge Landfill

Project No.: FQ2030

Phase: I & II

Location: Jacksonville, Florida

Contractor: National Seal Company

Year: 1992

Sample Data				Field Data					Laboratory Data							
D.S. No.	Seam No. and Location	Date Marked (mo/dy)	Peel (ppi)		Shear (ppi)	Pass	Fail	QA I.D.	Date of Results (mo/dy)	Avg. Peel (ppi)		Avg. Shear (ppi)	Pass	Fail	Iso. Samp. No.	QA I.D.
			Inside	Outside						Inside	Outside					
S-105	S-200/S-201 2' x 0' x 30' 200/202	4-15	93	103	138	P.		JK.	4-16	120.6	124.8	162.3	P.		-	JK.
			101	101	137	P.		JK.								
S-106	S-202/S-203-18' x 0'	4-15	100	97	141	P.		JK.	4-16	130.8	118.3	164.8	P.		-	JK.
			105	104	139	P.		JK.								
S-107	S-204/S-206-235' x 0'	4-15	115	113	137	P.		JK.	4-16	135.6	131.6	165.9	P.		-	JK.
			110	97	143	P.		JK.								
S-108	S-207/S-208-44' x 0'	4-17	112	93	138	P.		JK.	4-18	99.4	120.6	165.5	P.		-	JK.
			103	102	140	P.		JK.								
S-109	S-208/S-209-225' x 0'	4-17	107	102	141	P.		JK.	4-18	124.5	129.9	164	P.		-	JK.
			100	102	142	P.		JK.								
S-110	S-210/S-212-139' x 0'	4-17	103	106	136	P.		JK.	4-18	113.0	117.9	165	P.		-	JK.
			104	108	138	P.		JK.								
S-111	S-211/S-213-10' x 0'	4-17	106	110	136	P.		JK.	4-18	109.3	127.1	166.8	P.		-	JK.
			113	99	140	P.		JK.								
S-112	S-213/S-214-243' x 0'	4-17	99	102	139	P.		JK.	4-18	108.6	120.4	166.4	P.		-	JK.
			106	108	141	P.		JK.								



GEOSYNTEC CONSULTANTS
Boynton Beach, Florida



Trail Ridge Landfill, Inc.

Field Destructive Test Log

SECONDARY

Sheet No.: 15 of 16

Project: Trail Ridge Landfill

Project No.: FQ2030

Phase: I & II

Location: Jacksonville, Florida

Contractor: National Seal Company

Year: 1992

Sample Data			Field Data					Laboratory Data								
D.S. No.	Seam No. and Location	Date Marked (mo/dy)	Peel (ppi)		Shear (ppi)	Pass	Fail	QA I.D.	Date of Results (mo/dy)	Avg. Peel (ppi)		Avg. Shear (ppi)	Pass	Fail	Iso. Samp. No.	QA I.D.
			Inside	Outside						Inside	Outside					
S-113	S-215/S-217 - 216' to 0'	4-17	117	112	136	P.		JK.	4-18	111.6	114.9	165.1	P.		-	JK.
S-114	S-218/S-219 - 235' to 0'	4-17	101	111	143	P.		JK.	4-18	124.1	118.5	164.7	P.		-	JK.
S-115	S-219/S-220 - 88' to 0'	4-17	106	121	143	P.		JK.	4-18	133.2	125.3	163.9	P.		-	JK.
S-116	S-222/S-223 120'	4-24	98	108	137	P.		JK.	4-25	99.9	127.2	165.1	-	F	4 Peels S-116-A S-116-B	JK.
S-117	S-223/S-224 - 30'	4-24	107	110	139	P.		JK.	4-25	135.7	125.2	160.3	P.		-	JK.
S-118	S-225/S-227 - 237'	4-24	104	98	137	P.		JK.	4-25	133.8	112.8	163.2	P.		-	JK.
S-119	S-232/S-233 - 30'	4-24	113	115	136	P.		JK.	4-25	108	125.2	161.4	P.		-	JK.
S-120	S-237/S-238 - 62'	4-24	106	118	138	P.		JK.	4-25	128	128	161	P.		-	JK.
			126	119	135	P.		JK.								



Field Destructive Test Log

Sheet No.: 16 of 16

SECONDARY

Project: *Trail Ridge Landfill*

Project No.: FQ2030

Phase: T d H

Location: Jacksonville, Florida

Contractor: *National Seal Company*

Year: 1992

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GEOSYNTEC CONSULTANTS
Boynton Beach, Florida



Trail Ridge Landfill, Inc.

Field Destructive Test Log

Sheet No.: 1 of 15

Project: Trail Ridge Landfill

Project No.: FQ2030

Phase: I & II

Location: Jacksonville, Florida

Contractor: National Seal Company

Year: 1992

Sample Data

Field Data

Laboratory Data

D.S. No.	Seam No. and Location	Date Marked (mo/dy)	Peel (ppi)		Shear (ppi)	Pass	Fail	QA I.D.	Date of Results (mo/dy)	Avg. Peel (ppi)		Avg. Shear (ppi)	Pass	Fail	Iso. Samp. No.	QA I.D.
			Inside	Outside						Inside	Outside					
P-1	P3/P4 30' from East end	MAR 15	119	125	172	P		TCL	MAR 16	124	118	158	P		—	TCL
			116	120	174	P		TCL								
P-2	P8/P9 139' from East end	MAR 15	133	130	183	P		TCL	MAR 16	116	114	158	P		—	TCL
			140	137	169	P		TCL								
P-3	P13/P14 70' from East end	MAR 15	111	133	171	P		TCL	MAR 16	103	135	159	P		—	TCL
			142	106	178	P		TCL								
P-4	P16/P17 15' from East end	MAR 15	132	120	174	P		TCL	MAR 16	109	133	164	P		—	TCL
			137	123	168	P		TCL								
P-5	P20/P21 289' FROM N. END	MAR 26	127	125	199	P		BB	MAR 28	134.7	122.9	162.8	P		—	BB
			137	144	186	P		BB								
P-6	P21/P22 216' FROM N. END	MAR 26	134	130	203	P		BB	MAR 28	133.5	114.7	160.0		F	160/P168	BB
			135	109	203	P		BB								
P-7	P22/P24 105' FROM N. END	MAR 26	120	124	195	P		BB	MAR 28	125.6	123.2	161.4	P		—	BB
			144	120	192	P		BB								
P-8	P24/P25 271' FROM N. END	MAR 26	146	145	195	P		BB	MAR 28	125.2	134.3	167.6	P		—	BB
			130	140	202	P		BB								



GEOSYNTEC CONSULTANTS
Boynton Beach, Florida



Trail Ridge Landfill, Inc.

Field Destructive Test Log

Sheet No.: 2 of 15

Project: Trail Ridge Landfill

Project No.: FQ2030

Phase: I & II

Location: Jacksonville, Florida

Contractor: National Seal Company

Year: 1992

Sample Data			Field Data					Laboratory Data								
D.S. No.	Seam No. and Location	Date Marked (mo/dy)	Peel (ppi)		Shear (ppi)	Pass	Fail	QA I.D.	Date of Results (mo/dy)	Avg. Peel (ppi)		Avg. Shear (ppi)	Pass	Fail	Iso. Samp. No.	QA I.D.
			Inside	Outside						Inside	Outside					
P-9	P-26/P-28 338' FROM N.E. END	MAR 26	134	131	185	P		TS	MAR 28	130.9	130.8	162.4	P		-	TS
			136	137	184	P		TS								
P-10	P-28 P-27/P-29 193' FROM N.E. END	MAR 26	113	145	180	P		TS	MAR 28	107.5	137.9	169.4	P		-	TS
			129	148	182	P		TS								
P-11	P-30 P-31 158' FROM N.E. END	MAR 28	108	120	156	P		TS								
			110	115	156	P		TS	MAR 29	113.1	120.4	167.0	P		-	TS
P-12	P-32 P-33 264' FROM N.E. END	MAR 28	109	112	151	P		TS	MAR 29	123.7	113.1	167.4	P		-	TS
			113	115	152	P		TS								
P-13	P-33 P-35 264' FROM N.E. END	MAR 28	119	118	153	P		TS	MAR 29	112.2	124.9	164.4	P		-	TS
			114	109	154	P		TS								
P-14	P-35 P-36 117' FROM N.E. END	MAR 28	112	108	138	P		TS	MAR 29	106.6	112.2	162.8	P		-	TS
			116	112	137	P		TS								
P-15	P-36 P-37 56' FROM N.E. END	MAR 28	93	118	139	P		TS	MAR 29	103.4	130.1	162.8	P		-	TS
			91	105	143	P		TS								
P-16	P-38 P-39 264' FROM N.E. END	MAR 28	105	100	143	P		TS	MAR 29	116.4	118.3	163.6		F	P-46	TS
			95	106	149	P		TS								



GEOSYNTEC CONSULTANTS
Boynton Beach, Florida



Trail Ridge Landfill, Inc.

Field Destructive Test Log

Sheet No.: 3 of 15

Project: Trail Ridge Landfill

Project No.: F02030

Phase: I & II

Location: Jacksonville, Florida

Contractor: National Seal Company

Year: 1992

Sample Data			Field Data						Laboratory Data							
D.S. No.	Seam No. and Location	Date Marked (mo/dy)	Peel (ppi)		Shear (ppi)	Pass	Fail	QA I.D.	Date of Results (mo/dy)	Avg. Peel (ppi)		Avg. Shear (ppi)	Pass	Fail	Iso. Samp. No.	QA I.D.
			Inside	Outside						Inside	Outside					
P-17	P-39/P-46 173' FROM N. END	MAR 28	113	97	140	P		TS	MAR 29	112.2	124.9	164.4	P		TS	
P-18	P-41/P-42 8' E. of P-43	MAR 28	104	114	141	P		TS	MAR 29	122.1	124.6	158.4	P			TS
P-19	P-43/P-44 51' FROM N. END	MAR 28	111	101	139	P		TS								
P-20	P-44/P-46 135' FROM N. END	MAR 28	114	112	147	P		TS	MAR 29	105.3	128.5	165.4	P			TS
P-21	P-46/P-47 253' FROM N. END	MAR 28	101	101	139	P		TS								
P-22	P-47/P-48 320' FROM N. END	MAR 28	102	114	146	P		TS	MAR 29	117.0	111.0	158.4	P			TS
P-23	P-49/P-51 248' FROM N. END	MAR 28	114	101	143	P		TS								
P-24	P-51/P-51 191' FROM N. END	MAR 28	109	115	139	P		TS	MAR 21	126.9	117.0	162.2	P			TS
			106	107	141	P		TS								
			108	126	167	P		TS	MAR 31	117.4	114.0	160.6	P			TS
			125	130	164	P		TS								
			109	118	164	P		TS	MAR 31	121.4	131.5	158.6	P			TS
			135	128	169	P		TS								
			124	128	171	P		TS	MAR 31	128.9	132.3	162.8	P			TS
			119	125	160	P		TS								



GEOSYNTEC CONSULTANTS
Boynton Beach, Florida



Trail Ridge Landfill, Inc.

Field Destructive Test Log

Sheet No.: 4 of 15

Project: Trail Ridge Landfill Project No.: F02030 Phase: _____
Location: Jacksonville, Florida Contractor: National Seal Company Year: 1992

Sample Data			Field Data					Laboratory Data								
D.S. No.	Seam No. and Location	Date Marked (mo/dy)	Peel (ppi)		Shear (ppi)	Pass	Fail	QA I.D.	Date of Results (mo/dy)	Avg. Peel (ppi)		Avg. Shear (ppi)	Pass	Fail	Iso. Samp. No.	QA I.D.
			Inside	Outside						Inside	Outside					
P-25	P-53/P-54 207' FROM N.END	MAR 20	102	110	166	P		(B)	MAR 31	103.5	115.5	159.6	P		—	(R)
			130	131	161	P		(D)								
P-26	P-54/P-55 296' FROM N.END	MAR 28	98	117	165	P		(B)	MAR 31	132.0	121.7	163.0	P		—	(B)
			113	136	158	P		(B)								
P-27	P-20/P-56 183' FROM N.END	APR 3	128	126	150	P		(D)	APR 5	110.0	129.2	159.4	P		—	(B)
			121	112	152	P		(B)								
P-28	P-56/P-57 138' FROM N.END	APR 3	120	116	147	P		(D)	APR 5	124.2	126.9	160.8	P		—	(B)
			127	101	143	P		(B)								
P-29	P-53/P-59 283' FROM N.END	APR 3	116	122	144	P		(B)	APR 5	114.0	127.8	158.8	P		—	(D)
			121	117	145	P		(B)								
P-30	P-59/P-60 219' FROM N.END	APR 3	126	104	164	P		(D)	APR 5	122.4	113.2	152.8		F	P-30 A P-30 B	(B)
			109	106	151	P		(B)								
P-31	P-61/P-63 78' FROM N.END	APR 4	130	127	149	P		(B)	APR 5	124.1	119.7	159.5	P		—	(B)
			134	134	151	P		(B)								
P-32	P-63/P-64 171' FROM N.END	APR 4	119	111	151	P		(B)	APR 5	127.4	131.6	158.2	P		—	(B)
			124	114	150	P		(B)								



GEOSYNTEC CONSULTANTS
Boynton Beach, Florida



Trail Ridge Landfill, Inc.

Field Destructive Test Log

Sheet No.: 5 of 15

Project: Trail Ridge Landfill

Project No.: F02030

Phase: I & II

Location: Jacksonville, Florida

Contractor: National Seal Company

Year: 1992

Sample Data			Field Data						Laboratory Data							
D.S. No.	Seam No. and Location	Date Marked (mo/dy)	Peel (ppi)		Shear (ppi)	Pass	Fail	QA I.D.	Date of Results (mo/dy)	Avg. Peel (ppi)		Avg. Shear (ppi)	Pass	Fail	Iso. Samp. No.	QA I.D.
			Inside	Outside						Inside	Outside					
P-33	P-64/P-66 293' FROM N.END	APR 4	120	128	150	P		R	APR 5	132.1	126.8	158.4	P		—	R
P-34	P-67/P-68 192' FROM N.END	APR 4	127	107	152	P		R	APR 5	137.1	112.6	161.9	P		—	R
P-35	P-69/P-70 117' FROM N.END	APR 4	122	107	153	P		R	APR 5	122.4	118.9	160.3	P		—	R
P-36	P-70/P-71 264' FROM N.END	APR 4	120	123	139	P		R	APR 5	121.7	117.4	157.4	P		—	R
P-37	P-71/P-72 181' FROM N.END	APR 4	125	124	151	Pass		R	APR-7	127.5	120.7	158.3	100% 68%	F	A37-A P-37-B	J-K
P-38	P-74/P-75 285' FROM N.END	APR 4	137	134	158	Pass		R	APR-7	108.5	132.4	158.8	P		—	J-K
P-39	P-75/P-76 196' FROM N.END	APR 4	124	124	152	Pass		R	APR-7	118.7	125.7	159.5	P			J-K
P-40	P-76/P-77 53' FROM N.END	APR 4	125	125	149	Pass		R	APR-7	105.4	129.1	159.3	P			J-K
			132	119	148	Pass										
			121	133	154	Pass										



GEOSYNTEC CONSULTANTS
Boynton Beach, Florida



Trail Ridge Landfill, Inc.

Field Destructive Test Log

Sheet No.: 6 of 15

Project: Trail Ridge Landfill

Project No.: FQ2030

Phase: VII

Location: Jacksonville, Florida

Contractor: National Seal Company

Year: 1992

Sample Data			Field Data						Laboratory Data							
D.S. No.	Seam No. and Location	Date Marked (mo/dy)	Peel (ppi)		Shear (ppi)	Pass	Fail	QA I.D.	Date of Results (mo/dy)	Avg. Peel (ppi)		Avg. Shear (ppi)	Pass	Fail	Iso. Samp. No.	QA I.D.
			Inside	Outside						Inside	Outside					
P-41	P-71/P-79 33' FROM N.END	APR 4	120	119	149	PASS		TS	APR-7	120.3	119.9	158.8	P		-	J.K.
			109	126	153	PASS										
P-42	P-70/P-80 27' FROM N.END	APR 4	104	126	151	PASS		TS	APR-7	122.7	127.1	157.4	P		-	J.K.
			117	119	153	PASS										
P-43	P-81/P-83 215' FROM N.END	APR 4	130	114	149	PASS		TS	APR-7	122.7	127.1	157.4	P		-	J.K.
			120	136	156	PASS										
P-44	P-82/P-84	APR 4	126	126	149	PASS		TS	APR-7	122.7	111.1	159.3	P		-	J.K.
			128	119	158	PASS										
P-45	P-84/P-85	APR 4	113	120	151	PASS		TS	APR-8	118.7	132.1	162.4	P		-	J.K.
			117	130	152	PASS										
*P-46	P-85/P-86 - 21' to 0'	APRIL 6	123	122	161	PASS		J.K.	APR-8	117.1	127.2	162.9	P		-	J.K.
			117	121	159	PASS										
*P-47	P-86/P-87 - 309 to 0'	APRIL 6	123	115	157	PASS		J.K.	APR-8	121.2	125.2	162.5	P		-	J.K.
			121	113	159	PASS										
*P-48	P-87/P-88 - 181 to 0'	APRIL 6	107	124	151	PASS		J.K.	APR-8	117.6	128.2	161.0	P		-	J.K.
			101	126	158	PASS										
*P-49	P-88/P-90 - 75' to 0'	APRIL 6	110	104	149	PASS		J.K.	APR-8	124.2	132.2	163.2	P		-	J.K.



GEOSYNTEC CONSULTANTS
Boynton Beach, Florida



Trail Ridge Landfill, Inc.

Field Destructive Test Log

Sheet No.: 7 of 15

Primary

Project: Trail Ridge Landfill

Project No.: FQ2030

Phase:

Location: Jacksonville, Florida

Contractor: National Seal Company

Year: 1992

Sample Data			Field Data					Laboratory Data								
D.S. No.	Seam No. and Location	Date Marked (mo/dy)	Peel (ppi)		Shear (ppi)	Pass	Fail	QA I.D.	Date of Results (mo/dy)	Avg. Peel (ppi)		Avg. Shear (ppi)	Pass	Fail	Iso. Samp. No.	QA I.D.
			Inside	Outside						Inside	Outside					
#P-50	P-91/P-93 - 237' to 0'	APRIL - 6	125	128	148	PASS		J.K.	4-8-92	109.8	132.4	162.5	P.	-	-	J.K.
#P-51	P-92/P-94 - 100' to 0'	APRIL - 6	114	121	152	PASS		J.K.	4-8	129.8	133.2	163.7	P.			J.K.
#P-52	P-94/P-95 - 239 to 0'	APRIL - 6	128	112	154	PASS		J.K.	4-8	113.8	115.5	162.0	✓	F	52A & B	J.K.
#P-53	P-96/P-98 - 81' to 0	APRIL 7	111	109	146	PASS		J.K.	4-8	127.1	130.2	159.8	P.			J.K.
#P-54	P-98/P-99 - 236' to 0'	APRIL 7	116	104	144	PASS		J.K.	4-8	119.0	127.5	161.6	P.			J.K.
#P-55	P-99/P-101 - 357' to 0'	APRIL 7	116	107	160	PASS		J.K.	4-8	136.9	132.0	162.3	P.			J.K.
#P-56	P-101/P-102 - 147 to 0'	APRIL 7	117	119	144	PASS		J.K.	4-8	140.8	127.2	160.9	P.			J.K.
#P-57	P-102/P-103 - 62 to 0'	APRIL 7	110	114	149	PASS		J.K.	4-8	130.0	123.6	160.3	P.			J.K.
#P-58	P-103/P-105 - 241' to 0'	APRIL 7	120	105	149	PASS		J.K.	4-8	114.0	134.8	160.3	P.			J.K.
			121	120	145	PASS										
			112	111	147	PASS		J.K.	4-8	130.0	123.6	160.3	P.			J.K.
			112	105	148	PASS		J.K.	4-8	114.0	134.8	160.3	P.			J.K.
			103	118	143	PASS		J.K.	4-8	114.0	134.8	160.3	P.			J.K.



GEOSYNTEC CONSULTANTS
Boynton Beach, Florida



Trail Ridge Landfill, Inc.

Field Destructive Test Log

Primary

Sheet No.: 8 of 15

Project: Trail Ridge Landfill

Project No.: FQ2030

Phase: I & II

Location: Jacksonville, Florida

Contractor: National Seal Company

Year: 1992

Sample Data

Field Data

Laboratory Data

D.S. No.	Seam No. and Location	Date Marked (mo/dy)	Peel (ppi)		Shear (ppi)	Pass	Fail	QA I.D.	Date of Results (mo/dy)	Avg. Peel (ppi)		Avg. Shear (ppi)	Pass	Fail	Iso. Samp. No.	QA I.D.
			Inside	Outside						Inside	Outside					
#P-59	P-105/P-106 - 172' to 0'	APRIL 7	103	118	143	PASS		J.K.	4-8-92	106.1	122.2	159.2	P.		-	J.K.
#P-60	P-106/P-107 - 281' to 0'	APRIL 7	113	120	150	PASS		J.K.	4-8	114.4	124.8	159.3	P.		-	J.K.
#P-61	P-110/P-113 - 23' to 0'	APR - 8	131	130	160	PASS		J.K.	4-8	122.6	115.9	157.3	P.		-	J.K.
P-62	P-13/P-112	APR - 8	108	158	158	PASS		J.K.	4-8	86.3	-	164.5	P.		-	J.K.
P-63	P-104/P-105 - 28' to 0'	4-16-92	104	109	137	P.		J.K.	4-17	126.4	130.0	166.2	P.		-	J.K.
P-64	P-131/P-132 - 248'	4-16-92	107	110	141	P.		J.K.	4-17	113.8	121.0	159.6	P.		-	J.K.
P-65	P-133/P-134 - 155'	4-16	114	116	137	P.		J.K.	4-17	105.3	128.6	160.8	P.		-	J.K.
P-66	P-134/P-136 - 131'	4-16	114	104	148	P.		J.K.	4-17	105.6	123.3	162.8	P.		-	J.K.
			97	111	142	P.		J.K.								



GEOSYNTEC CONSULTANTS
Boynton Beach, Florida



Trail Ridge Landfill, Inc.

Field Destructive Test Log

PRIMARY

Sheet No.: 9 of 15

Project: Trail Ridge Landfill

Project No.: FQ2030

Phase: I & II

Location: Jacksonville, Florida

Contractor: National Seal Company

Year: 1992

Sample Data				Field Data					Laboratory Data							
D.S. No.	Seam No. and Location	Date Marked (mo/dy)	Peel (ppi)		Shear (ppi)	Pass	Fail	QA I.D.	Date of Results (mo/dy)	Avg. Peel (ppi)		Avg. Shear (ppi)	Pass	Fail	Iso. Samp. No.	QA I.D.
			Inside	Outside						Inside	Outside					
P-67	P-137/P-138 - 119'	4-16	113	115	140	P.		J.K.	4-17	119.9	125.4	158.4	P.		-	J.K.
P-68	P-138/P-140 - 281'	4-16	120	107	141	P.		J.K.	4-17	108.1	131.4	157.8	P.		-	J.K.
P-69	P-141/P-142 - 81'	4-16	122	110	141	P.		J.K.	4-17	124.0	133.3	159.0	P.		-	J.K.
P-70	P-143/P-145 - 136'	4-16	105	98	141	P.		J.K.	4-17	111.7	129.6	160.0	P.		-	J.K.
P-71	P-146/P-147 - 199'	4-16	116	113	142	P.		J.K.	4-17	114.1	126.7	160.4	P.		-	J.K.
P-72	P-148/P-149 - 904' 9" W of sum 149/150	4-16	103	115	141	P.		J.K.	4-17	132.9	132.0	162.0	P.		-	J.K.
P-73	P-150/P-151 - 95'	4-16	119	125	144	P.		J.K.	4-17	134.0	121.1	166.0	P.		-	J.K.
P-74	P-146/P-147 - 146/147	4-17	117	117	138	P.		J.K.	4-18	119.4	-	159.0	P.		-	J.K.



GEOSYNTEC CONSULTANTS
Boynton Beach, Florida



Trail Ridge Landfill, Inc.

Field Destructive Test Log

PRIMARY

Sheet No.: 10 of 15

Project: Trail Ridge Landfill

Project No.: FQ2030

Phase: I & II

Location: Jacksonville, Florida

Contractor: National Seal Company

Year: 1992

Sample Data				Field Data					Laboratory Data							
D.S. No.	Seam No. and Location	Date Marked (mo/dy)	Peel (ppi)		Shear (ppi)	Pass	Fail	QA I.D.	Date of Results (mo/dy)	Avg. Peel (ppi)		Avg. Shear (ppi)	Pass	Fail	Iso. Samp. No.	QA I.D.
			Inside	Outside						Inside	Outside					
P-75	P-153/P-154 - 52'	4-18	116	128	147	P.		J.K.	4-20	114.5	128.3	164.2	P.		-	J.K.
P-76	P-154/P-155 - 219'	4-18	104	120	145	P.		J.K.	4-20	120.5	121.1	162.7	P.		-	J.K.
			122	122	146	P.		J.K.								
P-77	P-157/P-158 - 137'	4-18	121	121	149	P.		J.K.	4-20	130.6	126.8	158.7	P.		-	J.K.
			106	116	140	P.		J.K.								
P-78	P-158/P-159 - 81'	4-18	113	112	141	P.		J.K.	4-20	104.6	119.2	160.0	P.		-	J.K.
			117	102	139	P.		J.K.								
P-79	P-161/P-162 - 292'	4-18	104	105	141	P.		J.K.	4-20	135.6	118.8	155.8	P.		-	J.K.
			107	120	139	P.		J.K.								
P-80	P-162/P-163 - 159'	4-18	117	109	143	P.		J.K.	4-20	127.1	128.6	157	P.		-	J.K.
			123	106	140	P.		J.K.								
P-81	P-164/P-166 - 75'	4-18	101	103	141	P.		J.K.	4-20	123.6	115.5	157.3	P.		-	J.K.
			108	110	138	P.		J.K.								
P-82	P-166/P-167 - 293'	4-18	112	107	139	P.		J.K.	4-20	101.5	120.5	156.9	P.		-	J.K.
			99	113	136	P.		J.K.								
			113	111	138	P.		J.K.								



GEOSYNTEC CONSULTANTS
Boynton Beach, Florida



Trail Ridge Landfill, Inc.

Field Destructive Test Log

PRIMARY

Sheet No.: 11 of 15

Project: Trail Ridge Landfill

Project No.: FQ2030

Phase: I & II

Location: Jacksonville, Florida

Contractor: National Seal Company

Year: 1992

Sample Data				Field Data					Laboratory Data							
D.S. No.	Seam No. and Location	Date Marked (mo/day)	Peel (ppi)		Shear (ppi)	Pass	Fail	QA I.D.	Date of Results (mo/day)	Avg. Peel (ppi)		Avg. Shear (ppi)	Pass	Fail	Iso. Samp. No.	QA I.D.
			Inside	Outside						Inside	Outside					
P-83	P-168/P-169 - 105'	4-18	109	123	137	P.		J.K.	4-20	111.8	127.8	156.2	P.		-	J.K.
P-84	P-169/P-170 - 34'	4-18	96	120	138	P.		J.K.	4-20	109.5	122.6	157.8	P.		-	J.K.
P-85	P-171/P-172 - 204'	4-18	120	125	136	P.		J.K.	4-20	126.8	120.8	156.8	P.		-	J.K.
P-86	P-173/P-175 - 127'	4-18	123	97	137	P.		J.K.	4-20	126.6	114.6	158.1	P.		-	J.K.
P-87	P-176/P-177 - 58'	4-18	109	111	136	P.		J.K.	4-20	129.8	118.4	159.1	P.		-	J.K.
P-88	P-177/P-179 - 223'	4-18	110	117	138	P.		J.K.	4-20	122.7	120.3	157.1	P.		-	J.K.
P-89	P-180/P-181 - 139'	4-18	105	117	137	P.		J.K.	4-20	122.4	122.6	160.0	P.		-	J.K.
P-90	P-182/P-183 - 33'	4-18	114	103	147	P.		J.K.	4-20	120.6	127.2	156.0	P.		-	J.K.
			115	119	144	P.		J.K.								



GEOSYNTEC CONSULTANTS
Boynton Beach, Florida



Trail Ridge Landfill, Inc.

Field Destructive Test Log

Primary

Sheet No.: 12 of 15

Project: Trail Ridge Landfill

Project No.: FQ2030

Phase: I & II

Location: Jacksonville, Florida

Contractor: National Seal Company

Year: 1992

Sample Data				Field Data					Laboratory Data							
D.S. No.	Seam No. and Location	Date Marked (mo/dy)	Peel (ppi)		Shear (ppi)	Pass	Fail	QA I.D.	Date of Results (mo/dy)	Avg. Peel (ppi)		Avg. Shear (ppi)	Pass	Fail	Iso. Samp. No.	QA I.D.
			Inside	Outside						Inside	Outside					
P-91	P-183/P-184- 181'	4-18	108	126	138	P.		JK.	4-20	113.4	124.3	157.4	P.		-	JK.
P-92	P-63/P-172- 5'10" OF SPN P-63/P-64	4-20	97	118	140	P.		JK.	4-21	104.5	-	158.7	P.		-	JK.
P-93	P-183/P-186- 191'	4-22	108	109	139	P.		JK.	4-23	108.0	121.7	159.8	P.		-	JK.
P-94	P-186/P-187- 82'	4-22	102	103	138	P.		JK.	4-23	139.7	129.8	162.6	P.		-	JK.
P-95	P-188/P-189- 150'	4-22	104	112	140	P.		JK.	4-23	133.0	126.7	162	P.		-	JK.
P-96	P-190/P-191- 280'	4-22	115	112	144	P.		JK.	4-23	109.7	117.2	158.8	P.		-	JK.
P-97	P-192/P-193- 206'	4-22	98	106	139	P.		JK.	4-23	105.3	128.5	159.8	P.		-	JK.
P-98	P-193/P-194- 16'	4-22	99	97	140	P.		JK.	4-23	136.7	121.6	157.2	P.		-	JK.
			97	113	141	P.		JK.								



GEOSYNTEC CONSULTANTS
Boynton Beach, Florida



Trail Ridge Landfill, Inc.

Field Destructive Test Log

Primary

Sheet No.: 13 of 15

Project: Trail Ridge Landfill

Project No.: FQ2030

Phase: I & II

Location: Jacksonville, Florida

Contractor: National Seal Company

Year: 1992

Sample Data			Field Data					Laboratory Data								
D.S. No.	Seam No. and Location	Date Marked (mo/dy)	Peel (ppi)		Shear (ppi)	Pass	Fail	QA I.D.	Date of Results (mo/dy)	Avg. Peel (ppi)		Avg. Shear (ppi)	Pass	Fail	Iso. Samp. No.	QA I.D.
			Inside	Outside						Inside	Outside					
P-99	P-194/P-195- 136'	4-22	96	107	142	P		JK	4-23	127.6	113.8	157.6	P		-	JK
			99	104	144	P		JK								
P-100	P-196/P-197- 88'	4-22	118	107	138	P		JK	4-23	102	105.5	157.2	P		-	JK
			108	104	137	P		JK								
P-101	P-199/P-200- 151'	4-22	112	98	139	P		JK	4-23	106.9	119.1	158	P		-	JK
			101	119	143	P		JK								
P-102	P-200/P-201- 245'	4-22	92	102	139	P		JK	4-23	97.1	117.3	157.2	P		-	JK
			117	120	144	P		JK								
P-103	P-202/P-204- 76'	4-22	118	113	141	P		JK	4-23	108.5	114.2	156.8	P		-	JK
			115	111	139	P		JK								
P-104	P-205/P-206- 213'	4-22	103	97	143	P		JK	4-23	99.1	114.2	157.4	P		-	JK
			103	113	138	P		JK								
P-105	P-204/P-208 97'	4-22	106	102	140	P		JK	4-23	132.2	115.1	157	P		-	JK
			118	121	141	P		JK								
P-106	P-209/P-210 106'	4-22	113	120	141	P		JK	4-23	114.4	101.8	157	P		-	JK
			111	113	139	P		JK								



GEOSYNTEC CONSULTANTS
Boynton Beach, Florida



Trail Ridge Landfill, Inc.

Field Destructive Test Log

Primary

Sheet No.:

14 of 15

Project: Trail Ridge Landfill

Project No.: FQ2030

Phase: I & II

Location: Jacksonville, Florida

Contractor: National Seal Company

Year: 1992

Sample Data			Field Data					Laboratory Data								
D.S. No.	Seam No. and Location	Date Marked (mo/dy)	Peel (ppi)		Shear (ppi)	Pass	Fail	QA I.D.	Date of Results (mo/dy)	Avg. Peel (ppi)		Avg. Shear (ppi)	Pass	Fail	Iso. Samp. No.	QA I.D.
			Inside	Outside						Inside	Outside					
P-107	P-211/P-212 - 6' x 0.95m 212/213	4-22	115	106	136	P.		J.K.	4-23	129.1	124.3	154.8	P.		-	J.K.
P-108	P-213/P-214 - 129'	4-23	97	123	142	P.		J.K.	4-24	120.1	125.5	153.8	P.		-	J.K.
P-109	P-216/P-217 - 211'	4-23	109	106	144	P.		J.K.	4-24	118.6	113.5	149.3	P.		-	J.K.
P-110	P-216/P-218 - 18'	4-23	102	110	139	P.		J.K.	4-24	99.1	121	153	P.		-	J.K.
P-111	P-218/P-219 - 257'	4-23	115	107	143	P.		J.K.	4-24	100.4	126.1	151.8	P.		-	J.K.
P-112	P-220/P-222 - 69' 78' x 4'	4-27	117	116	143	P.		J.K.	4-28	102.6	111.7	158.8	P.		-	J.K.
P-113	P-222/P-223 - 232'	4-27	102	115	157	P.		J.K.	4-28	101.1	110.1	160.2	P.		-	J.K.
P-114	P-224/P-225 - 75'	4-27	105	91	158	P.		J.K.	4-28	127.1	118.0	159.8	-	F.	2 Peels P-114-A P-114-B	J.K.
			126	121	161	P.		J.K.								



Trail Ridge Landfill, Inc.

Primary

10 of 15

Year: 1992

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**Min. Test Requirements: Fusion Peel Adh. 90 ppi,
Extrusion Peel Adh. 78 ppi, Bonded Seam Strength (Shear) 132 ppi**

FOR INFORMATION

**ADDITIONAL SAMPLES USED TO
ISOLATE FAILING SEAMS**



GEOSYNTEC CONSULTANTS
Boynton Beach, Florida



Trail Ridge Landfill, Inc.

Field Destructive Test Log *RETEST*

Sheet No.: 1 of 7

Project: Trail Ridge Landfill

Project No.: FQ2030

Phase: *E & II*

Location: Jacksonville, Florida

Contractor: National Seal Company

Year: 1992

Sample Data				Field Data					Laboratory Data							
D.S. No.	Seam No. and Location	Date Marked (mo/dy)	Peel (ppi)		Shear (ppi)	Pass	Fail	QA I.D.	Date of Results (mo/dy)	Avg. Peel (ppi)		Avg. Shear (ppi)	Pass	Fail	Iso. Samp. No.	QA I.D.
			Inside	Outside						Inside	Outside					
519 B	342 319' from N. End	MAR 19	135	132	164	P		TLB	MAR 20	119	120	165	P			TLB
			116	109	156	P		TLB								
514 A	341 192' from N. End	MAR 19	125	90	157	P		TLB	MAR 20	110	124	164	P			TLA
			121	125	158	P		TLB								
516 B	533 212' from N. End	MAR 19	135	129	160	P		TLA	MAR 20	133	102	158	P			TLB
			128	130	159	P		TLB								
516 A	533 174' from N. End	MAR 19	144	136	151	P		TLB	MAR 20	132	99	161	P			TLA
			132	105	154	P		TLB								
513 B	533 132' from N. End	MAR 19	114	110	160	P		TLB	MAR 20	124	91	161		F	513 B-1	TLB
			102	114	161	P		TLA								
513 A	533 103' from N. End	MAR 19	144	144	151	P		TLB	MAR 20	115	116	160	P			TLB
			128	133	159	P		TLB								
524 B	533 10' West of Seam 523/524	MAR 20	-	114	153	P		TLA	MAR 24	117.4	NA	162.8	P			TLB
	52128		-	111	154	P		TLB								
524 A	5328 223' from N. End at Seam 523/524	MAR 20		122	160	P		TLA	MAR 24	112.9	NA	159.8	P			TLB
				111	154	P		TLA								



GEOSYNTEC CONSULTANTS
Boynton Beach, Florida



Trail Ridge Landfill, Inc.

Field Destructive Test Log *RETEST*

Sheet No.: *2* of *7*

Project: *Trail Ridge Landfill*

Project No.: *FQ2030*

Phase: *I & II*

Location: *Jacksonville, Florida*

Contractor: *National Seal Company*

Year: *1992*

Sample Data			Field Data					Laboratory Data								
D.S. No.	Seam No. and Location	Date Marked (mo/dy)	Peel (ppi)		Shear (ppi)	Pass	Fail	QA I.D.	Date of Results (mo/dy)	Avg. Peel (ppi)		Avg. Shear (ppi)	Pass	Fail	Iso. Samp. No.	QA I.D.
			Inside	Outside						Inside	Outside					
S-19 Cap	CAP/S-42 265' FROM N.END	MAR 20	114		149	P		TR	MAR 21	92	N/A	166	P		—	TCB
S-13-B-1	S-33/S-34 147' FROM N.END	MAR 21	93		159	P		TR								
			127	120	152	P		TR	MAR 24	120.8	97.1	160.5		F	S-13-B-2	TR
			129	120	157	P		TR								
S-13-B-2	S-33/S-34 163' FROM N.END	MAR 24	123	117	161	P		TR	MAR 25	123.3	107.6	159.9	P		—	TR
			133	121	159	P		TR								
S-26-B	S-52/S-53 247' FROM N.END	MAR 24	135	109	157	P		TR	MAR 25	99.0	124.8	163.9	P		—	TR
			132	136	166	P		TR								
S-26-A	S-52/S-53 193' FROM N.END	MAR 24	137	148	157	P		TR	MAR 25	101.3	126.0	161.7	P		—	TR
			137	106	165	P		TR								
S-34-A	S-64/S-65 273' FROM N.END	MAR 27	101	114	166	P		TR	MAR 28	111.6	110.0	164.0	P		—	TR
			109	112	154	P		TR								
S-34-B	S-64/S-65 243' FROM N.END	MAR 27	118	122	153	P		TR	MAR 28	123.9	117.0	167.8		F	S-34-B-1	TR
			111	120	149	P		TR								
S-34-B-1	S-64/S-65 200' FROM N.END	MAR 28	117	121	161	P		TR	MAR 29	123.3	137.9	180.6	P		—	TR
			114	109	164	P		TR								



GEOSYNTEC CONSULTANTS
Boynton Beach, Florida



Trail Ridge Landfill, Inc.

Field Destructive Test Log RETEST

Sheet No.: 3 of 7

Project: Trail Ridge Landfill

Project No.: FQ2030

Phase: _____

Location: Jacksonville, Florida

Contractor: National Seal Company

Year: 1992

Sample Data				Field Data					Laboratory Data							
D.S. No.	Seam No. and Location	Date Marked (mo/dy)	Peel (ppi)		Shear (ppi)	Pass	Fail	QA I.D.	Date of Results (mo/dy)	Avg. Peel (ppi)		Avg. Shear (ppi)	Pass	Fail	Iso. Samp. No.	QA I.D.
			Inside	Outside						Inside	Outside					
S-38A	S-69/5-70 175' FROM N.END	MAR 31	135	122	163	✓		TS	APR 1	131.7	120.0	160.5		F	S-38A-1	TS
S-38B	S-69/5-70 209' FROM N.END	MAR 31	118	121	157	P		TS	APR 1	116.4	121.4	161.3	P		-	TS
S-38A1	S-69/5-70 158' FROM N.END	APR 1	135	114	159	P		TS	APR 2	115.9	123.4	156.9	P		-	TS
S-49A	S-92/5-94 169' FROM N.END	APR 1	112	113	144	P		TS	APR 2	116.0	118.3	155.2	P		-	TS
S-49B	S-92/5-94 196' FROM N.END	APR 1	96	108	142	✓		TS	APR 2	95.2	111.6	154.9	P		-	TS
S-60A	S-106/5-107 274' FROM N.END	APR 4	105	123	149	P		TS	APR 6	103.9	118.3	157.5	P		-	TS
S-60B	S-106/5-107 209' FROM N.END	APR 4	113	128	149	P		TS	APR 6	139.8	124.1	160.9	P		-	TS
			123	116	149	P		TS								
			127	113	150	P		TS								
			123	117	148	P		TS								
			111	121	151	P		TS								



GEOSYNTEC CONSULTANTS
Boynton Beach, Florida



Trail Ridge Landfill, Inc.

Field Destructive Test Log **RETEST**

Sheet No.: 4 of 7

Project: Trail Ridge Landfill

Project No.: FQ2030

Phase: I & II

Location: Jacksonville, Florida

Contractor: National Seal Company

Year: 1992

Sample Data				Field Data						Laboratory Data						
D.S. No.	Seam No. and Location	Date Marked (mo/dy)	Peel (ppi)		Shear (ppi)	Pass	Fail	QA I.D.	Date of Results (mo/dy)	Avg. Peel (ppi)		Avg. Shear (ppi)	Pass	Fail	Iso. Samp. No.	QA I.D.
			Inside	Outside						Inside	Outside					
P-6B	P-21/P-22 237' FROM N.END	MAR 28	109	123	139	PASS		TS	MAR 29	133.9	123.3	169.4	P		-	TS
			105	105	141	PASS										
P-6A	P-21/P-22 200' FROM N.END	MAR 28	119	126	141	PASS		TS	MAR 29	135.4	115.2	169.6	P		-	TS
			115	130	146	PASS										
P-16A	P-38/P-39 275' FROM N.END	MAR 30	110	117	160	PASS		TS	MAR 31	121.3	126.7	157.4	P		-	TS
			117	132	161	PASS										
P-16B	P-38/P-39 250' FROM N.END	MAR 30	108	128	149	PASS		TS	MAR 31	129.6	127.2	161.4	P		-	TS
			126	127	157	PASS										
P-30A	P-59/P-60 209' FROM N.END	APR 6	116	121	160	PASS		J.K.	APR 7	114.5	115.7	157.8	P		-	J.K.
			131	117	154	PASS										
P-30B	P-59/P-60 237' FROM N.END	APR 6	130	116	164	PASS		J.K.	APR 7	117.2	119.7	156.8	P		-	J.K.
			130	124	165	PASS										
P-37A	P-71/P-73 - 171' to 0'	APR - 8	152	151	152	PASS		J.K.	APR 9	124.9	135.0	163.3	P		-	J.K.
			145	147	149	PASS										
P-37B	P-71/P-73 - 191' to 0'	APR - 8	130	116	164	PASS		J.K.	APR 9	125.1	136.7	164.3	P			J.K.
			130	124	165	PASS										



Field Destructive Test Log

Retest

Sheet No. 5 of 7

Project: Trail Ridge Landfill

Project No.: FQ2030

Phase: I & II

Location: Jacksonville, Florida

Contractor: National Seal Company

Year: 1992

Sample Data				Field Data						Laboratory Data						
D.S. No.	Seam No. and Location	Date Marked (mo/dy)	Peel (ppi)		Shear (ppi)	Pass	Fail	QA I.D.	Date of Results (mo/dy)	Avg. Peel (ppi)		Avg. Shear (ppi)	Pass	Fail	Iso. Samp. No.	QA I.D.
			Inside	Outside						Inside	Outside					
P-2-A	P-94/P-95 - 215' to 0'	APR - 8	140	134	152	Pass		J.K.	4-9-92	126.7	126.7	160.3	P.		-	J.K.
P-2-B	P-94/P-95 - 253' to 0'	APR - 8	132	132	149	Pass		J.K.	4-9	128.5	126.4	161.2	P.		-	J.K.
S-78-A	S-151/S-152 - 68' to 0'	4-13-92	113	127	141	Pass		J.K.	4-14	110.6	107.0	151.4	Pass	F.	78-A-1 2-1-1992	J.K.
S-78-B	S-151/S-152 - 159' to 0'	4-13-92	124	111	160	P.		J.K.	4-14	121	117.3	152	P.		-	J.K.
S-79-A	S-152/S-153 - 207' to 0'	4-13-92	128	124	161	P.		J.K.	4-14	125.8	134.8	151.8	P.		-	J.K.
S-79-B	S-152/S-153 - 238' to 0'	4-13-92	114	103	159	P.		J.K.	4-14	114.8	117.3	150.2	Pass	F.	-	J.K.
S-79-A	S-182/S-183 - 34' to 0'	4-13-92	127	109	157	P.		J.K.	4-14	113.2	117.1	152	P.		-	J.K.
S-79-B	S-182/S-183 - 60' to 0'	4-13-92	122	95	161	P.		J.K.	4-14	170.8	171.9	152	P.		-	J.K.
S-79-A	S-182/S-183 - 60' to 0'	4-13-92	115	120	163	P.		J.K.	4-14	127	129	157	P.		-	J.K.
S-79-B	S-182/S-183 - 60' to 0'	4-13-92	127	127	151	P.		J.K.	4-14	127	129	157	P.		-	J.K.
			127	129	157	P.										

Min. Test Requirements: Fusion Peel Adh. 90 ppi.

Min. Test Requirements: Fusion Peel Adh. 90 ppi,
Extrusion Peel Adh. 78 ppi, Bonded Seam Strength (Shear) 132 ppi



GEOSYNTEC CONSULTANTS
Boynton Beach, Florida

Trail Ridge Landfill, Inc.

Field Destructive Test Log

Re test

Sheet No.: 7 of 7

Project: *Trail Ridge Landfill*

Project No.: FQ2030

Phase:

Location: Jacksonville, Florida

Contractor: *National Seal Company*

1992

[illegible]

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06/11/2017

**Min. Test Requirements: Fusion Peel Adh. 90 ppi,
Extrusion Peel Adh. 78 ppi, Bonded Seam Strength (Shear) 132 ppi**

APPENDIX P

LABORATORY DESTRUCTIVE TEST RESULTS

MTL LABORATORY REPORT

SECONDARY GEOMEMBRANE LINER

**POLYETHYLENE GEOMEMBRANE SEAM QUALITY ASSURANCE
TEST RESULTS FOR THE TRAIL RIDGE LANDFILL
SECONDARY LINER, PHASE IA/IB**

REPORT

Prepared for

**Trail Ridge Landfill, Inc.
500 Cypress Creek Road West, Suite 300
Fort Lauderdale, Florida 33309-6127**

by

**GeoSyntec Consultants
Materials Testing Laboratory
3050 S.W. 14th Place, Suite 18
Boynton Beach, Florida 33426**

**GeoSyntec Consultants Project No. FQ2030
RWH:A:/2030SS**

May 1992

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CAVEAT

This testing report applies only to the sample(s) tested and does not necessarily indicate the quality or condition of apparently identical or similar products. As a mutual protection to our clients, the public, and GeoSyntec Consultants, this testing report is submitted and accepted for the exclusive use of the client to whom it is addressed and upon the condition that this report is not used, in whole or in part, in any advertising or publicity matter without prior written authorization from GeoSyntec Consultants. The testing was performed in accordance with general testing industry standards and requirements.

1. INTRODUCTION

The details of samples submitted for testing to GeoSyntec Consultants, Materials Testing Laboratory, 3050 S.W. 14th Place, Suite 18, Boynton Beach, Florida 33426, are as follows:

Submitted by: Mr. Luke DeBock

Client: Waste Management Inc. of Florida

Address: 500 Cypress Creek Road West
Suite 300
Fort Lauderdale, Florida 33309

Project: Trail Ridge Landfill

Materials tested: Polyethylene Geomembrane Seams

2. TEST PROGRAM

The standards used in the geosynthetics testing are described in Attachment A. The test results for the polyethylene geomembrane seams are included in Attachment B.

3. STORAGE AND DISPOSAL OF MATERIALS

Samples will be stored for 30 days from the date of this report and then discarded unless GeoSyntec is informed otherwise.

* * * * *

REPORT REVIEW

REPORT PREPARATION BY:



TAIT ROBB
Manager, Mechanical Laboratory

TECHNICAL REVIEW BY:



RICHARD CHARRON
Quality Control
Division Manager

ATTACHMENT A
STANDARDS USED IN TESTING

STANDARDS USED IN TESTING

Polyethylene Geomembrane Seams

NSF 54/ Seam Peel/Shear Strength -- "Flexible Membrane Liners";
ASTM D4437 "Standard Practice for Determining the Integrity of Field Seams
Used in Joining Flexible Polymeric Sheet Geomembranes"

ATTACHMENT B

POLYETHYLENE GEOMEMBRANE SEAM TEST RESULTS

QUALITY ASSURANCE TESTING GEOMEMBRANE SEAM PEEL AND SHEAR TEST RESULTS

MATERIAL: POLYETHYLENE
SEAM TYPE: DOUBLE TRACK FUSION
DATE RECEIVED: 03/14/92
DATE TESTED: 03/14/92

CLIENT: TRAIL RIDGE LANDFILL SECONDARY LINER, PHASE 1A/1B
PROJECT: MR. LUKE DEBOCK
CONTACT: FQ2030

GEOSYNTEC JOB NO.:

SAMPLE NUMBER	SPECIMEN NUMBER	PEEL						SHEAR					
		THICKNESS (mil)	MAXIMUM TENSION (psi)	MAXIMUM STRESS (psi)	SEAM SEPARATION (%)	LOCUS OF FAILURE	PASS OR FAIL	THICKNESS (mil)	MAXIMUM TENSION (psi)	MAXIMUM STRESS (psi)	ELONGATION AT BREAK (%)	LOCUS OF FAILURE	PASS OR FAIL
GEOSYNTEC:	1.	59.8	128.5	135.2	0	0	NIR	60.3	165.3	NIR	>100	T	NIR
	2.	60.2	163.9	131.2	0	0	NIR	60.3	163.6	NIR	>100	T	NIR
	3.	60.4	104.0	125.2	0	0	NIR	60.2	163.3	NIR	>100	T	NIR
	4.	60.2	132.3	108.5	0	0	NIR	60.3	163.6	NIR	>100	T	NIR
	5.	60.3	104.5	126.8	0	0	NIR	60.4	164.5	NIR	>100	T	NIR
MEAN		60.2	126.6	125.4				60.3	164.1				
S.D.		0.2	24.6	10.2				0.1	0.8				
GEOSYNTEC:	1.	60.9	109.8	144.0	0	0	NIR	61.1	165.6	NIR	>100	B	NIR
	2.	61.8	109.8	136.2	0	0	NIR	60.6	166.5	NIR	>100	B	NIR
	3.	60.8	106.1	130.0	0	0	NIR	60.5	165.3	NIR	>100	B	NIR
	4.	60.6	104.1	131.0	0	0	NIR	61.1	166.0	NIR	>100	B	NIR
	5.	60.6	102.5	124.5	0	0	NIR	61.0	166.5	NIR	>100	B	NIR
MEAN		60.9	106.5	133.1				60.9	166.0				
S.D.		0.5	3.3	7.4				0.3	0.5				
GEOSYNTEC:	1.	61.0	138.8	128.1	0	0	NIR	60.8	166.1	NIR	>100	B	NIR
	2.	61.1	134.7	130.7	0	0	NIR	60.7	165.1	NIR	>100	B	NIR
	3.	60.6	132.1	131.3	0	0	NIR	61.1	165.7	NIR	>100	B	NIR
	4.	60.6	110.2	128.7	0	0	NIR	60.8	164.7	NIR	>100	B	NIR
	5.	60.7	115.5	126.8	0	0	NIR	60.9	166.2	NIR	>100	B	NIR
MEAN		60.8	126.3	126.3				60.8	165.8				
S.D.		0.2	12.6	1.9				0.2	0.6				

QUALITY ASSURANCE TESTING GEOMEMBRANE SEAM PEEL AND SHEAR TEST RESULTS

MATERIAL: POLYETHYLENE
SEAM TYPE: DOUBLE TRACK FUSION
DATE RECEIVED: 03/18/92
DATE TESTED: 03/18/92

CLIENT: TRAIL RIDGE LANDFILL SECONDARY LINER, PHASE 1A/1B
CONTACT: MR. LUKE DEBOCK
GEOSYNTEC JOB NO.: FQ2030

SAMPLE NUMBER	SPECIMEN NUMBER	PEEL										SHEAR					
		THICKNESS (mil)	MAXIMUM TENSION (psi)	MAXIMUM STRESS (psi)	SEAM SEPARATION (%)	LOCUS OF FAILURE	PASS OR FAIL	THICKNESS (mil)	MAXIMUM TENSION (psi)	MAXIMUM STRESS (psi)	ELONGATION AT BREAK (%)	LOCUS OF FAILURE	PASS OR FAIL	THICKNESS (mil)	MAXIMUM TENSION (psi)	MAXIMUM STRESS (psi)	ELONGATION AT BREAK (%)
GEOSYNTEC:	1.	61.3	132.3	94.6	0	B	NIR	61.1	154.0	NIR	>100	B	NIR	61.1	154.0	NIR	>100
	2.	61.3	132.8	98.8	0	B	NIR	61.4	155.0	NIR	>100	B	NIR	61.4	155.0	NIR	>100
	3.	60.9	133.7	130.7	0	B	NIR	61.5	156.0	NIR	>100	B	NIR	61.5	156.0	NIR	>100
	4.	61.2	125.8	99.6	0	B	NIR	61.2	158.0	NIR	>100	B	NIR	61.2	158.0	NIR	>100
	5.	60.9	132.3	106.7	0	B	NIR	61.4	162.0	NIR	>100	B	NIR	61.4	162.0	NIR	>100
CLIENT: DS-S-4 S(S20/S22)	MEAN	61.1	131.4	106.1				61.3	157.2					61.3	157.2		
	S.D.	0.2	3.2	14.4				0.2	3.3					0.2	3.3		
	1.	60.8	131.2	137.2	0	B	NIR	60.8	156.0	NIR	>100	B	NIR	60.8	156.0	NIR	>100
	2.	60.9	124.1	139.8	0	T	NIR	60.9	157.0	NIR	>100	B	NIR	60.9	157.0	NIR	>100
	3.	61.4	129.3	133.8	0	B	NIR	60.7	159.0	NIR	>100	B	NIR	60.7	159.0	NIR	>100
CLIENT: DS-S-6 S(S21/S23)	4.	60.1	128.7	141.8	0	T	NIR	60.9	158.0	NIR	>100	T	NIR	60.9	158.0	NIR	>100
	5.	60.5	132.6	137.2	0	B	NIR	60.9	159.0	NIR	>100	T	NIR	60.9	159.0	NIR	>100
	MEAN	60.7	129.2	139.0				60.8	157.9					60.8	157.9		
	S.D.	0.6	3.2	3.0				0.1	1.3					0.1	1.3		
	1.	60.9	104.2	131.2	0	T	NIR	61.1	157.0	NIR	>100	T	NIR	61.1	157.0	NIR	>100
GEOSYNTEC:	2.	60.9	114.7	124.0	0	T	NIR	60.9	157.0	NIR	>100	B	NIR	60.9	157.0	NIR	>100
	3.	60.9	130.7	127.3	0	B	NIR	60.8	166.0	NIR	>100	B	NIR	60.8	166.0	NIR	>100
	4.	60.7	126.6	105.3	0	B	NIR	60.6	156.0	NIR	>100	B	NIR	60.6	156.0	NIR	>100
	5.	60.5	125.7	129.7	0	B	NIR	60.6	157.0	NIR	>100	B	NIR	60.6	157.0	NIR	>100
	MEAN	60.8	120.8	123.5				60.8	158.6					60.8	158.6		
CLIENT: DS-S-6 S(S23/S24)	S.D.	0.2	11.1	10.5				0.2	4.2					0.2	4.2		
	1.	60.9	128.7	125.6	0	B	NIR	61.4	154.0	NIR	>100	B	NIR	61.4	154.0	NIR	>100
	2.	60.9	136.3	124.6	0	T	NIR	60.8	159.0	NIR	>100	B	NIR	60.8	159.0	NIR	>100
	3.	61.0	133.5	122.7	0	B	NIR	60.7	157.0	NIR	>100	T	NIR	60.7	157.0	NIR	>100
	4.	60.9	133.6	120.6	0	B	NIR	60.9	156.0	NIR	>100	B	NIR	60.9	156.0	NIR	>100
CLIENT: DS-S-7 S(S26/S27)	5.	60.8	134.7	124.8	0	T	NIR	61.1	155.0	NIR	>100	B	NIR	61.1	155.0	NIR	>100
	MEAN	60.9	133.8	123.7				61.0	156.6					61.0	156.6		
	S.D.	0.1	3.4	2.0				0.3	2.1					0.3	2.1		
	1.	61.6	100.7	137.1	0	T	NIR	61.8	155.0	NIR	>100	T	NIR	61.8	155.0	NIR	>100
	2.	61.8	99.1	131.3	0	T	NIR	62.0	161.0	NIR	>100	T	NIR	62.0	161.0	NIR	>100
GEOSYNTEC:	3.	61.8	100.5	130.6	0	T	NIR	61.8	166.0	NIR	>100	T	NIR	61.8	166.0	NIR	>100
	4.	61.6	104.5	119.6	0	T	NIR	61.9	154.0	NIR	>100	T	NIR	61.9	154.0	NIR	>100
	5.	61.8	92.5	114.1	0	T	NIR	61.9	159.0	NIR	>100	T	NIR	61.9	159.0	NIR	>100
	MEAN	61.7	96.6	126.5				61.9	157.0					61.9	157.0		
	S.D.	0.1	4.4	9.4				0.1	2.9					0.1	2.9		
CLIENT: DS-S-8 S(S27/S29)	1.	61.6	100.7	137.1	0	T	NIR	61.8	155.0	NIR	>100	T	NIR	61.8	155.0	NIR	>100
	2.	61.8	99.1	131.3	0	T	NIR	62.0	161.0	NIR	>100	T	NIR	62.0	161.0	NIR	>100
	3.	61.8	100.5	130.6	0	T	NIR	61.8	166.0	NIR	>100	T	NIR	61.8	166.0	NIR	>100
	4.	61.6	104.5	119.6	0	T	NIR	61.9	154.0	NIR	>100	T	NIR	61.9	154.0	NIR	>100
	5.	61.8	92.5	114.1	0	T	NIR	61.9	159.0	NIR	>100	T	NIR	61.9	159.0	NIR	>100
CLIENT: DS-S-8 S(S27/S29)	MEAN	61.7	96.6	126.5				61.9	157.0					61.9	157.0		
	S.D.	0.1	4.4	9.4				0.1	2.9					0.1	2.9		

QUALITY ASSURANCE TESTING GEOMEMBRANE SEAM PEEL AND SHEAR TEST RESULTS

CLIENT:
PROJECT:
CONTACT:
GEOSYNTEC JOB NO.:

TRAIL RIDGE LANDFILL SECONDARY LINER, PHASE 1A/1B
MR. LUKE DEBOCK
FQ2030

MATERIAL: POLYETHYLENE
SEAM TYPE: DOUBLE TRACK FUSION
DATE RECEIVED: 03/18/92
DATE TESTED: 03/18/92

SAMPLE NUMBER	SPECIMEN NUMBER	PEEL										SHEAR											
		THICKNESS (mil)		MAXIMUM TENSION (psi)		MAXIMUM STRESS (psi)		SEAM SEPARATION (%)		LOCUS OF FAILURE		PASS OR FAIL	THICKNESS (mil)		MAXIMUM TENSION (psi)		MAXIMUM STRESS (psi)		ELONGATION AT BREAK (%)		LOCUS OF FAILURE		PASS OR FAIL
GEOSYNTEC: CLIENT: DS-S-9 S(G28/S28)	1.	60.7	60.7	106.8	123.6	NIR	NIR	0	0	T	T	NIR	NIR	60.8	152.0	NIR	NIR	>100	>100	B	B	NIR	
	2.	60.7	60.7	117.5	121.5			0	0	B	B			60.7	156.0			>100	>100	B	B		
	3.	61.1	61.0	117.2	124.0			0	0	B	B			61.0	155.0			>100	>100	B	B		
	4.	61.1	61.1	106.8	123.0			0	0	T	T			60.9	153.0			>100	>100	T	T		
	5.	61.1	61.1	121.6	118.3			0	0	T	T			61.1	154.0			>100	>100	T	T		
	MEAN	60.9	60.9	114.0	122.1									60.9	154.4								
	S.D.	0.2	0.2	8.8	2.3									0.2	2.3								
GEOSYNTEC: CLIENT: DS-S-10 S(G28/S30)	1.	60.8	60.9	98.9	135.8	NIR	NIR	0	0	T	T	NIR	NIR	60.5	153.0	NIR	NIR	>100	>100	T	T	NIR	
	2.	60.8	61.0	105.8	135.1			0	0	T	T			60.7	155.0			>100	>100	T	T		
	3.	60.7	60.7	104.1	129.2			0	0	T	T			60.6	158.0			>100	>100	B	B		
	4.	60.8	60.8	102.0	114.2			0	0	T	T			60.3	156.0			>100	>100	B	B		
	5.	60.8	60.8	110.8	131.7			0	0	T	T			60.7	156.0			>100	>100	B	B		
	MEAN	60.7	60.8	104.3	129.2									60.6	155.6								
	S.D.	0.1	0.1	4.4	8.8									0.2	1.8								

QUALITY ASSURANCE TESTING GEOMEMBRANE SEAM PEEL AND SHEAR TEST RESULTS

CLIENT:
 PROJECT:
 CONTACT:
 GEOSYNTEC JOB NO.:

TRAIL RIDGE LANDFILL SECONDARY LINER, PHASE 1A/1B
 MR. LUKE DEBOCK
 FQ2030

MATERIAL: POLYETHYLENE
 SEAM TYPE: DOUBLE TRACK FUSION
 DATE RECEIVED: 03/19/92
 DATE TESTED: 03/19/92

SAMPLE NUMBER	SPECIMEN NUMBER	PEEL										SHEAR				
		THICKNESS (mil)	MAXIMUM TENSION (psi)	MAXIMUM STRESS (psi)	SEAM SEPARATION (%)	LOCUS OF FAILURE	PASS OR FAIL	THICKNESS (mil)	MAXIMUM TENSION (psi)	MAXIMUM STRESS (psi)	ELONGATION AT BREAK (%)	LOCUS OF FAILURE	PASS OR FAIL	THICKNESS (mil)	MAXIMUM TENSION (psi)	MAXIMUM STRESS (psi)
GEOSYNTEC: CLIENT: DS-S-11 S(S31/S32)	1.	61.7	122.0	137.8	0	T	NIR	62.6	151.0	NIR	>100	T	NIR	62.6	151.0	NIR
	2.	63.0	112.7	125.1	0	T	NIR	61.6	154.0	NIR	>100	B	NIR	61.6	154.0	NIR
	3.	62.9	114.7	136.2	0	T	NIR	62.0	162.0	NIR	>100	T	NIR	62.0	162.0	NIR
	4.	61.8	118.0	126.2	0	T	NIR	61.7	155.0	NIR	>100	T	NIR	61.7	155.0	NIR
	5.	62.5	111.1	120.1	0	T	NIR	61.8	156.0	NIR	>100	T	NIR	61.8	156.0	NIR
	MEAN	62.4	115.7	126.1				61.9	153.8					61.9	153.8	
GEOSYNTEC: CLIENT: DS-S-12 S(S31/S33)	1.	61.6	112.2	92.5	0	B	NIR	61.4	156.0	NIR	>100	T	NIR	61.4	156.0	NIR
	2.	61.6	126.0	127.6	0	B	NIR	61.6	162.0	NIR	>100	B	NIR	61.6	162.0	NIR
	3.	61.6	115.7	118.6	0	B	NIR	61.8	164.0	NIR	>100	B	NIR	61.8	164.0	NIR
	4.	61.7	128.7	126.2	0	B	NIR	61.6	160.0	NIR	>100	T	NIR	61.6	160.0	NIR
	5.	61.8	129.3	125.8	0	B	NIR	61.7	157.0	NIR	>100	T	NIR	61.7	157.0	NIR
	MEAN	61.7	122.4	118.1				61.6	156.8					61.6	156.8	
GEOSYNTEC: CLIENT: DS-S-13 S(S33/S34)	1.	61.7	120.2	86.6	0	B	NIR	61.5	158.0	NIR	>100	B	NIR	61.5	158.0	NIR
	2.	61.8	119.5	88.4	0	B	NIR	61.6	161.0	NIR	>100	B	NIR	61.6	161.0	NIR
	3.	61.5	113.6	83.0	0	B	NIR	61.8	159.0	NIR	>100	B	NIR	61.8	159.0	NIR
	4.	61.4	111.3	85.1	0	T	NIR	62.2	159.0	NIR	>100	B	NIR	62.2	159.0	NIR
	5.	61.7	101.3	85.1	0	T	NIR	61.8	158.0	NIR	>100	B	NIR	61.8	158.0	NIR
	MEAN	61.6	113.2	85.6				61.8	159.0					61.8	159.0	
GEOSYNTEC: CLIENT: DS-S-14 S(S34/S36)	1.	60.3	128.5	118.0	0	B	NIR	60.3	154.0	NIR	>100	T	NIR	60.3	154.0	NIR
	2.	60.6	125.0	117.8	0	T	NIR	60.5	160.0	NIR	>100	B	NIR	60.5	160.0	NIR
	3.	60.9	117.5	111.6	0	B	NIR	60.7	162.0	NIR	>100	B	NIR	60.7	162.0	NIR
	4.	60.9	125.1	120.3	0	B	NIR	60.7	159.0	NIR	>100	T	NIR	60.7	159.0	NIR
	5.	60.9	115.8	115.8	0	T	NIR	60.9	159.0	NIR	>100	T	NIR	60.9	159.0	NIR
	MEAN	60.7	122.4	116.7				60.6	158.8					60.6	158.8	
GEOSYNTEC: CLIENT: DS-S-15 S(S36/S37)	1.	61.3	137.8	125.7	0	B	NIR	60.9	158.0	NIR	>100	T	NIR	60.9	158.0	NIR
	2.	61.3	140.0	102.7	0	T	NIR	61.0	160.0	NIR	>100	T	NIR	61.0	160.0	NIR
	3.	61.1	136.0	128.3	0	B	NIR	60.9	158.0	NIR	>100	T	NIR	60.9	158.0	NIR
	4.	61.2	137.1	116.3	0	T	NIR	61.0	157.0	NIR	>100	T	NIR	61.0	157.0	NIR
	5.	61.3	110.7	104.5	0	T	NIR	60.8	155.0	NIR	>100	T	NIR	60.8	155.0	NIR
	MEAN	61.2	132.7	115.6				60.9	156.2					60.9	156.2	
		0.1	12.4	11.8				0.1	1.1					0.1	1.1	

QUALITY ASSURANCE TESTING GEOMEMBRANE SEAM PEEL AND SHEAR TEST RESULTS

CLIENT:
 PROJECT:
 CONTACT:
 GEOSYNTEC JOB NO.:

TRAIL RIDGE LANDFILL SECONDARY LINER, PHASE 1A/1B
 MR. LUKE DEBOCK
 FQ2030

MATERIAL:
 SEAM TYPE:
 DATE RECEIVED:
 DATE TESTED:

POLYETHYLENE
 DOUBLE TRACK FUSION
 03/19/92
 03/19/92

SAMPLE NUMBER	SPECIMEN NUMBER	PEEL										SHEAR							
		THICKNESS (mil)		MAXIMUM TENSION (psi)		MAXIMUM STRESS (psi)		SEAM SEPARATION (%)		LOCUS OF FAILURE		PASS OR FAIL	THICKNESS (mil)	MAXIMUM TENSION (psi)	MAXIMUM STRESS (psi)	ELONGATION AT BREAK (%)	LOCUS OF FAILURE	PASS OR FAIL	
GEOSYNTEC: CLIENT: DS-S-16 S(S37/S38)	1.	60.6	60.6	128.5	93.3	N/R	N/R	0	0	B	B	N/R	60.7	156.0	N/R	>100	T	N/R	
	2.	60.6	60.6	130.7	94.1			0	0	B	B		60.7	161.0		>100	B		
	3.	60.5	60.5	127.1	85.1			0	0	B	B		60.5	159.0		>100	T		
	4.	60.5	60.5	121.6	84.4			0	0	B	B		60.1	157.0		>100	T		
	5.	60.1	60.1	126.7	92.5			0	0	B	B		60.3	161.0		>100	T		
	MEAN S.D.	60.5 0.2	60.5 0.2	126.9 3.4	89.9 4.7								60.5 0.3	158.8 2.3					
GEOSYNTEC: CLIENT: DS-S-17 S(S38/S40)	1.	61.5	61.5	127.7	131.3	N/R	N/R	0	0	B	T	N/R	61.1	163.0	N/R	>100	T	N/R	
	2.	61.8	61.8	112.0	132.1			0	0	T	B		61.6	165.0		>100	T		
	3.	61.6	61.6	104.2	116.7			0	0	T	B		61.6	159.0		>100	T		
	4.	61.7	61.7	104.3	124.2			0	0	T	B		61.4	159.0		>100	T		
	5.	61.5	61.5	121.2	131.6			0	0	B	T		61.4	159.0		>100	T		
	MEAN S.D.	61.6 0.1	61.6 0.1	113.9 10.4	127.2 6.7								61.4 0.2	161.0 2.3					
GEOSYNTEC: CLIENT: DS-S-18 S(S39/S41)	1.	61.6	61.6	136.1	135.6	N/R	N/R	0	0	B	T	N/R	61.7	163.0	N/R	>100	T	N/R	
	2.	61.6	61.6	135.7	126.5			0	0	B	T		61.8	160.0		>100	T		
	3.	61.8	61.8	135.8	131.8			0	0	B	T		61.4	162.0		>100	T		
	4.	61.8	61.8	129.2	120.6			0	0	T	T		61.5	160.0		>100	T		
	5.	61.8	61.8	131.3	129.7			0	0	B	T		61.6	164.0		>100	T		
	MEAN S.D.	61.7 0.1	61.7 0.1	133.6 3.2	128.8 5.7								61.6 0.2	161.6 1.8					

QUALITY ASSURANCE TESTING GEOMEMBRANE SEAM PEEL AND SHEAR TEST RESULTS

MATERIAL: POLYETHYLENE
SEAM TYPE: DOUBLE TRACK FUSION
DATE RECEIVED: 03/20/92
DATE TESTED: 03/20/92

CLIENT: TRAIL RIDGE LANDFILL SECONDARY LINER, PHASE 1A/1B
CONTACT: MR. LUKE DEBOCK
GEOSYNTEC JOB NO.: FQ2030

SAMPLE NUMBER	SPECIMEN NUMBER	PEEL										SHEAR				
		THICKNESS (mil)	MAXIMUM TENSION (psi)	MAXIMUM STRESS (psi)	SEAM SEPARATION (%)	LOCUS OF FAILURE	PASS OR FAIL	THICKNESS (mil)	MAXIMUM TENSION (psi)	MAXIMUM STRESS (psi)	ELONGATION AT BREAK (%)	LOCUS OF FAILURE	PASS OR FAIL	THICKNESS (mil)	MAXIMUM TENSION (psi)	MAXIMUM STRESS (psi)
GEOSYNTEC: CLIENT: DS-S-13A S(S33/S34)	1.	61.4	122.2	121.0	N/R	N/R	N/R	61.7	158.0	N/R	>100	B	N/R	61.7	158.0	N/R
	2.	61.5	128.2	124.0	N/R	T	T	61.5	163.0	N/R	>100	B	N/R	61.5	163.0	N/R
	3.	61.4	127.7	120.4	N/R	T	T	61.4	164.0	N/R	>100	B	N/R	61.4	164.0	N/R
	4.	61.6	99.6	124.8	N/R	T	T	61.6	160.0	N/R	>100	B	N/R	61.6	160.0	N/R
	5.	61.5	100.7	92.6	N/R	T	T	61.4	157.0	N/R	>100	T	N/R	61.4	157.0	N/R
GEOSYNTEC: CLIENT: DS-S-13B S(S33/S34)	MEAN	61.5	115.7	116.6				61.5	160.4					61.5	160.4	
	S.D.	0.1	14.4	13.5				0.1	3.0					0.1	3.0	
	1.	61.6	128.4	94.5	N/R	B	B	61.6	168.0	N/R	>100	B	N/R	61.6	168.0	N/R
	2.	61.5	127.2	96.4	N/R	B	B	61.6	161.0	N/R	>100	B	N/R	61.6	161.0	N/R
	3.	61.8	125.4	85.6	N/R	B	B	61.6	162.0	N/R	>100	B	N/R	61.6	162.0	N/R
GEOSYNTEC: CLIENT: DS-S-16A S(S37/S38)	4.	61.8	123.5	90.1	N/R	B	B	61.8	162.0	N/R	>100	B	N/R	61.8	162.0	N/R
	5.	61.8	119.6	89.3	N/R	B	B	61.9	162.0	N/R	>100	B	N/R	61.9	162.0	N/R
	MEAN	61.7	124.8	91.2				61.7	161.0					61.7	161.0	
	S.D.	0.1	3.6	4.3				0.1	1.7					0.1	1.7	
	1.	60.5	135.4	97.1	N/R	B	B	60.6	164.0	N/R	>100	B	N/R	60.6	164.0	N/R
GEOSYNTEC: CLIENT: DS-S-16B S(S37/S38)	2.	60.4	137.6	94.2	N/R	B	B	60.6	162.0	N/R	>100	B	N/R	60.6	162.0	N/R
	3.	60.8	129.8	93.6	N/R	B	B	60.6	161.0	N/R	>100	T	N/R	60.6	161.0	N/R
	4.	60.5	136.5	90.7	N/R	B	B	60.6	160.0	N/R	>100	T	N/R	60.6	160.0	N/R
	5.	61.0	123.4	119.8	N/R	B	T	60.9	160.0	N/R	>100	T	N/R	60.9	160.0	N/R
	MEAN	60.6	132.5	99.1				60.7	161.4					60.7	161.4	
GEOSYNTEC: CLIENT: DS-S-16B S(S37/S38)	S.D.	0.3	5.8	11.8				0.1	1.7					0.1	1.7	
	1.	60.9	132.5	97.8	N/R	B	B	60.3	157.0	N/R	>100	T	N/R	60.3	157.0	N/R
	2.	60.9	132.4	100.3	N/R	B	B	60.7	160.0	N/R	>100	B	N/R	60.7	160.0	N/R
	3.	60.9	139.3	97.9	N/R	B	B	60.7	160.0	N/R	>100	B	N/R	60.7	160.0	N/R
	4.	60.8	129.8	99.6	N/R	B	B	60.9	158.0	N/R	>100	T	N/R	60.9	158.0	N/R
GEOSYNTEC: CLIENT: DS-S-16B S(S37/S38)	5.	61.5	135.5	115.9	N/R	B	B	60.8	159.0	N/R	>100	T	N/R	60.8	159.0	N/R
	MEAN	61.0	133.9	102.3				60.7	158.8					60.7	158.8	
	S.D.	0.3	3.6	7.7				0.2	1.3					0.2	1.3	
	1.	61.5	102.5	123.9	N/R	T	T	61.7	163.0	N/R	>100	T	N/R	61.7	163.0	N/R
	2.	61.5	120.0	124.8	N/R	B	T	61.8	165.0	N/R	>100	T	N/R	61.8	165.0	N/R
GEOSYNTEC: CLIENT: DS-S-16A S(S34/S34)	3.	61.5	108.0	121.4	N/R	T	T	61.5	163.0	N/R	>100	T	N/R	61.5	163.0	N/R
	4.	61.4	108.6	123.1	N/R	B	T	61.8	164.0	N/R	>100	T	N/R	61.8	164.0	N/R
	5.	61.3	114.7	129.8	N/R	B	B	61.8	165.0	N/R	>100	T	N/R	61.8	165.0	N/R
	MEAN	61.4	110.8	124.6				61.7	164.0					61.7	164.0	
	S.D.	0.1	8.7	3.1				0.1	1.0					0.1	1.0	

NOTE: See Technical Notes page for explanation of abbreviations.

QUALITY ASSURANCE TESTING GEOMEMBRANE SEAM PEEL AND SHEAR TEST RESULTS

 CLIENT:
 PROJECT:
 CONTACT:
 GEOSYNTEC JOB NO.:

 TRAIL RIDGE LANDFILL SECONDARY LINER, PHASE 1A/1B
 MR. LUKE DEBOCK
 F02030

 MATERIAL:
 SEAM TYPE:
 DATE RECEIVED:
 DATE TESTED:

 POLYETHYLENE
 DOUBLE TRACK FUSION
 03/20/92
 03/20/92

SAMPLE NUMBER		PEEL														SHEAR									
		SPECIMEN NUMBER		THICKNESS (mil)		MAXIMUM TENSION (psi)		MAXIMUM STRESS (psi)		SEAM SEPARATION (%)		LOCUS OF FAILURE		PASS OR FAIL		THICKNESS (mil)		MAXIMUM TENSION (psi)		MAXIMUM STRESS (psi)		ELONGATION AT BREAK (%)		LOCUS OF FAILURE	
GEOSYNTEC: CLIENT: DS-S-188 S(S41/S42)	1.	61.2	61.2	119.8	122.6	NIR	NIR	0	0	0	B	T	NIR	NIR	61.6	187.0	NIR	NIR	>100	>100	T	T	NIR	NIR	
	2.	61.0	61.0	118.7	114.8			0	0	0	B	T			60.9	169.0			>100	>100	T	T			
	3.	61.4	61.4	121.0	129.6			0	0	0	B	B			61.2	186.0			>100	>100	T	T			
	4.	61.3	61.3	124.1	121.9			0	0	0	B	T			61.3	181.0			>100	>100	T	T			
	5.	61.4	61.4	115.7	112.8			0	0	0	T	T			60.9	164.0			>100	>100	T	T			
	MEAN	61.3	61.3	119.8	120.3										61.2	185.4									
S.D.	0.2	0.2	3.1	6.7										0.3	3.0										
GEOSYNTEC: CLIENT: DS-S-20 S(S42/S43)	1.	61.0	61.0	131.4	124.4	NIR	NIR	0	0	0	B	T	NIR	NIR	61.4	156.0	NIR	NIR	>100	>100	T	T	NIR	NIR	
	2.	60.9	60.9	110.5	135.7			0	0	0	T	T			61.0	181.0			>100	>100	B	B			
	3.	61.3	61.3	128.8	131.5			0	0	0	B	T			61.1	160.0			>100	>100	T	T			
	4.	61.2	61.2	121.8	135.5			0	0	0	B	T			61.2	180.0			>100	>100	T	T			
	5.	61.6	61.6	128.9	118.8			0	0	0	B	T			61.4	181.0			>100	>100	T	T			
	MEAN	61.2	61.2	124.4	129.2										61.2	159.6									
S.D.	0.3	0.3	8.6	7.4										0.2	2.1										
GEOSYNTEC: CLIENT: DS-S-21 S(S43/S44)	1.	60.7	60.7	123.9	128.9	NIR	NIR	0	0	0	B	T	NIR	NIR	60.0	155.0	NIR	NIR	>100	>100	B	T	NIR	NIR	
	2.	60.6	60.6	121.6	126.0			0	0	0	B	T			60.3	157.0			>100	>100	T	T			
	3.	60.8	60.8	119.4	125.5			0	0	0	B	T			60.9	158.0			>100	>100	T	T			
	4.	60.8	60.8	120.7	124.4			0	0	0	B	T			60.7	155.0			>100	>100	T	T			
	5.	60.2	60.2	124.5	125.0			0	0	0	B	T			60.5	160.0			>100	>100	T	T			
	MEAN	60.8	60.8	122.0	126.0										60.5	157.0									
S.D.	0.2	0.2	2.1	1.7										0.3	2.1										
GEOSYNTEC: CLIENT: DS-S-22 S(S45/S47)	1.	61.4	61.4	127.9	120.9	NIR	NIR	0	0	0	B	B	NIR	NIR	61.3	157.0	NIR	NIR	>100	>100	T	T	NIR	NIR	
	2.	61.5	61.5	121.7	120.9			0	0	0	B	B			61.7	156.0			>100	>100	T	T			
	3.	61.4	61.4	116.2	117.2			0	0	0	B	B			61.8	161.0			>100	>100	B	B			
	4.	61.5	61.5	99.9	121.8			0	0	0	T	T			61.6	163.0			>100	>100	T	T			
	5.	61.4	61.4	124.0	120.2			0	0	0	B	T			61.5	156.0			>100	>100	T	T			
	MEAN	61.4	61.4	117.9	120.2										61.6	158.6									
S.D.	0.1	0.1	10.9	1.8										0.2	3.2										
GEOSYNTEC: CLIENT: DS-S-23 S(S47/S48)	1.	61.3	61.3	133.7	109.5	NIR	NIR	0	0	0	B	T	NIR	NIR	61.2	155.0	NIR	NIR	>100	>100	T	T	NIR	NIR	
	2.	61.2	61.2	134.1	116.9			0	0	0	B	T			61.2	159.0			>100	>100	T	T			
	3.	61.4	61.4	130.2	114.9			0	0	0	B	T			61.2	163.0			>100	>100	T	T			
	4.	61.9	61.9	129.2	120.5			0	0	0	B	T			61.9	181.0			>100	>100	B	B			
	5.	61.4	61.4	131.4	109.6			0	0	0	B	T			61.8	159.0			>100	>100	T	T			
	MEAN	61.4	61.4	131.7	114.3										61.5	169.4									
S.D.	0.3	0.3	2.1	4.8										0.4	3.0										

QUALITY ASSURANCE TESTING

GEOMEMBRANE SEAM PEEL AND SHEAR TEST RESULTS

CLIENT:
PROJECT:
CONTACT:
GEOSYNTEC JOB NO.:

TRAIL RIDGE LANDFILL SECONDARY LINER, PHASE 1A/1B
MR. LUKE DEBOCK
FQ2030

MATERIAL:
SEAM TYPE:
DATE RECEIVED:
DATE TESTED:

**POLYETHYLENE
EXTRUSION FILLET**
03/21/92
03/21/92

[illegible]

NOTE: See Technical Notes page for explanation of abbreviations.

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QUALITY ASSURANCE TESTING GEOMEMBRANE SEAM PEEL AND SHEAR TEST RESULTS

CLIENT: TRAIL RIDGE LANDFILL SECONDARY LINER, PHASE 1A/1B
PROJECT: MR. LUKE DEBOCK
CONTACT: FQ2030
GEOSYNTEC JOB NO.:

MATERIAL: POLYETHYLENE
SEAM TYPE: DOUBLE TRACK FUSION
DATE RECEIVED: 03/24/92
DATE TESTED: 03/24/92

SAMPLE NUMBER	SPECIMEN NUMBER	PEEL										SHEAR				
		THICKNESS (mil)	MAXIMUM TENSION (psi)	MAXIMUM STRESS (psi)	SEAM SEPARATION (%)	LOCUS OF FAILURE	PASS OR FAIL	THICKNESS (mil)	MAXIMUM TENSION (psi)	MAXIMUM STRESS (psi)	ELONGATION AT BREAK (%)	LOCUS OF FAILURE	PASS OR FAIL	THICKNESS (mil)	MAXIMUM TENSION (psi)	MAXIMUM STRESS (psi)
GEOSYNTEC: CLIENT: DS-S-18B1 S(S33/S34)	1.	61.5	125.0	86.4	0	0	NIR	61.5	180.0	NIR	>100	B	NIR	61.5	180.0	NIR
	2.	62.2	115.1	83.4	0	0	NIR	61.5	160.2	NIR	>100	B	NIR	61.5	160.2	NIR
	3.	62.2	115.3	84.9	0	0	NIR	61.4	180.8	NIR	>100	B	NIR	61.4	180.8	NIR
	4.	61.6	122.8	117.0	0	0	NIR	62.2	180.3	NIR	>100	B	NIR	62.2	180.3	NIR
	5.	62.4	121.8	113.7	0	0	NIR	62.4	181.3	NIR	>100	B	NIR	62.4	181.3	NIR
GEOSYNTEC: CLIENT: DS-S-26 S(S49/S52)	MEAN	62.0	120.0	97.1	0	0	NIR	61.8	180.5	NIR				61.8	180.5	NIR
	S.D.	0.4	4.5	16.8	0	0	NIR	0.5	0.5	NIR				0.5	0.5	NIR
	1.	61.5	118.9	103.6	0	0	NIR	61.4	159.0	NIR	>100	T	NIR	61.4	159.0	NIR
	2.	61.8	108.5	118.0	0	0	NIR	61.6	165.0	NIR	>100	T	NIR	61.6	165.0	NIR
	3.	61.8	131.0	100.3	0	0	NIR	61.8	165.0	NIR	>100	B	NIR	61.8	165.0	NIR
GEOSYNTEC: CLIENT: DS-S-26 S(S52/S53)	4.	62.3	103.1	123.4	0	0	NIR	61.9	185.0	NIR	>100	T	NIR	61.9	185.0	NIR
	5.	62.4	113.8	118.8	0	0	NIR	62.0	185.0	NIR	>100	T	NIR	62.0	185.0	NIR
	MEAN	62.0	115.1	112.4	0	0	NIR	61.7	183.8	NIR				61.7	183.8	NIR
	S.D.	0.4	10.7	10.0	0	0	NIR	0.2	2.7	NIR				0.2	2.7	NIR
	1.	60.9	117.5	128.6	0	0	NIR	60.9	183.0	NIR	>100	T	NIR	60.9	183.0	NIR
GEOSYNTEC: CLIENT: DS-S-27 S(S53/S55)	2.	61.0	122.6	119.2	0	0	NIR	60.9	182.0	NIR	>100	T	NIR	60.9	182.0	NIR
	3.	61.4	107.8	122.6	0	0	NIR	61.3	186.0	NIR	>100	T	NIR	61.3	186.0	NIR
	4.	61.0	123.9	131.9	0	0	NIR	61.3	189.0	NIR	>100	B	NIR	61.3	189.0	NIR
	5.	61.4	98.0	129.2	0	0	NIR	61.2	166.0	NIR	>100	T	NIR	61.2	166.0	NIR
	MEAN	61.1	114.0	126.3	0	0	NIR	61.1	185.2	NIR				61.1	185.2	NIR
GEOSYNTEC: CLIENT: DS-S-27 S(S55/S56)	S.D.	0.2	10.9	5.2	0	0	NIR	0.2	2.8	NIR				0.2	2.8	NIR
	1.	58.8	133.4	120.7	0	0	NIR	60.7	158.0	NIR	>100	T	NIR	60.7	158.0	NIR
	2.	58.8	120.3	117.1	0	0	NIR	60.4	181.0	NIR	>100	T	NIR	60.4	181.0	NIR
	3.	58.9	117.5	128.6	0	0	NIR	60.9	181.0	NIR	>100	T	NIR	60.9	181.0	NIR
	4.	58.9	114.5	121.8	0	0	NIR	60.9	185.0	NIR	>100	T	NIR	60.9	185.0	NIR
GEOSYNTEC: CLIENT: DS-S-28 S(S55/S56)	5.	58.9	118.4	128.7	0	0	NIR	60.9	183.0	NIR	>100	T	NIR	60.9	183.0	NIR
	MEAN	58.9	120.8	123.3	0	0	NIR	60.8	181.8	NIR				60.8	181.8	NIR
	S.D.	0.1	7.3	5.1	0	0	NIR	0.2	2.6	NIR				0.2	2.6	NIR
	1.	59.9	97.0	121.6	0	0	NIR	62.2	157.0	NIR	>100	T	NIR	62.2	157.0	NIR
	2.	59.9	100.6	105.5	0	50	NIR	62.4	186.0	NIR	>100	T	NIR	62.4	186.0	NIR
GEOSYNTEC: CLIENT: DS-S-28 S(S55/S56)	3.	60.3	135.2	121.9	0	0	NIR	62.5	185.0	NIR	>100	T	NIR	62.5	185.0	NIR
	4.	60.0	121.1	128.7	0	0	NIR	62.3	186.0	NIR	>100	T	NIR	62.3	186.0	NIR
	5.	59.6	123.3	130.9	0	0	NIR	62.4	182.0	NIR	>100	T	NIR	62.4	182.0	NIR
	MEAN	59.9	115.4	121.7	0	0	NIR	62.4	183.0	NIR				62.4	183.0	NIR
	S.D.	0.3	16.2	10.0	0	0	NIR	0.1	3.7	NIR				0.1	3.7	NIR

QUALITY ASSURANCE TESTING GEOMEMBRANE SEAM PEEL AND SHEAR TEST RESULTS

CLIENT:
 PROJECT:
 CONTACT:
 GEOSYNTEC JOB NO.:

TRAIL RIDGE LANDFILL SECONDARY LINER, PHASE 1A/1B
 MR. LUKE DEBOCK
 FQ2030

MATERIAL:
 SEAM TYPE:
 DATE RECEIVED:
 DATE TESTED:

POLYETHYLENE
 DOUBLE TRACK FUSION
 03/24/82
 03/24/82

SAMPLE NUMBER	SPECIMEN NUMBER	PEEL										SHEAR				
		THICKNESS (mil)	MAXIMUM TENSION (psi)	MAXIMUM STRESS (psi)	SEAM SEPARATION (%)	LOCUS OF FAILURE	PASS OR FAIL	THICKNESS (mil)	MAXIMUM TENSION (psi)	MAXIMUM STRESS (psi)	ELONGATION AT BREAK (%)	LOCUS OF FAILURE	PASS OR FAIL	THICKNESS (mil)	MAXIMUM TENSION (psi)	MAXIMUM STRESS (psi)
GEOSYNTEC: CLIENT: DS-S-29 S(558/557)	1.	59.9	59.9	135.9	115.3	NIR	NIR	59.9	155.0	NIR	>100	T	NIR	59.9	155.0	NIR
	2.	59.9	59.9	132.8	111.5	NIR	NIR	60.5	159.0	NIR	>100	T	NIR	60.5	159.0	NIR
	3.	60.8	60.8	139.5	116.8	NIR	NIR	61.1	158.0	NIR	>100	T	NIR	61.1	158.0	NIR
	4.	60.6	60.6	135.3	117.3	NIR	NIR	60.6	158.0	NIR	>100	T	NIR	60.6	158.0	NIR
	5.	60.7	60.7	134.3	116.5	NIR	NIR	60.3	160.0	NIR	>100	T	NIR	60.3	160.0	NIR
	MEAN	60.4	60.4	135.6	115.6			60.5	158.0					60.5	158.0	
GEOSYNTEC: CLIENT: DS-S-30 S(558/559)	1.	58.2	58.2	98.3	127.6	NIR	NIR	58.6	149.0	NIR	>100	T	NIR	58.6	149.0	NIR
	2.	58.8	58.8	101.7	137.5	NIR	NIR	58.6	154.0	NIR	>100	T	NIR	58.6	154.0	NIR
	3.	58.9	58.9	96.9	135.1	NIR	NIR	58.4	160.0	NIR	>100	T	NIR	58.4	160.0	NIR
	4.	58.4	58.4	120.6	127.9	NIR	NIR	58.6	159.0	NIR	>100	T	NIR	58.6	159.0	NIR
	5.	59.5	59.5	110.8	131.4	NIR	NIR	60.0	160.0	NIR	>100	T	NIR	60.0	160.0	NIR
	MEAN	58.0	58.0	105.7	131.9			58.6	156.4					58.6	156.4	
GEOSYNTEC: CLIENT: DS-S-31 S(559/560)	1.	59.8	59.8	135.5	117.1	NIR	NIR	61.9	159.0	NIR	>100	T	NIR	61.9	159.0	NIR
	2.	61.6	61.6	135.7	118.1	NIR	NIR	61.9	159.0	NIR	>100	T	NIR	61.9	159.0	NIR
	3.	62.0	62.0	114.4	127.3	NIR	NIR	61.7	160.0	NIR	>100	T	NIR	61.7	160.0	NIR
	4.	61.8	61.8	100.2	117.0	NIR	NIR	61.4	161.0	NIR	>100	T	NIR	61.4	161.0	NIR
	5.	61.4	61.4	121.1	104.2	NIR	NIR	61.6	160.0	NIR	>100	T	NIR	61.6	160.0	NIR
	MEAN	61.3	61.3	121.4	116.7			61.7	159.6					61.7	159.6	
GEOSYNTEC: CLIENT: DS-S-33 S(563/564)	1.	61.2	61.2	124.6	134.9	NIR	NIR	61.6	158.0	NIR	>100	T	NIR	61.6	158.0	NIR
	2.	61.0	61.0	104.6	132.8	NIR	NIR	61.0	155.0	NIR	>100	T	NIR	61.0	155.0	NIR
	3.	61.8	61.8	108.7	133.7	NIR	NIR	61.1	157.0	NIR	>100	T	NIR	61.1	157.0	NIR
	4.	61.8	61.8	128.4	136.0	NIR	NIR	61.1	159.0	NIR	>100	T	NIR	61.1	159.0	NIR
	5.	61.9	61.9	105.2	136.0	NIR	NIR	61.2	157.0	NIR	>100	T	NIR	61.2	157.0	NIR
	MEAN	61.5	61.5	114.3	134.7			61.2	156.8					61.2	156.8	
	1.	61.2	61.2	124.6	134.9	NIR	NIR	61.6	158.0	NIR	>100	T	NIR	61.6	158.0	NIR
	2.	61.0	61.0	104.6	132.8	NIR	NIR	61.0	155.0	NIR	>100	T	NIR	61.0	155.0	NIR
	3.	61.8	61.8	108.7	133.7	NIR	NIR	61.1	157.0	NIR	>100	T	NIR	61.1	157.0	NIR
	4.	61.8	61.8	128.4	136.0	NIR	NIR	61.1	159.0	NIR	>100	T	NIR	61.1	159.0	NIR
	5.	61.9	61.9	105.2	136.0	NIR	NIR	61.2	157.0	NIR	>100	T	NIR	61.2	157.0	NIR
	MEAN	61.5	61.5	114.3	134.7			61.2	156.8					61.2	156.8	
	1.	61.2	61.2	124.6	134.9	NIR	NIR	61.6	158.0	NIR	>100	T	NIR	61.6	158.0	NIR
	2.	61.0	61.0	104.6	132.8	NIR	NIR	61.0	155.0	NIR	>100	T	NIR	61.0	155.0	NIR
	3.	61.8	61.8	108.7	133.7	NIR	NIR	61.1	157.0	NIR	>100	T	NIR	61.1	157.0	NIR
	4.	61.8	61.8	128.4	136.0	NIR	NIR	61.1	159.0	NIR	>100	T	NIR	61.1	159.0	NIR
	5.	61.9	61.9	105.2	136.0	NIR	NIR	61.2	157.0	NIR	>100	T	NIR	61.2	157.0	NIR
	MEAN	61.5	61.5	114.3	134.7			61.2	156.8					61.2	156.8	
	1.	61.2	61.2	124.6	134.9	NIR	NIR	61.6	158.0	NIR	>100	T	NIR	61.6	158.0	NIR
	2.	61.0	61.0	104.6	132.8	NIR	NIR	61.0	155.0	NIR	>100	T	NIR	61.0	155.0	NIR
	3.	61.8	61.8	108.7	133.7	NIR	NIR	61.1	157.0	NIR	>100	T	NIR	61.1	157.0	NIR
	4.	61.8	61.8	128.4	136.0	NIR	NIR	61.1	159.0	NIR	>100	T	NIR	61.1	159.0	NIR
	5.	61.9	61.9	105.2	136.0	NIR	NIR	61.2	157.0	NIR	>100	T	NIR	61.2	157.0	NIR
	MEAN	61.5	61.5	114.3	134.7			61.2	156.8					61.2	156.8	

QUALITY ASSURANCE TESTING GEOMEMBRANE SEAM PEEL AND SHEAR TEST RESULTS

CLIENT: TRAIL RIDGE LANDFILL SECONDARY LINER, PHASE 1A/B
PROJECT: MR. LUKE DEBOCK
CONTACT: FQ2030
GEOSYNTEC JOB NO.:
MATERIAL: POLYETHYLENE
SEAM TYPE: EXTRUSION FILLET
DATE RECEIVED: 03/24/92
DATE TESTED: 03/24/92

SAMPLE NUMBER	SPECIMEN NUMBER	PEEL					SHEAR						
		THICKNESS (mil)	MAXIMUM TENSION (psi)	MAXIMUM STRESS (psi)	SEAM SEPARATION (%)	LOCUS OF FAILURE	PASS OR FAIL	THICKNESS (mil)	MAXIMUM TENSION (psi)	MAXIMUM STRESS (psi)	ELONGATION AT BREAK (%)	LOCUS OF FAILURE	PASS OR FAIL
GEOSYNTEC: CLIENT: DS-S-24A S(S23/CAP)	1.	62.3	109.6	N/R	0	B	N/R	61.4	164.0	N/R	>100	B	N/R
	2.	61.6	116.3		0	B		61.6	162.0		>100	B	
	3.	62.2	103.0		0	B		61.6	160.0		>100	B	
	4.	62.1	124.0		0	B		61.2	164.0		>100	B	
	5.	61.7	134.3		0	B		61.7	164.0		>100	B	
	MEAN	62.0	117.4					61.5	162.8				
	S.D.	0.3	12.2					0.2	1.8				
GEOSYNTEC: CLIENT: DS-S-24B S(S23/CAP)	1.	60.7	114.6	N/R	0	B	N/R	61.3	160.0	N/R	>100	B	N/R
	2.	61.2	119.2		0	B		60.7	158.0		>100	B	
	3.	61.0	96.6		0	B		61.5	160.0		>100	B	
	4.	60.7	130.1		0	B		61.7	165.0		>100	B	
	5.	61.7	104.0		0	B		60.3	158.0		>100	B	
	MEAN	61.1	112.9					61.1	159.8				
	S.D.	0.4	13.1					0.6	3.3				
GEOSYNTEC: CLIENT: DS-S-32 S(S21/S22)	1.	61.4	105.8	N/R	0	B	N/R	61.1	157.0	N/R	>100	B	N/R
	2.	61.6	108.6		0	B		61.8	159.0		>100	B	
	3.	61.7	84.9		0	B		61.8	161.0		>100	B	
	4.	61.6	108.5		0	B		61.4	159.0		>100	B	
	5.	61.3	106.8		0	B		61.0	158.0		>100	B	
	MEAN	61.5	102.9					61.4	159.3				
	S.D.	0.2	10.1					0.4	1.5				

NOTE: See Technical Notes page for explanation of abbreviations.

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QUALITY ASSURANCE TESTING GEOMEMBRANE SEAM PEEL AND SHEAR TEST RESULTS

CLIENT:
 PROJECT:
 CONTACT:
 GEOSYNTEC JOB NO.:

TRAIL RIDGE LANDFILL SECONDARY LINER, PHASE 1A/1B
 MR. LUKE DEBOCK
 FQ2030

MATERIAL:
 SEAM TYPE:
 DATE RECEIVED:
 DATE TESTED:

POLYETHYLENE
 DOUBLE TRACK FUSION
 03/25/92
 03/25/92

SAMPLE NUMBER	SPECIMEN NUMBER	PEEL												SHEAR														
		THICKNESS (mil)				MAXIMUM TENSION (psi)		SEAM SEPARATION (%)				LOCUS OF FAILURE		PASS OR FAIL		THICKNESS (mil)		MAXIMUM TENSION (psi)		MAXIMUM STRESS (psi)		ELONGATION AT BREAK (%)		LOCUS OF FAILURE		PASS OR FAIL		
		I	O	I	O	I	O	I	O	I	O	I	O	I	O	I	O	I	O	I	O	I	O	I	O	I	O	I
GEOSYNTEC: CLIENT: DS-S-1382 S(S33/S34)	1.	61.2	60.7	127.3	119.6	N/R	N/R	0	0	B	T	N/R	61.2	159.3	N/R	>100	>100	B	B	N/R								
	2.	61.2	60.6	125.4	95.4			0	0	B	B		61.0	160.1		>100	>100	B	B									
	3.	61.7	60.3	123.3	83.4			0	0	B	B		60.7	159.7		>100	>100	B	B									
	4.	60.7	60.5	119.3	125.4			0	0	B	T		61.2	160.1		>100	>100	T	T									
	5.	60.5	61.4	121.3	114.2			0	0	B	B		61.2	160.5		>100	>100	T	T									
	MEAN	61.1	60.7	123.3	107.6								61.1	159.9														
	S.D.	0.5	0.4	3.2	17.6								0.2	0.5														
GEOSYNTEC: CLIENT: DS-S-26A S(S52/S53)	1.	59.7	60.7	97.6	123.7	N/R	N/R	0	0	T	T	N/R	59.7	160.8	N/R	>100	>100	T	T	N/R								
	2.	59.8	61.1	98.2	123.5			0	0	T	T		60.1	161.1		>100	>100	T	T									
	3.	60.0	61.2	97.9	130.9			0	0	T	B		59.9	162.0		>100	>100	T	T									
	4.	60.7	61.2	109.9	121.8			0	0	T	T		60.5	162.0		>100	>100	T	T									
	5.	60.7	61.1	103.0	129.9			0	0	T	T		60.5	162.7		>100	>100	T	T									
	MEAN	60.2	61.1	101.3	126.0								60.1	161.7														
	S.D.	0.5	0.2	5.3	4.1								0.4	0.8														
GEOSYNTEC: CLIENT: DS-S-26B S(S52/S53)	1.	61.2	61.0	103.2	131.1	N/R	N/R	0	0	T	T	N/R	61.3	163.1	N/R	>100	>100	T	T	N/R								
	2.	61.4	61.3	95.5	124.9			0	0	T	T		61.4	163.7		>100	>100	T	T									
	3.	61.1	61.2	102.3	131.3			0	0	T	B		61.5	164.2		>100	>100	T	T									
	4.	60.9	61.2	95.5	135.3			0	0	T	T		61.5	164.5		>100	>100	T	T									
	5.	61.2	61.1	98.7	101.3			0	30	T	PT		61.3	164.1		>100	>100	T	T									
	MEAN	61.2	61.2	99.0	124.8								61.4	163.9														
	S.D.	0.2	0.1	3.6	13.6								0.1	0.5														
																</												

QUALITY ASSURANCE TESTING GEOMEMBRANE SEAM PEEL AND SHEAR TEST RESULTS

CLIENT: TRAIL RIDGE LANDFILL SECONDARY LINER, PHASE 1A/1B
PROJECT: MR. LUKE DEBOCK
CONTACT: FQ2030
GEOSYNTEC JOB NO.:

MATERIAL: POLYETHYLENE
SEAM TYPE: DOUBLE TRACK FUSION
DATE RECEIVED: 03/27/92
DATE TESTED: 03/27/92

SAMPLE NUMBER	SPECIMEN NUMBER	PEEL										SHEAR				
		THICKNESS (mil)	MAXIMUM TENSION (psi)	MAXIMUM STRESS (psi)	SEAM SEPARATION (%)	LOCUS OF FAILURE	PASS OR FAIL	THICKNESS (mil)	MAXIMUM TENSION (psi)	MAXIMUM STRESS (psi)	ELONGATION AT BREAK (%)	LOCUS OF FAILURE	PASS OR FAIL	THICKNESS (mil)	MAXIMUM TENSION (psi)	MAXIMUM STRESS (psi)
GEOSYNTEC: CLIENT: DS-S-34 S(584/585)	1.	60.8	59.6	116.5	98.4	NIR	NIR	60.7	170.8	NIR	>100	B	NIR	60.7	170.8	NIR
	2.	60.3	62.1	116.0	130.0	NIR	NIR	60.5	171.2	NIR	>100	T	NIR	60.5	171.2	NIR
	3.	60.3	61.6	124.2	108.7	NIR	NIR	60.4	171.2	NIR	>100	T	NIR	60.4	171.2	NIR
	4.	60.8	61.3	113.6	122.5	NIR	NIR	61.1	169.8	NIR	>100	T	NIR	61.1	169.8	NIR
	5.	61.8	60.5	91.1	102.8	NIR	NIR	60.8	169.0	NIR	>100	B	NIR	60.8	169.0	NIR
	MEAN	60.8	61.0	112.3	112.7			60.7	170.4					60.7	170.4	
	S.D.	0.5	1.0	12.5	13.1			0.3	1.0					0.3	1.0	
GEOSYNTEC: CLIENT: DS-S-35 S(587/588)	1.	61.8	60.4	110.2	121.0	NIR	NIR	61.3	165.0	NIR	>100	T	NIR	61.3	165.0	NIR
	2.	61.9	60.5	102.4	118.0	NIR	NIR	61.4	165.6	NIR	>100	T	NIR	61.4	165.6	NIR
	3.	60.7	60.5	100.7	120.3	NIR	NIR	62.2	168.7	NIR	>100	T	NIR	62.2	168.7	NIR
	4.	60.1	60.9	104.1	120.1	NIR	NIR	62.0	166.1	NIR	>100	T	NIR	62.0	166.1	NIR
	5.	61.1	60.7	108.4	120.5	NIR	NIR	61.4	165.2	NIR	>100	T	NIR	61.4	165.2	NIR
	MEAN	61.1	60.6	105.2	119.6			61.7	165.7					61.7	165.7	
	S.D.	0.8	0.2	4.0	2.0			0.4	0.7					0.4	0.7	
GEOSYNTEC: CLIENT: DS-S-36 S(588/589)	1.	60.6	60.7	129.7	123.7	NIR	NIR	60.3	162.2	NIR	>100	T	NIR	60.3	162.2	NIR
	2.	60.7	60.3	136.1	123.0	NIR	NIR	60.0	163.0	NIR	>100	T	NIR	60.0	163.0	NIR
	3.	60.7	60.9	120.1	130.0	NIR	NIR	60.7	162.6	NIR	>100	T	NIR	60.7	162.6	NIR
	4.	61.1	60.3	121.2	116.3	NIR	NIR	60.6	162.6	NIR	>100	T	NIR	60.6	162.6	NIR
	5.	60.7	60.3	123.1	115.9	NIR	NIR	60.4	162.1	NIR	>100	T	NIR	60.4	162.1	NIR
	MEAN	60.8	60.5	126.0	121.8			60.4	162.5					60.4	162.5	
	S.D.	0.2	0.3	6.7	5.9			0.3	0.4					0.3	0.4	

QUALITY ASSURANCE TESTING

GEOMEMBRANE SEAM PEEL AND SHEAR TEST RESULTS

CLIENT:
PROJECT:
CONTACT:
GEOSYNTEC JOB NO.:

TRAIL RIDGE LANDFILL SECONDARY LINER, PHASE 1A/1B
MR. LUKE DEBOCK
FQ2030

MATERIAL: POLYETHYLENE
SEAM TYPE: EXTRUSION FILLET
DATE RECEIVED: 03/28/82
DATE TESTED: 03/28/82

[illegible]

NOTE: See Technical Notes page for explanation of abbreviations.

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QUALITY ASSURANCE TESTING GEOMEMBRANE SEAM PEEL AND SHEAR TEST RESULTS

CLIENT:
 PROJECT:
 CONTACT:
 GEOSYNTEC JOB NO.:

TRAIL RIDGE LANDFILL SECONDARY LINER, PHASE 1A/1B
 MR. LUKE DEBOCK
 FQ2030

MATERIAL: POLYETHYLENE
 SEAM TYPE: DOUBLE TRACK FUSION
 DATE RECEIVED: 03/29/92
 DATE TESTED: 03/29/92

SAMPLE NUMBER	SPECIMEN NUMBER	PEEL										SHEAR								
		THICKNESS (mil)		MAXIMUM TENSION (psi)		MAXIMUM STRESS (psi)		SEAM SEPARATION (%)		LOCUS OF FAILURE		PASS OR FAIL		THICKNESS (mil)	MAXIMUM TENSION (psi)	MAXIMUM STRESS (psi)	ELONGATION AT BREAK (%)	LOCUS OF FAILURE	PASS OR FAIL	
GEOSYNTEC: CLIENT: DS-S-3481 S(584/585)	1.	61.1	61.1	122.4	138.0	N/R	N/R	0	0	0	B	T	N/R	N/R	61.3	181.0	N/R	>100	T	N/R
	2.	60.9	60.9	123.6	134.8			0	0	0	B	B			61.1	178.0		>100	T	
	3.	61.2	61.2	119.3	146.1			0	0	0	B	T			61.1	181.0		>100	T	
	4.	60.9	60.9	127.6	137.9			0	0	0	T	B			60.9	185.0		>100	B	
	5.	61.6	61.6	123.7	132.6			0	0	0	T	B			60.9	178.0		>100	T	
	MEAN	61.1	61.1	123.3	137.9										61.1	180.8				
	S.D.	0.3	0.3	3.0	5.1										0.2	2.9				

QUALITY ASSURANCE TESTING

CLIENT:

PROJECT:

CONTACT:

GEOSYNTEC JOB NO.:

TRAIL RIDGE LANDFILL SECONDARY LINER, PHASE 1A/1B

MR. LUKE DEBOCK

FQ2030

MATERIAL:

SEAM TYPE:

DATE RECEIVED:

DATE TESTED:

POLYETHYLENE

DOUBLE TRACK FUSION

03/28/92

03/28/92

[illegible]

NOTE: See Technical Notes page for explanation of abbreviations.

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QUALITY ASSURANCE TESTING GEOMEMBRANE SEAM PEEL AND SHEAR TEST RESULTS

CLIENT: TRAIL RIDGE LANDFILL SECONDARY LINER, PHASE 1A/1B
PROJECT: MR. LUKE DEBOCK
CONTACT: FQ2030
GEOSYNTEC JOB NO.:
MATERIAL: POLYETHYLENE
SEAM TYPE: DOUBLE TRACK FUSION
DATE RECEIVED: 03/31/92
DATE TESTED: 03/31/92

SAMPLE NUMBER	SPECIMEN NUMBER	PEEL										SHEAR												
		THICKNESS (mil)		MAXIMUM TENSION (psi)		MAXIMUM STRESS (psi)		SEAM SEPARATION (%)		LOCUS OF FAILURE		PASS OR FAIL		THICKNESS (mil)		MAXIMUM TENSION (psi)		MAXIMUM STRESS (psi)		ELONGATION AT BREAK (%)		LOCUS OF FAILURE		PASS OR FAIL
GEOSYNTEC: CLIENT: DS-S-38 S(S68/S70)	1.	62.2	62.2	109.7	118.6	N/R	N/R	100	0	0	P	T	N/R	N/R	62.4	159.0	N/R	N/R	N/R	N/R	>100	T	N/R	N/R
	2.	62.1	62.1	112.2	127.4			0	0	0	T	B			62.2	159.0					>100	T		
	3.	62.5	62.5	108.3	127.0			10	0	0	PT	B			62.2	160.0					>100	T		
	4.	62.2	62.2	110.1	123.0			10	0	0	PT	T			62.1	161.0					>100	T		
	5.	62.2	62.2	115.7	131.5			50	0	0	PB	B			62.1	164.0					>100	T		
	MEAN	62.2	62.2	111.2	125.6										62.2	160.6								
	S.D.	0.2	0.2	2.9	4.9										0.1	2.1								
GEOSYNTEC: CLIENT: DS-S-39 S(S71/S72)	1.	62.1	62.1	125.1	135.5	N/R	N/R	0	0	0	B	T	N/R	N/R	61.3	159.0	N/R	N/R	N/R	N/R	>100	B	N/R	N/R
	2.	62.2	62.2	133.2	126.7			0	0	0	B	T			61.4	159.0					>100	B		
	3.	62.6	62.6	137.6	132.4			0	0	0	B	T			61.4	156.0					>100	B		
	4.	62.0	62.0	131.6	131.3			0	0	0	B	T			61.2	161.0					>100	B		
	5.	62.0	62.0	137.2	130.4			0	0	0	B	T			60.9	159.0					>100	B		
	MEAN	62.2	62.2	132.9	131.3										61.2	158.8								
	S.D.	0.2	0.2	5.1	3.2										0.2	1.8								
GEOSYNTEC: CLIENT: DS-S-40 S(S72/S76)	1.	61.2	61.2	118.6	123.0	N/R	N/R	0	0	0	B	T	N/R	N/R	60.8	160.0	N/R	N/R	N/R	N/R	>100	B	N/R	N/R
	2.	61.5	61.5	126.9	134.4			0	0	0	B	T			61.1	157.0					>100	T		
	3.	61.5	61.5	113.4	123.2			0	0	0	T	T			61.4	159.0					>100	B		
	4.	61.5	61.5	131.1	121.1			0	0	0	B	T			61.8	168.0					>100	B		
	5.	61.5	61.5	133.3	125.1			0	0	0	B	T			61.4	157.0					>100	T		
	MEAN	61.4	61.4	124.7	125.4										61.3	168.2								
	S.D.	0.1	0.1	8.4	5.2										0.4	1.3								
GEOSYNTEC: CLIENT: DS-S-41 S(S76/S76)	1.	61.1	61.1	127.0	126.8	N/R	N/R	0	0	0	B	T	N/R	N/R	61.2	165.0	N/R	N/R	N/R	N/R	>100	T	N/R	N/R
	2.	61.5	61.5	116.9	125.7			0	0	0	B	T			61.3	162.0					>100	T		
	3.	61.3	61.3	119.5	133.4			0	0	0	B	T			61.1	165.0					>100	T		
	4.	60.8	60.8	125.1	125.0			0	0	0	B	T			61.1	163.0					>100	B		
	5.	61.2	61.2	110.1	118.5			0	0	0	B	T			61.1	167.0					>100	T		
	MEAN	61.2	61.2	119.7	125.9										61.2	164.4								
	S.D.	0.3	0.3	6.8	5.3										0.1	1.9								
GEOSYNTEC: CLIENT: DS-S-42 S(S76/S77)	1.	61.1	61.1	130.4	127.3	N/R	N/R	0	0	0	T	T	N/R	N/R	61.2	162.0	N/R	N/R	N/R	N/R	>100	T	N/R	N/R
	2.	61.2	61.2	139.6	127.7			0	0	0	B	T			61.1	162.0					>100	T		
	3.	61.1	61.1	107.3	124.4			0	0	0	T	T			61.4	161.0					>100	T		
	4.	60.9	60.9	121.1	131.2			0	0	0	T	T			61.2	163.0					>100	T		
	5.	60.8	60.8	112.8	111.3			0	0	0	T	T			61.1	164.0					>100	T		
	MEAN	61.0	61.0	122.2	124.4										61.2	162.4								
	S.D.	0.2	0.2	13.1	7.7										0.1	1.1								

NOTE: See Technical Notes page for explanation of abbreviations.

QUALITY ASSURANCE TESTING GEOMEMBRANE SEAM PEEL AND SHEAR TEST RESULTS

CLIENT:
 PROJECT:
 CONTACT:
 GEOSYNTEC JOB NO.:

TRAIL RIDGE LANDFILL SECONDARY LINER, PHASE 1A/1B
 MR. LUKE DEBOCK
 FQ2030

MATERIAL:
 SEAM TYPE:
 DATE RECEIVED:
 DATE TESTED:

POLYETHYLENE
 DOUBLE TRACK FUSION
 03/31/92
 03/31/92

SAMPLE NUMBER	SPECIMEN NUMBER	PEEL										SHEAR					
		THICKNESS (mil)	MAXIMUM TENSION (psi)	MAXIMUM STRESS (psi)	SEAM SEPARATION (%)	LOCUS OF FAILURE	PASS OR FAIL	THICKNESS (mil)	MAXIMUM TENSION (psi)	MAXIMUM STRESS (psi)	ELONGATION AT BREAK (%)	LOCUS OF FAILURE	PASS OR FAIL	THICKNESS (mil)	MAXIMUM TENSION (psi)	MAXIMUM STRESS (psi)	ELONGATION AT BREAK (%)
GEOSYNTEC: CLIENT: DS-S-43 (S/S78/S80)	1.	61.8	121.9	134.5	0	0	NIR	61.8	163.0	NIR	>100	B	NIR	61.8	163.0	NIR	>100
	2.	61.9	124.0	131.1	0	0	NIR	62.0	164.0	NIR	>100	B	NIR	62.0	164.0	NIR	>100
	3.	62.5	120.3	135.2	0	0	NIR	62.4	164.0	NIR	>100	B	NIR	62.4	164.0	NIR	>100
	4.	62.7	118.1	120.5	0	0	NIR	62.3	163.0	NIR	>100	B	NIR	62.3	163.0	NIR	>100
	5.	62.7	131.1	126.7	0	0	NIR	62.6	165.0	NIR	>100	B	NIR	62.6	165.0	NIR	>100
	MEAN	62.3	123.1	129.6	0	0	NIR	62.2	163.8	NIR	>100	B	NIR	62.2	163.8	NIR	>100
	S.D.	0.4	5.0	6.1	0	0	NIR	0.3	0.8	NIR	>100	B	NIR	0.3	0.8	NIR	>100
GEOSYNTEC: CLIENT: DS-S-44 (S/S80/S81)	1.	62.4	144.2	138.0	0	0	NIR	62.6	165.0	NIR	>100	T	NIR	62.6	165.0	NIR	>100
	2.	62.4	141.2	136.8	0	0	NIR	62.3	163.0	NIR	>100	T	NIR	62.3	163.0	NIR	>100
	3.	63.0	135.3	135.1	0	0	NIR	62.0	163.0	NIR	>100	B	NIR	62.0	163.0	NIR	>100
	4.	62.9	144.1	142.5	0	0	NIR	61.8	164.0	NIR	>100	T	NIR	61.8	164.0	NIR	>100
	5.	62.4	144.1	139.1	0	0	NIR	61.8	164.0	NIR	>100	T	NIR	61.8	164.0	NIR	>100
	MEAN	62.6	141.8	138.3	0	0	NIR	62.1	163.8	NIR	>100	T	NIR	62.1	163.8	NIR	>100
	S.D.	0.3	3.8	2.8	0	0	NIR	0.3	0.8	NIR	>100	T	NIR	0.3	0.8	NIR	>100
GEOSYNTEC: CLIENT: DS-S-45 (S/S81/S83)	1.	60.0	139.6	128.0	0	0	NIR	60.7	157.0	NIR	>100	T	NIR	60.7	157.0	NIR	>100
	2.	60.3	141.2	138.9	0	0	NIR	60.5	153.0	NIR	>100	B	NIR	60.5	153.0	NIR	>100
	3.	60.6	142.1	132.0	0	0	NIR	60.8	153.0	NIR	>100	T	NIR	60.8	153.0	NIR	>100
	4.	60.7	135.2	140.1	0	0	NIR	60.5	158.0	NIR	>100	B	NIR	60.5	158.0	NIR	>100
	5.	60.5	142.9	137.5	0	0	NIR	61.0	159.0	NIR	>100	B	NIR	61.0	159.0	NIR	>100
	MEAN	60.4	140.2	135.3	0	0	NIR	60.7	156.0	NIR	>100	T	NIR	60.7	156.0	NIR	>100
	S.D.	0.3	3.1	5.1	0	0	NIR	0.2	2.8	NIR	>100	T	NIR	0.2	2.8	NIR	>100
GEOSYNTEC: CLIENT: DS-S-46 (S/S83/S84)	1.	61.2	126.4	124.1	0	0	NIR	61.0	157.0	NIR	>100	B	NIR	61.0	157.0	NIR	>100
	2.	61.2	119.4	118.4	0	0	NIR	61.1	162.0	NIR	>100	B	NIR	61.1	162.0	NIR	>100
	3.	61.5	121.4	126.5	0	0	NIR	61.5	156.0	NIR	>100	B	NIR	61.5	156.0	NIR	>100
	4.	61.5	115.0	118.9	0	0	NIR	61.2	160.0	NIR	>100	B	NIR	61.2	160.0	NIR	>100
	5.	61.8	108.0	110.2	0	0	NIR	61.0	161.0	NIR	>100	B	NIR	61.0	161.0	NIR	>100
	MEAN	61.4	118.0	119.6	0	0	NIR	61.2	159.2	NIR	>100	B	NIR	61.2	159.2	NIR	>100
	S.D.	0.2	6.9	6.3	0	0	NIR	0.2	2.6	NIR	>100	B	NIR	0.2	2.6	NIR	>100
GEOSYNTEC: CLIENT: DS-S-47 (S/S85/S87)	1.	61.2	110.2	125.2	0	0	NIR	61.1	174.0	NIR	>100	B	NIR	61.1	174.0	NIR	>100
	2.	61.4	140.6	139.1	0	0	NIR	61.2	162.0	NIR	>100	B	NIR	61.2	162.0	NIR	>100
	3.	61.6	127.6	126.9	0	0	NIR	61.7	172.0	NIR	>100	B	NIR	61.7	172.0	NIR	>100
	4.	61.8	135.7	139.2	0	0	NIR	61.4	162.0	NIR	>100	B	NIR	61.4	162.0	NIR	>100
	5.	61.8	110.2	131.4	0	0	NIR	61.7	163.0	NIR	>100	B	NIR	61.7	163.0	NIR	>100
	MEAN	61.5	124.9	132.4	0	0	NIR	61.4	166.8	NIR	>100	B	NIR	61.4	166.8	NIR	>100
	S.D.	0.2	14.2	6.8	0	0	NIR	0.3	5.9	NIR	>100	B	NIR	0.3	5.9	NIR	>100

NOTE: See Technical Notes page for explanation of abbreviations.

QUALITY ASSURANCE TESTING

GEOMEMBRANE SEAM PEEL AND SHEAR TEST RESULTS

CLIENT:

PROJECT:

CONTACT:

GEOSYNTEC JOB NO.:

TRAIL RIDGE LANDEILL SECONDARY LINER. PHASE 1A/1B

MR. LUKE DEBOCK

FQ2030

MATERIAL:

SEAM TYPE:

DATE RECEIVED:

DATE TESTED:

POLYETHYLENE

DOUBLE TRACK FUSION

03/31/92

03/31/92

[illegible]

NOTE: See Technical Notes page for explanation of abbreviations.

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QUALITY ASSURANCE TESTING GEOMEMBRANE SEAM PEEL AND SHEAR TEST RESULTS

CLIENT:
PROJECT:
CONTACT:
GEOSYNTEC JOB NO.:

TRAIL RIDGE LANDFILL SECONDARY LINER, PHASE 1A/1B
MR. LUKE DEBOCK
FQ2030

MATERIAL: POLYETHYLENE
SEAM TYPE: DOUBLE TRACK FUSION
DATE RECEIVED: 04/01/92
DATE TESTED: 04/01/92

SAMPLE NUMBER	SPECIMEN NUMBER	PEEL										SHEAR										
		THICKNESS (mil)		MAXIMUM TENSION (psi)		MAXIMUM STRESS (psi)		SEAM SEPARATION (%)		LOCUS OF FAILURE		PASS OR FAIL	THICKNESS (mil)		MAXIMUM TENSION (psi)		MAXIMUM STRESS (psi)		ELONGATION AT BREAK (%)		LOCUS OF FAILURE	
GEOSYNTEC: CLIENT: DS-S-38A S(S87/S70)	1.	60.7	60.7	136.0	115.7	N/R	N/R	0	0	0	B	B	N/R	60.9	156.5	N/R	>100	T	N/R			
	2.	61.1	61.1	134.6	113.3			0	0	60	B	PT	N/R	61.4	159.4		>100	T				
	3.	61.0	61.0	129.1	124.8			0	0	20	B	PB		61.4	160.7		>100	B				
	4.	60.9	60.9	122.2	123.5			0	0	0	B	T		61.4	161.8		>100	T				
	5.	61.1	61.1	136.4	122.6			0	0	0	B	B		61.2	164.2		>100	T				
	MEAN	61.0	61.0	131.7	120.0								81.3	160.5								
	S.D.	0.2	0.2	6.0	5.1								0.2	2.9								
GEOSYNTEC: CLIENT: DS-S-38B S(S88/S70)	1.	60.5	60.5	129.1	115.4	N/R	N/R	0	0	0	B	T	N/R	60.6	161.7	N/R	>100	B	N/R			
	2.	60.2	60.2	97.7	126.2			60	0	0	PB	T		60.4	162.3		>100	B				
	3.	60.6	60.6	128.2	122.2			0	0	0	B	T		60.1	163.0		>100	T				
	4.	60.7	60.7	116.5	123.6			0	0	0	T	T		60.6	162.1		>100	B				
	5.	61.1	61.1	110.5	119.7			0	0	0	B	T		60.5	157.5		>100	B				
	MEAN	60.6	60.6	116.4	121.4								60.4	161.3								
	S.D.	0.3	0.3	13.1	4.1								0.2	2.2								
GEOSYNTEC: CLIENT: DS-S-49 S(S92/S94)	1.	61.0	61.0	135.3	123.2	N/R	N/R	0	0	0	B	T	N/R	60.5	159.9	N/R	>100	T	N/R			
	2.	61.0	61.0	94.3	56.7			0	100	0	T	P		60.8	160.2		>100	T				
	3.	61.2	61.2	98.3	65.8			0	100	0	T	P		61.1	161.7		>100	T				
	4.	61.2	61.2	96.6	119.2			0	0	0	T	T		61.4	164.2		>100	T				
	5.	61.4	61.4	101.0	120.2			0	0	0	T	T		61.3	164.1		>100	T				
	MEAN	61.2	61.2	105.1	97.0								61.0	162.0								
	S.D.	0.2	0.2	17.1	32.8								0.4	2.1								
GEOSYNTEC: CLIENT: DS-S-60 S(S95/S96)	1.	61.0	61.0	139.3	109.0	N/R	N/R	0	0	0	B	B	N/R	60.3	161.0	N/R	>100	T	N/R			
	2.	61.1	61.1	131.9	107.0			0	0	0	B	B		60.4	164.0		>100	B				
	3.	61.2	61.2	136.1	105.0			0	0	0	B	B		60.4	164.0		>100	T				
	4.	61.2	61.2	141.2	107.3			0	0	0	B	B		60.6	165.0		>100	T				
	5.	61.0	61.0	137.9	120.1			0	0	0	B	B		60.9	165.0		>100	T				
	MEAN	61.1	61.1	137.7	109.7								60.5	163.8								
	S.D.	0.1	0.1	3.5	6.0								0.2	1.6								

QUALITY ASSURANCE TESTING

GEOMEMBRANE SEAM PEEL AND SHEAR TEST RESULTS

CLIENT:
PROJECT:
CONTACT:
GEOSYNTEC JOB NO.:

TRAIL RIDGE LANDFILL SECONDARY LINER, PHASE 1A/1B
MR. LUKE DEBOCK
FQ2030

MATERIAL:
SEAM TYPE:
DATE RECEIVED:
DATE TESTED:

POLYETHYLENE
EXTRUSION FILLET
04/01/92
04/01/92

[illegible]

NOTE: See Technical Notes page for explanation of abbreviations.

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QUALITY ASSURANCE TESTING GEOMEMBRANE SEAM PEEL AND SHEAR TEST RESULTS

CLIENT:
PROJECT:
CONTACT:
GEOSYNTEC JOB NO.:

TRAIL RIDGE LANDFILL SECONDARY LINER, PHASE 1A/1B
MR. LUKE DEBOCK
FQ2030

MATERIAL:	POLYETHYLENE
SEAM TYPE:	EXTRUSION FILLET
DATE RECEIVED:	04/02/92
DATE TESTED:	04/02/92

[illegible]

NOTE: See Technical Notes page for explanation of abbreviations.

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QUALITY ASSURANCE TESTING GEOMEMBRANE SEAM PEEL AND SHEAR TEST RESULTS

CLIENT:
PROJECT:
CONTACT:
GEOSYNTEC JOB NO.:

TRAIL RIDGE LANDFILL SECONDARY LINER, PHASE 1A/1B
 MR. LUKE DEBOCK
 FQ2030

MATERIAL: POLYETHYLENE
SEAM TYPE: DOUBLE TRACK FUSION
DATE RECEIVED: 04/02/92
DATE TESTED: 04/02/92

SAMPLE NUMBER	SPECIMEN NUMBER	PEEL										SHEAR											
		THICKNESS (mil)		MAXIMUM TENSION (psi)		MAXIMUM STRESS (psi)		SEAM SEPARATION (%)		LOCUS OF FAILURE		PASS OR FAIL		THICKNESS (mil)		MAXIMUM TENSION (psi)		MAXIMUM STRESS (psi)		ELONGATION AT BREAK (%)		LOCUS OF FAILURE	
GEOSYNTEC: CLIENT: DS-S-38A1 S(S88/S70)	1.	60.7	60.7	121.3	131.5	NIR	NIR	0	0	B	T	NIR	NIR	60.4	152.2	NIR	NIR	>100	>100	T	T	NIR	NIR
	2.	60.7	60.7	112.2	122.2			0	0	T	B			60.5	155.4			>100	>100	T	T		
	3.	60.7	60.7	121.2	125.3			0	0	T	B			61.1	157.8			>100	>100	T	T		
	4.	61.7	61.7	114.6	120.1			0	0	T	B			61.4	158.7			>100	>100	B	B		
	5.	62.0	62.0	110.3	118.5			50	0	PB	B			61.8	160.3			>100	>100	B	B		
	MEAN S.D.	61.2 0.6	61.2 0.6	115.9 5.1	123.5 5.1									61.0 0.6	156.9 3.2								
GEOSYNTEC: CLIENT: DS-S-49A S(S82/S84)	1.	60.3	60.3	133.1	135.6	NIR	NIR	0	0	T	T	NIR	NIR	60.8	154.6	NIR	NIR	>100	>100	T	T	NIR	NIR
	2.	60.5	60.5	126.7	116.2			0	0	B	T			60.8	155.4			>100	>100	T	T		
	3.	60.2	60.2	106.3	119.1			0	0	T	T			60.0	155.4			>100	>100	T	T		
	4.	59.9	59.9	98.3	110.8			0	0	T	T			59.9	155.4			>100	>100	T	T		
	5.	59.9	59.9	115.5	110.0			0	0	T	T			59.7	155.4			>100	>100	T	T		
	MEAN S.D.	60.2 0.3	60.2 0.3	116.0 14.3	118.3 10.4									60.2 0.5	155.2 0.4								
GEOSYNTEC: CLIENT: DS-S-49B S(S82/S84)	1.	60.3	60.3	92.8	115.6	NIR	NIR	0	0	T	T	NIR	NIR	60.8	153.0	NIR	NIR	>100	>100	T	T	NIR	NIR
	2.	60.8	60.8	99.8	108.7			0	0	T	T			60.7	154.6			>100	>100	T	T		
	3.	60.8	60.8	97.8	116.6			0	0	T	T			60.7	155.4			>100	>100	T	T		
	4.	60.6	60.6	97.4	105.1			0	0	T	T			60.3	155.4			>100	>100	T	T		
	5.	60.7	60.7	88.0	112.1			0	0	T	T			60.3	156.2			>100	>100	T	T		
	MEAN S.D.	60.6 0.2	60.6 0.2	95.2 4.8	111.6 4.8									60.6 0.2	154.9 1.2								
GEOSYNTEC: CLIENT: DS-S-64 S(S86/S88)	1.	60.3	60.3	138.6	133.5	NIR	NIR	0	0	T	T	NIR	NIR	60.5	160.3	NIR	NIR	>100	>100	B	B	NIR	NIR
	2.	60.3	60.3	112.5	139.5			0	0	T	T			60.4	161.9			>100	>100	B	B		
	3.	60.2	60.2	106.8	138.8			0	0	T	T			60.4	161.9			>100	>100	B	B		
	4.	60.3	60.3	115.6	134.6			0	0	T	T			60.5	161.1			>100	>100	B	B		
	5.	60.5	60.5	137.7	133.1			0	0	T	T			60.7	161.9			>100	>100	B	B		
	MEAN S.D.	60.3 0.1	60.3 0.1	122.2 14.9	135.9 3.0									60.5 0.1	161.4 0.7								
GEOSYNTEC: CLIENT: DS-S-65 S(S86/S88)	1.	60.8	60.8	124.1	103.0	NIR	NIR	0	0	T	B	NIR	NIR	60.7	161.1	NIR	NIR	>100	>100	B	B	NIR	NIR
	2.	60.7	60.7	127.2	107.6			0	0	B	B			60.7	162.7			>100	>100	B	B		
	3.	60.5	60.5	137.7	121.3			0	0	T	B			60.8	162.7			>100	>100	B	B		
	4.	60.5	60.5	121.7	93.3			0	0	B	B			60.6	163.5			>100	>100	B	B		
	5.	60.3	60.3	127.6	101.8			0	0	B	B			60.4	165.1			>100	>100	B	B		
	MEAN S.D.	60.6 0.2	60.6 0.2	127.7 6.1	105.4 10.3									60.6 0.2	163.0 1.5								

QUALITY ASSURANCE TESTING GEOMEMBRANE SEAM PEEL AND SHEAR TEST RESULTS

CLIENT:
 PROJECT:
 CONTACT:
 GEOSYNTEC JOB NO.:

TRAIL RIDGE LANDFILL SECONDARY LINER, PHASE 1A/1B
 MR. LUKE DEBOCK
 F02030

MATERIAL:
 SEAM TYPE:
 DATE RECEIVED:
 DATE TESTED:

POLYETHYLENE
 DOUBLE TRACK FUSION
 04/02/82
 04/02/82

SAMPLE NUMBER		SPECIMEN NUMBER	PEEL										SHEAR							
			THICKNESS (mil)		MAXIMUM TENSION (psi)		MAXIMUM STRESS (psi)		SEAM SEPARATION (%)		LOCUS OF FAILURE		PASS OR FAIL	THICKNESS (mil)	MAXIMUM TENSION (psi)	MAXIMUM STRESS (psi)	ELONGATION AT BREAK (%)	LOCUS OF FAILURE	PASS OR FAIL	
GEOSYNTEC:		1.	61.0	61.0	105.6	117.7	N/R	N/R	0	0	T	B	N/R	N/R	60.9	158.7	N/R	>100	B	N/R
		2.	60.7	60.7	100.0	126.5			0	0	T	T			60.9	159.5		>100	B	
		3.	61.1	61.1	103.8	124.1			0	0	T	T			60.7	159.5		>100	B	
		4.	61.1	61.1	98.6	126.7			0	0	T	T			61.0	160.3		>100	B	
		5.	60.7	60.7	106.0	134.6			0	0	T	T			61.4	160.3		>100	B	
		MEAN	60.9	60.9	102.8	125.9									61.0	159.7				
		S.D.	0.2	0.2	3.3	6.1									0.3	0.7				
GEOSYNTEC:		1.	60.9	60.9	127.5	122.6	N/R	N/R	0	0	B	T	N/R	N/R	61.0	160.3	N/R	>100	B	N/R
		2.	61.1	61.1	119.7	137.2			0	0	B	T			60.7	159.5		>100	B	
		3.	60.5	60.5	121.2	121.3			0	0	B	T			61.0	160.3		>100	B	
		4.	61.3	61.3	122.3	130.5			0	0	B	T			61.3	159.5		>100	B	
		5.	61.2	61.2	117.3	124.7			0	0	B	T			61.3	161.1		>100	B	
		MEAN	61.0	61.0	121.6	127.3									61.1	160.1				
		S.D.	0.3	0.3	3.8	6.6									0.3	0.7				

QUALITY ASSURANCE TESTING

GEOMEMBRANE SEAM PEEL AND SHEAR TEST RESULTS

CLIENT:

PROJECT:

CONTACT:

GEOSYNTEC JOB NO.:

TRAIL RIDGE LANDFILL SECONDARY LINER, PHASE 1A/1B

MR. LUKE DEBOCK

FQ2030

MATERIAL: POLYETHYLENE

EXTRUSION FILLET

DATE RECEIVED: 04/03/92

DATE TESTED: 04/03/92

[illegible]

NOTE: See Technical Notes page for explanation of abbreviations.

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Materials Testing Laboratory

QUALITY ASSURANCE TESTING GEOMEMBRANE SEAM PEEL AND SHEAR TEST RESULTS

CLIENT:
PROJECT:
CONTACT:
GEOSYNTEC JOB NO.:

TRAIL RIDGE LANDFILL SECONDARY LINER, PHASE 1A/1B
MR. LUKE DEBOCK
FQ2030

MATERIAL:
SEAM TYPE:
DATE RECEIVED:
DATE TESTED:

POLYETHYLENE
DOUBLE TRACK FUSION
04/03/92
04/03/92

SAMPLE NUMBER	SPECIMEN NUMBER	PEEL										SHEAR													
		THICKNESS (mil)		MAXIMUM TENSION (psi)		MAXIMUM STRESS (psi)		SEAM SEPARATION (%)		LOCUS OF FAILURE		PASS OR FAIL		THICKNESS (mil)		MAXIMUM TENSION (psi)		MAXIMUM STRESS (psi)		ELONGATION AT BREAK (%)		LOCUS OF FAILURE		PASS OR FAIL	
GEOSYNTEC: CLIENT: DS-S-60 S(S106/S107)	1.	60.6	60.6	116.0	124.5	N/R	N/R	0	0	T	T	N/R	N/R	60.7	156.0	N/R	N/R	N/R	N/R	>100	>100	B	B	N/R	N/R
	2.	60.5	60.5	111.7	124.2			0	0	B	T			60.7	156.0					>100	>100	B	B		
	3.	60.7	60.7	112.0	79.4			0	100	B	P			60.7	156.0					>100	>100	B	B		
	4.	60.7	60.7	99.9	106.0			0	90	T	PT			60.8	163.0					>100	>100	B	B		
	5.	60.7	60.7	118.2	73.0			0	100	B	P			60.9	159.0					>100	>100	B	B		
	MEAN	60.6	60.6	111.6	101.4									60.8	158.0										
GEOSYNTEC: CLIENT: DS-S-61 S(S107/S108)	1.	61.1	61.1	134.3	122.8	N/R	N/R	0	50	B	PT	N/R	N/R	60.9	171.0	N/R	N/R	N/R	N/R	>100	>100	B	B	N/R	N/R
	2.	60.6	60.6	98.0	121.3			0	0	T	B			60.9	156.0					>100	>100	B	B		
	3.	61.2	61.2	115.3	102.6			0	0	T	B			61.1	156.0					>100	>100	B	B		
	4.	60.9	60.9	92.9	136.6			0	0	T	T			61.1	156.0					>100	>100	B	B		
	5.	61.1	61.1	92.6	132.0			0	0	T	T			61.4	156.0					>100	>100	B	B		
	MEAN	61.0	61.0	106.6	123.1									61.1	158.0										
GEOSYNTEC: CLIENT: DS-S-62 S(S110/S111)	1.	60.9	60.9	131.0	132.0	N/R	N/R	0	0	B	T	N/R	N/R	60.9	166.0	N/R	N/R	N/R	N/R	>100	>100	T	T	N/R	N/R
	2.	61.1	61.1	137.0	135.1			0	0	B	T			60.9	158.0					>100	>100	T	T		
	3.	61.1	61.1	121.2	124.5			0	0	T	B			60.9	167.0					>100	>100	T	T		
	4.	60.9	60.9	133.3	124.1			0	0	B	T			61.1	159.0					>100	>100	T	T		
	5.	61.2	61.2	110.1	131.6			0	0	T	T			60.9	165.0					>100	>100	T	T		
	MEAN	61.0	61.0	126.5	129.5									60.9	163.0										
	S.D.	0.1	0.1	7.1	24.3									0.1	3.1										

NOTE: See Technical Notes page for explanation of abbreviations.

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QUALITY ASSURANCE TESTING GEOMEMBRANE SEAM PEEL AND SHEAR TEST RESULTS

CLIENT:
PROJECT:
CONTACT:
GEOSYNTEC JOB NO.:

TRAIL RIDGE LANDFILL SECONDARY LINER, PHASE 1A/1B
MR. LUKE DEBOCK
FQ2030

MATERIAL:
SEAM TYPE:
DATE RECEIVED:
DATE TESTED:

POLYETHYLENE
DOUBLE TRACK FUSION
04/04/92
04/04/92

SAMPLE NUMBER	SPECIMEN NUMBER	PEEL										SHEAR				
		THICKNESS (mil)	MAXIMUM TENSION (psi)	MAXIMUM STRESS (psi)	SEAM SEPARATION (%)	LOCUS OF FAILURE	PASS OR FAIL	THICKNESS (mil)	MAXIMUM TENSION (psi)	MAXIMUM STRESS (psi)	ELONGATION AT BREAK (%)	LOCUS OF FAILURE	PASS OR FAIL	THICKNESS (mil)	MAXIMUM TENSION (psi)	MAXIMUM STRESS (psi)
GEOSYNTEC: CLIENT: DS-S-63 S(S111/S112)	1.	60.3	102.6	129.5	0	T	NIR	60.3	160.0	NIR	>100	B	NIR	60.3	160.0	NIR
	2.	60.3	103.7	121.8	0	T	NIR	60.3	158.0	NIR	>100	T	NIR	60.3	158.0	NIR
	3.	60.6	124.1	97.1	0	T	NIR	60.6	161.0	NIR	>100	T	NIR	60.6	161.0	NIR
	4.	60.5	104.3	115.2	0	T	NIR	60.5	159.0	NIR	>100	T	NIR	60.5	159.0	NIR
	5.	60.8	119.2	128.0	0	T	NIR	60.8	162.0	NIR	>100	T	NIR	60.8	162.0	NIR
GEOSYNTEC: CLIENT: DS-S-64 S(S114/S112)	MEAN	60.5	110.8	118.3				60.5	160.0					60.5	160.0	
	S.D.	0.2	10.1	13.1				0.2	1.8					0.2	1.8	
	1.	60.3	139.3	121.5	0	B	NIR	60.3	180.0	NIR	>100	T	NIR	60.3	180.0	NIR
	2.	60.3	134.8	122.2	0	B	NIR	60.3	182.0	NIR	>100	T	NIR	60.3	182.0	NIR
	3.	60.3	121.5	125.7	0	T	NIR	60.3	181.0	NIR	>100	T	NIR	60.3	181.0	NIR
GEOSYNTEC: CLIENT: DS-S-65 S(S115/S116)	4.	60.3	134.3	124.5	0	T	NIR	60.3	180.0	NIR	>100	T	NIR	60.3	180.0	NIR
	5.	60.5	124.8	119.3	0	T	NIR	60.5	184.0	NIR	>100	T	NIR	60.5	184.0	NIR
	MEAN	60.3	130.9	122.6				60.3	181.4					60.3	181.4	
	S.D.	0.1	7.5	2.5				0.1	1.7					0.1	1.7	
	1.	60.9	144.6	131.8	0	B	NIR	60.9	181.0	NIR	>100	B	NIR	60.9	181.0	NIR
GEOSYNTEC: CLIENT: DS-S-66 S(S116/S117)	2.	60.7	137.1	138.6	0	B	NIR	60.7	180.0	NIR	>100	T	NIR	60.7	180.0	NIR
	3.	60.7	140.3	131.2	0	B	NIR	60.7	183.0	NIR	>100	B	NIR	60.7	183.0	NIR
	4.	60.8	137.6	142.6	0	B	NIR	60.7	184.0	NIR	>100	T	NIR	60.7	184.0	NIR
	5.	60.7	139.0	123.0	0	B	NIR	60.8	184.0	NIR	>100	B	NIR	60.8	184.0	NIR
	MEAN	60.8	139.7	133.4				60.8	182.4					60.8	182.4	
GEOSYNTEC: CLIENT: DS-S-67 S(S117/S118)	S.D.	0.1	3.0	7.5				0.1	1.8					0.1	1.8	
	1.	60.9	144.6	131.8	0	B	NIR	60.9	181.0	NIR	>100	B	NIR	60.9	181.0	NIR
	2.	60.7	137.1	138.6	0	B	NIR	60.7	180.0	NIR	>100	T	NIR	60.7	180.0	NIR
	3.	60.7	140.3	131.2	0	B	NIR	60.7	183.0	NIR	>100	B	NIR	60.7	183.0	NIR
	4.	60.8	137.6	142.6	0	B	NIR	60.7	184.0	NIR	>100	T	NIR	60.7	184.0	NIR
GEOSYNTEC: CLIENT: DS-S-68 S(S118/S119)	5.	60.7	139.0	123.0	0	B	NIR	60.8	184.0	NIR	>100	B	NIR	60.8	184.0	NIR
	MEAN	60.8	139.7	133.4				60.8	182.4					60.8	182.4	
	S.D.	0.1	3.0	7.5				0.1	1.8					0.1	1.8	
	1.	60.9	144.6	131.8	0	B	NIR	60.9	181.0	NIR	>100	B	NIR	60.9	181.0	NIR
	2.	60.7	137.1	138.6	0	B	NIR	60.7	180.0	NIR	>100	T	NIR	60.7	180.0	NIR

QUALITY ASSURANCE TESTING GEOMEMBRANE SEAM PEEL AND SHEAR TEST RESULTS

CLIENT:

PROJECT:

CONTACT:

GEOSYNTEC JOB NO.:

TRAIL RIDGE LANDFILL SECONDARY LINER, PHASE 1A/1B

MR. LUKE DEBOCK

FQ2030

MATERIAL:

SEAM TYPE:

DATE RECEIVED:

DATE TESTED:

POLYETHYLENE

EXTRAUSION FILLET

04/04/92

04/04/92

[illegible]

NOTE: See Technical Notes page for explanation of abbreviations.

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Materials Testing Laboratory

QUALITY ASSURANCE TESTING GEOMEMBRANE SEAM PEEL AND SHEAR TEST RESULTS

CLIENT:
PROJECT:
CONTACT:
GEOSYNTEC JOB NO.:

TRAIL RIDGE LANDFILL SECONDARY LINER, PHASE 1A/1B
MR. LUKE DEBOOK
FQ2030

MATERIAL:
SEAM TYPE:
DATE RECEIVED:
DATE TESTED:

POLYETHYLENE
DOUBLE TRACK FUSION
04/05/92
04/05/92

SAMPLE NUMBER	SPECIMEN NUMBER	PEEL										SHEAR				
		THICKNESS (mil)	MAXIMUM TENSION (psi)	MAXIMUM STRESS (psi)	SEAM SEPARATION (%)	LOCUS OF FAILURE	PASS OR FAIL	THICKNESS (mil)	MAXIMUM TENSION (psi)	MAXIMUM STRESS (psi)	ELONGATION AT BREAK (%)	LOCUS OF FAILURE	PASS OR FAIL	THICKNESS (mil)	MAXIMUM TENSION (psi)	MAXIMUM STRESS (psi)
GEOSYNTEC: CLIENT: DS-S-60A S(S100/S107)	1.	61.2	108.7	117.7	0	T	NIR	61.0	149.8	NIR	>100	B	NIR	61.0	149.8	NIR
	2.	61.4	96.2	118.8	0	T	NIR	60.9	158.0	NIR	>100	B	NIR	60.9	158.0	NIR
	3.	61.2	103.7	115.0	0	T	NIR	60.7	159.5	NIR	>100	B	NIR	60.7	159.5	NIR
	4.	60.8	100.2	119.3	0	T	NIR	61.3	159.0	NIR	>100	B	NIR	61.3	159.0	NIR
	5.	60.8	110.5	120.8	0	T	NIR	61.3	161.1	NIR	>100	B	NIR	61.3	161.1	NIR
GEOSYNTEC: CLIENT: DS-S-60B S(S100/S107)	MEAN	61.1	103.9	118.3	0	T	NIR	61.0	157.5	NIR	>100	B	NIR	61.0	157.5	NIR
	S.D.	0.3	5.9	2.1	0	T	NIR	0.3	4.4	NIR	>100	B	NIR	0.3	4.4	NIR
	1.	61.1	145.7	125.8	0	B	NIR	60.6	159.5	NIR	>100	B	NIR	60.6	159.5	NIR
	2.	61.1	138.7	123.6	0	T	NIR	60.7	161.9	NIR	>100	B	NIR	60.7	161.9	NIR
	3.	60.9	135.8	125.8	0	T	NIR	60.9	161.9	NIR	>100	B	NIR	60.9	161.9	NIR
GEOSYNTEC: CLIENT: DS-S-60B S(S100/S107)	4.	61.1	134.6	123.0	0	B	NIR	60.9	160.0	NIR	>100	B	NIR	60.9	160.0	NIR
	5.	61.1	144.1	122.4	0	B	NIR	60.9	161.1	NIR	>100	B	NIR	60.9	161.1	NIR
	MEAN	61.1	139.8	124.1	0	B	NIR	60.8	160.9	NIR	>100	B	NIR	60.8	160.9	NIR
	S.D.	0.1	4.9	1.5	0	B	NIR	0.1	1.1	NIR	>100	B	NIR	0.1	1.1	NIR
GEOSYNTEC: CLIENT: DS-S-60B S(S100/S107)																
GEOSYNTEC: CLIENT: DS-S-60B S(S100/S107)																
GEOSYNTEC: CLIENT: DS-S-60B S(S100/S107)																

NOTE: See Technical Notes page for explanation of abbreviations.

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Materials Testing Laboratory

QUALITY ASSURANCE TESTING GEOMEMBRANE SEAM PEEL AND SHEAR TEST RESULTS

CLIENT:
PROJECT:
CONTACT:
GEOSYNTEC JOB NO.:

TRAIL RIDGE LANDFILL SECONDARY LINER, PHASE 1A/1B
MR. LUKE DEBOCK
FQ2030

MATERIAL:
SEAM TYPE:
DATE RECEIVED:
DATE TESTED:

POLYETHYLENE
DOUBLE TRACK FUSION
04/09/92
04/09/92

SAMPLE NUMBER		SPECIMEN NUMBER		PEEL										SHEAR							
				THICKNESS (mil)		MAXIMUM TENSION (psi)		MAXIMUM STRESS (psi)		SEAM SEPARATION (%)		LOCUS OF FAILURE		PASS OR FAIL		THICKNESS (mil)	MAXIMUM TENSION (psi)	MAXIMUM STRESS (psi)	ELONGATION AT BREAK (%)	LOCUS OF FAILURE	PASS OR FAIL
GEOSYNTEC: CLIENT: DS-S-67 S(S130/S131)		1.	61.1	61.1	119.7	126.3	NIR	NIR	0	0	T	T	NIR	NIR	61.0	167.5	NIR	>100	T	NIR	
		2.	61.4	61.4	118.3	110.7			0	0	T	B			61.0	166.7		>100	T		
		3.	61.5	61.5	118.3	134.7			0	0	T	T			61.1	165.9		>100	T		
		4.	61.2	61.2	109.8	108.1			0	0	T	B			61.1	168.3		>100	T		
		5.	61.2	61.2	124.1	127.0			0	0	T	B			61.1	169.1		>100	T		
MEAN		61.3	61.3	118.0	121.4									61.1	167.5						
		S.D.	0.2	0.2	5.2	11.4									0.1	1.3					
GEOSYNTEC: CLIENT: DS-S-68 S(S132/S133)		1.	60.5	60.5	92.0	117.7	NIR	NIR	0	0	T	B	NIR	NIR	61.4	160.3	NIR	>100	T	NIR	
		2.	60.4	60.4	126.3	110.1			0	0	T	B			61.2	161.9		>100	T		
		3.	61.2	61.2	132.2	119.0			0	0	B	T			61.8	161.9		>100	B		
		4.	61.4	61.4	101.2	120.2			0	0	T	B			61.5	160.3		>100	B		
		5.	61.6	61.6	113.2	118.7			0	0	T	T			61.1	161.9		>100	B		
MEAN		61.0	61.0	113.0	117.1									61.4	161.3						
		S.D.	0.5	0.5	16.8	4.0									0.3	0.9					
GEOSYNTEC: CLIENT: DS-S-69 S(S134/S135)		1.	61.6	61.6	123.2	130.2	NIR	NIR	0	0	T	B	NIR	NIR	61.4	159.5	NIR	>100	T	NIR	
		2.	61.4	61.4	111.6	122.0			0	0	T	T			61.6	160.3		>100	T		
		3.	61.3	61.3	126.2	106.6			0	0	B	B			61.5	160.3		>100	T		
		4.	61.3	61.3	97.5	117.6			0	0	T	B			61.3	160.3		>100	T		
		5.	61.4	61.4	110.7	125.3			0	0	T	T			61.4	161.1		>100	T		
MEAN		61.4	61.4	113.8	120.3									61.4	160.3						
		S.D.	0.1	0.1	11.4	9.0									0.1	0.6					
GEOSYNTEC: CLIENT: DS-S-70 S(S136/S137)		1.	61.2	61.2	114.8	115.0	NIR	NIR	0	0	T	B	NIR	NIR	61.2	162.7	NIR	>100	T	NIR	
		2.	61.7	61.7	121.7	123.2			0	0	T	B			61.4	162.7		>100	T		
		3.	61.7	61.7	118.2	120.1			0	0	T	B			62.0	163.5		>100	B		
		4.	61.7	61.7	102.0	123.6			0	0	T	B			61.7	162.7		>100	B		
		5.	62.0	62.0	128.8	132.8			0	0	T	B			61.2	163.5		>100	B		
MEAN		61.7	61.7	117.1	122.9									61.5	163.0						
		S.D.	0.3	0.3	9.9	6.5									0.3	0.4					

NOTE: See Technical Notes page for explanation of abbreviations.

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QUALITY ASSURANCE TESTING GEOMEMBRANE SEAM PEEL AND SHEAR TEST RESULTS

CLIENT:
 PROJECT:
 CONTACT:
 GEOSYNTEC JOB NO.:

TRAIL RIDGE LANDFILL SECONDARY LINER, PHASE 1A/1B
 MR. LUKE DEBOCK
 FQ2030

MATERIAL:
 SEAM TYPE:
 DATE RECEIVED:
 DATE TESTED:

POLYETHYLENE
 DOUBLE TRACK FUSION
 04/11/92
 04/11/92

SAMPLE NUMBER	SPECIMEN NUMBER	PEEL										SHEAR				
		THICKNESS (mil)	MAXIMUM TENSION (psi)	MAXIMUM STRESS (psi)	SEAM SEPARATION (%)	LOCUS OF FAILURE	PASS OR FAIL	THICKNESS (mil)	MAXIMUM TENSION (psi)	MAXIMUM STRESS (psi)	ELONGATION AT BREAK (%)	LOCUS OF FAILURE	PASS OR FAIL	THICKNESS (mil)	MAXIMUM TENSION (psi)	MAXIMUM STRESS (psi)
GEOSYNTEC: CLIENT: DS-S-71 (S/S137/S138)	1.	61.6	125.2	108.3	0	T	N/R	61.6	157.0	N/R	>100	T	N/R	61.6	157.0	N/R
	2.	61.1	123.2	107.3	0	B	T	61.7	157.8	N/R	>100	T	N/R	61.7	157.8	N/R
	3.	61.3	127.5	106.2	0	T	T	61.5	158.7	N/R	>100	T	N/R	61.5	158.7	N/R
	4.	61.5	117.5	107.7	0	T	T	61.6	158.7	N/R	>100	T	N/R	61.6	158.7	N/R
	5.	61.5	127.2	107.7	0	B	T	61.4	159.7	N/R	>100	T	N/R	61.4	159.7	N/R
	MEAN	61.4	124.1	107.4				61.8	158.4					61.8	158.4	
GEOSYNTEC: CLIENT: DS-S-72 (S/S139/S140)	1.	61.1	127.7	128.7	0	B	N/R	60.4	155.4	N/R	>100	T	N/R	60.4	155.4	N/R
	2.	60.7	109.6	100.1	0	T	B	60.7	155.4	N/R	>100	T	N/R	60.7	155.4	N/R
	3.	61.2	122.3	101.8	0	B	B	60.9	158.7	N/R	>100	T	N/R	60.9	158.7	N/R
	4.	60.7	130.2	104.1	0	T	B	60.8	159.5	N/R	>100	T	N/R	60.8	159.5	N/R
	5.	60.9	129.2	117.0	0	B	B	61.1	159.5	N/R	>100	T	N/R	61.1	159.5	N/R
	MEAN	60.9	123.8	109.9				60.8	157.7					60.8	157.7	
GEOSYNTEC: CLIENT: DS-S-73 (S/S140/S142)	1.	60.9	112.2	113.3	0	T	N/R	60.7	154.6	N/R	>100	T	N/R	60.7	154.6	N/R
	2.	60.6	128.6	104.7	0	B	B	60.7	153.8	N/R	>100	T	N/R	60.7	153.8	N/R
	3.	61.0	88.9	101.7	0	T	B	60.6	155.4	N/R	>100	T	N/R	60.6	155.4	N/R
	4.	60.7	101.8	98.9	0	T	B	60.6	157.0	N/R	>100	T	N/R	60.6	157.0	N/R
	5.	60.7	109.0	98.0	0	T	B	60.5	157.0	N/R	>100	T	N/R	60.5	157.0	N/R
	MEAN	60.8	108.1	103.3				60.8	155.8					60.8	155.8	
GEOSYNTEC: CLIENT: DS-S-74 (S/S143/S144)	1.	60.7	118.1	133.2	0	B	N/R	61.4	160.3	N/R	>100	T	N/R	61.4	160.3	N/R
	2.	60.8	101.3	121.8	0	T	T	61.2	161.9	N/R	>100	T	N/R	61.2	161.9	N/R
	3.	61.1	121.8	127.3	0	B	T	61.1	161.9	N/R	>100	T	N/R	61.1	161.9	N/R
	4.	60.9	113.2	124.6	0	B	T	61.4	162.7	N/R	>100	T	N/R	61.4	162.7	N/R
	5.	60.8	113.8	113.6	0	T	T	61.1	162.7	N/R	>100	T	N/R	61.1	162.7	N/R
	MEAN	60.9	113.6	124.1				61.2	161.9					61.2	161.9	
GEOSYNTEC: CLIENT: DS-S-75 (S/S145/S146)	1.	61.7	130.1	115.5	0	T	N/R	61.2	155.4	N/R	>100	B	N/R	61.2	155.4	N/R
	2.	61.8	128.0	108.6	0	T	B	61.4	155.4	N/R	>100	B	N/R	61.4	155.4	N/R
	3.	61.2	123.3	124.6	0	B	T	61.2	155.4	N/R	>100	B	N/R	61.2	155.4	N/R
	4.	61.1	119.8	122.7	0	T	B	61.4	155.4	N/R	>100	B	N/R	61.4	155.4	N/R
	5.	61.9	122.6	119.3	0	B	B	61.4	156.2	N/R	>100	B	N/R	61.4	156.2	N/R
	MEAN	61.6	124.4	118.1				61.3	155.8					61.3	155.8	
		S.D.	0.3	6.4				0.1	0.4					0.1	0.4	

NOTE: See Technical Notes page for explanation of abbreviations.

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QUALITY ASSURANCE TESTING GEOMEMBRANE SEAM PEEL AND SHEAR TEST RESULTS

CLIENT:
 PROJECT:
 CONTACT:
 GEOSYNTEC JOB NO.:

TRAIL RIDGE LANDFILL SECONDARY LINER, PHASE 1A/1B
 MR. LUKE DEBOCK
 FQ2030

MATERIAL:
 SEAM TYPE:
 DATE RECEIVED:
 DATE TESTED:

POLYETHYLENE
 DOUBLE TRACK FUSION
 04/11/92
 04/11/92

SAMPLE NUMBER		SPECIMEN NUMBER		PEEL										SHEAR						
				THICKNESS (mil)		MAXIMUM TENSION (psi)		MAXIMUM STRESS (psi)		SEAM SEPARATION (%)		LOCUS OF FAILURE		PASS OR FAIL		THICKNESS (mil)	MAXIMUM TENSION (psi)	MAXIMUM STRESS (psi)	ELONGATION AT BREAK (%)	LOCUS OF FAILURE
GEOSYNTEC: CLIENT: DS-S-76 (S147/S148)	1.	60.9	60.9	118.1	128.7	N/R	N/R	0	0	B	B	N/R	N/R	61.4	157.8	N/R	>100	T	N/R	
	2.	61.2	61.2	118.2	102.2			0	0	B	B			61.1	155.4		>100	T		
	3.	60.9	60.9	118.6	94.1			0	0	B	B			61.1	157.0		>100	T		
	4.	61.0	61.0	121.1	122.8			0	0	B	B			61.4	157.0		>100	T		
	5.	61.0	61.0	127.1	118.8			0	10	B	PT			61.0	157.0		>100	T		
		MEAN	61.0	61.0	120.6	113.3								61.2	156.8					
		S.D.	0.1	0.1	3.8	14.6								0.2	0.9					
GEOSYNTEC: CLIENT: DS-S-77 (S149/S151)	1.	59.8	59.8	130.5	126.3	N/R	N/R	0	0	T	B	N/R	N/R	61.1	157.8	N/R	>100	T	N/R	
	2.	61.6	61.6	115.8	111.5			0	0	B	B			61.5	158.7		>100	T		
	3.	61.1	61.1	122.5	128.6			0	0	B	T			61.3	159.5		>100	T		
	4.	61.2	61.2	120.0	130.0			0	0	B	T			61.8	159.5		>100	T		
	5.	61.1	61.1	123.7	125.2			0	0	T	T			61.3	161.9		>100	T		
		MEAN	61.0	61.0	122.5	123.9								61.4	159.5					
		S.D.	0.7	0.7	5.4	7.2								0.2	1.5					
GEOSYNTEC: CLIENT: DS-S-78 (S151/S152)	1.	60.9	60.9	113.8	99.8	N/R	N/R	0	100	T	P	N/R	N/R	61.0	151.4	N/R	>100	T	N/R	
	2.	61.2	61.2	40.0	61.0			100	100	P	P			61.4	153.8		>100	T		
	3.	61.1	61.1	94.5	111.2			100	0	P	B			61.1	153.8		>100	T		
	4.	60.7	60.7	100.0	71.9			100	100	P	P			61.2	153.0		>100	T		
	5.	61.2	61.2	116.6	81.3			0	100	T	P			61.4	156.2		>100	T		
		MEAN	61.0	61.0	93.0	85.0								61.2	153.8					
		S.D.	0.2	0.2	31.0	20.4								0.2	1.7					
GEOSYNTEC: CLIENT: DS-S-79 (S152/S153)	1.	59.5	59.5	104.5	114.8	N/R	N/R	0	90	T	PT	N/R	N/R	60.0	154.6	N/R	>100	T	N/R	
	2.	59.3	59.3	97.3	70.1			0	100	T	P			59.5	153.8		>100	T		
	3.	60.6	60.6	123.7	127.2			0	0	T	T			60.0	156.2		>100	T		
	4.	60.7	60.7	110.5	127.6			0	0	T	B			60.0	155.4		>100	T		
	5.	59.7	59.7	108.3	131.2			0	0	T	T			60.0	157.8		>100	T		
		MEAN	60.0	60.0	106.9	114.2								59.9	155.6					
		S.D.	0.6	0.6	9.7	25.4								0.2	1.5					

QUALITY ASSURANCE TESTING

CLIENT:

PROJECT:

CONTACT:

GEOSYNTEC JOB NO.:

TRAIL RIDGE LANDFILL SECONDARY LINER, PHASE 1A/1B

MR. LUKE DEBOCK

FQ2030

MATERIAL:

SEAM TYPE:

DATE RECEIVED:

DATE TESTED:

POLYETHYLENE

EXTRUSION FILLET

04/11/92

04/11/92

[illegible]

NOTE: See Technical Notes page for explanation of abbreviations.

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QUALITY ASSURANCE TESTING GEOMEMBRANE SEAM PEEL AND SHEAR TEST RESULTS

CLIENT:
 PROJECT:
 CONTACT:
 GEOSYNTEC JOB NO.:

TRAIL RIDGE LANDFILL SECONDARY LINER, PHASE 1A/1B
 MR. LUKE DEBOCK
 FQ2030

MATERIAL:
 SEAM TYPE:
 DATE RECEIVED:
 DATE TESTED:

POLYETHYLENE
 DOUBLE TRACK FUSION
 04/14/92
 04/14/92

SAMPLE NUMBER	SPECIMEN NUMBER	PEEL										SHEAR							
		THICKNESS (mil)		MAXIMUM TENSION (psi)		MAXIMUM STRESS (psi)		SEAM SEPARATION (%)		LOCUS OF FAILURE		PASS OR FAIL		THICKNESS (mil)	MAXIMUM TENSION (psi)	MAXIMUM STRESS (psi)	ELONGATION AT BREAK (%)	LOCUS OF FAILURE	PASS OR FAIL
GEOSYNTEC: CLIENT: DS-S-79A S(S161/S162)	1.	62.0	62.0	106.1	110.5	N/R	N/R	0	0	T	T	N/R	N/R	61.8	150.0	N/R	>100	T	N/R
	2.	61.5	61.5	109.5	113.5			0	0	T	T			61.8	153.0		>100	T	
	3.	61.7	61.7	110.7	101.1			0	30	T	W			61.9	150.0		>100	T	
	4.	61.6	61.6	115.2	110.5			0	0	T	T			61.9	153.0		>100	T	
	5.	61.8	61.8	111.6	99.5			0	40	T	W			62.0	151.0		>100	T	
	MEAN	61.7	61.7	110.6	107.0									61.9	151.4				
	S.D.	0.2	0.2	3.3	6.3									0.1	1.5				
GEOSYNTEC: CLIENT: DS-S-79B S(S161/S162)	1.	60.6	60.6	116.8	118.0	N/R	N/R	0	0	T	T	N/R	N/R	60.4	150.0	N/R	>100	T	N/R
	2.	60.5	60.5	121.0	122.8			0	0	T	T			60.5	152.0		>100	T	
	3.	60.5	60.5	122.8	127.6			10	0	W	T			60.9	152.0		>100	T	
	4.	60.6	60.6	130.3	114.2			0	0	T	T			60.7	153.0		>100	T	
	5.	60.6	60.6	114.2	103.7			0	0	T	T			60.9	153.0		>100	T	
	MEAN	60.6	60.6	121.0	117.3									60.7	152.0				
	S.D.	0.1	0.1	6.2	9.1									0.2	1.2				
GEOSYNTEC: CLIENT: DS-S-79A S(S162/S163)	1.	60.1	60.1	135.8	138.3	N/R	N/R	0	0	T	T	N/R	N/R	60.4	150.0	N/R	>100	T	N/R
	2.	60.4	60.4	119.7	135.2			0	0	T	T			59.8	152.0		>100	T	
	3.	59.3	59.3	125.6	136.2			0	0	B	T			59.9	152.0		>100	T	
	4.	59.3	59.3	121.5	136.1			0	0	B	T			59.9	152.0		>100	T	
	5.	59.5	59.5	128.6	128.2			0	0	B	B			59.9	153.0		>100	T	
	MEAN	59.7	59.7	125.8	134.8									60.0	151.8				
	S.D.	0.5	0.5	6.3	3.9									0.2	1.1				
GEOSYNTEC: CLIENT: DS-S-79B S(S162/S163)	1.	60.7	60.7	116.8	102.1	N/R	N/R	0	0	T	B	N/R	N/R	59.5	150.0	N/R	>100	T	N/R
	2.	60.0	60.0	109.0	108.7			0	0	T	B			59.5	152.0		>100	T	
	3.	60.1	60.1	103.8	137.6			0	0	T	T			60.1	149.0		>100	T	
	4.	60.4	60.4	118.2	116.6			0	50	T	W			59.9	149.0		>100	T	
	5.	59.8	59.8	126.0	121.3			0	50	B	W			60.2	151.0		>100	T	
	MEAN	60.2	60.2	114.6	117.3									59.8	150.2				
	S.D.	0.4	0.4	8.6	13.5									0.3	1.3				
GEOSYNTEC: CLIENT: DS-S-81 S(S164/S166)	1.	60.6	60.6	127.1	111.2	N/R	N/R	0	0	T	T	N/R	N/R	61.4	149.0	N/R	>100	T	N/R
	2.	61.1	61.1	121.1	122.5			0	0	T	T			61.2	152.0		>100	T	
	3.	61.0	61.0	131.8	118.7			0	0	T	T			61.4	153.0		>100	T	
	4.	61.2	61.2	102.1	130.0			0	0	T	B			60.8	152.0		>100	T	
	5.	62.1	62.1	112.5	117.5			0	0	T	T			61.2	154.0		>100	T	
	MEAN	61.2	61.2	118.9	119.6									61.2	152.0				
	S.D.	0.6	0.6	11.8	7.1									0.2	1.9				

NOTE: See Technical Notes page for explanation of abbreviations.

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QUALITY ASSURANCE TESTING GEOMEMBRANE SEAM PEEL AND SHEAR TEST RESULTS

CLIENT:
PROJECT:
CONTACT:
GEOSYNTEC JOB NO.:

TRAIL RIDGE LANDFILL SECONDARY LINER, PHASE 1A/1B
MR. LUKE DEBOCK
F02030

MATERIAL:
SEAM TYPE:
DATE RECEIVED:
DATE TESTED:

POLYETHYLENE
DOUBLE TRACK FUSION
04/14/92
04/14/92

SAMPLE NUMBER	SPECIMEN NUMBER	PEEL										SHEAR				
		THICKNESS (mil)	MAXIMUM TENSION (psi)	MAXIMUM STRESS (psi)	SEAM SEPARATION (%)	LOCUS OF FAILURE	PASS OR FAIL	THICKNESS (mil)	MAXIMUM TENSION (psi)	MAXIMUM STRESS (psi)	ELONGATION AT BREAK (%)	LOCUS OF FAILURE	PASS OR FAIL	THICKNESS (mil)	MAXIMUM TENSION (psi)	MAXIMUM STRESS (psi)
GEOSYNTEC: CLIENT: DS-S-82 S(S167/S169)	1.	60.0	128.3	104.1	0	0	NIR	61.2	150.0	NIR	>100	T	NIR	61.2	150.0	NIR
	2.	59.8	129.8	114.5	0	0	NIR	61.1	151.0	NIR	>100	T	NIR	61.1	151.0	NIR
	3.	59.9	123.1	99.4	0	0	NIR	61.4	152.0	NIR	>100	T	NIR	61.4	152.0	NIR
	4.	59.5	125.6	101.5	0	0	NIR	61.0	155.0	NIR	>100	T	NIR	61.0	155.0	NIR
	5.	59.4	122.3	109.3	0	0	NIR	61.1	154.0	NIR	>100	T	NIR	61.1	154.0	NIR
GEOSYNTEC: CLIENT: DS-S-83 S(S160/S161)	MEAN	59.7	125.4	105.8				61.2	152.4					61.2	152.4	
	S.D.	0.3	3.0	6.1				0.2	2.1					0.2	2.1	
	1.	61.4	117.1	128.0	0	0	NIR	61.9	154.0	NIR	>100	T	NIR	61.9	154.0	NIR
	2.	61.6	109.8	125.1	0	0	NIR	61.9	161.0	NIR	>100	B	NIR	61.9	161.0	NIR
	3.	61.3	98.5	124.5	0	0	NIR	61.4	159.0	NIR	>100	B	NIR	61.4	159.0	NIR
GEOSYNTEC: CLIENT: DS-S-84 S(S162/S163)	4.	61.3	103.2	130.1	0	0	NIR	61.8	161.0	NIR	>100	B	NIR	61.8	161.0	NIR
	5.	61.5	123.2	131.8	0	0	NIR	61.7	159.0	NIR	>100	T	NIR	61.7	159.0	NIR
	MEAN	61.4	110.4	127.9				61.7	158.8					61.7	158.8	
	S.D.	0.1	10.0	3.1				0.2	2.9					0.2	2.9	
	1.	61.2	113.8	112.3	0	0	NIR	61.8	152.0	NIR	>100	T	NIR	61.8	152.0	NIR
GEOSYNTEC: CLIENT: DS-S-85 S(S164/S165)	2.	61.8	124.2	118.8	0	0	NIR	61.4	158.0	NIR	>100	T	NIR	61.4	158.0	NIR
	3.	61.7	99.6	113.5	0	0	NIR	61.6	158.0	NIR	>100	T	NIR	61.6	158.0	NIR
	4.	61.6	93.5	112.0	0	0	NIR	61.6	160.0	NIR	>100	T	NIR	61.6	160.0	NIR
	5.	61.6	93.5	107.2	0	0	NIR	61.8	192.0	NIR	>100	T	NIR	61.8	192.0	NIR
	MEAN	61.6	104.9	112.8				61.6	158.0					61.6	158.0	
GEOSYNTEC: CLIENT: DS-S-86 S(S167/S168)	S.D.	0.2	13.6	4.1				0.2	3.7					0.2	3.7	
	1.	60.7	118.3	111.5	0	0	NIR	60.7	156.0	NIR	>100	T	NIR	60.7	156.0	NIR
	2.	60.1	118.5	121.5	0	0	NIR	60.1	157.0	NIR	>100	T	NIR	60.1	157.0	NIR
	3.	59.7	124.1	128.8	0	0	NIR	60.1	158.0	NIR	>100	T	NIR	60.1	158.0	NIR
	4.	59.8	118.7	126.0	0	0	NIR	60.3	158.0	NIR	>100	T	NIR	60.3	158.0	NIR
GEOSYNTEC: CLIENT: DS-S-86 S(S167/S168)	5.	60.6	108.3	118.2	0	0	NIR	60.5	159.0	NIR	>100	T	NIR	60.5	159.0	NIR
	MEAN	60.2	117.6	121.2				60.3	157.8					60.3	157.8	
	S.D.	0.6	5.7	8.8				0.3	1.1					0.3	1.1	
	1.	60.9	127.0	62.9	0	100	NIR	61.0	152.0	NIR	>100	T	NIR	61.0	152.0	NIR
	2.	60.8	124.1	82.0	0	75	NIR	60.0	154.0	NIR	>100	T	NIR	60.0	154.0	NIR
GEOSYNTEC: CLIENT: DS-S-86 S(S167/S168)	3.	61.1	125.7	94.9	0	45	NIR	60.2	156.0	NIR	>100	T	NIR	60.2	156.0	NIR
	4.	60.8	120.2	124.3	0	0	NIR	60.2	156.0	NIR	>100	T	NIR	60.2	156.0	NIR
	5.	60.8	120.6	112.7	0	98	NIR	60.3	154.0	NIR	>100	T	NIR	60.3	154.0	NIR
	MEAN	60.8	123.6	95.4				60.3	154.4					60.3	154.4	
	S.D.	0.1	3.0	24.3				0.4	1.7					0.4	1.7	



Materials Testing Laboratory

QUALITY ASSURANCE TESTING GEOMEMBRANE SEAM PEEL AND SHEAR TEST RESULTS

CLIENT:
PROJECT:
CONTACT:
GEOSYNTEC JOB NO.:

TRAIL RIDGE LANDFILL SECONDARY LINER, PHASE 1A/1B
MR. LUKE DEBOCK
FQ2030

MATERIAL:
SEAM TYPE:
DATE RECEIVED:
DATE TESTED:

POLYETHYLENE
DOUBLE TRACK FUSION
04/14/92
04/14/92

SAMPLE NUMBER		PEEL										SHEAR											
		THICKNESS (mil)		MAXIMUM TENSION (psi)		MAXIMUM STRESS (psi)		SEAM SEPARATION (%)		LOCUS OF FAILURE		PASS OR FAIL	THICKNESS (mil)		MAXIMUM TENSION (psi)		MAXIMUM STRESS (psi)		ELONGATION AT BREAK (%)		LOCUS OF FAILURE		PASS OR FAIL
GEOSYNTEC: CLIENT: DS-S-87 S(S168/S171)	SPECIMEN NUMBER	I	O	I	O	I	O	I	O	I	O	I	O	I	O	I	O	I	O	I	O	I	O
	1.	61.6	61.6	121.6	132.0	N/R	N/R	0	0	B	T	N/R	N/R	60.3	151.0	N/R	>100	T	N/R				
	2.	61.4	61.4	126.6	131.6			0	0	B	T			61.5	152.0		>100	T					
	3.	61.4	61.4	126.0	130.6			0	0	B	T			62.0	156.0		>100	T					
	4.	61.4	61.4	126.0	122.1			0	0	B	T			62.0	156.0		>100	T					
GEOSYNTEC: CLIENT: DS-S-88 S(S172/S173)	SPECIMEN NUMBER	I	O	I	O	I	O	I	O	I	O	I	O	I	O	I	O	I	O	I	O	I	O
	1.	59.4	59.4	120.5	120.0	N/R	N/R	0	0	T	T	N/R	N/R	59.0	149.0	N/R	>100	T	N/R				
	2.	59.3	59.3	131.5	113.2			0	0	T	B			59.0	150.0		>100	T					
	3.	59.3	59.3	116.8	98.6			0	0	T	B			59.3	151.0		>100	T					
	4.	59.3	59.3	118.1	117.8			0	0	T	T			58.1	152.0		>100	T					
GEOSYNTEC: CLIENT: DS-S-89 S(S174/S176)	SPECIMEN NUMBER	I	O	I	O	I	O	I	O	I	O	I	O	I	O	I	O	I	O	I	O	I	O
	1.	60.3	60.3	126.0	116.0	N/R	N/R	0	0	B	T	N/R	N/R	60.1	153.0	N/R	>100	T	N/R				
	2.	60.5	60.5	126.8	117.5			0	0	B	T			61.5	153.0		>100	T					
	3.	61.3	61.3	125.3	121.7			0	0	B	T			62.1	156.0		>100	T					
	4.	61.6	61.6	126.5	125.1			0	0	B	T			60.1	155.0		>100	T					
GEOSYNTEC: CLIENT: DS-S-90 S(S177/S179)	SPECIMEN NUMBER	I	O	I	O	I	O	I	O	I	O	I	O	I	O	I	O	I	O	I	O	I	O
	1.	61.6	61.6	129.8	126.6	N/R	N/R	0	0	B	B	N/R	N/R	61.7	153.0	N/R	>100	T	N/R				
	2.	61.7	61.7	130.7	122.2			0	0	B	B			61.8	156.0		>100	T					
	3.	61.7	61.7	131.7	127.6			0	0	B	B			62.0	156.0		>100	T					
	4.	61.5	61.5	134.7	115.5			0	0	B	B			61.8	156.0		>100	T					
GEOSYNTEC: CLIENT: DS-S-91 S(S178/S180)	SPECIMEN NUMBER	I	O	I	O	I	O	I	O	I	O	I	O	I	O	I	O	I	O	I	O	I	O
	1.	61.6	61.6	130.1	123.4			0	0	B	T			61.8	155.4		>100	T					
	2.	61.7	61.7	123.6	125.1			0	0	B	T			61.5	156.0		>100	T					
	3.	61.7	61.7	123.6	125.1			0	0	B	T			61.5	156.0		>100	T					
	4.	61.7	61.7	123.6	125.1			0	0	B	T			61.5	156.0		>100	T					
GEOSYNTEC: CLIENT: DS-S-91 S(S178/S180)	SPECIMEN NUMBER	I	O	I	O	I	O	I	O	I	O	I	O	I	O	I	O	I	O	I	O	I	O
	1.	61.1	61.1	129.7	117.1	N/R	N/R	0	0	T	B	N/R	N/R	62.5	156.0	N/R	>100	T	N/R				
	2.	61.2	61.2	131.1	107.0			0	0	B	B			62.6	172.0		>100	T					
	3.	61.1	61.1	128.7	104.0			0	0	B	B			62.5	157.0		>100	T					
	4.	61.4	61.4	134.8	104.8			0	0	B	B			62.2	156.0		>100	T					
GEOSYNTEC: CLIENT: DS-S-91 S(S178/S180)	SPECIMEN NUMBER	I	O	I	O	I	O	I	O	I	O	I	O	I	O	I	O	I	O	I	O	I	O
	1.	61.3	61.3	133.6	99.6			0	0	B	B			62.2	157.0		>100	T					
	2.	61.2	61.2	131.6	106.5									62.4	159.6		>100	T					
	3.	61.2	61.2	131.6	106.5									62.4	159.6		>100	T					
	4.	61.2	61.2	131.6	106.5									62.4	159.6		>100	T					

NOTE: See Technical Notes page for explanation of abbreviations.

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QUALITY ASSURANCE TESTING GEOMEMBRANE SEAM PEEL AND SHEAR TEST RESULTS

MATERIAL: POLYETHYLENE
SEAM TYPE: DOUBLE TRACK FUSION
DATE RECEIVED: 04/14/92
DATE TESTED: 04/14/92

CLIENT: TRAIL RIDGE LANDFILL SECONDARY LINER, PHASE 1A/1B
PROJECT: MR. LUKE DEBOCK
CONTACT: FQ2030

GEOSYNTEC JOB NO.:

SAMPLE NUMBER	SPECIMEN NUMBER	PEEL										SHEAR				
		THICKNESS (mil)	MAXIMUM TENSION (psi)	MAXIMUM STRESS (psi)	SEAM SEPARATION (%)	LOCUS OF FAILURE	PASS OR FAIL	THICKNESS (mil)	MAXIMUM TENSION (psi)	MAXIMUM STRESS (psi)	ELONGATION AT BREAK (%)	LOCUS OF FAILURE	PASS OR FAIL	THICKNESS (mil)	MAXIMUM TENSION (psi)	MAXIMUM STRESS (psi)
GEOSYNTEC: CLIENT: DS-S-92 S(S181/S182)	1.	61.3	116.5	125.6	0	0	NIR	61.4	156.0	NIR	>100	T	NIR	61.4	156.0	NIR
	2.	61.3	125.3	113.1	0	0	NIR	61.8	153.0	NIR	>100	T	NIR	61.8	153.0	NIR
	3.	61.2	116.8	123.6	0	0	NIR	61.8	156.0	NIR	>100	T	NIR	61.8	156.0	NIR
	4.	61.3	123.3	124.1	0	0	NIR	61.6	153.0	NIR	>100	T	NIR	61.6	153.0	NIR
	5.	61.6	119.7	125.1	0	0	NIR	61.6	154.0	NIR	>100	T	NIR	61.6	154.0	NIR
	MEAN	61.3	120.7	122.3	0	0	NIR	61.6	154.4	NIR	>100	T	NIR	61.6	154.4	NIR
GEOSYNTEC: CLIENT: DS-S-93A S(S182/S183)	1.	61.5	115.1	115.8	0	0	NIR	61.4	147.0	NIR	>100	T	NIR	61.4	147.0	NIR
	2.	61.5	103.5	113.7	0	0	NIR	61.6	150.0	NIR	>100	T	NIR	61.6	150.0	NIR
	3.	61.7	125.5	123.2	0	0	NIR	61.4	154.0	NIR	>100	T	NIR	61.4	154.0	NIR
	4.	61.5	125.2	118.5	0	0	NIR	61.6	154.0	NIR	>100	T	NIR	61.6	154.0	NIR
	5.	61.3	96.8	114.2	0	0	NIR	61.4	155.0	NIR	>100	T	NIR	61.4	155.0	NIR
	MEAN	61.5	113.2	117.1	0	0	NIR	61.5	152.0	NIR	>100	T	NIR	61.5	152.0	NIR
GEOSYNTEC: CLIENT: DS-S-93B S(S182/S183)	1.	61.1	127.0	129.5	0	0	NIR	61.4	148.0	NIR	>100	T	NIR	61.4	148.0	NIR
	2.	60.0	116.2	124.5	0	0	NIR	61.4	151.0	NIR	>100	T	NIR	61.4	151.0	NIR
	3.	60.4	112.7	118.5	0	0	NIR	61.6	153.0	NIR	>100	T	NIR	61.6	153.0	NIR
	4.	60.8	122.6	124.1	0	0	NIR	61.8	154.0	NIR	>100	T	NIR	61.8	154.0	NIR
	5.	60.6	125.3	113.1	0	0	NIR	61.2	154.0	NIR	>100	T	NIR	61.2	154.0	NIR
	MEAN	60.6	120.8	121.9	0	0	NIR	61.5	152.0	NIR	>100	T	NIR	61.5	152.0	NIR
GEOSYNTEC: CLIENT: DS-S-94 S(S183/S184)	1.	62.3	119.5	125.0	0	0	NIR	62.9	156.0	NIR	>100	B	NIR	62.9	156.0	NIR
	2.	62.0	115.6	129.2	0	0	NIR	62.5	180.0	NIR	>100	B	NIR	62.5	180.0	NIR
	3.	62.6	126.1	128.3	0	0	NIR	62.2	180.0	NIR	>100	B	NIR	62.2	180.0	NIR
	4.	62.4	134.1	131.6	0	0	NIR	62.9	182.0	NIR	>100	B	NIR	62.9	182.0	NIR
	5.	62.3	124.0	128.6	0	0	NIR	62.8	157.0	NIR	>100	B	NIR	62.8	157.0	NIR
	MEAN	62.3	123.9	128.5	0	0	NIR	62.7	159.0	NIR	>100	B	NIR	62.7	159.0	NIR
GEOSYNTEC: CLIENT: DS-S-95 S(S185/S186)	1.	61.1	111.8	92.8	0	0	NIR	61.1	150.0	NIR	>100	T	NIR	61.1	150.0	NIR
	2.	61.1	121.7	46.0	0	0	NIR	61.3	152.0	NIR	>100	T	NIR	61.3	152.0	NIR
	3.	61.1	111.7	80.4	0	0	NIR	61.5	153.0	NIR	>100	T	NIR	61.5	153.0	NIR
	4.	61.3	115.9	106.3	0	0	NIR	61.1	153.0	NIR	>100	T	NIR	61.1	153.0	NIR
	5.	62.6	115.5	77.9	0	0	NIR	61.9	152.0	NIR	>100	T	NIR	61.9	152.0	NIR
	MEAN	61.4	115.3	80.7	0	0	NIR	61.4	152.0	NIR	>100	T	NIR	61.4	152.0	NIR
		0.7	4.1	22.4	0	0	NIR	0.3	1.2	NIR	>100	T	NIR	0.3	1.2	NIR

QUALITY ASSURANCE TESTING GEOMEMBRANE SEAM PEEL AND SHEAR TEST RESULTS

CLIENT:
PROJECT:
CONTACT:
GEOSYNTEC JOB NO.:

TRAIL RIDGE LANDFILL SECONDARY LINER, PHASE 1A/1B
MR. LUKE DEBOCK
FQ2030

MATERIAL: POLYETHYLENE
SEAM TYPE: EXTRUSION FILLET
DATE RECEIVED: 04/14/92
DATE TESTED: 04/14/92

MATERIAL: POLYETHYLENE SEAM TYPE: EXTRUSION FILLET DATE RECEIVED: 04/14/82 DATE TESTED: 04/14/82		PEEL SHEAR											
SAMPLE NUMBER	SPECIMEN NUMBER	PEEL				SHEAR							
		THICKNESS (mil)	MAXIMUM TENSION (psi)	MAXIMUM STRESS (psi)	SEAM SEPARATION (%)	LOCUS OF FAILURE	PASS OR FAIL	THICKNESS (mil)	MAXIMUM TENSION (psi)	MAXIMUM STRESS (psi)	ELONGATION AT BREAK (%)	LOCUS OF FAILURE	PASS OR FAIL
GEOSYNTEC: CLIENT: DS-S-86 S(982/5187)	1.	61.8	75.5	NIR	0	B	NIR	61.1	153.0	NIR	>100	B	NIR
	2.	62.2	97.3		0	B		61.2	157.0		>100	B	
	3.	62.1	107.1		0	B		61.8	158.0		>100	T	
	4.	62.4	132.0		0	B		61.2	154.0		>100	T	
	5.	62.3	110.5		0	B		61.6	157.0		>100	T	
	MEAN	62.2	104.5					61.4	155.8			T	
	S.D.	0.2	20.6					0.3	2.2				
	</												

POLYETHYLENE
EXTRUSION FILLET
04/15/92
04/15/92

MATERIAL:
SEAM TYPE:
DATE RECEIVED:
DATE TESTED:

TRAIL RIDGE LANDFILL SECONDARY LINER, PHASE 1A/1B
MR. LUKE DEBOCK
EQ2030

CLIENT:
PROJECT:
CONTACT:
GEOSYNTEC JOB NO.:

[illegible]

NOTE: See Technical Notes page for explanation of abbreviations.

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Materials Testing Laboratory

QUALITY ASSURANCE TESTING GEOMEMBRANE SEAM PEEL AND SHEAR TEST RESULTS

CLIENT: TRAIL RIDGE LANDFILL SECONDARY LINER, PHASE 1A/1B
PROJECT: MR. LUKE DEBOCK
CONTACT: FQ2030
MATERIAL: POLYETHYLENE
SEAM TYPE: DOUBLE TRACK FUSION
DATE RECEIVED: 04/15/92
DATE TESTED: 04/15/92

SAMPLE NUMBER		PEEL										SHEAR							
		SPECIMEN NUMBER	THICKNESS (mil)		MAXIMUM TENSION (psi)		MAXIMUM STRESS (psi)		SEAM SEPARATION (%)		LOCUS OF FAILURE		PASS OR FAIL	THICKNESS (mil)	MAXIMUM TENSION (psi)	MAXIMUM STRESS (psi)	ELONGATION AT BREAK (%)	LOCUS OF FAILURE	PASS OR FAIL
GEOSYNTEC: CLIENT: DS-S-78A1 S(S166/S167)	1.	59.5	59.7	123.6	127.9	NIR	NIR	0	0	0	T	B	NIR	59.8	147.0	NIR	>100	T	NIR
	2.	59.7	134.6	123.7	123.7	0	10	0	0	0	B	PB	NIR	59.3	150.0	NIR	>100	T	NIR
	3.	59.3	132.9	125.1	125.1	0	0	0	0	0	B	B	NIR	59.5	148.0	NIR	>100	T	NIR
	4.	59.1	114.0	133.3	133.3	0	0	0	0	0	T	T	NIR	59.0	149.0	NIR	>100	T	NIR
	5.	59.1	116.7	118.1	118.1	0	0	0	0	0	T	B	NIR	59.6	150.0	NIR	>100	T	NIR
	MEAN	59.3	124.4	125.6	125.6									59.4	148.8				
S.D.	0.3	9.3	5.8	5.8									0.3	1.3					
GEOSYNTEC: CLIENT: DS-S-79B1 S(S162/S163)	1.	60.9	60.9	96.9	125.7	NIR	NIR	0	0	0	T	T	NIR	61.6	155.0	NIR	>100	B	NIR
	2.	60.8	109.7	132.6	132.6	0	0	0	0	0	T	T	NIR	61.8	149.0	NIR	>100	T	NIR
	3.	61.0	105.4	123.6	123.6	0	0	0	0	0	T	T	NIR	61.8	147.0	NIR	>100	T	NIR
	4.	61.0	93.8	130.3	130.3	0	0	0	0	0	T	T	NIR	61.1	149.0	NIR	>100	T	NIR
	5.	60.9	93.9	133.5	133.5	0	0	0	0	0	T	T	NIR	61.2	149.0	NIR	>100	T	NIR
	MEAN	60.9	99.9	129.1	129.1									61.5	149.8				
S.D.	0.1	7.2	4.3	4.3									0.3	3.0					
GEOSYNTEC: CLIENT: DS-S-98 S(S184/S188)	1.	61.1	102.8	122.7	122.7	NIR	NIR	0	0	0	B	T	NIR	60.8	148.0	NIR	>100	T	NIR
	2.	61.2	94.5	114.9	114.9	0	0	0	0	0	T	T	NIR	61.2	150.0	NIR	>100	T	NIR
	3.	61.4	100.0	124.1	124.1	0	0	0	0	0	T	T	NIR	60.9	147.0	NIR	>100	T	NIR
	4.	61.5	94.4	121.1	121.1	0	0	0	0	0	T	T	NIR	61.1	155.0	NIR	>100	T	NIR
	5.	61.5	93.5	122.3	122.3	0	0	0	0	0	T	T	NIR	61.5	156.0	NIR	>100	T	NIR
	MEAN	61.3	97.0	121.0	121.0									61.1	151.2				
S.D.	0.2	4.1	3.6	3.6									0.3	4.1					
GEOSYNTEC: CLIENT: DS-S-99 S(S189/S190)	1.	60.3	127.7	126.5	126.5	NIR	NIR	0	0	0	B	B	NIR	60.3	156.0	NIR	>100	T	NIR
	2.	60.3	123.2	120.2	120.2	0	0	0	0	0	B	B	NIR	60.3	148.0	NIR	>100	T	NIR
	3.	60.1	127.1	106.7	106.7	0	0	0	0	0	B	B	NIR	60.2	148.0	NIR	>100	T	NIR
	4.	60.2	128.7	102.0	102.0	0	0	0	0	0	B	B	NIR	60.2	157.0	NIR	>100	T	NIR
	5.	60.3	114.9	100.2	100.2	0	0	0	0	0	B	B	NIR	60.3	147.0	NIR	>100	T	NIR
	MEAN	60.2	124.3	111.1	111.1									60.3	151.2				
S.D.	0.1	5.7	11.6	11.6									0.1	4.9					
GEOSYNTEC: CLIENT: DS-S-100 S(S190/S191)	1.	59.6	121.6	108.0	108.0	NIR	NIR	0	0	0	T	B	NIR	59.4	148.0	NIR	>100	T	NIR
	2.	59.3	109.7	109.6	109.6	0	0	0	0	0	T	B	NIR	59.6	151.0	NIR	>100	T	NIR
	3.	59.8	119.8	106.0	106.0	0	0	0	0	0	T	B	NIR	59.7	155.0	NIR	>100	B	NIR
	4.	59.7	133.5	101.6	101.6	0	0	0	0	0	B	B	NIR	59.7	153.0	NIR	>100	B	NIR
	5.	59.6	126.8	107.3	107.3	0	0	0	0	0	T	B	NIR	60.0	187.0	NIR	>100	T	NIR
	MEAN	59.6	122.3	106.5	106.5									59.7	164.8				
S.D.	0.2	8.8	3.0	3.0									0.2	7.3					

NOTE: See Technical Notes page for explanation of abbreviations.

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QUALITY ASSURANCE TESTING GEOMEMBRANE SEAM PEEL AND SHEAR TEST RESULTS

MATERIAL: POLYETHYLENE
SEAM TYPE: DOUBLE TRACK FUSION
DATE RECEIVED: 04/15/92
DATE TESTED: 04/15/92

CLIENT: TRAIL RIDGE LANDFILL SECONDARY LINER, PHASE 1A/1B
PROJECT: MR. LUKE DEBOCK
CONTACT: FQ2030

CLIENT: GEOSYNTEC JOB NO.:

SAMPLE NUMBER	SPECIMEN NUMBER	PEEL						SHEAR					
		THICKNESS (mil)	MAXIMUM TENSION (psi)	MAXIMUM STRESS (psi)	SEAM SEPARATION (%)	LOCUS OF FAILURE	PASS OR FAIL	THICKNESS (mil)	MAXIMUM TENSION (psi)	MAXIMUM STRESS (psi)	ELONGATION AT BREAK (%)	LOCUS OF FAILURE	PASS OR FAIL
GEOSYNTEC:	1.	59.0	136.1	122.1	0	0	NIR	59.1	150.0	NIR	>100	T	NIR
	2.	59.3	127.4	128.6	0	0	NIR	59.4	156.0		>100	T	
	3.	59.5	132.7	120.5	0	0	NIR	59.6	152.0		>100	T	
	4.	59.7	136.1	119.9	0	0	NIR	59.7	153.0		>100	T	
	5.	59.6	128.8	121.8	0	0	NIR	59.7	153.0		>100	T	
CLIENT:	MEAN	59.4	132.2	122.6				59.5	152.9				
	S.D.	0.3	4.0	3.5				0.3	2.2				

QUALITY ASSURANCE TESTING GEOMEMBRANE SEAM PEEL AND SHEAR TEST RESULTS

CLIENT:
PROJECT:
CONTACT:
GEOSYNTEC JOB NO.:

TRAIL RIDGE LANDFILL SECONDARY LINER, PHASE 1A/1B
MR. LUKE DEBOCK
FQ2030

MATERIAL: POLYETHYLENE
SEAM TYPE: DOUBLE TRACK FUSION
DATE RECEIVED: 04/16/92
DATE TESTED: 04/16/92

SAMPLE NUMBER	SPECIMEN NUMBER	PEEL										SHEAR													
		THICKNESS (mil)		MAXIMUM TENSION (psi)		MAXIMUM STRESS (psi)		SEAM SEPARATION (%)		LOCUS OF FAILURE		PASS OR FAIL		THICKNESS (mil)		MAXIMUM TENSION (psi)		MAXIMUM STRESS (psi)		ELONGATION AT BREAK (%)		LOCUS OF FAILURE		PASS OR FAIL	
		I	O	I	O	I	O	I	O	I	O	I	O	I	O	I	O	I	O	I	O	I	O	I	O
GEOSYNTEC: CLIENT: DS-S-86A S(S167/S168)	1.	61.6	61.6	98.2	99.9	N/R	N/R	0	0	T	B	N/R	N/R	61.7	151.0	N/R	N/R	>100	>100	T	T	N/R	N/R		
	2.	61.3	61.3	96.6	101.5			0	0	T	B			61.6	156.0			>100	>100	T	T				
	3.	61.5	61.5	137.7	103.9			0	0	B	B			61.9	155.0			>100	>100	T	T				
	4.	61.6	61.6	98.3	107.1			0	0	T	B			61.8	156.0			>100	>100	T	T				
	5.	61.8	61.8	130.5	99.9			0	0	T	B			61.8	155.0			>100	>100	T	T				
	MEAN	61.6	61.6	112.3	102.6									61.8	154.8										
	S.D.	0.2	0.2	20.1	3.1									0.1	2.1										
GEOSYNTEC: CLIENT: DS-S-86B S(S167/S168)	1.	60.5	60.5	128.9	118.0	N/R	N/R	0	0	T	B	N/R	N/R	62.6	150.0	N/R	N/R	>100	>100	T	T	N/R	N/R		
	2.	59.8	59.8	141.7	102.3			0	0	B	B			60.1	156.0			>100	>100	T	T				
	3.	59.8	59.8	127.2	105.5			0	0	B	B			60.1	157.0			>100	>100	T	T				
	4.	61.5	61.5	129.7	125.6			0	0	B	T			60.5	157.0			>100	>100	T	T				
	5.	59.8	59.8	112.7	114.4			0	0	T	T			60.5	157.0			>100	>100	T	T				
	MEAN	60.3	60.3	126.0	112.8									60.8	155.4										
	S.D.	0.7	0.7	10.3	9.2									1.0	3.0										
GEOSYNTEC: CLIENT: DS-S-86B S(S165/S169)	1.	62.5	62.5	116.8	121.6	N/R	N/R	0	0	B	T	N/R	N/R	62.6	180.3	N/R	N/R	>100	>100	T	T	N/R	N/R		
	2.	62.5	62.5	121.6	120.8			0	0	B	T			62.6	181.1			>100	>100	T	T				
	3.	62.6	62.6	124.8	121.6			0	0	B	T			62.5	159.5			>100	>100	T	T				
	4.	62.5	62.5	117.6	119.2			0	0	B	T			62.7	161.1			>100	>100	T	T				
	5.	62.6	62.6	122.4	120.8			0	0	B	T			62.4	180.3			>100	>100	T	T				
	MEAN	62.5	62.5	120.8	120.8									62.6	180.5										
	S.D.	0.1	0.1	3.4	1.0									0.1	0.7										
GEOSYNTEC: CLIENT: DS-S-102 S(S164/S166)	1.	60.5	60.5	129.7	125.6	N/R	N/R	0	0	B	T	N/R	N/R	60.5	161.1	N/R	N/R	>100	>100	T	T	N/R	N/R		
	2.	60.6	60.6	136.9	120.0			0	0	B	B			61.0	159.5			>100	>100	T	T				
	3.	60.5	60.5	124.8	120.0			0	0	T	B			60.9	157.8			>100	>100	T	T				
	4.	60.6	60.6	131.3	115.2			0	0	B	B			60.8	159.5			>100	>100	T	T				
	5.	60.9	60.9	136.1	120.8			0	0	B	B			60.9	180.1			>100	>100	T	T				
	MEAN	60.6	60.6	131.8	120.3									60.8	159.8										
	S.D.	0.2	0.2	5.0	3.7									0.2	1.2										
GEOSYNTEC: CLIENT: DS-S-103 S(S166/S167)	1.	61.3	61.3	134.5	106.3	N/R	N/R	0	0	B	B	N/R	N/R	61.6	160.3	N/R	N/R	>100	>100	T	T	N/R	N/R		
	2.	61.0	61.0	129.7	123.2			0	0	T	T			61.8	160.3			>100	>100	T	T				
	3.	60.7	60.7	132.9	131.6			0	0	B	T			61.4	161.1			>100	>100	T	T				
	4.	60.7	60.7	131.3	123.2			0	0	T	T			61.6	159.5			>100	>100	T	T				
	5.	60.8	60.8	111.1	112.7			0	0	T	B			61.2	161.1			>100	>100	T	T				
	MEAN	60.8	60.8	127.9	119.4									61.5	160.5										
	S.D.	0.3	0.3	9.6	9.9									0.2	0.7										

QUALITY ASSURANCE TESTING GEOMEMBRANE SEAM PEEL AND SHEAR TEST RESULTS

CLIENT:
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 GEOSYNTEC JOB NO.:

TRAIL RIDGE LANDFILL SECONDARY LINER, PHASE 1A/1B
 MR. LUKE DEBOCK
 FQ2030

MATERIAL: POLYETHYLENE
 SEAM TYPE: DOUBLE TRACK FUSION
 DATE RECEIVED: 04/16/92
 DATE TESTED: 04/16/92

SAMPLE NUMBER	SPECIMEN NUMBER	PEEL										SHEAR				
		THICKNESS (mil)	MAXIMUM TENSION (psi)	MAXIMUM STRESS (psi)	SEAM SEPARATION (%)	LOCUS OF FAILURE	PASS OR FAIL	THICKNESS (mil)	MAXIMUM TENSION (psi)	MAXIMUM STRESS (psi)	ELONGATION AT BREAK (%)	LOCUS OF FAILURE	PASS OR FAIL	THICKNESS (mil)	MAXIMUM TENSION (psi)	MAXIMUM STRESS (psi)
GEOSYNTEC: CLIENT: DS-S-104 S(S180/S189)	1.	61.4	144.2	140.1	NIR	NIR	NIR	62.2	159.0	NIR	>100	T	NIR	62.2	159.0	NIR
	2.	61.6	134.5	134.5	0	T	T	62.4	162.0	NIR	>100	T	NIR	62.4	162.0	NIR
	3.	61.6	147.7	115.2	0	B	B	62.4	163.0	NIR	>100	T	NIR	62.4	163.0	NIR
	4.	61.5	144.2	139.3	0	T	T	62.7	164.0	NIR	>100	T	NIR	62.7	164.0	NIR
	5.	61.4	129.7	141.7	0	T	T	62.8	164.0	NIR	>100	T	NIR	62.8	164.0	NIR
GEOSYNTEC: CLIENT: DS-S-105 S(S200/S201)	MEAN	61.5	140.1	134.2				62.5	162.4					62.5	162.4	
	S.D.	0.1	7.6	10.9				0.2	2.1					0.2	2.1	
	1.	61.5	121.6	124.8	NIR	NIR	NIR	61.1	163.9	NIR	>100	B	NIR	61.1	163.9	NIR
	2.	61.3	120.8	130.5	0	B	B	61.2	161.9	NIR	>100	B	NIR	61.2	161.9	NIR
	3.	61.2	119.2	120.0	0	B	B	61.8	161.9	NIR	>100	B	NIR	61.8	161.9	NIR
GEOSYNTEC: CLIENT: DS-S-106 S(S202/S203)	4.	61.3	125.6	111.9	0	B	PT	62.0	163.5	NIR	>100	B	NIR	62.0	163.5	NIR
	5.	61.6	118.0	136.9	0	B	B	61.8	160.3	NIR	>100	B	NIR	61.8	160.3	NIR
	MEAN	61.4	120.6	124.8				61.6	162.3					61.6	162.3	
	S.D.	0.2	3.5	9.6				0.4	1.4					0.4	1.4	
	1.	61.7	141.7	124.8	NIR	NIR	NIR	62.4	168.3	NIR	>100	B	NIR	62.4	168.3	NIR
GEOSYNTEC: CLIENT: DS-S-107 S(S204/S206)	2.	61.7	138.5	111.0	0	B	T	61.7	169.1	NIR	>100	B	NIR	61.7	169.1	NIR
	3.	62.2	116.8	123.2	0	T	T	62.0	161.9	NIR	>100	T	NIR	62.0	161.9	NIR
	4.	61.6	119.9	110.3	0	T	T	61.5	162.7	NIR	>100	T	NIR	61.5	162.7	NIR
	5.	61.9	136.9	122.4	0	B	T	61.0	161.9	NIR	>100	T	NIR	61.0	161.9	NIR
	MEAN	61.8	130.8	118.3				61.7	164.8					61.7	164.8	
GEOSYNTEC: CLIENT: DS-S-108 S(S207/S209)	S.D.	0.2	11.5	7.1				0.5	3.6					0.5	3.6	
	1.	61.6	145.0	132.9	NIR	NIR	NIR	61.6	164.3	NIR	>100	T	NIR	61.6	164.3	NIR
	2.	61.5	119.2	130.5	0	T	T	61.4	164.3	NIR	>100	T	NIR	61.4	164.3	NIR
	3.	61.8	145.0	137.7	0	B	T	61.6	168.9	NIR	>100	T	NIR	61.6	168.9	NIR
	4.	61.8	145.0	137.7	0	B	T	61.4	167.5	NIR	>100	T	NIR	61.4	167.5	NIR
GEOSYNTEC: CLIENT: DS-S-109 S(S210/S212)	5.	62.0	124.0	119.2	0	T	T	61.0	166.7	NIR	>100	T	NIR	61.0	166.7	NIR
	MEAN	61.7	135.6	131.6				61.4	165.9					61.4	165.9	
	S.D.	0.2	12.9	7.6				0.2	1.5					0.2	1.5	
	1.	61.7	135.6	131.6	NIR	NIR	NIR	61.4	165.9	NIR	>100	T	NIR	61.4	165.9	NIR
	2.	61.7	135.6	131.6	NIR	NIR	NIR	61.4	165.9	NIR	>100	T	NIR	61.4	165.9	NIR



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TRAIL RIDGE LANDFILL SECONDARY LINER, PHASE 1A/1B
MR. LUKE DEBOCK
FQ2030

MATERIAL: POLYETHYLENE
SEAM TYPE: DOUBLE TRACK FUSION
DATE RECEIVED: 04/18/92
DATE TESTED: 04/18/92

SAMPLE NUMBER		SPECIMEN NUMBER		PEEL										SHEAR							
				THICKNESS (mil)		MAXIMUM TENSION (psi)		MAXIMUM STRESS (psi)		SEAM SEPARATION (%)		LOCUS OF FAILURE		PASS OR FAIL	THICKNESS (mil)		MAXIMUM TENSION (psi)		MAXIMUM STRESS (psi)		ELONGATION AT BREAK (%)
GEOSYNTEC: CLIENT: DS-S-108 S(S207/S208)	1.	62.2	62.2	96.5	114.0	NIR	NIR	0	0	T	T	NIR	62.2	165.5	NIR	>100	B	NIR			
	2.	62.5	62.5	100.5	131.0			0	0	T	T		62.0	166.1		>100	B				
	3.	62.0	62.0	93.1	127.5			0	0	T	B		62.5	164.8		>100	B				
	4.	60.9	60.9	92.5	121.3			0	0	T	T		62.2	166.1		>100	T				
	5.	62.4	62.4	114.5	109.0			0	0	B	T		62.1	164.8		>100	T				
	MEAN	62.0	62.0	99.4	120.6								62.2	165.5							
	S.D.	0.6	0.6	9.0	9.1							0.2	0.7								
GEOSYNTEC: CLIENT: DS-S-109 S(S208/S209)	1.	61.7	61.7	125.5	123.0	NIR	NIR	0	0	B	T	NIR	61.8	163.3	NIR	>100	T	NIR			
	2.	61.3	61.3	126.1	129.0			0	0	B	T		61.6	164.3		>100	T				
	3.	61.7	61.7	121.7	131.3			0	0	B	T		61.6	164.0		>100	T				
	4.	61.7	61.7	128.3	128.5			0	0	B	T		61.7	164.1		>100	T				
	5.	61.7	61.7	120.8	137.5			0	0	B	T		61.2	164.5		>100	T				
	MEAN	61.6	61.6	124.5	129.9								61.6	164.0							
	S.D.	0.2	0.2	3.1	5.2							0.2	0.5								
GEOSYNTEC: CLIENT: DS-S-110 S(S210/S212)	1.	61.6	61.6	128.3	103.2	NIR	NIR	0	0	B	T	NIR	61.4	162.9	NIR	>100	B	NIR			
	2.	61.7	61.7	100.8	109.6			0	0	T	B		61.8	164.3		>100	T				
	3.	61.7	61.7	126.0	124.8			0	0	B	T		61.8	164.3		>100	T				
	4.	61.5	61.5	96.4	121.8			0	0	T	B		61.8	166.2		>100	T				
	5.	62.0	62.0	113.7	130.3			0	0	B	T		61.9	167.5		>100	T				
	MEAN	61.7	61.7	113.0	117.9								61.7	165.0							
	S.D.	0.2	0.2	14.4	11.2							0.2	1.8								
GEOSYNTEC: CLIENT: DS-S-111 S(S211/S213)	1.	60.0	60.0	105.3	116.7	NIR	NIR	0	0	T	B	NIR	60.6	167.4	NIR	>100	T	NIR			
	2.	60.1	60.1	108.6	115.2			0	0	T	T		60.4	167.4		>100	T				
	3.	61.8	61.8	111.3	138.5			0	0	T	T		60.4	166.9		>100	T				
	4.	61.8	61.8	117.3	132.8			0	0	T	B		60.5	166.2		>100	T				
	5.	61.6	61.6	104.2	132.3			0	0	T	T		60.4	166.3		>100	T				
	MEAN	61.1	61.1	109.3	127.1								60.5	166.8							
	S.D.	0.9	0.9	5.3	10.5							0.1	0.6								
GEOSYNTEC: CLIENT: DS-S-112 S(S213/S214)	1.	61.5	61.5	107.7	123.8	NIR	NIR	0	0	B	T	NIR	61.8	166.0	NIR	>100	T	NIR			
	2.	61.6	61.6	105.6	118.3			0	0	B	T		61.8	166.5		>100	B				
	3.	61.8	61.8	111.0	124.3			0	0	B	T		62.0	166.9		>100	B				
	4.	61.8	61.8	102.7	116.0			0	0	B	T		61.9	166.3		>100	B				
	5.	61.8	61.8	116.2	119.5			0	0	B	T		62.0	166.2		>100	B				
	MEAN	61.7	61.7	108.6	120.4								61.9	166.4							
	S.D.	0.1	0.1	5.2	3.6							0.1	0.3								

NOTE: See Technical Notes page for explanation of abbreviations.

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QUALITY ASSURANCE TESTING GEOMEMBRANE SEAM PEEL AND SHEAR TEST RESULTS

CLIENT:
 PROJECT:
 CONTACT:
 GEOSYNTEC JOB NO.:

TRAIL RIDGE LANDFILL SECONDARY LINER, PHASE 1A/1B
 MR. LUKE DEBOCK
 FQ2030

MATERIAL: POLYETHYLENE
 SEAM TYPE: DOUBLE TRACK FUSION
 DATE RECEIVED: 04/18/92
 DATE TESTED: 04/18/92

SAMPLE NUMBER	SPECIMEN NUMBER	PEEL										SHEAR						
		THICKNESS (mil)		MAXIMUM TENSION (psi)		MAXIMUM STRESS (psi)		SEAM SEPARATION (%)		LOCUS OF FAILURE		PASS OR FAIL	THICKNESS (mil)	MAXIMUM TENSION (psi)	MAXIMUM STRESS (psi)	ELONGATION AT BREAK (%)	LOCUS OF FAILURE	PASS OR FAIL
		I	O	I	O	I	O	I	O	I	O	I	O					
GEOSYNTEC: CLIENT: DS-S-113 S(S216/S217)	1.	60.5	60.5	108.3	115.2	NIR	NIR	0	0	T	T	NIR	61.2	183.5	NIR	>100	B	NIR
	2.	60.9	60.9	113.0	105.0			0	0	T	B		61.4	184.6		>100	B	
	3.	61.0	61.0	107.8	120.3			0	0	T	T		61.7	185.0		>100	B	
	4.	60.7	60.7	113.6	121.3			0	0	T	T		61.8	184.8		>100	B	
	5.	61.1	61.1	115.3	112.7			0	0	T	B		61.5	187.5		>100	T	
	MEAN	60.8	60.8	111.8	114.9								61.5	185.1				
	S.D.	0.2	0.2	3.4	6.6								0.2	1.6				
GEOSYNTEC: CLIENT: DS-S-114 S(S218/S219)	1.	60.5	60.5	127.0	116.6	NIR	NIR	0	0	T	T	NIR	60.7	185.5	NIR	>100	B	NIR
	2.	60.9	60.9	120.8	117.6			0	0	B	T		61.0	180.2		>100	B	
	3.	60.3	60.3	126.8	107.0			0	0	T	T		60.7	185.7		>100	B	
	4.	60.3	60.3	140.6	120.5			0	0	T	B		60.5	186.7		>100	B	
	5.	60.8	60.8	105.5	130.6			0	0	T	T		60.8	185.4		>100	B	
	MEAN	60.6	60.6	124.1	118.5								60.7	184.7				
	S.D.	0.3	0.3	12.7	8.5								0.2	2.6				
GEOSYNTEC: CLIENT: DS-S-115 S(S219/S220)	1.	59.7	59.7	138.3	130.0	NIR	NIR	0	0	B	T	NIR	59.4	183.0	NIR	>100	T	NIR
	2.	59.5	59.5	136.7	121.1			0	0	B	T		59.5	184.2		>100	T	
	3.	59.0	59.0	135.1	122.1			0	0	B	B		59.4	184.3		>100	T	
	4.	59.3	59.3	124.3	127.0			0	0	T	B		60.0	184.2		>100	T	
	5.	59.6	59.6	131.8	126.5			0	0	B	T		59.7	184.0		>100	T	
	MEAN	59.4	59.4	133.2	125.3								59.6	183.9				
	S.D.	0.3	0.3	5.5	3.7								0.3	0.5				

QUALITY ASSURANCE TESTING GEOMEMBRANE SEAM PEEL AND SHEAR TEST RESULTS

CLIENT: TRAIL RIDGE LANDFILL SECONDARY LINER, PHASE 1A/1B
PROJECT: MR. LUKE DEBOCK
CONTACT: FQ2030
GEOSYNTEC JOB NO.:

MATERIAL: POLYETHYLENE
SEAM TYPE: DOUBLE TRACK FUSION
DATE RECEIVED: 04/26/92
DATE TESTED: 04/26/92

SAMPLE NUMBER	SPECIMEN NUMBER	PEEL										SHEAR				
		THICKNESS (mil)	MAXIMUM TENSION (psi)	MAXIMUM STRESS (psi)	SEAM SEPARATION (%)	LOCUS OF FAILURE	PASS OR FAIL	THICKNESS (mil)	MAXIMUM TENSION (psi)	MAXIMUM STRESS (psi)	ELONGATION AT BREAK (%)	LOCUS OF FAILURE	PASS OR FAIL	THICKNESS (mil)	MAXIMUM TENSION (psi)	MAXIMUM STRESS (psi)
GEOSYNTEC: CLIENT: DS-S-116 S(S212/S123)	1.	61.2	136.8	91.3	0	0	NIR	60.8	161.8	NIR	>100	T	NIR	60.8	161.8	NIR
	2.	61.3	113.5	101.2	20	0	PT	60.8	169.9	NIR	>100	T	NIR	60.8	169.9	NIR
	3.	61.1	88.0	99.9	20	10	PT	61.2	169.1	NIR	>100	T	NIR	61.2	169.1	NIR
	4.	60.9	141.8	101.6	0	0	T	61.2	164.3	NIR	>100	T	NIR	61.2	164.3	NIR
	5.	60.3	99.9	127.2	0	0	T	60.8	165.1	NIR	>100	T	NIR	60.8	165.1	NIR
	MEAN	61.0	116.0	104.2				61.0	165.0					61.0	165.0	
	S.D.	0.4	23.2	13.5				0.2	3.5					0.2	3.5	
GEOSYNTEC: CLIENT: DS-S-117 S(S223/S224)	1.	61.7	137.7	117.6	0	0	NIR	61.4	164.3	NIR	>100	T	NIR	61.4	164.3	NIR
	2.	61.4	137.3	122.3	0	0	B	61.4	165.1	NIR	>100	B	NIR	61.4	165.1	NIR
	3.	61.7	130.7	113.6	0	0	T	61.4	164.3	NIR	>100	B	NIR	61.4	164.3	NIR
	4.	61.8	110.5	122.6	0	0	T	61.3	164.3	NIR	>100	B	NIR	61.3	164.3	NIR
	5.	61.7	135.7	125.2	0	0	T	61.2	165.9	NIR	>100	B	NIR	61.2	165.9	NIR
	MEAN	61.7	130.4	120.3				61.3	164.8					61.3	164.8	
	S.D.	0.2	11.5	4.6				0.1	0.7					0.1	0.7	
GEOSYNTEC: CLIENT: DS-S-118 S(S226/S227)	1.	60.7	135.1	104.7	0	0	NIR	60.8	163.5	NIR	>100	B	NIR	60.8	163.5	NIR
	2.	60.9	133.1	105.0	0	0	B	60.9	162.7	NIR	>100	T	NIR	60.9	162.7	NIR
	3.	60.8	134.1	105.6	0	0	B	60.9	163.5	NIR	>100	T	NIR	60.9	163.5	NIR
	4.	61.1	133.8	129.2	0	0	B	61.1	161.9	NIR	>100	T	NIR	61.1	161.9	NIR
	5.	61.1	133.1	118.8	0	0	B	60.7	162.7	NIR	>100	T	NIR	60.7	162.7	NIR
	MEAN	60.9	133.8	112.7				60.9	162.9					60.9	162.9	
	S.D.	0.2	0.8	11.0				0.1	0.7					0.1	0.7	
GEOSYNTEC: CLIENT: DS-S-119 S(S228/S229)	1.	59.9	104.8	122.6	0	0	NIR	60.0	161.0	NIR	>100	T	NIR	60.0	161.0	NIR
	2.	59.6	108.2	112.6	0	0	T	59.9	161.1	NIR	>100	B	NIR	59.9	161.1	NIR
	3.	59.7	108.7	131.6	0	0	T	60.1	161.9	NIR	>100	B	NIR	60.1	161.9	NIR
	4.	59.6	117.8	125.8	0	0	T	60.1	161.9	NIR	>100	B	NIR	60.1	161.9	NIR
	5.	60.0	105.3	131.7	0	0	T	60.1	161.1	NIR	>100	T	NIR	60.1	161.1	NIR
	MEAN	59.8	109.0	124.9				60.0	161.4					60.0	161.4	
	S.D.	0.2	5.2	7.9				0.1	0.5					0.1	0.5	
GEOSYNTEC: CLIENT: DS-S-120 S(S237/S238)	1.	60.3	121.3	132.0	0	0	NIR	60.3	158.5	NIR	>100	B	NIR	60.3	158.5	NIR
	2.	60.3	125.3	128.0	0	0	T	60.2	160.3	NIR	>100	B	NIR	60.2	160.3	NIR
	3.	59.9	129.1	119.6	0	0	T	60.3	160.3	NIR	>100	B	NIR	60.3	160.3	NIR
	4.	60.2	132.2	128.2	0	0	B	60.5	161.9	NIR	>100	B	NIR	60.5	161.9	NIR
	5.	60.3	132.7	134.6	0	0	B	60.1	162.7	NIR	>100	B	NIR	60.1	162.7	NIR
	MEAN	60.2	126.1	127.9				60.3	160.9					60.3	160.9	
	S.D.	0.2	0.2	6.1				0.1	1.3					0.1	1.3	

QUALITY ASSURANCE TESTING GEOMEMBRANE SEAM PEEL AND SHEAR TEST RESULTS

CLIENT:
PROJECT:
CONTACT:
GEOSYNTEC JOB NO.:

TRAIL RIDGE LANDFILL SECONDARY LINER, PHASE 1A/1B
MR. LUKE DEBOCK
FQ2030

MATERIAL:
SEAM TYPE:
DATE RECEIVED:
DATE TESTED:

POLYETHYLENE
DOUBLE TRACK FUSION
04/25/92
04/25/92

SAMPLE NUMBER	SPECIMEN NUMBER	PEEL										SHEAR				
		THICKNESS (mil)	MAXIMUM TENSION (psi)	MAXIMUM STRESS (psi)	SEAM SEPARATION (%)	LOCUS OF FAILURE	PASS OR FAIL	THICKNESS (mil)	MAXIMUM TENSION (psi)	MAXIMUM STRESS (psi)	ELONGATION AT BREAK (%)	LOCUS OF FAILURE	PASS OR FAIL	THICKNESS (mil)	MAXIMUM TENSION (psi)	MAXIMUM STRESS (psi)
GEOSYNTEC:	1.	59.5	107.8	95.9	NIR	NIR	NIR	59.5	160.3	NIR	>100	T	NIR	59.5	160.3	NIR
	2.	59.5	108.8	95.4	NIR	NIR	NIR	59.1	159.5	NIR	>100	B	NIR	59.1	159.5	NIR
	3.	59.1	121.1	127.0	NIR	NIR	NIR	59.5	158.7	NIR	>100	B	NIR	59.5	158.7	NIR
	4.	59.8	114.6	126.5	NIR	NIR	NIR	59.5	158.7	NIR	>100	B	NIR	59.5	158.7	NIR
	5.	59.4	111.0	122.5	NIR	NIR	NIR	59.5	157.8	NIR	>100	B	NIR	59.5	157.8	NIR
CLIENT:	MEAN	59.5	112.7	113.5				59.4	159.0					59.4	159.0	
	S.D.	0.3	5.4	16.4				0.2	0.9					0.2	0.9	
DS-S-121 S(8245/S246)																

QUALITY ASSURANCE TESTING

CLIENT:

PROJECT:

CONTACT:

GEOSYNTEC JOB NO.:

TRAIL RIDGE LANDFILL SECONDARY LINER, PHASE 1A/1B

MR. LUKE DEBOCK

FQ2030

MATERIAL:

SEAM TYPE:

DATE RECEIVED:

DATE TESTED:

POI VETHM ENE

23 1 113 NUIS1181A3
7A157111171201

04/07/09
05/11/09

30/13/14-0
20/12/100

[illegible]

NOTE: See Technical Notes page for explanation of abbreviations.

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QUALITY ASSURANCE TESTING GEOMEMBRANE SEAM PEEL AND SHEAR TEST RESULTS

CLIENT:

PROJECT:

CONTACT:

GEOSYNTEC JOB NO.:

TRAIL RIDGE LANDFILL SECONDARY LINER, PHASE 1A/1B

MR. LUKE DEBOCK

FQ2030

MATERIAL:

SEAM TYPE:

DATE RECEIVED:

DATE TESTED:

POLYETHYLENE

DOUBLE TRACK FUSION

04/27/92

04/27/92

[illegible]

NOTE: See Technical Notes page for explanation of abbreviations.

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TECHNICAL NOTE

EXPLANATION OF TERMS
USED IN FUSED SEAM TEST DATA

Parameters and terminology used to report geomembrane peel and shear test results are explained below:

SHEAR MAXIMUM TENSION -- the load per unit width of specimen at which the specimen yields.

SHEAR ELONGATION AT BREAK -- the extension at break expressed as a percentage of the initial distance between the edge of the fused track and the nearer grip. This distance is the same on both sides of the seam and is usually 25 mm (1 in.).

PEEL MAXIMUM TENSION -- the maximum load per unit width of specimen recorded during the peel test.

PEEL SEAM SEPARATION -- the area of seam interface separation expressed as a percentage of the original fused area.

These peel parameters are presented for both fused tracks. Figures for the track closer to the edge of the bottom sheet (I) are presented first and are followed by figures for the track closer to the edge of the top sheet (O). This will only apply to samples received from field installations when the top and bottom sheets can be clearly identified.

The locus of the failure is designated as follows:

- T -- break occurs in the upper geomembrane
- B -- break occurs in the lower geomembrane
- G -- break occurs in the geomembrane when the upper and lower geomembrane cannot be identified
- P -- complete peel separation
- F -- failure occurs at the fabric interface of supported geomembranes
- S -- failure occurs at the seam interface of supported geomembranes

Note: P may be followed by another designation if the specimen does not peel completely (e.g., PB -- some peel separation followed by break in the bottom geomembrane).

Thickness measurements are taken on the geomembrane in which failure occurs.

An N/R designation indicates that the information under the appropriate heading was not requested.



TECHNICAL NOTE

EXPLANATION OF TERMS
USED IN EXTRUDED FILLET SEAMS TEST DATA

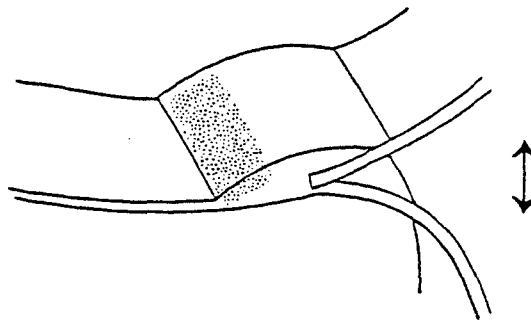
Parameters and terminology used to report geomembrane peel and shear test results are explained below:

SHEAR MAXIMUM TENSION -- the load per unit width of specimen at which the specimen yields.

SHEAR ELONGATION AT BREAK -- the extension at break expressed as a percentage of the initial distance between the edge of the extrudate and the nearer grip. This distance is the same on both sides of the seam and is usually 25 mm (1 in.).

PEEL MAXIMUM TENSION -- the maximum load per unit width of specimen recorded during the peel test.

PEEL SEAM SEPARATION -- the area of seam interface separation expressed as a percentage of the original fused area. The original area is shaded in the diagram.



The locus of the failure is designated as follows:

- T -- break occurs in the upper geomembrane
- B -- break occurs in the lower geomembrane
- W -- break occurs in the weld bead
- P -- complete peel separation

Note: P may be followed by another designation if the specimen does not peel completely (e.g., PB -- some peel separation followed by break in the bottom geomembrane).

- L -- break occurred within the tack weld or at damage caused by separation of the tack weld
- L -- (after figures) -- tack weld could not be separated and was included in test

Note: The tack weld may interfere with the ability to properly evaluate the designed extrusion weld.

The N/R designation indicates that the information under the appropriate heading was not requested.

PRIMARY GEOMEMBRANE LINER

**POLYETHYLENE GEOMEMBRANE SEAM QUALITY ASSURANCE
TEST RESULTS FOR THE TRAIL RIDGE LANDFILL
PRIMARY LINER, PHASE IA/IB**

REPORT

Prepared for

**Trail Ridge Landfill, Inc.
500 Cypress Creek Road West, Suite 300
Fort Lauderdale, Florida 33309-6127**

by

**GeoSyntec Consultants
Materials Testing Laboratory
3050 S.W. 14th Place, Suite 18
Boynton Beach, Florida 33426**

**GeoSyntec Consultants Project No. FQ2030
RWH:A:\2030SS**

May 1992

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CAVEAT

This testing report applies only to the sample(s) tested and does not necessarily indicate the quality or condition of apparently identical or similar products. As a mutual protection to our clients, the public, and GeoSyntec Consultants, this testing report is submitted and accepted for the exclusive use of the client to whom it is addressed and upon the condition that this report is not used, in whole or in part, in any advertising or publicity matter without prior written authorization from GeoSyntec Consultants. The testing was performed in accordance with general testing industry standards and requirements.

1. INTRODUCTION

The details of samples submitted for testing to GeoSyntec Consultants, Materials Testing Laboratory, 3050 S.W. 14th Place, Suite 18, Boynton Beach, Florida 33426, are as follows:

Submitted by: Mr. Luke DeBock

Client:

Address: 500 Cypress Creek Road West
Suite 300
Fort Lauderdale, Florida 33309

Project: Trail Ridge Landfill

Materials tested: Polyethylene Geomembrane Seams

2. TEST PROGRAM

The standards used in the geosynthetics testing are described in Attachment A. The test results for the polyethylene geomembrane seams are included in Attachment B.

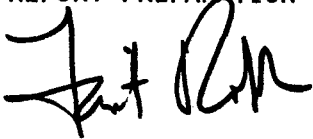
3. STORAGE AND DISPOSAL OF MATERIALS

Samples will be stored for 30 days from the date of this report and then discarded unless GeoSyntec is informed otherwise.

* * * * *

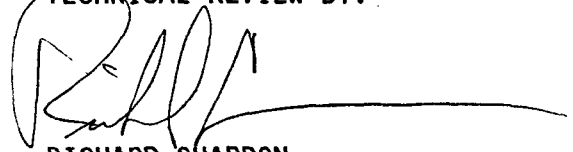
REPORT REVIEW

REPORT PREPARATION BY:



TAIT ROBB
Manager, Mechanical Laboratory

TECHNICAL REVIEW BY:



RICHARD CHARRON
Quality Control
Division Manager

ATTACHMENT A
STANDARDS USED IN TESTING

STANDARDS USED IN TESTING

Polyethylene Geomembrane Seams

NSF 54/ Seam Peel/Shear Strength -- "Flexible Membrane Liners";
ASTM D4437 "Standard Practice for Determining the Integrity of Field Seams
Used in Joining Flexible Polymeric Sheet Geomembranes"

ATTACHMENT B

POLYETHYLENE GEOMEMBRANE SEAM TEST RESULTS

QUALITY ASSURANCE TESTING GEOMEMBRANE SEAM PEEL AND SHEAR TEST RESULTS

CLIENT:
 PROJECT:
 CONTACT:
 GEOSYNTEC JOB NO.:

TRAIL RIDGE LANDFILL PRIMARY LINER, PHASE 1A/1B
 MR. LUKE DEBOCK
 FQ2030

MATERIAL: POLYETHYLENE
 SEAM TYPE: DOUBLE TRACK FUSION
 DATE RECEIVED: 03/16/92
 DATE TESTED:

SAMPLE NUMBER	SPECIMEN NUMBER	PEEL										SHEAR													
		THICKNESS (mil)		MAXIMUM TENSION (psi)		MAXIMUM STRESS (psi)		SEAM SEPARATION (%)		LOCUS OF FAILURE		PASS OR FAIL		THICKNESS (mil)		MAXIMUM TENSION (psi)		MAXIMUM STRESS (psi)		ELONGATION AT BREAK (%)		LOCUS OF FAILURE		PASS OR FAIL	
		I	O	I	O	I	O	I	O	I	O	I	O	I	O	I	O	I	O	I	O	I	O	I	O
GEOSYNTEC: CLIENT: DS-P-1 S(P3/P4)	1.	60.9	60.9	130.0	113.6	N/R	N/R	0	0	B	B	N/R	N/R	61.9	158.5	N/R	N/R	>100	>100	T	T	N/R	N/R		
	2.	60.8	60.5	129.8	122.6			0	0	T	B			62.0	157.7			>100	>100	B	B				
	3.	60.7	60.7	121.7	116.6			0	0	B	B			60.4	158.7			>100	>100	B	B				
	4.	60.7	60.7	124.0	133.5			0	0	T	T			60.4	159.0			>100	>100	B	B				
	5.	60.2	60.4	116.2	104.6			0	0	T	B			60.8	158.2			>100	>100	B	B				
	MEAN	60.7	60.6	124.3	118.2									61.1	158.4										
S.D.	0.3	0.2	5.8	10.7									0.8	0.5											
GEOSYNTEC: CLIENT: DS-P-2 S(P8/P9)	1.	61.5	61.5	136.8	97.9	N/R	N/R	0	0	B	B	N/R	N/R	61.5	158.7	N/R	N/R	>100	>100	B	B	N/R	N/R		
	2.	61.6	61.6	137.5	97.1			0	0	B	B			61.6	160.1			>100	>100	B	B				
	3.	61.4	61.4	104.0	126.7			0	0	T	T			61.8	156.0			>100	>100	B	B				
	4.	61.3	61.3	105.3	124.3			0	0	T	T			61.3	160.0			>100	>100	B	B				
	5.	61.2	61.2	100.7	125.7			0	0	T	T			61.5	159.5			>100	>100	B	B				
	MEAN	61.4	61.4	116.9	114.3									61.5	158.9										
S.D.	0.2	0.2	18.8	15.4									0.2	1.7											
GEOSYNTEC: CLIENT: DS-P-3 S(P13/P14)	1.	61.6	61.6	103.1	130.1	N/R	N/R	0	0	T	T	N/R	N/R	61.3	159.6	N/R	N/R	>100	>100	B	B	N/R	N/R		
	2.	61.4	61.4	102.8	138.7			0	0	T	T			61.4	159.3			>100	>100	B	B				
	3.	61.5	61.5	96.0	135.0			0	0	T	T			61.4	160.7			>100	>100	B	B				
	4.	61.4	61.4	106.5	138.6			0	0	T	T			61.6	158.2			>100	>100	B	B				
	5.	61.6	61.4	111.3	133.0			0	0	T	B			61.5	159.0			>100	>100	B	B				
	MEAN	61.5	61.5	103.9	135.1									61.4	158.4										
S.D.	0.1	0.1	5.6	3.7									0.1	0.9											
GEOSYNTEC: CLIENT: DS-P-4 S(P16/P17)	1.	61.4	61.1	98.9	130.5	N/R	N/R	0	0	T	B	N/R	N/R	61.4	162.8	N/R	N/R	>100	>100	B	B	N/R	N/R		
	2.	61.1	61.1	128.5	137.6			0	0	T	T			61.1	164.3			>100	>100	B	B				
	3.	61.2	61.2	99.4	136.0			0	0	T	T			61.1	164.8			>100	>100	B	B				
	4.	61.4	61.4	111.3	131.0			0	0	T	T			61.1	164.3			>100	>100	B	B				
	5.	61.3	61.3	107.0	131.2			0	0	T	T			61.1	165.6			>100	>100	T	T				
	MEAN	61.3	61.2	109.0	133.3									61.2	164.4										
S.D.	0.1	0.1	12.1	3.3									0.1	1.0											

QUALITY ASSURANCE TESTING GEOMEMBRANE SEAM PEEL AND SHEAR TEST RESULTS

CLIENT: TRAIL RIDGE LANDFILL PRIMARY LINER, PHASE 1A/1B
PROJECT: MR. LUKE DEBOCK
CONTACT: FQ2030
GEOSYNTEC JOB NO.:
MATERIAL: POLYETHYLENE
SEAM TYPE: DOUBLE TRACK FUSION
DATE RECEIVED: 03/28/92
DATE TESTED: 03/28/92

SAMPLE NUMBER		PEEL										SHEAR											
		THICKNESS (mil)		MAXIMUM TENSION (psi)		MAXIMUM STRESS (psi)		SEAM SEPARATION (%)		LOCUS OF FAILURE		PASS OR FAIL	MAXIMUM TENSION (psi)		MAXIMUM STRESS (psi)		ELONGATION AT BREAK (%)		LOCUS OF FAILURE		PASS OR FAIL		
SPECIMEN NUMBER		I	O	I	O	I	O	I	O	I	O	I	O	I	O	THICKNESS (mil)	MAXIMUM TENSION (psi)	MAXIMUM STRESS (psi)	ELONGATION AT BREAK (%)		LOCUS OF FAILURE		PASS OR FAIL
GEOSYNTEC: CLIENT: DS-P-5 (SP21/P20)	1.	60.3	60.3	146.7	118.1	N/R	N/R	0	0	B	B	N/R	N/R	60.6	161.0	N/R				>100	B		N/R
	2.	60.4	60.4	118.1	104.1			0	0	T	B			60.6	162.0					>100	B		
	3.	60.7	60.7	144.3	134.2			0	0	B	T			60.6	163.0					>100	B		
	4.	60.6	60.6	126.0	120.0			0	0	T	T			60.5	163.0					>100	B		
	5.	60.5	60.5	138.2	138.0			0	0	B	B			60.5	165.0					>100	B		
	MEAN	60.5	60.5	134.7	122.9									60.6	162.8								
S.D.	0.2	0.2	12.2	13.6									0.1	1.6									
GEOSYNTEC: CLIENT: DS-P-6 (SP21/P22)	1.	60.1	60.1	127.5	132.0	N/R	N/R	0	100	B	P	N/R	N/R	59.9	159.0	N/R				>100	B		N/R
	2.	60.3	60.3	135.8	115.5			0	0	B	T			59.9	157.0					>100	B		
	3.	60.3	60.3	141.6	105.5			0	0	B	T			60.7	158.0					>100	B		
	4.	60.3	60.3	125.5	97.8			0	70	B	PT			60.0	162.0					>100	B		
	5.	60.7	60.7	137.3	122.5			0	0	B	T			60.9	164.0					>100	B		
	MEAN	60.3	60.3	133.5	114.7									60.3	160.0								
S.D.	0.2	0.2	8.8	13.5									0.5	2.9									
GEOSYNTEC: CLIENT: DS-P-7 (SP22/P24)	1.	60.9	60.9	118.5	118.5	N/R	N/R	0	0	T	T	N/R	N/R	60.8	158.0	N/R				>100	T		N/R
	2.	60.6	60.6	132.1	121.1			0	0	B	T			60.6	163.0					>100	T		
	3.	60.9	60.9	134.1	121.7			0	0	T	B			60.8	164.0					>100	T		
	4.	61.0	61.0	120.6	130.3			0	0	B	B			61.0	163.0					>100	T		
	5.	61.1	61.1	122.7	124.5			0	0	B	T			60.9	159.0					>100	T		
	MEAN	60.9	60.9	126.6	123.2									60.8	161.4								
S.D.	0.2	0.2	7.0	4.5									0.2	2.7									
GEOSYNTEC: CLIENT: DS-P-8 (SP24/P26)	1.	61.2	61.2	121.8	135.1	N/R	N/R	0	0	B	B	N/R	N/R	61.5	159.0	N/R				>100	B		N/R
	2.	61.1	61.1	125.8	124.6			0	0	B	B			61.8	169.0					>100	B		
	3.	61.1	61.1	123.5	135.6			0	0	B	T			61.6	171.0					>100	B		
	4.	61.4	61.4	129.0	135.6			0	0	B	B			61.3	171.0					>100	T		
	5.	61.8	61.8	126.1	140.5			0	0	B	B			61.1	168.0					>100	T		
	MEAN	61.3	61.3	125.2	134.3									61.6	167.6								
S.D.	0.3	0.3	2.7	5.8									0.3	5.0									
GEOSYNTEC: CLIENT: DS-P-9 (SP26/P28)	1.	60.9	60.9	141.8	127.3	N/R	N/R	0	0	B	T	N/R	N/R	60.2	160.0	N/R				>100	B		N/R
	2.	60.5	60.5	129.5	135.6			0	0	B	B			60.6	160.0					>100	B		
	3.	60.4	60.4	133.0	125.7			0	0	B	T			60.7	163.0					>100	B		
	4.	60.3	60.3	121.5	138.1			0	0	T	T			60.6	163.0					>100	B		
	5.	60.0	60.0	128.5	127.3			0	0	B	T			60.0	166.0					>100	T		
	MEAN	60.4	60.4	130.9	130.8									60.4	162.4								
S.D.	0.3	0.3	7.4	5.6									0.3	2.5									

NOTE: See Technical Notes page for explanation of abbreviations.

TRAIL RIDGE LANDFILL PRIMARY LINER, PHASE 1A/1B
MR. LUKE DEBOCK
FQ2030

MATERIAL:	POLYETHYLENE
SEAM TYPE:	DOUBLE TRACK FUSION
DATE RECEIVED:	03/28/92
DATE TESTED:	03/28/92

[illegible]

NOTE: See Technical Notes page for explanation of abbreviations.

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QUALITY ASSURANCE TESTING GEOMEMBRANE SEAM PEEL AND SHEAR TEST RESULTS

CLIENT: **TRAIL RIDGE LANDFILL PRIMARY LINER, PHASE 1A/1B**
 PROJECT: **MR. LUKE DEBOCK**
 CONTACT: **FQ2030**
 GEOSYNTEC JOB NO.:

MATERIAL: **POLYETHYLENE**
 SEAM TYPE: **DOUBLE TRACK FUSION**
 DATE RECEIVED: **03/29/92**
 DATE TESTED:

SAMPLE NUMBER	SPECIMEN NUMBER	PEEL										SHEAR				
		THICKNESS (mil)	MAXIMUM TENSION (psi)	MAXIMUM STRESS (psi)	SEAM SEPARATION (%)	LOCUS OF FAILURE	PASS OR FAIL	THICKNESS (mil)	MAXIMUM TENSION (psi)	MAXIMUM STRESS (psi)	ELONGATION AT BREAK (%)	LOCUS OF FAILURE	PASS OR FAIL	THICKNESS (mil)	MAXIMUM TENSION (psi)	MAXIMUM STRESS (psi)
GEOSYNTEC: CLIENT: DS-P-6A S(P21/P22)	1.	59.8	132.9	109.4	NIR	NIR	NIR	60.9	186.0	NIR	>100	T	NIR	60.9	186.0	NIR
	2.	60.0	137.7	110.9	NIR	NIR	NIR	60.9	170.0	NIR	>100	T	NIR	60.9	170.0	NIR
	3.	60.8	137.0	128.6	NIR	NIR	NIR	61.1	170.0	NIR	>100	T	NIR	61.1	170.0	NIR
	4.	60.9	142.8	122.8	NIR	NIR	NIR	60.9	171.0	NIR	>100	T	NIR	60.9	171.0	NIR
	5.	60.1	126.4	106.4	NIR	NIR	NIR	60.8	171.0	NIR	>100	T	NIR	60.8	171.0	NIR
	MEAN	60.3	135.4	115.2				60.9	186.0					60.9	186.0	
	S.D.	0.5	6.1	8.9				0.2	2.1					0.2	2.1	
GEOSYNTEC: CLIENT: DS-P-6B S(P21/P22)	1.	61.1	133.4	123.4	NIR	NIR	NIR	60.1	189.0	NIR	>100	B	NIR	60.1	189.0	NIR
	2.	60.7	128.8	123.6	NIR	NIR	NIR	60.4	171.0	NIR	>100	B	NIR	60.4	171.0	NIR
	3.	61.4	137.0	120.6	NIR	NIR	NIR	60.2	171.0	NIR	>100	B	NIR	60.2	171.0	NIR
	4.	60.6	138.5	122.5	NIR	NIR	NIR	60.7	186.0	NIR	>100	B	NIR	60.7	186.0	NIR
	5.	60.6	131.6	126.6	NIR	NIR	NIR	60.8	170.0	NIR	>100	B	NIR	60.8	170.0	NIR
	MEAN	60.9	133.9	123.3				60.4	189.4					60.4	189.4	
	S.D.	0.4	3.9	2.2				0.3	2.1					0.3	2.1	
GEOSYNTEC: CLIENT: DS-P-11 S(P30/P31)	1.	60.5	118.9	125.6	NIR	NIR	NIR	60.5	184.0	NIR	>100	T	NIR	60.5	184.0	NIR
	2.	60.7	113.7	128.3	NIR	NIR	NIR	60.5	164.0	NIR	>100	T	NIR	60.5	164.0	NIR
	3.	60.3	118.8	117.1	NIR	NIR	NIR	60.1	167.0	NIR	>100	B	NIR	60.1	167.0	NIR
	4.	60.5	112.0	116.7	NIR	NIR	NIR	60.5	168.0	NIR	>100	B	NIR	60.5	168.0	NIR
	5.	60.1	102.1	114.2	NIR	NIR	NIR	60.1	172.0	NIR	>100	B	NIR	60.1	172.0	NIR
	MEAN	60.4	113.1	120.4				60.3	167.0					60.3	167.0	
	S.D.	0.2	6.9	6.2				0.2	3.3					0.2	3.3	
GEOSYNTEC: CLIENT: DS-P-12 S(P32/P33)	1.	60.7	134.9	118.1	NIR	NIR	NIR	61.3	168.0	NIR	>100	T	NIR	61.3	168.0	NIR
	2.	61.4	123.9	110.0	NIR	NIR	NIR	61.4	167.0	NIR	>100	T	NIR	61.4	167.0	NIR
	3.	61.7	119.0	110.5	NIR	NIR	NIR	61.5	169.0	NIR	>100	T	NIR	61.5	169.0	NIR
	4.	60.8	128.0	117.4	NIR	NIR	NIR	61.6	167.0	NIR	>100	T	NIR	61.6	167.0	NIR
	5.	60.5	111.9	109.6	NIR	NIR	NIR	61.3	166.0	NIR	>100	T	NIR	61.3	166.0	NIR
	MEAN	61.0	123.7	113.1				61.4	167.4					61.4	167.4	
	S.D.	0.6	8.9	4.2				0.1	1.1					0.1	1.1	
GEOSYNTEC: CLIENT: DS-P-13 S(P38/P40)	1.	61.4	130.7	120.8	NIR	NIR	NIR	61.1	163.0	NIR	>100	T	NIR	61.1	163.0	NIR
	2.	61.1	105.9	119.5	NIR	NIR	NIR	61.2	165.0	NIR	>100	B	NIR	61.2	165.0	NIR
	3.	61.2	105.8	126.0	NIR	NIR	NIR	61.2	165.0	NIR	>100	T	NIR	61.2	165.0	NIR
	4.	61.2	115.1	123.8	NIR	NIR	NIR	61.2	163.0	NIR	>100	T	NIR	61.2	163.0	NIR
	5.	61.5	103.7	134.2	NIR	NIR	NIR	61.6	166.0	NIR	>100	T	NIR	61.6	166.0	NIR
	MEAN	61.3	112.2	124.9				61.3	164.4					61.3	164.4	
	S.D.	0.2	11.2	5.8				0.2	1.3					0.2	1.3	

QUALITY ASSURANCE TESTING GEOMEMBRANE SEAM PEEL AND SHEAR TEST RESULTS

CLIENT:
 PROJECT:
 CONTACT:
 GEOSYNTEC JOB NO.:

TRAIL RIDGE LANDFILL PRIMARY LINER, PHASE 1A/1B
 MR. LUKE DEBOCK
 FQ2030

MATERIAL:
 SEAM TYPE:
 DATE RECEIVED:
 DATE TESTED:

POLYETHYLENE
 DOUBLE TRACK FUSION
 03/29/92
 03/29/92

SAMPLE NUMBER	SPECIMEN NUMBER	PEEL										SHEAR				
		THICKNESS (mil)	MAXIMUM TENSION (psi)	MAXIMUM STRESS (psi)	SEAM SEPARATION (%)	LOCUS OF FAILURE	PASS OR FAIL	THICKNESS (mil)	MAXIMUM TENSION (psi)	MAXIMUM STRESS (psi)	ELONGATION AT BREAK (%)	LOCUS OF FAILURE	PASS OR FAIL	THICKNESS (mil)	MAXIMUM TENSION (psi)	MAXIMUM STRESS (psi)
GEOSYNTEC: CLIENT: DS-P-14 (SP36/P36)	1.	61.3	106.4	110.0	NIR	0	0	0	0	0	NIR	NIR	NIR	61.5	156.0	NIR
	2.	61.6	98.6	113.4	NIR	0	0	0	0	0	NIR	NIR	NIR	61.8	164.0	NIR
	3.	61.7	107.4	110.2	NIR	0	0	0	0	0	NIR	NIR	NIR	61.4	161.0	NIR
	4.	61.8	121.3	114.1	NIR	0	0	0	0	0	NIR	NIR	NIR	61.8	164.0	NIR
	5.	61.9	98.5	113.4	NIR	0	0	0	0	0	NIR	NIR	NIR	61.1	167.0	NIR
GEOSYNTEC: CLIENT: DS-P-15 (SP36/P37)	MEAN	61.7	106.6	112.2										61.5	162.8	
	S.D.	0.2	9.1	2.0										0.3	3.4	
	1.	61.8	105.8	132.7	NIR	0	0	0	0	0	NIR	NIR	NIR	61.3	164.0	NIR
	2.	61.8	105.3	126.7	NIR	0	0	0	0	0	NIR	NIR	NIR	61.0	162.0	NIR
	3.	61.4	103.1	130.4	NIR	0	0	0	0	0	NIR	NIR	NIR	61.0	165.0	NIR
GEOSYNTEC: CLIENT: DS-P-16 (SP36/P39)	4.	61.2	98.7	129.3	NIR	0	0	0	0	0	NIR	NIR	NIR	61.1	161.0	NIR
	5.	61.2	104.1	131.3	NIR	0	0	0	0	0	NIR	NIR	NIR	61.3	162.0	NIR
	MEAN	61.5	103.4	130.1										61.1	162.8	
	S.D.	0.3	2.8	2.3										0.2	1.8	
	1.	60.9	135.0	123.1	NIR	0	0	0	0	0	NIR	NIR	NIR	60.9	161.0	NIR
GEOSYNTEC: CLIENT: DS-P-17 (SP39/P40)	2.	60.6	137.2	103.2	NIR	0	30	0	0	0	NIR	NIR	NIR	61.0	162.0	NIR
	3.	60.6	110.9	128.7	NIR	0	80	0	0	0	NIR	NIR	NIR	61.0	165.0	NIR
	4.	60.1	100.3	127.9	NIR	0	90	0	0	0	NIR	NIR	NIR	60.5	165.0	NIR
	5.	60.5	98.5	108.8	NIR	0	100	0	0	0	NIR	NIR	NIR	60.3	165.0	NIR
	MEAN	60.5	116.4	118.3										60.7	163.8	
GEOSYNTEC: CLIENT: DS-P-18 (SP42/P)	S.D.	0.3	18.6	11.6										0.3	1.8	
	1.	61.4	130.7	120.8	NIR	0	0	0	0	0	NIR	NIR	NIR	61.1	163.0	NIR
	2.	61.1	105.9	119.5	NIR	0	0	0	0	0	NIR	NIR	NIR	61.2	165.0	NIR
	3.	61.2	105.8	126.0	NIR	0	0	0	0	0	NIR	NIR	NIR	61.2	165.0	NIR
	4.	61.2	115.1	123.8	NIR	0	0	0	0	0	NIR	NIR	NIR	61.2	163.0	NIR
GEOSYNTEC: CLIENT: DS-P-18 (SP42/P)	5.	61.5	103.7	134.2	NIR	0	0	0	0	0	NIR	NIR	NIR	61.6	166.0	NIR
	MEAN	61.3	112.2	124.9										61.3	164.4	
	S.D.	0.2	11.2	5.8										0.2	1.3	
	1.	62.2	105.6	121.8	NIR	0	0	0	0	0	NIR	NIR	NIR	63.0	155.0	NIR
	2.	61.8	131.3	132.7	NIR	0	40	0	0	0	NIR	NIR	NIR	62.9	159.0	NIR
GEOSYNTEC: CLIENT: DS-P-18 (SP42/P)	3.	62.7	128.8	125.3	NIR	0	0	0	0	0	NIR	NIR	NIR	64.5	150.0	NIR
	4.	62.1	127.5	127.6	NIR	0	0	0	0	0	NIR	NIR	NIR	63.9	162.0	NIR
	5.	63.8	117.6	115.8	NIR	0	0	0	0	0	NIR	NIR	NIR	62.8	157.0	NIR
	MEAN	62.5	122.1	124.6										63.4	156.4	
	S.D.	0.8	10.7	6.3										0.8	2.8	

QUALITY ASSURANCE TESTING GEOMEMBRANE SEAM PEEL AND SHEAR TEST RESULTS

CLIENT:
 PROJECT:
 CONTACT:
 GEOSYNTEC JOB NO.:

TRAIL RIDGE LANDFILL PRIMARY LINER, PHASE 1A/1B
 MR. LUKE DEBOCK
 FQ2030

MATERIAL: POLYETHYLENE
 SEAM TYPE: DOUBLE TRACK FUSION
 DATE RECEIVED: 03/29/92
 DATE TESTED: 03/29/92

SAMPLE NUMBER	SPECIMEN NUMBER	PEEL										SHEAR													
		THICKNESS (mil)		MAXIMUM TENSION (psi)		MAXIMUM STRESS (psi)		SEAM SEPARATION (%)		LOCUS OF FAILURE		PASS OR FAIL		THICKNESS (mil)		MAXIMUM TENSION (psi)		MAXIMUM STRESS (psi)		ELONGATION AT BREAK (%)		LOCUS OF FAILURE		PASS OR FAIL	
		I	O	I	O	I	O	I	O	I	O	I	O	I	O	I	O	I	O	I	O	I	O	I	O
GEOSYNTEC: CLIENT: DS-P-19 SP(43/P44)	1.	61.7	61.7	101.4	136.3	N/R	N/R	0	0	T	T	N/R	N/R	61.3	168.0	N/R	N/R	>100	>100	B	B	N/R	N/R		
	2.	61.8	61.8	107.5	125.5			0	0	T	T			61.4	163.0			>100	>100	B	B				
	3.	61.6	61.6	107.8	134.8			0	0	T	T			61.4	165.0			>100	>100	B	B				
	4.	61.8	61.8	104.3	123.0			0	0	T	T			61.8	165.0			>100	>100	B	B				
	5.	61.8	61.8	105.6	122.7			0	0	T	T			61.8	166.0			>100	>100	B	B				
	MEAN	61.7	61.7	105.3	128.5									61.5	165.4										
	S.D.	0.1	0.1	2.6	6.6									0.2	1.8										
GEOSYNTEC: CLIENT: DS-P-20 SP(44/P46)	1.	61.3	61.3	121.5	104.1	N/R	N/R	0	0	B	B	N/R	N/R	61.4	157.0	N/R	N/R	>100	>100	B	B	N/R	N/R		
	2.	61.8	61.8	137.2	120.2			0	0	B	B			61.8	156.0			>100	>100	B	B				
	3.	61.8	61.8	116.3	119.0			0	0	B	T			61.9	160.0			>100	>100	B	B				
	4.	61.3	61.3	113.0	119.1			0	0	B	T			61.7	161.0			>100	>100	B	B				
	5.	61.4	61.4	97.2	92.5			0	0	T	B			61.6	156.0			>100	>100	B	B				
	MEAN	61.5	61.5	117.0	111.0									61.7	158.4										
	S.D.	0.3	0.3	14.5	12.3									0.2	2.1										
GEOSYNTEC: CLIENT: DS-P-21 SP(46/P47)	1.	61.4	61.4	125.8	121.3	N/R	N/R	0	0	B	T	N/R	N/R	61.2	158.0	N/R	N/R	>100	>100	T	T	N/R	N/R		
	2.	61.5	61.5	136.0	88.8			0	0	T	B			61.3	162.0			>100	>100	B	B				
	3.	61.7	61.7	126.5	122.7			0	0	T	B			61.2	162.0			>100	>100	B	B				
	4.	61.3	61.3	109.2	116.2			0	0	T	T			61.2	165.0			>100	>100	B	B				
	5.	61.4	61.4	136.9	136.3			0	0	T	T			61.2	164.0			>100	>100	T	T				
	MEAN	61.5	61.5	128.9	117.1									61.2	162.2										
	S.D.	0.2	0.2	11.2	17.5									0.0	2.7										
				</																					



Materials Testing Laboratory

QUALITY ASSURANCE TESTING GEOMEMBRANE SEAM PEEL AND SHEAR TEST RESULTS

CLIENT:
PROJECT:
CONTACT:
GEOSYNTEC JOB NO.:

TRAIL RIDGE LANDFILL PRIMARY LINER, PHASE 1A/1B
MR. LUKE DEBOCK
FQ2030

MATERIAL:
SEAM TYPE:
DATE RECEIVED:
DATE TESTED:

POLYETHYLENE

DOUBLE TRACK FUSION

03/31/92

03/31/92

SAMPLE NUMBER	SPECIMEN NUMBER	PEEL										SHEAR										
		THICKNESS (mil)		MAXIMUM TENSION (psi)		MAXIMUM STRESS (psi)		SEAM SEPARATION (%)		LOCUS OF FAILURE		PASS OR FAIL	THICKNESS (mil)		MAXIMUM TENSION (psi)		MAXIMUM STRESS (psi)		ELONGATION AT BREAK (%)		LOCUS OF FAILURE	
GEOSYNTEC: CLIENT: DS-P-22 S(P47/P48)	1.	61.2	61.2	126.7	101.7	N/R	N/R	0	0	0	B	B	N/R	N/R	61.6	159.0	N/R	N/R	>100	>100	T	N/R
	2.	61.9	61.9	139.6	128.2			0	0	0	B	T			61.6	159.0			>100	>100	T	
	3.	61.8	61.8	129.3	92.8			0	0	0	B	B			61.4	180.0			>100	>100	B	
	4.	61.8	61.8	90.2	120.5			0	0	0	T	T			61.8	182.0			>100	>100	T	
	5.	61.4	61.4	101.1	128.8			0	0	0	T	T			61.8	183.0			>100	>100	B	
	MEAN	61.6	61.6	117.4	114.0										61.6	180.6						
	S.D.	0.3	0.3	20.8	15.9										0.2	1.8						
GEOSYNTEC: CLIENT: DS-P-23 S(P50/P51)	1.	60.3	60.3	107.6	132.3	N/R	N/R	0	0	0	T	T	N/R	N/R	60.5	157.0	N/R	N/R	>100	>100	B	N/R
	2.	60.3	60.3	97.7	129.7			0	0	0	T	T			60.2	159.0			>100	>100	B	
	3.	60.2	60.2	141.8	131.0			0	0	0	B	T			60.9	158.0			>100	>100	B	
	4.	60.5	60.5	137.1	134.0			0	0	0	B	T			60.7	159.0			>100	>100	B	
	5.	60.5	60.5	122.9	130.5			0	0	0	T	T			60.9	160.0			>100	>100	T	
	MEAN	60.4	60.4	121.4	131.5										60.5	158.6						
	S.D.	0.1	0.1	18.8	1.7										0.3	1.1						
GEOSYNTEC: CLIENT: DS-P-24 S(P51/P52)	1.	61.1	61.1	102.0	133.7	N/R	N/R	0	0	0	T	T	N/R	N/R	60.4	163.0	N/R	N/R	>100	>100	T	N/R
	2.	61.1	61.1	133.9	131.5			0	0	0	B	B			60.9	162.0			>100	>100	B	
	3.	61.2	61.2	139.5	133.1			0	0	0	B	B			60.9	163.0			>100	>100	B	
	4.	61.0	61.0	136.7	138.9			0	0	0	B	B			60.9	163.0			>100	>100	B	
	5.	61.5	61.5	132.4	124.2			0	0	0	B	B			60.5	163.0			>100	>100	B	
	MEAN	61.2	61.2	128.9	132.3										60.7	162.8						
	S.D.	0.2	0.2	16.3	5.3										0.2	0.4						
GEOSYNTEC: CLIENT: DS-P-25 S(P52/P54)	1.	60.3	60.3	108.9	116.5	N/R	N/R	0	0	0	T	T	N/R	N/R	60.3	156.0	N/R	N/R	>100	>100	T	N/R
	2.	60.6	60.6	95.9	107.9			0	0	0	T	T			60.5	158.0			>100	>100	B	
	3.	60.9	60.9	92.9	117.1			0	0	0	T	B			60.6	161.0			>100	>100	T	
	4.	60.5	60.5	119.4	111.1			0	0	0	T	T			60.4	161.0			>100	>100	B	
	5.	60.9	60.9	100.5	125.0			0	0	0	T	T			60.5	162.0			>100	>100	B	
	MEAN	60.6	60.6	103.6	115.6										60.5	159.8						
	S.D.	0.3	0.3	10.7	6.5										0.1	2.5						
GEOSYNTEC: CLIENT: DS-P-26 S(P54/P56)	1.	61.1	61.1	124.6	118.1	N/R	N/R	0	0	0	B	T	N/R	N/R	61.2	158.0	N/R	N/R	>100	>100	T	N/R
	2.	61.3	61.3	137.5	120.3			0	0	0	B	T			61.3	163.0			>100	>100	T	
	3.	61.4	61.4	132.0	132.1			0	0	0	B	T			61.6	165.0			>100	>100	B	
	4.	61.4	61.4	139.8	118.3			0	0	0	B	T			61.7	164.0			>100	>100	T	
	5.	61.4	61.4	125.9	119.7			0	0	0	B	T			61.7	165.0			>100	>100	T	
	MEAN	61.3	61.3	132.0	121.7										61.5	163.0						
	S.D.	0.1	0.1	6.8	5.9										0.2	2.9						

NOTE: See Technical Notes page for explanation of abbreviations.

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QUALITY ASSURANCE TESTING GEOMEMBRANE SEAM PEEL AND SHEAR TEST RESULTS

CLIENT:
PROJECT:
CONTACT:
GEOSYNTEC JOB NO.:

TRAIL RIDGE LANDFILL PRIMARY LINER, PHASE 1A/1B
 MR. LUKE DEBOCK
 FQ2030

MATERIAL: POLYETHYLENE
SEAM TYPE: DOUBLE TRACK FUSION
DATE RECEIVED: 03/31/92
DATE TESTED: 03/31/92

SAMPLE NUMBER	SPECIMEN NUMBER	PEEL										SHEAR											
		THICKNESS (mil)		MAXIMUM TENSION (psi)		MAXIMUM STRESS (psi)		SEAM SEPARATION (%)		LOCUS OF FAILURE		PASS OR FAIL		THICKNESS (mil)		MAXIMUM TENSION (psi)		MAXIMUM STRESS (psi)		ELONGATION AT BREAK (%)		LOCUS OF FAILURE	
GEOSYNTEC: CLIENT: DS-P-16A SP38/P39	1.	61.3	61.3	133.8	119.6	NIR	NIR	0	0	T	T	NIR	NIR	61.3	157.0	NIR	NIR	>100	>100	T	T	NIR	NIR
	2.	61.6	61.6	136.4	124.8			0	0	T	T			61.6	162.0			>100	>100	T	T		
	3.	61.2	61.2	134.8	132.3			0	0	T	T			61.3	164.0			>100	>100	T	T		
	4.	61.2	61.2	136.8	127.8			0	0	T	T			61.5	161.0			>100	>100	T	T		
	5.	61.0	61.0	106.2	131.3			0	0	T	T			61.2	163.0			>100	>100	T	T		
	MEAN	61.3	61.3	129.6	127.2									61.4	161.4								
	S.D.	0.2	0.2	13.1	5.2									0.2	2.7								
GEOSYNTEC: CLIENT: DS-P-16B SP38/P39	1.	61.6	61.6	136.0	133.2	NIR	NIR	0	0	T	T	NIR	NIR	61.4	179.0	NIR	NIR	>100	>100	T	T	NIR	NIR
	2.	61.2	61.2	125.4	128.8			0	0	T	B			61.4	163.0			>100	>100	T	T		
	3.	61.3	61.3	100.5	123.2			0	0	T	T			61.5	162.0			>100	>100	T	T		
	4.	61.3	61.3	107.7	122.4			0	0	T	T			61.8	162.0			>100	>100	T	T		
	5.	61.4	61.4	136.9	125.9			0	0	T	T			61.8	173.0			>100	>100	T	T		
	MEAN	61.4	61.4	121.3	126.7									61.6	167.8								
	S.D.	0.2	0.2	16.5	4.4									0.2	7.8								

QUALITY ASSURANCE TESTING GEOMEMBRANE SEAM PEEL AND SHEAR TEST RESULTS

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TRAIL RIDGE LANDFILL PRIMARY LINER, PHASE 1A/1B
 MR. LUKE DEBOCK
 FQ2030

MATERIAL:
 SEAM TYPE:
 DATE RECEIVED:
 DATE TESTED:

POLYETHYLENE
 DOUBLE TRACK FUSION
 04/05/92
 04/05/92

SAMPLE NUMBER	SPECIMEN NUMBER	PEEL										SHEAR				
		THICKNESS (mil)	MAXIMUM TENSION (psi)	MAXIMUM STRESS (psi)	SEAM SEPARATION (%)	LOCUS OF FAILURE	PASS OR FAIL	THICKNESS (mil)	MAXIMUM TENSION (psi)	MAXIMUM STRESS (psi)	ELONGATION AT BREAK (%)	LOCUS OF FAILURE	PASS OR FAIL	THICKNESS (mil)	MAXIMUM TENSION (psi)	MAXIMUM STRESS (psi)
GEOSYNTEC: CLIENT: DS-P-27 SP20/P56	1.	61.2	120.5	131.9	0	0	NIR	60.9	156.7	NIR	>100	T	NIR	60.9	156.7	NIR
	2.	60.9	111.7	132.4	0	0	NIR	61.3	158.9	NIR	>100	T	NIR	61.3	158.9	NIR
	3.	61.1	103.2	126.5	0	0	NIR	61.2	160.5	NIR	>100	T	NIR	61.2	160.5	NIR
	4.	61.2	102.9	130.2	0	0	NIR	61.1	159.7	NIR	>100	T	NIR	61.1	159.7	NIR
	5.	61.2	111.6	125.0	0	0	NIR	61.1	161.1	NIR	>100	T	NIR	61.1	161.1	NIR
GEOSYNTEC: CLIENT: DS-P-28 SP56/P57	MEAN	61.1	110.0	129.2				61.1	159.4					61.1	159.4	
	S.D.	0.1	7.3	3.3				0.1	1.7					0.1	1.7	
	1.	61.4	117.0	127.5	0	0	NIR	61.3	160.3	NIR	>100	B	NIR	61.3	160.3	NIR
	2.	61.0	124.2	127.1	0	0	NIR	61.6	161.1	NIR	>100	B	NIR	61.6	161.1	NIR
	3.	61.1	130.0	120.2	0	0	NIR	61.4	160.3	NIR	>100	B	NIR	61.4	160.3	NIR
GEOSYNTEC: CLIENT: DS-P-29 SP56/P59	4.	61.3	128.5	125.1	0	0	NIR	61.2	161.1	NIR	>100	B	NIR	61.2	161.1	NIR
	5.	61.5	121.1	134.7	0	0	NIR	61.3	161.1	NIR	>100	B	NIR	61.3	161.1	NIR
	MEAN	61.3	124.2	128.9				61.4	160.8					61.4	160.8	
	S.D.	0.2	5.3	5.2				0.2	0.4					0.2	0.4	
	1.	60.9	118.7	134.7	0	0	NIR	60.8	157.9	NIR	>100	B	NIR	60.8	157.9	NIR
GEOSYNTEC: CLIENT: DS-P-30 SP56/P60	2.	60.9	108.7	125.9	0	0	NIR	60.5	158.7	NIR	>100	T	NIR	60.5	158.7	NIR
	3.	60.9	112.3	114.0	0	0	NIR	60.9	158.7	NIR	>100	T	NIR	60.9	158.7	NIR
	4.	60.8	105.7	128.5	0	0	NIR	60.8	159.0	NIR	>100	B	NIR	60.8	159.0	NIR
	5.	60.7	124.7	134.7	0	0	NIR	60.7	159.5	NIR	>100	B	NIR	60.7	159.5	NIR
	MEAN	60.8	114.0	127.8				60.7	158.8					60.7	158.8	
GEOSYNTEC: CLIENT: DS-P-31 SP61/P63	S.D.	0.1	7.7	8.5				0.2	0.6					0.2	0.6	
	1.	61.2	121.3	107.7	0	100	NIR	61.6	157.8	NIR	>100	B	NIR	61.6	157.8	NIR
	2.	61.4	121.8	120.1	0	80	NIR	60.9	148.2	NIR	>100	T	NIR	60.9	148.2	NIR
	3.	61.4	126.2	124.1	0	0	NIR	60.9	150.6	NIR	>100	T	NIR	60.9	150.6	NIR
	4.	61.2	119.5	90.6	0	100	NIR	61.3	151.3	NIR	>100	T	NIR	61.3	151.3	NIR
GEOSYNTEC: CLIENT: DS-P-31 SP61/P63	5.	61.4	123.0	123.6	0	0	NIR	61.1	156.0	NIR	>100	T	NIR	61.1	156.0	NIR
	MEAN	61.3	122.4	113.2				61.2	152.6					61.2	152.6	
	S.D.	0.1	2.6	14.3				0.3	4.0					0.3	4.0	
	1.	60.8	128.0	122.4	0	0	NIR	60.8	159.5	NIR	>100	T	NIR	60.8	159.5	NIR
	2.	61.0	123.9	120.3	0	0	NIR	60.9	158.0	NIR	>100	T	NIR	60.9	158.0	NIR
GEOSYNTEC: CLIENT: DS-P-31 SP61/P63	3.	61.0	119.4	120.6	0	0	NIR	61.2	160.3	NIR	>100	T	NIR	61.2	160.3	NIR
	4.	61.4	131.0	115.0	0	0	NIR	61.1	160.3	NIR	>100	B	NIR	61.1	160.3	NIR
	5.	60.9	116.2	120.3	0	0	NIR	60.8	159.5	NIR	>100	B	NIR	60.8	159.5	NIR
	MEAN	61.0	124.1	119.7				61.0	158.5					61.0	158.5	
	S.D.	0.2	5.5	2.6				0.2	0.9					0.2	0.9	

NOTE: See Technical Notes page for explanation of abbreviations.

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Materials Testing Laboratory

QUALITY ASSURANCE TESTING GEOMEMBRANE SEAM PEEL AND SHEAR TEST RESULTS

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TRAIL RIDGE LANDFILL PRIMARY LINER, PHASE 1A/1B
MR. LUKE DEBOCK
FQ2030

MATERIAL:
SEAM TYPE:
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DATE TESTED:

POLYETHYLENE
DOUBLE TRACK FUSION
04/05/92
04/05/92

SAMPLE NUMBER	SPECIMEN NUMBER	PEEL										SHEAR									
		THICKNESS (mil)		MAXIMUM TENSION (psi)		MAXIMUM STRESS (psi)		SEAM SEPARATION (%)		LOCUS OF FAILURE		PASS OR FAIL	THICKNESS (mil)		MAXIMUM TENSION (psi)		MAXIMUM STRESS (psi)		ELONGATION AT BREAK (%)		LOCUS OF FAILURE
GEOSYNTEC: CLIENT: DS-P-32 S(P63/P64)	1.	61.7	61.7	131.3	137.0	N/R	N/R	0	0	0	0	0	0	0	0	62.1	154.6	N/R	>100	B	N/R
	2.	61.4	61.4	135.7	126.2			0	0	0	0	0	0	0	0	62.0	158.0		>100	B	
	3.	62.0	62.0	128.7	130.0			0	0	0	0	0	0	0	0	61.5	160.0		>100	B	
	4.	61.8	61.8	122.5	131.1			0	0	0	0	0	0	0	0	61.6	160.7		>100	B	
	5.	61.5	61.5	118.7	133.7			0	0	0	0	0	0	0	0	61.6	157.9		>100	B	
	MEAN	61.7	61.7	127.4	131.6										61.8	158.2					
	S.D.	0.2	0.2	6.8	4.0										0.3	2.4					
GEOSYNTEC: CLIENT: DS-P-33 S(P64/P68)	1.	61.0	61.0	138.5	120.6	N/R	N/R	0	0	0	0	0	0	0	0	61.2	155.4	N/R	>100	B	N/R
	2.	60.8	60.8	139.2	120.0			0	0	0	0	0	0	0	0	60.9	158.7		>100	B	
	3.	60.7	60.7	128.7	133.2			0	0	0	0	0	0	0	0	61.0	159.5		>100	B	
	4.	60.9	60.9	126.4	130.3			0	0	0	0	0	0	0	0	60.9	159.5		>100	B	
	5.	60.9	60.9	127.8	129.9			0	0	0	0	0	0	0	0	60.9	158.7		>100	B	
	MEAN	60.9	60.9	132.1	126.8										61.0	158.4					
	S.D.	0.1	0.1	6.2	6.1										0.1	1.7					
GEOSYNTEC: CLIENT: DS-P-34 S(P67/P68)	1.	61.4	61.4	139.9	128.0	N/R	N/R	0	0	0	0	0	0	0	0	61.4	162.9	N/R	>100	T	N/R
	2.	61.5	61.5	140.8	107.0			0	0	0	0	0	0	0	0	61.2	161.9		>100	T	
	3.	60.8	60.8	130.2	109.9			0	0	0	0	0	0	0	0	61.2	162.7		>100	T	
	4.	61.2	61.2	134.7	113.2			0	0	0	0	0	0	0	0	61.2	161.1		>100	B	
	5.	61.2	61.2	139.8	104.7			0	0	0	0	0	0	0	0	61.2	160.9		>100	B	
	MEAN	61.2	61.2	137.1	112.6										61.2	161.9					
	S.D.	0.3	0.3	4.5	9.2										0.1	0.9					
GEOSYNTEC: CLIENT: DS-P-35 S(P68/P70)	1.	60.8	60.8	120.9	123.9	N/R	N/R	0	0	0	0	0	0	0	0	60.9	159.5	N/R	>100	B	N/R
	2.	61.0	61.0	124.1	116.8			0	0	0	0	0	0	0	0	61.0	160.4		>100	B	
	3.	60.7	60.7	126.3	120.9			0	0	0	0	0	0	0	0	60.9	160.3		>100	B	
	4.	60.5	60.5	124.1	118.6			0	0	0	0	0	0	0	0	60.8	160.9		>100	B	
	5.	60.8	60.8	116.7	114.2			0	0	0	0	0	0	0	0	60.9	160.3		>100	B	
	MEAN	60.8	60.8	122.4	118.9										60.9	160.3					
	S.D.	0.2	0.2	3.7	3.7										0.1	0.6					
GEOSYNTEC: CLIENT: DS-P-36 S(P70/P71)	1.	61.0	61.0	124.8	130.2	N/R	N/R	0	0	0	0	0	0	0	0	61.0	155.4	N/R	>100	B	N/R
	2.	61.2	61.2	122.5	130.2			0	0	0	0	0	0	0	0	60.9	158.7		>100	B	
	3.	60.9	60.9	118.5	127.8			0	0	0	0	0	0	0	0	60.9	158.7		>100	B	
	4.	61.3	61.3	117.8	98.2			0	0	0	0	0	0	0	0	61.6	157.0		>100	B	
	5.	61.7	61.7	124.8	100.6			0	0	0	0	0	0	0	0	61.6	157.0		>100	B	
	MEAN	61.2	61.2	121.7	117.4										61.2	157.4					
	S.D.	0.3	0.3	3.4	16.5										0.3	1.4					

NOTE: See Technical Notes page for explanation of abbreviations.

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QUALITY ASSURANCE TESTING GEOMEMBRANE SEAM PEEL AND SHEAR TEST RESULTS

CLIENT:
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TRAIL RIDGE LANDFILL PRIMARY LINER, PHASE 1A/1B
MR. LUKE DEBOCK
FQ2030

MATERIAL:
SEAM TYPE:
DATE RECEIVED:
DATE TESTED:

POLYETHYLENE
DOUBLE TRACK FUSION
04/07/92
04/07/92

SAMPLE NUMBER	SPECIMEN NUMBER	PEEL										SHEAR				
		THICKNESS (mil)					MAXIMUM TENSION (psi)					MAXIMUM STRESS (psi)				
		I	O	I	O	I	I	O	I	O	I	THICKNESS (mil)	MAXIMUM TENSION (psi)	MAXIMUM STRESS (psi)	ELONGATION AT BREAK (%)	LOCUS OF FAILURE
GEOSYNTEC: CLIENT: DS-P-30A SP58(P60)	1.	61.1	61.1	121.8	120.2	NIR	NIR	NIR	0	0	0	60.9	156.2	NIR	>100	T
	2.	61.1	61.1	113.8	114.0				0	0	0	60.9	156.2		>100	T
	3.	62.0	62.0	112.6	116.2				0	0	0	60.5	155.4		>100	T
	4.	61.9	61.9	111.2	115.6				0	0	0	61.4	160.3		>100	T
	5.	61.9	61.9	113.0	112.5				0	0	0	61.4	161.1		>100	T
GEOSYNTEC: CLIENT: DS-P-30B SP58(P60)	MEAN	61.6	61.6	114.5	115.7							61.0	157.8			
	S.D.	0.5	0.5	4.2	2.9							0.4	2.8			
	1.	61.4	61.4	116.2	118.1	NIR	NIR	NIR	0	0	0	61.8	156.2	NIR	>100	T
	2.	61.3	61.3	119.5	119.3				0	0	0	61.9	157.8		>100	B
	3.	61.4	61.4	114.7	125.3				0	0	0	61.2	156.2		>100	T
GEOSYNTEC: CLIENT: DS-P-37 SP71(P73)	4.	61.4	61.4	119.1	113.6				0	0	0	61.2	155.2		>100	B
	5.	61.9	61.9	116.3	122.3				0	0	0	61.6	158.7		>100	T
	MEAN	61.5	61.5	117.2	119.7							61.5	156.8			
	S.D.	0.2	0.2	2.1	4.4							0.3	1.4			
	1.	61.5	61.5	121.4	81.1	NIR	NIR	NIR	0	100	0	61.4	157.8	NIR	>100	B
GEOSYNTEC: CLIENT: DS-P-38 SP74(P75)	2.	61.8	61.8	133.0	123.7				0	60	0	61.6	158.7		>100	B
	3.	61.8	61.8	131.1	132.7				0	0	0	61.4	157.0		>100	B
	4.	61.4	61.4	131.7	131.6				0	0	0	61.6	157.8		>100	B
	5.	61.6	61.6	120.2	134.5				0	0	0	61.6	160.3		>100	B
	MEAN	61.8	61.8	127.6	120.7							61.5	158.3			
GEOSYNTEC: CLIENT: DS-P-39 SP75(P75)	S.D.	0.2	0.2	6.2	22.5							0.1	1.3			
	1.	61.4	61.4	105.7	132.7	NIR	NIR	NIR	0	0	0	59.9	157.8	NIR	>100	B
	2.	61.8	61.8	111.8	135.1				0	0	0	61.4	157.8		>100	T
	3.	61.6	61.6	106.1	131.3				0	0	0	61.3	159.5		>100	B
	4.	61.9	61.9	107.5	131.8				0	0	0	61.4	158.7		>100	T
GEOSYNTEC: CLIENT: DS-P-39 SP75(P75)	5.	61.8	61.8	111.6	131.0				0	0	0	61.9	160.3		>100	T
	MEAN	61.7	61.7	108.5	132.4							61.2	158.8			
	S.D.	0.2	0.2	3.0	1.7							0.3	1.1			
	1.	60.6	60.6	123.7	128.6	NIR	NIR	NIR	0	0	0	60.5	159.5	NIR	>100	B
	2.	60.6	60.6	126.0	126.6				0	0	0	59.5	158.7		>100	B
GEOSYNTEC: CLIENT: DS-P-39 SP75(P75)	3.	60.4	60.4	110.8	126.8				0	0	0	59.5	158.7		>100	B
	4.	60.5	60.5	112.7	116.8				0	0	0	59.5	158.5		>100	B
	5.	60.5	60.5	120.3	129.8				0	0	0	60.3	161.1		>100	B
	MEAN	60.5	60.5	116.7	125.7							59.9	159.5			
	S.D.	0.1	0.1	6.7	5.2							0.5	1.0			

NOTE: See Technical Notes page for explanation of abbreviations.

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QUALITY ASSURANCE TESTING GEOMEMBRANE SEAM PEEL AND SHEAR TEST RESULTS

CLIENT:
PROJECT:
CONTACT:
GEOSYNTEC JOB NO.:

TRAIL RIDGE LANDFILL PRIMARY LINER, PHASE 1A/1B
 MR. LUKE DEBOCK
 FQ2030

MATERIAL:
SEAM TYPE:
DATE RECEIVED:
DATE TESTED:

POLYETHYLENE

DOUBLE TRACK FUSION

04/07/82

04/07/82

SAMPLE NUMBER		PEEL										SHEAR									
		SPECIMEN NUMBER	THICKNESS (mil)		MAXIMUM TENSION (psi)		MAXIMUM STRESS (psi)		SEAM SEPARATION (%)		LOCUS OF FAILURE		PASS OR FAIL	THICKNESS (mil)	MAXIMUM TENSION (psi)	MAXIMUM STRESS (psi)	ELONGATION AT BREAK (%)	LOCUS OF FAILURE	PASS OR FAIL		
I	O		I	O	I	O	I	O	I	O	I	O									
GEOSYNTEC: CLIENT: DS-P-40 S(P76/P77)	1.	61.5	61.5	93.9	138.3	N/R	N/R	0	0	T	B	N/R	N/R	60.5	158.7	N/R	>100	B	N/R		
	2.	61.5	61.5	96.4	121.6			0	0	T	B			60.3	158.7		>100	B			
	3.	61.6	61.6	127.3	103.3			0	0	T	T			60.5	158.7		>100	B			
	4.	61.7	61.7	100.3	139.8			0	0	T	T			60.5	158.5		>100	B			
	5.	61.7	61.7	109.2	142.3			0	0	T	B			60.3	161.1		>100	B			
	MEAN	61.6	61.6	105.4	128.1									60.4	158.3						
S.D.	0.1	0.1	13.5	16.5									0.1	1.0							
GEOSYNTEC: CLIENT: DS-P-41 S(P77/P78)	1.	59.8	59.8	131.7	128.6	N/R	N/R	0	0	B	T	N/R	N/R	60.1	158.5	N/R	>100	B	N/R		
	2.	60.3	60.3	96.1	111.1			0	0	T	T			59.9	158.7		>100	B			
	3.	60.3	60.3	130.3	112.8			0	0	B	T			60.3	157.8		>100	B			
	4.	60.5	60.5	126.8	137.2			0	0	B	T			58.9	157.8		>100	B			
	5.	60.5	60.5	116.7	109.7			0	0	B	T			60.3	160.0		>100	B			
	MEAN	60.3	60.3	120.3	119.9									60.1	158.8						
S.D.	0.3	0.3	14.8	12.3									0.2	1.0							
GEOSYNTEC: CLIENT: DS-P-42 S(P78/P80)	1.	60.2	60.2	127.8	130.6	N/R	N/R	0	0	B	T	N/R	N/R	60.7	153.8	N/R	>100	B	N/R		
	2.	60.5	60.5	136.1	125.8			0	0	B	T			60.7	157.0		>100	B			
	3.	60.5	60.5	113.6	131.3			0	0	T	T			61.0	158.7		>100	B			
	4.	60.5	60.5	128.1	111.9			0	0	B	T			61.1	157.8		>100	B			
	5.	60.6	60.6	107.9	136.1			0	0	B	T			61.1	158.5		>100	B			
	MEAN	60.5	60.5	122.7	127.1									60.9	157.4						
S.D.	0.2	0.2	11.8	9.3									0.2	2.2							
GEOSYNTEC: CLIENT: DS-P-43 S(P81/P83)	1.	60.6	60.6	127.8	130.6	N/R	N/R	0	0	B	T	N/R	N/R	60.7	163.8	N/R	>100	B	N/R		
	2.	61.1	61.1	136.1	125.8			0	0	B	T			60.7	157.0		>100	B			
	3.	61.1	61.1	113.6	131.3			0	0	T	T			61.0	158.7		>100	B			
	4.	61.1	61.1	128.1	111.9			0	0	B	T			61.1	157.8		>100	B			
	5.	60.7	60.7	107.9	136.1			0	0	B	T			61.1	158.5		>100	B			
	MEAN	60.9	60.9	122.7	127.1									60.9	157.4						
S.D.	0.2	0.2	11.8	9.3									0.2	2.2							
GEOSYNTEC: CLIENT: DS-P-44 S(P83/P84)	1.	60.8	60.8	136.9	95.0	N/R	N/R	0	0	B	B	N/R	N/R	60.5	160.3	N/R	>100	T	N/R		
	2.	61.0	61.0	133.7	92.6			0	0	B	B			60.7	160.3		>100	B			
	3.	60.5	60.5	134.5	95.8			0	0	B	B			60.7	159.5		>100	B			
	4.	61.0	61.0	103.1	133.7			0	0	T	T			60.4	157.8		>100	B			
	5.	60.7	60.7	105.5	138.5			0	0	T	T			60.8	158.7		>100	B			
	MEAN	60.8	60.8	122.7	111.1									60.6	159.3						
S.D.	0.2	0.2	16.9	22.9									0.1	1.1							

QUALITY ASSURANCE TESTING GEOMEMBRANE SEAM PEEL AND SHEAR TEST RESULTS

CLIENT:
PROJECT:
CONTACT:
GEOSYNTEC JOB NO.:

TRAIL RIDGE LANDFILL PRIMARY LINER, PHASE 1A/1B
 MR. LUKE DEBOCK
 FQ2030

MATERIAL: POLYETHYLENE
SEAM TYPE: DOUBLE TRACK FUSION
DATE RECEIVED: 04/08/92
DATE TESTED: 04/08/92

SAMPLE NUMBER	SPECIMEN NUMBER	PEEL										SHEAR				
		THICKNESS (mil)	MAXIMUM TENSION (psi)	MAXIMUM STRESS (psi)	SEAM SEPARATION (%)	LOCUS OF FAILURE	PASS OR FAIL	THICKNESS (mil)	MAXIMUM TENSION (psi)	MAXIMUM STRESS (psi)	ELONGATION AT BREAK (%)	LOCUS OF FAILURE	PASS OR FAIL	THICKNESS (mil)	MAXIMUM TENSION (psi)	MAXIMUM STRESS (psi)
GEOSYNTEC: CLIENT: DS-P-46 S(P84/P86)	1.	60.2	136.0	126.3	0	0	NIR	60.4	162.0	NIR	>100	B	NIR	60.4	162.0	NIR
	2.	60.7	109.5	132.3	0	0	NIR	60.0	162.7	NIR	>100	B	NIR	60.0	162.7	NIR
	3.	60.6	138.1	140.8	0	0	NIR	60.4	163.3	NIR	>100	B	NIR	60.4	163.3	NIR
	4.	60.8	98.1	136.2	0	0	NIR	60.5	162.5	NIR	>100	B	NIR	60.5	162.5	NIR
	5.	60.7	112.0	124.8	0	0	NIR	60.9	161.6	NIR	>100	B	NIR	60.9	161.6	NIR
	MEAN	60.6	118.7	132.1	0	0	NIR	60.4	162.4	NIR			NIR	60.4	162.4	NIR
	S.D.	0.2	17.5	6.7	0	0	NIR	0.3	0.7	NIR			NIR	0.3	0.7	NIR
GEOSYNTEC: CLIENT: DS-P-46 S(P86/P86)	1.	61.0	105.0	131.1	0	0	NIR	61.1	163.0	NIR	>100	B	NIR	61.1	163.0	NIR
	2.	61.4	117.2	125.3	0	0	NIR	61.3	163.7	NIR	>100	B	NIR	61.3	163.7	NIR
	3.	61.2	114.3	128.6	0	0	NIR	61.3	162.7	NIR	>100	B	NIR	61.3	162.7	NIR
	4.	61.1	118.6	117.5	0	0	NIR	60.9	162.7	NIR	>100	B	NIR	60.9	162.7	NIR
	5.	61.1	130.6	133.5	0	0	NIR	61.0	162.3	NIR	>100	B	NIR	61.0	162.3	NIR
	MEAN	61.2	117.1	127.2	0	0	NIR	61.1	162.9	NIR			NIR	61.1	162.9	NIR
	S.D.	0.2	9.2	6.2	0	0	NIR	0.2	0.5	NIR			NIR	0.2	0.5	NIR
GEOSYNTEC: CLIENT: DS-P-47 S(P86/P87)	1.	60.6	119.6	123.1	0	0	NIR	61.0	161.3	NIR	>100	B	NIR	61.0	161.3	NIR
	2.	60.8	125.0	123.0	0	0	NIR	61.1	163.2	NIR	>100	B	NIR	61.1	163.2	NIR
	3.	60.6	117.6	125.7	0	0	NIR	61.3	163.1	NIR	>100	B	NIR	61.3	163.1	NIR
	4.	60.6	113.2	125.2	0	0	NIR	61.2	161.8	NIR	>100	B	NIR	61.2	161.8	NIR
	5.	60.7	130.7	128.8	0	0	NIR	61.0	163.1	NIR	>100	B	NIR	61.0	163.1	NIR
	MEAN	60.7	121.2	125.2	0	0	NIR	61.1	162.6	NIR			NIR	61.1	162.6	NIR
	S.D.	0.1	6.8	2.4	0	0	NIR	0.1	0.9	NIR			NIR	0.1	0.9	NIR
GEOSYNTEC: CLIENT: DS-P-48 S(P87/P88)	1.	60.8	114.2	112.3	0	0	NIR	61.1	161.5	NIR	>100	T	NIR	61.1	161.5	NIR
	2.	60.5	115.3	139.0	0	0	NIR	61.1	159.8	NIR	>100	B	NIR	61.1	159.8	NIR
	3.	60.6	114.5	136.7	0	0	NIR	61.3	160.3	NIR	>100	B	NIR	61.3	160.3	NIR
	4.	60.7	116.6	124.1	0	0	NIR	61.1	160.1	NIR	>100	B	NIR	61.1	160.1	NIR
	5.	60.7	127.2	128.8	0	0	NIR	61.2	163.5	NIR	>100	B	NIR	61.2	163.5	NIR
	MEAN	60.7	117.6	126.2	0	0	NIR	61.2	161.0	NIR			NIR	61.2	161.0	NIR
	S.D.	0.1	5.5	10.7	0	0	NIR	0.1	1.8	NIR			NIR	0.1	1.8	NIR
GEOSYNTEC: CLIENT: DS-P-49 S(P88/P90)	1.	60.2	127.8	136.7	0	0	NIR	60.7	162.6	NIR	>100	T	NIR	60.7	162.6	NIR
	2.	60.4	108.8	135.0	0	0	NIR	60.9	163.6	NIR	>100	T	NIR	60.9	163.6	NIR
	3.	60.5	132.3	119.2	0	0	NIR	61.0	163.0	NIR	>100	T	NIR	61.0	163.0	NIR
	4.	60.6	131.3	139.8	0	0	NIR	61.0	162.7	NIR	90	T	NIR	61.0	162.7	NIR
	5.	60.9	120.8	130.5	0	0	NIR	61.1	164.1	NIR	>100	T	NIR	61.1	164.1	NIR
	MEAN	60.6	124.2	132.2	0	0	NIR	60.9	163.2	NIR			NIR	60.9	163.2	NIR
	S.D.	0.3	9.7	8.0	0	0	NIR	0.2	0.8	NIR			NIR	0.2	0.8	NIR

NOTE: See Technical Notes page for explanation of abbreviations.

QUALITY ASSURANCE TESTING GEOMEMBRANE SEAM PEEL AND SHEAR TEST RESULTS

CLIENT:
 PROJECT:
 CONTACT:
 GEOSYNTEC JOB NO.:

TRAIL RIDGE LANDFILL PRIMARY LINER, PHASE 1A/1B
 MR. LUKE DEBOCK
 FQ2030

MATERIAL:
 SEAM TYPE:
 DATE RECEIVED:
 DATE TESTED:

POLYETHYLENE

DOUBLE TRACK FUSION

04/08/92

04/08/92

SAMPLE NUMBER		PEEL														SHEAR											
		SPECIMEN NUMBER	THICKNESS (mil)				MAXIMUM TENSION (psi)				MAXIMUM STRESS (psi)				SEAM SEPARATION (%)		LOCUS OF FAILURE				PASS OR FAIL	THICKNESS (mil)	MAXIMUM TENSION (psi)	MAXIMUM STRESS (psi)	ELONGATION AT BREAK (%)	LOCUS OF FAILURE	PASS OR FAIL
			I	O	I	O	I	O	I	O	I	O	I	O	I	O	I	O	I	O							
GEOSYNTEC: CLIENT: DS-P-60 S(P91/P93)		1.	61.0	61.0	102.6	136.8	N/R	N/R	0	0	T	T	N/R	N/R	61.8	161.6	N/R	>100	B	N/R							
		2.	61.0	61.0	101.3	125.5			0	0	T	B			61.6	162.1		>100	B								
		3.	60.9	60.9	112.7	131.6			0	0	T	B			61.5	161.5		>100	B								
		4.	61.6	61.6	126.7	129.8			0	0	T	T			61.4	163.0		>100	B								
		5.	61.5	61.5	105.5	138.3			0	0	T	T			61.5	164.5		>100	B								
		MEAN	61.2	61.2	109.8	132.4									61.6	162.5											
		S.D.	0.3	0.3	10.4	5.2									0.2	1.2											
GEOSYNTEC: CLIENT: DS-P-61 S(P92/P94)		1.	61.4	61.4	135.6	136.6	N/R	N/R	0	0	B	T	N/R	N/R	61.9	162.0	N/R	>100	B	N/R							
		2.	61.2	61.2	134.2	136.8			0	0	T	B			62.0	164.6		>100	B								
		3.	61.3	61.3	125.5	131.8			0	0	T	B			61.8	162.7		>100	B								
		4.	61.4	61.4	120.2	140.5			0	0	T	T			62.2	164.3		>100	B								
		5.	61.1	61.1	133.6	120.2			0	0	T	B			61.7	164.8		>100	B								
		MEAN	61.3	61.3	129.8	133.2									61.9	163.7											
		S.D.	0.1	0.1	6.7	7.9									0.2	1.3											
GEOSYNTEC: CLIENT: DS-P-62 S(P94/P96)		1.	61.4	61.4	101.6	114.5	N/R	N/R	0	20	T	PT	N/R	N/R	61.6	163.2	N/R	>100	T	N/R							
		2.	60.9	60.9	105.0	111.6			0	50	T	PT			61.8	162.6		>100	T								
		3.	61.0	61.0	114.0	129.6			0	100	T	P			61.8	161.6		>100	B								
		4.	61.4	61.4	127.8	103.8			0	90	B	PB			61.4	161.2		>100	B								
		5.	61.1	61.1	120.8	118.2			0	90	B	PB			61.4	161.6		>100	B								
		MEAN	61.2	61.2	113.8	115.5									61.6	162.0											
		S.D.	0.2	0.2	10.9	9.5									0.2	0.8											
GEOSYNTEC: CLIENT: DS-P-63 S(P96/P98)		1.	60.9	60.9	117.7	124.3	N/R	N/R	0	0	T	B	N/R	N/R	61.4	158.7	N/R	>100	B	N/R							
		2.	60.7	60.7	125.3	130.5			0	0	T	B			61.5	156.3		>100	B								
		3.	60.7	60.7	131.7	128.0			0	0	B	T			60.8	160.0		>100	B								
		4.	60.7	60.7	131.1	130.5			0	0	B	T			60.7	160.3		>100	B								
		5.	60.7	60.7	129.7	136.8			0	0	B	T			60.9	160.5		>100	B								
		MEAN	60.7	60.7	127.1	130.2									61.1	159.8											
		S.D.	0.1	0.1	5.8	4.5									0.4	0.9											
GEOSYNTEC: CLIENT: DS-P-64 S(P98/P99)		1.	60.7	60.7	118.5	125.2	N/R	N/R	0	20	B	T	N/R	N/R	61.4	160.1	N/R	>100	T	N/R							
		2.	60.8	60.8	125.5	121.0			0	0	B	B			61.0	161.3		>100	T								
		3.	61.4	61.4	113.7	126.1			0	0	B	T			61.5	161.8		>100	T								
		4.	61.1	61.1	117.3	130.0			0	0	B	B			61.4	163.8		>100	T								
		5.	60.8	60.8	120.2	135.2			0	0	B	T			61.1	161.1		>100	T								
		MEAN	61.0	61.0	119.0	127.5									61.3	161.8											
		S.D.	0.3	0.3	4.3	5.4									0.2	1.4											

NOTE: See Technical Notes page for explanation of abbreviations.

QUALITY ASSURANCE TESTING GEOMEMBRANE SEAM PEEL AND SHEAR TEST RESULTS

CLIENT:
PROJECT:
CONTACT:
GEOSYNTEC JOB NO.:

TRAIL RIDGE LANDFILL PRIMARY LINER, PHASE 1A/1B
 MR. LUKE DEBOCK
 FQ2030

MATERIAL:
SEAM TYPE:
DATE RECEIVED:
DATE TESTED:

POLYETHYLENE
 DOUBLE TRACK FUSION
 04/08/92
 04/08/92

SAMPLE NUMBER	SPECIMEN NUMBER	PEEL										SHEAR				
		THICKNESS (mil)	MAXIMUM TENSION (psi)	MAXIMUM STRESS (psi)	SEAM SEPARATION (%)	LOCUS OF FAILURE	PASS OR FAIL	THICKNESS (mil)	MAXIMUM TENSION (psi)	MAXIMUM STRESS (psi)	ELONGATION AT BREAK (%)	LOCUS OF FAILURE	PASS OR FAIL	THICKNESS (mil)	MAXIMUM TENSION (psi)	MAXIMUM STRESS (psi)
GEOSYNTEC; CLIENT: DS-P-55 SP98/P101	1.	60.9	135.8	126.2	0	0	NIR	60.7	166.5	NIR	>100	T	NIR	60.7	166.5	NIR
	2.	61.0	136.0	133.1	0	0	NIR	61.1	160.6	NIR	>100	B	NIR	61.1	160.6	NIR
	3.	60.7	136.1	139.6	0	0	NIR	61.1	160.7	NIR	>100	B	NIR	61.1	160.7	NIR
	4.	61.0	137.2	128.3	0	0	NIR	61.1	161.7	NIR	>100	B	NIR	61.1	161.7	NIR
	5.	61.4	135.6	133.0	0	0	NIR	61.6	161.8	NIR	>100	B	NIR	61.6	161.8	NIR
GEOSYNTEC; CLIENT: DS-P-56 SP101/P102	MEAN	61.0	136.9	132.0	0	0	NIR	61.1	162.3	NIR	>100	T	NIR	61.1	162.3	NIR
	S.D.	0.3	1.2	5.2	0	0	NIR	0.3	2.4	NIR	>100	T	NIR	0.3	2.4	NIR
	1.	60.0	139.8	112.2	0	0	NIR	60.0	160.8	NIR	>100	T	NIR	60.0	160.8	NIR
	2.	59.9	140.3	131.6	0	0	NIR	60.0	160.5	NIR	>100	T	NIR	60.0	160.5	NIR
	3.	60.6	140.8	122.0	0	0	NIR	60.1	160.7	NIR	>100	T	NIR	60.1	160.7	NIR
GEOSYNTEC; CLIENT: DS-P-57 SP102/P103	4.	59.8	141.2	130.3	0	0	NIR	60.2	161.5	NIR	>100	B	NIR	60.2	161.5	NIR
	5.	60.1	142.0	139.8	0	0	NIR	60.1	161.2	NIR	>100	T	NIR	60.1	161.2	NIR
	MEAN	60.1	140.8	127.2	0	0	NIR	60.1	160.8	NIR	>100	T	NIR	60.1	160.8	NIR
	S.D.	0.3	0.8	10.5	0	0	NIR	0.1	0.4	NIR	>100	T	NIR	0.1	0.4	NIR
	1.	60.5	122.5	113.3	0	0	NIR	60.7	161.1	NIR	>100	T	NIR	60.7	161.1	NIR
GEOSYNTEC; CLIENT: DS-P-58 SP103/P105	2.	60.5	129.7	119.8	0	0	NIR	61.3	161.5	NIR	>100	B	NIR	61.3	161.5	NIR
	3.	60.9	133.2	119.7	0	0	NIR	61.4	159.2	NIR	>100	T	NIR	61.4	159.2	NIR
	4.	60.8	125.2	131.0	0	0	NIR	61.4	160.0	NIR	>100	T	NIR	61.4	160.0	NIR
	5.	60.5	139.2	134.3	0	0	NIR	61.1	159.5	NIR	>100	T	NIR	61.1	159.5	NIR
	MEAN	60.6	130.0	123.6	0	0	NIR	61.2	160.3	NIR	>100	T	NIR	61.2	160.3	NIR
GEOSYNTEC; CLIENT: DS-P-59 SP105/P106	S.D.	0.2	6.6	8.7	0	0	NIR	0.3	1.0	NIR	>100	T	NIR	0.3	1.0	NIR
	1.	60.9	123.2	127.0	0	0	NIR	61.4	161.1	NIR	>100	T	NIR	61.4	161.1	NIR
	2.	61.0	114.5	138.0	0	0	NIR	61.4	161.5	NIR	>100	B	NIR	61.4	161.5	NIR
	3.	60.6	109.2	133.8	0	0	NIR	61.2	159.2	NIR	>100	T	NIR	61.2	159.2	NIR
	4.	60.6	110.7	135.6	0	0	NIR	60.9	160.0	NIR	>100	T	NIR	60.9	160.0	NIR
GEOSYNTEC; CLIENT: DS-P-59 SP105/P106	5.	60.7	112.3	139.6	0	0	NIR	61.3	159.5	NIR	>100	T	NIR	61.3	159.5	NIR
	MEAN	60.8	114.0	134.8	0	0	NIR	61.2	160.3	NIR	>100	T	NIR	61.2	160.3	NIR
	S.D.	0.2	5.6	4.9	0	0	NIR	0.2	1.0	NIR	>100	T	NIR	0.2	1.0	NIR
	1.	61.6	105.3	127.1	0	0	NIR	61.2	159.2	NIR	>100	T	NIR	61.2	159.2	NIR
	2.	61.8	104.8	117.1	0	0	NIR	61.5	159.5	NIR	>100	T	NIR	61.5	159.5	NIR
GEOSYNTEC; CLIENT: DS-P-59 SP105/P106	3.	61.6	102.5	130.0	0	0	NIR	61.4	158.6	NIR	>100	T	NIR	61.4	158.6	NIR
	4.	61.0	107.8	118.7	0	0	NIR	61.4	159.5	NIR	>100	T	NIR	61.4	159.5	NIR
	5.	61.4	110.1	118.3	0	0	NIR	61.3	159.0	NIR	>100	T	NIR	61.3	159.0	NIR
	MEAN	61.5	106.1	122.2	0	0	NIR	61.4	159.2	NIR	>100	T	NIR	61.4	159.2	NIR
	S.D.	0.3	2.9	5.9	0	0	NIR	0.1	0.4	NIR	>100	T	NIR	0.1	0.4	NIR

NOTE: See Technical Notes page for explanation of abbreviations.

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TRAIL RIDGE LANDFILL PRIMARY LINER, PHASE 1A/1B
MR. LUKE DEBOCK
FQ2030

MATERIAL:	POLYETHYLENE
SEAM TYPE:	DOUBLE TRACK FUSION
DATE RECEIVED:	04/08/92
DATE TESTED:	04/08/92

[illegible]

NOTE: See Technical Notes page for explanation of abbreviations.

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Materials Testing Laboratory

QUALITY ASSURANCE TESTING GEOMEMBRANE SEAM PEEL AND SHEAR TEST RESULTS

CLIENT:
PROJECT:
CONTACT:
GEOSYNTEC JOB NO.:

TRAIL RIDGE LANDFILL PRIMARY LINER, PHASE 1A/1B
MR. LUKE DEBOCK
FQ2030

MATERIAL: POLYETHYLENE
SEAM TYPE: DOUBLE TRACK FUSION
DATE RECEIVED: 04/09/92
DATE TESTED: 04/09/92

SAMPLE NUMBER	SPECIMEN NUMBER	PEEL										SHEAR						
		THICKNESS (mil)		MAXIMUM TENSION (psi)		MAXIMUM STRESS (psi)		SEAM SEPARATION (%)		LOCUS OF FAILURE		PASS OR FAIL	THICKNESS (mil)		MAXIMUM TENSION (psi)	MAXIMUM STRESS (psi)	ELONGATION AT BREAK (%)	LOCUS OF FAILURE
GEOSYNTEC: CLIENT: DS-P-37A SP71/P73	1.	60.6	60.6	127.8	143.8	N/R	N/R	0	0	B	B	N/R	60.2	161.9	N/R	>100	T	N/R
	2.	60.4	60.4	132.7	137.3			0	0	B	B		61.1	163.5		>100	T	
	3.	61.0	61.0	125.5	136.6			0	0	B	B		60.8	163.5		>100	T	
	4.	60.6	60.6	124.7	128.1			0	0	B	B		60.7	163.5		>100	T	
	5.	60.9	60.9	113.8	129.1			0	0	B	T		61.2	164.3		>100	T	
	MEAN	60.7	60.7	124.9	135.0								60.8	163.3				
GEOSYNTEC: CLIENT: DS-P-37B SP71/P73	S.D.	0.2	0.2	8.9	6.5								0.4	0.9				
	1.	61.1	61.1	127.0	147.2	N/R	N/R	0	0	B	T	N/R	61.3	163.5	N/R	>100	T	N/R
	2.	61.2	61.2	118.5	133.8			0	0	B	T		61.9	163.5		>100	T	
	3.	60.4	60.4	126.5	135.8			0	0	B	T		61.1	163.5		>100	T	
	4.	61.2	61.2	121.3	138.5			0	0	B	T		61.9	165.1		>100	B	
	5.	61.2	61.2	132.3	128.2			0	0	B	T		61.0	165.9		>100	T	
GEOSYNTEC: CLIENT: DS-P-52A SP94/P95	MEAN	61.0	61.0	126.1	136.7								61.4	164.3				
	S.D.	0.3	0.3	5.4	7.0								0.4	1.1				
	1.	61.5	61.5	126.5	123.7	N/R	N/R	0	0	B	T	N/R	60.9	158.7	N/R	>100	T	N/R
	2.	61.7	61.7	125.3	125.2			0	0	B	T		61.5	159.5		>100	T	
	3.	61.5	61.5	129.8	128.7			0	0	B	T		61.5	160.3		>100	T	
	4.	61.4	61.4	119.2	128.1			0	0	T	T		61.5	161.1		>100	B	
GEOSYNTEC: CLIENT: DS-P-52B SP94/P95	5.	61.6	61.6	132.7	129.6			0	0	B	T		61.7	161.9		>100	B	
	MEAN	61.5	61.5	126.7	126.7								61.4	160.3				
	S.D.	0.1	0.1	5.1	2.5								0.3	1.3				
	1.	61.1	61.1	133.2	125.6	N/R	N/R	0	0	B	T	N/R	61.4	160.3	N/R	>100	T	N/R
	2.	61.1	61.1	129.2	127.7			0	0	B	T		61.6	161.1		>100	B	
	3.	61.3	61.3	123.5	126.6			0	0	B	T		61.5	161.1		>100	B	
GEOSYNTEC: CLIENT: DS-P-61 SP94/P95	4.	61.2	61.2	125.5	124.3			0	0	B	T		61.1	161.0		>100	B	
	5.	61.4	61.4	131.0	128.0			0	0	B	T		61.4	162.7		>100	B	
	MEAN	61.2	61.2	126.5	126.4								61.4	161.2				
	S.D.	0.1	0.1	4.0	1.5								0.2	0.9				
	1.	60.5	60.5	128.1	124.1	N/R	N/R	0	0	B	B	N/R	60.3	158.7	N/R	>100	B	N/R
	2.	60.5	60.5	113.0	108.0			0	0	B	B		60.6	157.8		>100	B	
GEOSYNTEC: CLIENT: DS-P-61 SP94/P95	3.	60.3	60.3	131.1	118.0			0	25	T	PB		60.3	156.2		>100	B	
	4.	60.3	60.3	116.5	102.5			0	0	B	B		60.3	157.0		>100	B	
	5.	60.0	60.0	124.2	127.1			0	0	T	B		60.3	157.0		>100	B	
	MEAN	60.3	60.3	122.6	115.9								60.4	157.3				
	S.D.	0.2	0.2	7.7	10.5								0.1	0.9				

NOTE: See Technical Notes page for explanation of abbreviations.

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QUALITY ASSURANCE TESTING

GEOMEMBRANE SEAM PEEL AND SHEAR TEST RESULTS

CLIENT:
PROJECT:
CONTACT:
GEOSYNTEC JOB NO.:

TRAIL RIDGE LANDFILL PRIMARY LINER, PHASE 1A/1B
MR. LUKE DEBOCK
EQ2030

MATERIAL: POLYETHYLENE
SEAM TYPE: EXTRUSION FILLET
DATE RECEIVED: 04/09/92
DATE TESTED: 04/09/92

[illegible]

NOTE: See Technical Notes page for explanation of abbreviations.

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QUALITY ASSURANCE TESTING GEOMEMBRANE SEAM PEEL AND SHEAR TEST RESULTS

CLIENT:
PROJECT:
CONTACT:
GEOSYNTEC JOB NO.:

TRAIL RIDGE LANDFILL PRIMARY LINER, PHASE 1A/1B
 MR. LUKE DEBOCK
 FQ2030

MATERIAL: POLYETHYLENE
SEAM TYPE: DOUBLE TRACK FUSION
DATE RECEIVED: 04/17/92
DATE TESTED: 04/17/92

SAMPLE NUMBER	SPECIMEN NUMBER	PEEL										SHEAR				
		THICKNESS (mil)	MAXIMUM TENSION (psi)	MAXIMUM STRESS (psi)	SEAM SEPARATION (%)	LOCUS OF FAILURE	PASS OR FAIL	THICKNESS (mil)	MAXIMUM TENSION (psi)	MAXIMUM STRESS (psi)	ELONGATION AT BREAK (%)	LOCUS OF FAILURE	PASS OR FAIL	THICKNESS (mil)	MAXIMUM TENSION (psi)	MAXIMUM STRESS (psi)
GEOSYNTEC:	1.	61.8	117.4	128.8	N/R	N/R	N/R	61.8	160.0	N/R	>100	T	N/R	61.8	160.0	N/R
	2.	61.9	133.0	133.5	0	T	N/R	61.8	171.0	N/R	>100	T	N/R	61.8	171.0	N/R
	3.	61.7	131.5	123.2	0	B	N/R	61.6	174.0	N/R	>100	B	N/R	61.6	174.0	N/R
	4.	62.0	128.7	125.1	0	B	N/R	61.4	164.0	N/R	>100	B	N/R	61.4	164.0	N/R
	5.	61.5	121.4	139.2	0	B	N/R	61.6	162.0	N/R	>100	B	N/R	61.6	162.0	N/R
CLIENT:	MEAN	61.8	126.4	130.0				61.8	166.2					61.8	166.2	
	S.D.	0.2	6.7	5.5				0.2	6.0					0.2	6.0	
GEOSYNTEC:	1.	61.1	111.2	120.2	N/R	N/R	N/R	61.1	165.0	N/R	>100	B	N/R	61.1	165.0	N/R
	2.	61.2	115.3	120.2	0	B	N/R	61.1	158.0	N/R	>100	B	N/R	61.1	158.0	N/R
	3.	60.8	111.1	121.1	0	B	N/R	61.2	158.0	N/R	>100	B	N/R	61.2	158.0	N/R
	4.	61.2	113.1	122.6	0	B	N/R	61.2	158.0	N/R	>100	B	N/R	61.2	158.0	N/R
	5.	61.1	118.4	121.1	0	B	N/R	61.4	158.0	N/R	>100	B	N/R	61.4	158.0	N/R
CLIENT:	MEAN	61.1	113.8	121.0				61.2	158.6					61.2	158.6	
	S.D.	0.2	3.1	1.0				0.1	3.0					0.1	3.0	
GEOSYNTEC:	1.	61.2	101.1	130.6	N/R	N/R	N/R	61.1	158.0	N/R	>100	T	N/R	61.1	158.0	N/R
	2.	61.1	102.8	132.1	0	T	N/R	61.1	157.0	N/R	>100	T	N/R	61.1	157.0	N/R
	3.	61.2	108.2	135.2	0	T	N/R	61.5	157.0	N/R	>100	T	N/R	61.5	157.0	N/R
	4.	61.4	99.9	124.7	0	T	N/R	61.2	171.0	N/R	>100	T	N/R	61.2	171.0	N/R
	5.	61.5	114.4	120.6	0	T	N/R	61.2	163.0	N/R	>100	T	N/R	61.2	163.0	N/R
CLIENT:	MEAN	61.3	105.3	128.6				61.2	160.8					61.2	160.8	
	S.D.	0.2	6.0	5.9				0.2	5.3					0.2	5.3	
GEOSYNTEC:	1.	61.0	110.6	114.4	N/R	N/R	N/R	61.7	190.0	N/R	>100	B	N/R	61.7	190.0	N/R
	2.	61.6	103.6	132.9	0	T	N/R	61.1	159.0	N/R	>100	B	N/R	61.1	159.0	N/R
	3.	61.8	106.0	119.6	0	T	N/R	61.2	167.0	N/R	>100	B	N/R	61.2	167.0	N/R
	4.	61.4	100.8	123.3	0	T	N/R	61.4	159.0	N/R	>100	B	N/R	61.4	159.0	N/R
	5.	61.6	107.0	126.3	0	T	N/R	61.6	189.0	N/R	>100	B	N/R	61.6	189.0	N/R
CLIENT:	MEAN	61.5	105.6	123.3				61.4	182.8					61.4	182.8	
	S.D.	0.3	3.7	7.0				0.3	4.8					0.3	4.8	
GEOSYNTEC:	1.	61.3	98.7	129.8	N/R	N/R	N/R	61.3	159.0	N/R	>100	B	N/R	61.3	159.0	N/R
	2.	61.2	119.5	123.2	0	B	N/R	61.2	158.0	N/R	>100	B	N/R	61.2	158.0	N/R
	3.	61.0	132.4	122.2	0	B	N/R	61.5	158.0	N/R	>100	T	N/R	61.5	158.0	N/R
	4.	61.2	126.7	119.0	0	B	N/R	61.5	158.0	N/R	>100	T	N/R	61.5	158.0	N/R
	5.	61.4	122.1	132.7	0	B	N/R	61.4	157.0	N/R	>100	B	N/R	61.4	157.0	N/R
CLIENT:	MEAN	61.2	119.9	125.4				61.4	158.4					61.4	158.4	
	S.D.	0.1	12.8	5.7				0.1	0.9					0.1	0.9	

QUALITY ASSURANCE TESTING GEOMEMBRANE SEAM PEEL AND SHEAR TEST RESULTS

CLIENT:
 PROJECT:
 CONTACT:
 GEOSYNTEC JOB NO.:

TRAIL RIDGE LANDFILL PRIMARY LINER, PHASE 1A/1B
 MR. LUKE DEBOCK
 FQ2030

MATERIAL:
 SEAM TYPE:
 DATE RECEIVED:
 DATE TESTED:

POLYETHYLENE
 DOUBLE TRACK FUSION
 04/17/92
 04/17/92

SAMPLE NUMBER	SPECIMEN NUMBER	PEEL										SHEAR				
		THICKNESS (mil)	MAXIMUM TENSION (psi)	MAXIMUM STRESS (psi)	SEAM SEPARATION (%)	LOCUS OF FAILURE	PASS OR FAIL	THICKNESS (mil)	MAXIMUM TENSION (psi)	MAXIMUM STRESS (psi)	ELONGATION AT BREAK (%)	LOCUS OF FAILURE	PASS OR FAIL	THICKNESS (mil)	MAXIMUM TENSION (psi)	MAXIMUM STRESS (psi)
GEOSYNTEC: CLIENT: DS-P-68 SP(138/P140)	1.	61.9	102.7	133.3	N/R	N/R	N/R	62.2	156.0	N/R	>100	B	N/R	62.2	156.0	N/R
	2.	62.0	105.5	128.8	N/R	T	N/R	62.0	157.0	N/R	>100	B	N/R	62.0	157.0	N/R
	3.	62.2	110.1	129.2	N/R	T	N/R	62.3	157.0	N/R	>100	B	N/R	62.3	157.0	N/R
	4.	62.0	112.7	132.5	N/R	T	N/R	62.1	159.0	N/R	>100	B	N/R	62.1	159.0	N/R
	5.	61.9	109.7	135.2	N/R	T	N/R	62.2	160.0	N/R	>100	B	N/R	62.2	160.0	N/R
GEOSYNTEC: CLIENT: DS-P-68 SP(141/P142)	MEAN	62.0	108.1	131.4				62.2	157.8					62.2	157.8	
	S.D.	0.1	4.0	3.4				0.1	1.8					0.1	1.8	
	1.	61.4	125.1	134.8	N/R	T	N/R	61.6	159.0	N/R	>100	B	N/R	61.6	159.0	N/R
	2.	61.6	125.8	123.3	N/R	T	N/R	61.8	159.0	N/R	>100	B	N/R	61.8	159.0	N/R
	3.	61.6	130.3	135.2	N/R	T	N/R	61.8	159.0	N/R	>100	B	N/R	61.8	159.0	N/R
GEOSYNTEC: CLIENT: DS-P-70 SP(143/P145)	4.	61.8	111.9	135.6	N/R	T	N/R	61.8	159.0	N/R	>100	B	N/R	61.8	159.0	N/R
	5.	61.8	126.9	137.5	N/R	T	N/R	61.7	160.0	N/R	>100	B	N/R	61.7	160.0	N/R
	MEAN	61.6	124.0	133.3				61.7	159.0					61.7	159.0	
	S.D.	0.2	7.1	5.7				0.1	0.7					0.1	0.7	
	1.	61.9	97.4	135.8	N/R	T	N/R	61.3	157.0	N/R	>100	T	N/R	61.3	157.0	N/R
GEOSYNTEC: CLIENT: DS-P-71 SP(146/P147)	2.	61.7	115.8	119.9	N/R	T	N/R	61.3	158.0	N/R	>100	B	N/R	61.3	158.0	N/R
	3.	61.8	110.0	127.8	N/R	T	N/R	61.6	187.0	N/R	>100	B	N/R	61.6	187.0	N/R
	4.	61.4	122.1	137.6	N/R	T	N/R	61.4	159.0	N/R	>100	B	N/R	61.4	159.0	N/R
	5.	61.6	113.3	126.8	N/R	T	N/R	60.8	159.0	N/R	>100	T	N/R	60.8	159.0	N/R
	MEAN	61.7	111.7	128.6				61.3	160.0					61.3	160.0	
GEOSYNTEC: CLIENT: DS-P-72 SP(148/P149)	S.D.	0.2	9.2	7.2				0.3	4.0					0.3	4.0	
	1.	62.3	106.3	128.6	N/R	T	N/R	62.6	159.0	N/R	>100	T	N/R	62.6	159.0	N/R
	2.	62.6	114.5	124.0	N/R	T	N/R	62.6	160.0	N/R	>100	T	N/R	62.6	160.0	N/R
	3.	62.2	117.6	128.3	N/R	T	N/R	62.7	161.0	N/R	>100	T	N/R	62.7	161.0	N/R
	4.	62.5	126.3	125.7	N/R	T	N/R	62.8	162.0	N/R	>100	T	N/R	62.8	162.0	N/R
GEOSYNTEC: CLIENT: DS-P-72 SP(148/P149)	5.	62.2	105.8	126.7	N/R	T	N/R	62.5	160.0	N/R	>100	T	N/R	62.5	160.0	N/R
	MEAN	62.4	114.1	126.7				62.6	160.4					62.6	160.4	
	S.D.	0.2	8.5	1.9				0.1	1.1					0.1	1.1	
	1.	61.3	120.2	130.2	N/R	T	N/R	61.8	177.0	N/R	>100	T	N/R	61.8	177.0	N/R
	2.	63.1	132.4	105.9	N/R	T	N/R	62.4	158.0	N/R	>100	T	N/R	62.4	158.0	N/R
GEOSYNTEC: CLIENT: DS-P-72 SP(148/P149)	3.	63.3	139.4	132.0	N/R	T	N/R	63.8	158.0	N/R	>100	B	N/R	63.8	158.0	N/R
	4.	63.2	139.7	115.5	N/R	T	N/R	63.9	158.0	N/R	>100	B	N/R	63.9	158.0	N/R
	5.	63.5	132.9	126.3	N/R	T	N/R	63.4	159.0	N/R	>100	B	N/R	63.4	159.0	N/R
	MEAN	62.9	132.8	122.0				63.1	162.0					63.1	162.0	
	S.D.	0.9	7.9	11.0				0.9	8.4					0.9	8.4	

NOTE: See Technical Notes page for explanation of abbreviations.

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QUALITY ASSURANCE TESTING GEOMEMBRANE SEAM PEEL AND SHEAR TEST RESULTS

MATERIAL:	POLYETHYLENE
SEAM TYPE:	DOUBLE TRACK FUSION
DATE RECEIVED:	04/17/92
DATE TESTED:	04/17/92

[illegible]

NOTE: See Technical Notes page for explanation of abbreviations.

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QUALITY ASSURANCE TESTING

GEOMEMBRANE SEAM PEEL AND SHEAR TEST RESULTS

04/18/92

FQ2030

[illegible]

NOTE: See Technical Notes page for explanation of abbreviations.

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QUALITY ASSURANCE TESTING GEOMEMBRANE SEAM PEEL AND SHEAR TEST RESULTS

CLIENT:
 PROJECT:
 CONTACT:
 GEOSYNTEC JOB NO.:

TRAIL RIDGE LANDFILL PRIMARY LINER, PHASE 1A/1B
 MR. LUKE DEBOCK
 FQ2030

MATERIAL: POLYETHYLENE
 SEAM TYPE: DOUBLE TRACK FUSION
 DATE RECEIVED: 04/20/92
 DATE TESTED: 04/20/92

SAMPLE NUMBER	SPECIMEN NUMBER	PEEL										SHEAR													
		THICKNESS (mil)		MAXIMUM TENSION (psi)		MAXIMUM STRESS (psi)		SEAM SEPARATION (%)		LOCUS OF FAILURE		PASS OR FAIL		THICKNESS (mil)		MAXIMUM TENSION (psi)		MAXIMUM STRESS (psi)		ELONGATION AT BREAK (%)		LOCUS OF FAILURE		PASS OR FAIL	
GEOSYNTEC: CLIENT: DS-P-75 SP(152/P154)	1.	61.5	61.5	119.2	129.6	N/R	N/R	0	0	0	0	B	T	N/R	N/R	61.7	162.3	N/R	N/R	>100	>100	B	B	N/R	N/R
	2.	61.7	61.7	112.9	128.3			0	0	0	0	T	T			61.8	161.4			>100	>100	B	B		
	3.	61.6	61.6	112.5	126.9			0	0	0	0	T	T			61.7	165.4			>100	>100	B	B		
	4.	61.6	61.6	109.1	125.8			0	0	0	0	T	T			61.7	166.0			>100	>100	T	T		
	5.	61.4	61.4	118.6	131.1			0	0	0	0	T	B			61.7	165.7			>100	>100	B	B		
	MEAN	61.6	61.6	114.5	128.3											61.7	164.2								
	S.D.	0.1	0.1	4.3	2.1											0.0	2.1								
GEOSYNTEC: CLIENT: DS-P-76 SP(154/P155)	1.	61.7	61.7	126.2	121.9	N/R	N/R	0	0	0	0	B	T	N/R	N/R	61.7	161.6	N/R	N/R	>100	>100	B	B	N/R	N/R
	2.	61.7	61.7	128.1	121.5			0	0	0	0	B	T			61.8	162.4			>100	>100	T	T		
	3.	61.6	61.6	107.6	130.7			0	0	0	0	T	T			61.7	163.8			>100	>100	B	B		
	4.	61.6	61.6	113.8	126.9			0	0	0	0	T	T			61.5	162.3			>100	>100	T	T		
	5.	61.5	61.5	126.6	104.4			0	20	0	0	T	PT			61.4	163.5			>100	>100	B	B		
	MEAN	61.6	61.6	120.5	121.1											61.6	162.7								
	S.D.	0.1	0.1	9.2	10.1											0.1	0.9								
GEOSYNTEC: CLIENT: DS-P-77 SP(157/P158)	1.	61.1	61.1	129.4	132.7	N/R	N/R	0	0	0	0	B	T	N/R	N/R	61.4	156.3	N/R	N/R	>100	>100	B	B	N/R	N/R
	2.	61.2	61.2	128.7	130.7			0	0	0	0	B	T			61.4	159.4			>100	>100	B	B		
	3.	61.7	61.7	126.5	115.2			0	0	0	0	B	T			61.5	158.3			>100	>100	B	B		
	4.	61.7	61.7	136.4	124.7			0	0	0	0	B	T			61.4	160.1			>100	>100	B	B		
	5.	61.4	61.4	131.9	130.5			0	0	0	0	B	T			61.4	159.4			>100	>100	B	B		
	MEAN	61.4	61.4	130.6	128.8											61.4	156.7								
	S.D.	0.3	0.3	3.8	7.1											0.0	1.5								
GEOSYNTEC: CLIENT: DS-P-78 SP(158/P159)	1.	61.1	61.1	105.5	124.4	N/R	N/R	0	0	0	0	T	T	N/R	N/R	62.0	156.9	N/R	N/R	>100	>100	B	B	N/R	N/R
	2.	61.4	61.4	104.1	130.8			0	0	0	0	T	T			62.2	160.1			>100	>100	B	B		
	3.	61.7	61.7	107.1	105.6			0	0	0	0	T	B			62.1	159.0			>100	>100	B	B		
	4.	61.6	61.6	105.0	118.3			0	0	0	0	T	B			62.2	162.3			>100	>100	T	T		
	5.	61.4	61.4	101.5	117.1			0	50	0	0	T	PT			61.8	156.7			>100	>100	B	B		
	MEAN	61.4	61.4	104.6	119.2											62.1	160.0								
	S.D.	0.2	0.2	2.1	9.4											0.2	1.4								
GEOSYNTEC: CLIENT: DS-P-79 SP(161/P162)	1.	61.5	61.5	134.1	113.9	N/R	N/R	0	0	0	0	B	B	N/R	N/R	61.8	156.1	N/R	N/R	>100	>100	T	T	N/R	N/R
	2.	61.7	61.7	138.0	115.7			0	0	0	0	B	B			61.8	155.7			>100	>100	T	T		
	3.	61.8	61.8	140.2	116.1			0	0	0	0	B	B			62.1	156.6			>100	>100	T	T		
	4.	61.6	61.6	130.3	123.4			0	0	0	0	B	T			62.2	155.6			>100	>100	T	T		
	5.	61.4	61.4	139.7	124.8			0	0	0	0	B	T			61.8	155.1			>100	>100	T	T		
	MEAN	61.6	61.6	136.5	118.8											61.9	155.8								
	S.D.	0.2	0.2	4.2	5.0											0.2	0.6								

QUALITY ASSURANCE TESTING GEOMEMBRANE SEAM PEEL AND SHEAR TEST RESULTS

CLIENT:
PROJECT:
CONTACT:
GEOSYNTEC JOB NO.:

TRAIL RIDGE LANDFILL PRIMARY LINER, PHASE 1A/1B
 MR. LUKE DEBOCK
 FQ2030

MATERIAL:
SEAM TYPE:
DATE RECEIVED:
DATE TESTED:

POLYETHYLENE

DOUBLE TRACK FUSION

04/20/02

04/20/02

SAMPLE NUMBER	SPECIMEN NUMBER	PEEL										SHEAR													
		THICKNESS (mil)		MAXIMUM TENSION (psi)		MAXIMUM STRESS (psi)		SEAM SEPARATION (%)		LOCUS OF FAILURE		PASS OR FAIL		THICKNESS (mil)		MAXIMUM TENSION (psi)		MAXIMUM STRESS (psi)		ELONGATION AT BREAK (%)		LOCUS OF FAILURE		PASS OR FAIL	
		I	O	I	O	I	O	I	O	I	O	I	O	I	O	I	O	I	O	I	O	I	O	I	O
GEOSYNTEC: CLIENT: DS-P-30 SP162(P163)	1.	61.8	61.8	134.6	127.0	N/R	N/R	0	0	0	0	B	T	N/R	N/R	61.5	156.9	N/R	N/R	>100	>100	T	T	N/R	N/R
	2.	61.6	61.6	109.4	136.6			0	0	0	0	B	B	N/R	N/R	61.6	157.0			>100	>100	T	T		
	3.	61.8	61.8	124.1	140.0			0	0	0	0	B	T			61.8	156.9			>100	>100	T	T		
	4.	61.6	61.6	137.3	123.7			0	0	0	0	B	T			61.7	157.1			>100	>100	T	T		
	5.	61.5	61.5	130.3	115.6			0	0	0	0	B	B			61.5	157.0			>100	>100	T	T		
	MEAN	61.7	61.7	127.1	128.6											61.6	157.0								
	S.D.	0.1	0.1	11.1	9.9											0.1	0.1								
GEOSYNTEC: CLIENT: DS-P-31 SP164(P165)	1.	61.4	61.4	121.8	112.7	N/R	N/R	0	0	0	0	T	B	N/R	N/R	61.5	156.8	N/R	N/R	>100	>100	T	T	N/R	N/R
	2.	61.6	61.6	124.5	127.8			0	0	0	0	T	B			61.4	157.0			>100	>100	T	T		
	3.	61.3	61.3	122.4	120.0			0	0	0	0	T	B			61.4	155.9			>100	>100	T	T		
	4.	61.4	61.4	124.2	109.4			0	0	0	0	T	B			61.3	156.3			>100	>100	T	T		
	5.	61.4	61.4	125.1	107.8			0	0	0	0	T	B			61.4	156.7			>100	>100	T	T		
	MEAN	61.4	61.4	123.6	115.5											61.4	157.3								
	S.D.	0.1	0.1	1.4	8.3											0.1	1.1								
GEOSYNTEC: CLIENT: DS-P-32 SP168(P167)	1.	61.1	61.1	95.7	121.7	N/R	N/R	0	0	0	0	T	B	N/R	N/R	61.3	155.7	N/R	N/R	>100	>100	T	T	N/R	N/R
	2.	60.9	60.9	105.6	116.5			0	0	0	0	T	T			61.2	156.4			>100	>100	T	T		
	3.	60.9	60.9	103.3	121.0			0	0	0	0	T	B			61.1	156.1			>100	>100	T	T		
	4.	61.2	61.2	101.1	124.7			0	0	0	0	T	T			61.2	157.5			>100	>100	T	T		
	5.	61.1	61.1	101.6	118.7			0	0	0	0	T	T			61.2	156.8			>100	>100	T	T		
	MEAN	61.0	61.0	101.5	120.5											61.2	156.9								
	S.D.	0.1	0.1	3.7	3.1											0.1	0.9								
GEOSYNTEC: CLIENT: DS-P-33 SP168(P169)	1.	60.7	60.7	114.6	132.7	N/R	N/R	0	0	0	0	T	B	N/R	N/R	60.5	157.5	N/R	N/R	>100	>100	T	T	N/R	N/R
	2.	60.5	60.5	115.7	128.0			0	0	0	0	T	B			60.7	155.6			>100	>100	T	T		
	3.	61.0	61.0	120.4	130.2			0	0	0	0	T	B			60.7	157.8			>100	>100	T	T		
	4.	60.8	60.8	99.6	121.4			0	0	0	0	T	B			60.8	155.7			>100	>100	T	T		
	5.	60.8	60.8	108.5	126.7			0	0	0	0	T	B			60.7	154.5			>100	>100	T	T		
	MEAN	60.8	60.8	111.8	127.5											60.7	156.2								
	S.D.	0.2	0.2	8.0	4.2											0.1	1.4								
GEOSYNTEC: CLIENT: DS-P-34 SP168(P170)	1.	60.9	60.9	115.8	109.0	N/R	N/R	0	0	0	0	T	B	N/R	N/R	60.8	156.7	N/R	N/R	>100	>100	T	T	N/R	N/R
	2.	60.8	60.8	100.3	130.3			0	0	0	0	T	B			60.6	158.0			>100	>100	T	T		
	3.	61.1	61.1	110.2	131.6			0	0	0	0	T	B			60.7	157.1			>100	>100	T	T		
	4.	61.0	61.0	111.3	128.0			0	0	0	0	T	B			60.9	158.1			>100	>100	T	T		
	5.	61.0	61.0	110.0	114.1			0	0	0	0	T	B			60.9	159.0			>100	>100	T	T		
	MEAN	61.0	61.0	109.5	122.6											60.8	157.8								
	S.D.	0.1	0.1	5.7	10.3											0.1	0.9								

NOTE: See Technical Notes page for explanation of abbreviations.

QUALITY ASSURANCE TESTING GEOMEMBRANE SEAM PEEL AND SHEAR TEST RESULTS

CLIENT:
 PROJECT:
 CONTACT:
 GEOSYNTEC JOB NO.:

TRAIL RIDGE LANDFILL PRIMARY LINER, PHASE 1A/1B
 MR. LUKE DEBOCK
 FQ2030

MATERIAL:
 SEAM TYPE:
 DATE RECEIVED:
 DATE TESTED:

POLYETHYLENE
 DOUBLE TRACK FUSION
 04/20/82
 04/20/82

SAMPLE NUMBER	SPECIMEN NUMBER	PEEL										SHEAR					
		THICKNESS (mil)	MAXIMUM TENSION (psi)	MAXIMUM STRESS (psi)	SEAM SEPARATION (%)	LOCUS OF FAILURE	PASS OR FAIL	THICKNESS (mil)	MAXIMUM TENSION (psi)	MAXIMUM STRESS (psi)	ELONGATION AT BREAK (%)	LOCUS OF FAILURE	PASS OR FAIL	THICKNESS (mil)	MAXIMUM TENSION (psi)	MAXIMUM STRESS (psi)	ELONGATION AT BREAK (%)
GEOSYNTEC:	1.	60.5	134.1	110.5	N/R	N/R	N/R	60.7	158.7	N/R	>100	T	N/R	60.7	158.7	N/R	>100
	2.	60.7	123.5	126.8	N/R	N/R	N/R	60.8	158.1	N/R	>100	T	N/R	60.8	158.1	N/R	>100
	3.	60.5	130.4	123.5	N/R	N/R	N/R	60.8	158.7	N/R	>100	T	N/R	60.8	158.7	N/R	>100
	4.	60.8	126.0	124.4	N/R	N/R	N/R	60.8	157.1	N/R	>100	T	N/R	60.8	157.1	N/R	>100
	5.	60.9	120.1	116.7	N/R	N/R	N/R	60.7	156.5	N/R	>100	T	N/R	60.7	156.5	N/R	>100
GEOSYNTEC:	MEAN	60.7	126.8	120.6	N/R	N/R	N/R	60.8	156.8	N/R	>100	T	N/R	60.8	156.8	N/R	>100
	S.D.	0.2	5.5	6.5	N/R	N/R	N/R	0.1	1.2	N/R	>100	T	N/R	0.1	1.2	N/R	>100
	1.	61.0	124.7	115.8	N/R	N/R	N/R	61.0	158.5	N/R	>100	T	N/R	61.0	158.5	N/R	>100
	2.	61.3	121.8	111.3	N/R	N/R	N/R	60.9	157.5	N/R	>100	T	N/R	60.9	157.5	N/R	>100
	3.	61.1	118.3	116.7	N/R	N/R	N/R	61.2	158.1	N/R	>100	T	N/R	61.2	158.1	N/R	>100
GEOSYNTEC:	4.	61.2	134.1	110.9	N/R	N/R	N/R	61.2	158.3	N/R	>100	T	N/R	61.2	158.3	N/R	>100
	5.	61.3	134.2	118.2	N/R	N/R	N/R	61.2	158.3	N/R	>100	T	N/R	61.2	158.3	N/R	>100
	MEAN	61.2	126.6	114.6	N/R	N/R	N/R	61.1	158.1	N/R	>100	T	N/R	61.1	158.1	N/R	>100
	S.D.	0.1	7.2	3.3	N/R	N/R	N/R	0.1	0.4	N/R	>100	T	N/R	0.1	0.4	N/R	>100
	1.	61.2	128.2	123.0	N/R	N/R	N/R	61.4	158.5	N/R	>100	T	N/R	61.4	158.5	N/R	>100
GEOSYNTEC:	2.	61.0	126.2	126.1	N/R	N/R	N/R	61.1	158.3	N/R	>100	T	N/R	61.1	158.3	N/R	>100
	3.	61.2	131.1	121.2	N/R	N/R	N/R	61.1	158.5	N/R	>100	T	N/R	61.1	158.5	N/R	>100
	4.	61.1	127.3	112.4	N/R	N/R	N/R	61.4	160.3	N/R	>100	T	N/R	61.4	160.3	N/R	>100
	5.	61.3	133.3	109.5	N/R	N/R	N/R	61.1	159.1	N/R	>100	T	N/R	61.1	159.1	N/R	>100
	MEAN	61.2	126.8	116.4	N/R	N/R	N/R	61.2	159.1	N/R	>100	T	N/R	61.2	159.1	N/R	>100
GEOSYNTEC:	S.D.	0.1	2.4	7.1	N/R	N/R	N/R	0.2	0.8	N/R	>100	T	N/R	0.2	0.8	N/R	>100
	1.	60.7	123.3	120.4	N/R	N/R	N/R	60.9	157.6	N/R	>100	B	N/R	60.9	157.6	N/R	>100
	2.	60.8	127.2	124.4	N/R	N/R	N/R	60.8	156.4	N/R	>100	B	N/R	60.8	156.4	N/R	>100
	3.	60.7	118.7	120.6	N/R	N/R	N/R	60.8	159.0	N/R	>100	B	N/R	60.8	159.0	N/R	>100
	4.	60.8	120.2	122.4	N/R	N/R	N/R	60.7	156.7	N/R	>100	B	N/R	60.7	156.7	N/R	>100
GEOSYNTEC:	5.	60.8	124.1	113.7	N/R	N/R	N/R	60.7	156.7	N/R	>100	B	N/R	60.7	156.7	N/R	>100
	MEAN	60.8	122.7	120.3	N/R	N/R	N/R	60.8	157.1	N/R	>100	B	N/R	60.8	157.1	N/R	>100
	S.D.	0.1	3.3	4.0	N/R	N/R	N/R	0.1	0.7	N/R	>100	B	N/R	0.1	0.7	N/R	>100
	1.	60.9	128.4	117.9	N/R	N/R	N/R	61.2	159.0	N/R	>100	T	N/R	61.2	159.0	N/R	>100
	2.	61.0	110.9	122.8	N/R	N/R	N/R	61.0	158.5	N/R	>100	T	N/R	61.0	158.5	N/R	>100
GEOSYNTEC:	3.	60.9	130.1	126.2	N/R	N/R	N/R	61.0	160.4	N/R	>100	T	N/R	61.0	160.4	N/R	>100
	4.	61.0	119.2	127.1	N/R	N/R	N/R	60.9	159.8	N/R	>100	T	N/R	60.9	159.8	N/R	>100
	5.	61.0	128.5	118.8	N/R	N/R	N/R	61.3	161.2	N/R	>100	T	N/R	61.3	161.2	N/R	>100
	MEAN	61.0	122.4	122.6	N/R	N/R	N/R	61.1	160.0	N/R	>100	T	N/R	61.1	160.0	N/R	>100
	S.D.	0.1	7.7	5.2	N/R	N/R	N/R	0.2	0.6	N/R	>100	T	N/R	0.2	0.6	N/R	>100

NOTE: See Technical Notes page for explanation of abbreviations.

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TRAIL RIDGE LANDFILL
MR. LUKE DEBOCK
FQ2030

TRAIL RIDGE LANDFILL PRIMARY LINER, PHASE 1A/1B
MR. LUKE DEBOCK
FQ2030

MATERIAL:	POLYETHYLENE
SEAM TYPE:	DOUBLE TRACK FUSION
DATE RECEIVED:	04/20/92
DATE TESTED:	04/20/92

SAMPLE NUMBER	SPECIMEN NUMBER	PEEL														SHEAR												
		THICKNESS (mil)				MAXIMUM TENSION (psi)		MAXIMUM STRESS (psi)		SEAM SEPARATION (%)		LOCUS OF FAILURE		PASS OR FAIL		THICKNESS (mil)		MAXIMUM TENSION (psi)		MAXIMUM STRESS (psi)		ELONGATION AT BREAK (%)		LOCUS OF FAILURE		PASS OR FAIL		
		I	O	I	O	I	O	I	O	I	O	I	O	I	O	I	O	I	O	I	O	I	O	I	O	I	O	I
GEOSYNTEC: CLIENT: DS-P-90 SP182(P183)	1.	60.6	60.6	112.0	125.4	N/R	N/R	N/R	0	0	0	0	T	T	N/R	N/R	60.8	154.8	N/R	>100	T	N/R						
	2.	60.5	60.5	125.2	128.0				0	0	0	0	B	B			60.6	156.1		>100	T							
	3.	60.7	60.7	115.5	131.5				0	0	0	0	T	T			60.5	156.1		>100	T							
	4.	60.8	60.6	127.0	130.0				0	0	0	0	T	T			60.8	155.7		>100	T							
	5.	60.4	60.4	123.2	121.1				0	0	0	0	T	T			60.8	157.5		>100	T							
	MEAN	60.6	60.6	120.6	127.2												60.6	158.0										
	S.D.	0.1	0.1	6.5	4.1												0.1	1.0										
GEOSYNTEC: CLIENT: DS-P-91 SP183(P184)	1.	60.2	60.2	114.3	119.2	N/R	N/R	N/R	0	0	0	0	T	B	N/R	N/R	60.4	157.1	N/R	>100	T	N/R						
	2.	60.4	60.4	110.7	122.5				0	0	0	0	T	B			60.5	157.5		>100	T							
	3.	60.4	60.4	118.0	125.4				0	0	0	0	T	B			60.5	157.5		>100	T							
	4.	60.5	60.5	106.5	127.6				0	0	0	0	T	B			60.6	158.0		>100	T							
	5.	60.5	60.5	117.5	126.7				0	0	0	0	T	T			60.3	157.0		>100	T							
	MEAN	60.4	60.4	113.4	124.3												60.5	157.4										
	S.D.	0.1	0.1	4.3	3.4												0.1	0.4										

NOTE: See Technical Notes page for explanation of abbreviations.

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QUALITY ASSURANCE TESTING GEOMEMBRANE SEAM PEEL AND SHEAR TEST RESULTS

CLIENT:
PROJECT:
CONTACT:
GEOSYNTEC JOB NO.:

TRAIL RIDGE LANDFILL PRIMARY LINER, PHASE 1A/1B
MR. LUKE DEBOOK
FQ2030

MATERIAL: POLYETHYLENE
SEAM TYPE: EXTRUSION FILLET
DATE RECEIVED: 04/21/82
DATE TESTED: 04/21/82

SAMPLE NUMBER	SPECIMEN NUMBER	PEEL					SHEAR						
		THICKNESS (mil)	MAXIMUM TENSION (psi)	MAXIMUM STRESS (psi)	SEAM SEPARATION (%)	LOCUS OF FAILURE	PASS OR FAIL	THICKNESS (mil)	MAXIMUM TENSION (psi)	MAXIMUM STRESS (psi)	ELONGATION AT BREAK (%)	LOCUS OF FAILURE	PASS OR FAIL
GEOSYNTEC:	1.	62.7	132.9	NIR	0	B	NIR	63.6	156.7	NIR	>100	T	NIR
	2.	63.8	155.1		0	B		62.6	157.4		>100	T	
	3.	61.9	150.4		0	B		63.9	157.2		>100	T	
	4.	62.2	147.1		0	B		62.8	159.2		>100	T	
	5.	63.7	104.5		0	T		62.5	158.6		>100	T	
CLIENT: DS-P-92 S(P63/P172)	MEAN	62.9	138.0					63.1	157.8				
	S.D.	0.9	20.6					0.8	1.0				

QUALITY ASSURANCE TESTING GEOMEMBRANE SEAM PEEL AND SHEAR TEST RESULTS

CLIENT:
PROJECT:
CONTACT:
GEOSYNTEC JOB NO.:

TRAIL RIDGE LANDFILL PRIMARY LINER, PHASE 1A/1B
 MR. LUKE DEBOCK
 FQ2030

MATERIAL:
SEAM TYPE:
DATE RECEIVED:
DATE TESTED:

POLYETHYLENE
 DOUBLE TRACK FUSION
 04/23/92
 04/23/92

SAMPLE NUMBER	SPECIMEN NUMBER	PEEL										SHEAR										
		THICKNESS (mil)		MAXIMUM TENSION (psi)		MAXIMUM STRESS (psi)		SEAM SEPARATION (%)		LOCUS OF FAILURE		PASS OR FAIL	THICKNESS (mil)		MAXIMUM TENSION (psi)		MAXIMUM STRESS (psi)		ELONGATION AT BREAK (%)		LOCUS OF FAILURE	
GEOSYNTEC: CLIENT: DS-P-93 SP186/P186	1.	60.9	60.9	104.2	118.5	NIR	NIR	0	0	T	T	NIR	NIR	60.8	158.0	NIR	NIR	>100	>100	B	B	NIR
	2.	60.3	60.3	105.6	121.8			0	0	T	T			61.1	159.0			>100	>100	B	B	
	3.	60.9	60.9	102.2	123.3			0	0	T	T			61.6	160.0			>100	>100	B	B	
	4.	60.7	60.7	102.8	123.5			0	0	T	T			60.3	161.0			>100	>100	B	B	
	5.	60.6	60.6	125.2	121.4			0	0	T	T			60.3	161.0			>100	>100	B	B	
	MEAN S.D.	60.7 0.2	60.7 0.2	108.0 9.7	121.7 2.0									60.8 0.6	159.8 1.3							
GEOSYNTEC: CLIENT: DS-P-94 SP188/P187	1.	60.9	60.9	142.2	132.5	NIR	NIR	0	0	B	B	NIR	NIR	60.7	161.0	NIR	NIR	>100	>100	B	B	NIR
	2.	61.1	61.1	140.9	137.0			0	0	B	B			61.0	162.0			>100	>100	B	B	
	3.	60.9	60.9	141.7	122.3			0	0	B	T			61.3	162.0			>100	>100	B	B	
	4.	61.2	61.2	144.4	134.6			0	0	B	T			61.0	164.0			>100	>100	B	B	
	5.	61.3	61.3	129.5	122.5			0	0	T	T			61.0	164.0			>100	>100	B	B	
	MEAN S.D.	61.1 0.2	61.1 0.2	139.7 5.9	129.8 6.9									61.0 0.2	162.6 1.3							
GEOSYNTEC: CLIENT: DS-P-95 SP188/P189	1.	61.3	61.3	126.8	118.0	NIR	NIR	0	0	T	T	NIR	NIR	60.9	162.0	NIR	NIR	>100	>100	B	B	NIR
	2.	61.4	61.4	135.8	137.9			0	0	T	B			61.2	163.0			>100	>100	B	B	
	3.	61.4	61.4	135.6	125.4			0	0	B	T			61.5	162.0			>100	>100	B	B	
	4.	61.3	61.3	135.1	124.7			0	80	B	PT			61.7	161.0			>100	>100	B	B	
	5.	61.4	61.4	131.9	127.6			0	0	B	T			61.0	162.0			>100	>100	B	B	
	MEAN S.D.	61.4 0.1	61.4 0.1	133.0 3.6	126.7 7.2									61.3 0.3	162.0 0.7							
GEOSYNTEC: CLIENT: DS-P-96 SP190/P191	1.	60.8	60.8	115.2	123.3	NIR	NIR	0	10	T	PT	NIR	NIR	60.8	158.0	NIR	NIR	>100	>100	T	T	NIR
	2.	60.9	60.9	97.2	122.5			0	0	T	T			61.2	159.0			>100	>100	T	T	
	3.	61.0	61.0	105.4	121.5			0	0	T	T			61.2	159.0			>100	>100	T	T	
	4.	61.0	61.0	105.1	102.6			0	10	T	PB			61.5	159.0			>100	>100	T	T	
	5.	61.1	61.1	125.6	116.2			0	0	B	T			61.1	159.0			>100	>100	B	B	
	MEAN S.D.	61.0 0.1	61.0 0.1	109.7 10.9	117.2 8.6									61.2 0.3	158.8 0.4							
GEOSYNTEC: CLIENT: DS-P-97 SP192/P193	1.	60.3	60.3	100.2	125.1	NIR	NIR	0	0	T	T	NIR	NIR	60.4	159.0	NIR	NIR	>100	>100	B	B	NIR
	2.	60.4	60.4	95.7	132.8			0	0	T	T			60.8	159.0			>100	>100	B	B	
	3.	60.8	60.8	98.9	129.9			0	0	T	T			60.7	161.0			>100	>100	B	B	
	4.	60.9	60.9	129.0	126.0			0	0	B	T			60.4	161.0			>100	>100	B	B	
	5.	60.7	60.7	102.8	128.5			0	0	T	T			60.5	159.0			>100	>100	B	B	
	MEAN S.D.	60.6 0.3	60.6 0.3	105.3 13.5	128.6 3.1									60.8 0.2	159.8 1.1							

NOTE: See Technical Notes page for explanation of abbreviations.

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QUALITY ASSURANCE TESTING GEOMEMBRANE SEAM PEEL AND SHEAR TEST RESULTS

CLIENT:
 PROJECT:
 CONTACT:
 GEOSYNTEC JOB NO.:

TRAIL RIDGE LANDFILL PRIMARY LINER, PHASE 1A/1B
 MR. LUKE DEBOCK
 FQ2030

MATERIAL:
 SEAM TYPE:
 DATE RECEIVED:
 DATE TESTED:

POLYETHYLENE

DOUBLE TRACK FUSION

04/23/92

04/23/92

SAMPLE NUMBER	SPECIMEN NUMBER	PEEL										SHEAR													
		THICKNESS (mil)			MAXIMUM TENSION (psi)		MAXIMUM STRESS (psi)		SEAM SEPARATION (%)		LOCUS OF FAILURE		PASS OR FAIL	THICKNESS (mil)			MAXIMUM TENSION (psi)		MAXIMUM STRESS (psi)		ELONGATION AT BREAK (%)		LOCUS OF FAILURE		PASS OR FAIL
		I	O	I	O	I	O	I	O	I	O	I	O	I	O	I	O	I	O	I	O	I	O	I	O
GEOSYNTEC: CLIENT: DS-P-98 SP(183/P194)	1.	60.5	60.5	140.4	119.8	N/R	N/R	N/R	N/R	0	0	0	0	B	T	N/R	N/R	60.4	156.0	N/R	N/R	>100	T	N/R	N/R
	2.	60.7	60.7	137.1	122.6					0	0	0	0	B	T			60.8	156.0			>100	T		
	3.	61.0	61.0	139.9	117.9					0	0	0	0	T	T			60.8	157.0			>100	T		
	4.	61.0	61.0	138.9	120.4					0	0	0	0	T	T			60.8	158.0			>100	T		
	5.	60.9	60.9	127.1	127.3					0	0	0	0	T	T			60.5	158.0			>100	B		
	MEAN	60.8	60.8	136.7	121.6													60.6	157.2						
	S.D.	0.2	0.2	5.5	3.6													0.2	1.3						
GEOSYNTEC: CLIENT: DS-P-99 SP(184/P195)	1.	60.0	60.0	130.2	97.5	N/R	N/R	N/R	N/R	0	0	0	0	B	B	N/R	N/R	59.8	156.0	N/R	N/R	>100	B	N/R	N/R
	2.	60.1	60.1	129.6	105.4					0	0	0	0	B	B			60.2	156.0			>100	B		
	3.	60.4	60.4	123.5	121.7					0	0	0	0	B	T			60.4	158.0			>100	B		
	4.	60.5	60.5	123.8	107.6					0	0	0	0	B	B			60.8	158.0			>100	B		
	5.	60.4	60.4	130.8	136.8					0	0	0	0	T	T			60.4	159.0			>100	B		
	MEAN	60.3	60.3	127.6	113.8													60.3	157.6						
	S.D.	0.2	0.2	3.6	15.5													0.4	1.5						
GEOSYNTEC: CLIENT: DS-P-100 SP(188/P197)	1.	60.0	60.0	99.8	113.0	N/R	N/R	N/R	N/R	0	0	0	0	T	B	N/R	N/R	60.2	156.0	N/R	N/R	>100	B	N/R	N/R
	2.	60.9	60.9	108.2	104.0					0	0	0	0	T	B			60.6	158.0			>100	B		
	3.	60.7	60.7	98.4	104.6					0	0	0	0	T	B			60.8	158.0			>100	B		
	4.	61.0	61.0	103.1	108.4					0	0	0	0	T	B			61.0	156.0			>100	B		
	5.	60.9	60.9	100.6	97.6					0	0	0	0	T	B			60.9	157.0			>100	B		
	MEAN	60.7	60.7	102.0	105.5													60.7	157.2						
	S.D.	0.4	0.4	3.9	5.7													0.3	1.3						
GEOSYNTEC: CLIENT: DS-P-101 SP(199/P200)	1.	60.3	60.3	118.1	128.4	N/R	N/R	N/R	N/R	0	0	0	0	T	B	N/R	N/R	60.3	163.0	N/R	N/R	>100	B	N/R	N/R
	2.	60.5	60.5	98.6	115.4					0	0	0	0	T	T			60.2	157.0			>100	B		
	3.	60.5	60.5	105.5	119.7					0	0	0	0	T	T			60.5	159.0			>100	B		
	4.	60.8	60.8	111.4	100.1					0	50	0	0	T	PT			60.9	159.0			>100	B		
	5.	60.7	60.7	100.7	131.9					0	0	0	0	T	B			60.9	162.0			>100	B		
	MEAN	60.6	60.6	106.9	119.1													60.6	158.0						
	S.D.	0.2	0.2	8.0	12.5													0.3	3.3						
GEOSYNTEC: CLIENT: DS-P-102 SP(200/P201)	1.	60.1	60.1	94.7	120.9	N/R	N/R	N/R	N/R	0	0	0	0	T	T	N/R	N/R	60.0	157.0	N/R	N/R	>100	B	N/R	N/R
	2.	60.3	60.3	100.9	121.0					0	0	0	0	T	T			60.0	159.0			>100	B		
	3.	60.2	60.2	96.7	98.9					0	0	0	0	T	B			60.0	156.0			>100	B		
	4.	60.2	60.2	98.4	118.9					0	0	0	0	T	T			60.1	157.0			>100	B		
	5.	60.2	60.2	94.7	127.0					0	0	0	0	T	T			60.1	157.0			>100	B		
	MEAN	60.2	60.2	97.1	117.3													60.0	157.2						
	S.D.	0.1	0.1	2.6	10.7													0.1	1.1						

NOTE: See Technical Notes page for explanation of abbreviations.

QUALITY ASSURANCE TESTING GEOMEMBRANE SEAM PEEL AND SHEAR TEST RESULTS

CLIENT:
 PROJECT:
 CONTACT:
 GEOSYNTEC JOB NO.:

TRAIL RIDGE LANDFILL PRIMARY LINER, PHASE 1A/1B
 MR. LUKE DEBOCK
 FQ2030

MATERIAL:
 SEAM TYPE:
 DATE RECEIVED:
 DATE TESTED:

POLYETHYLENE

DOUBLE TRACK FUSION

04/23/02

04/23/02

SAMPLE NUMBER	SPECIMEN NUMBER	PEEL										SHEAR											
		THICKNESS (mil)		MAXIMUM TENSION (psi)		MAXIMUM STRESS (psi)		SEAM SEPARATION (%)		LOCUS OF FAILURE		PASS OR FAIL	THICKNESS (mil)		MAXIMUM TENSION (psi)		MAXIMUM STRESS (psi)		ELONGATION AT BREAK (%)		LOCUS OF FAILURE		PASS OR FAIL
		I	O	I	O	I	O	I	O	I	O	I	O	I	O	I	O	I	O	I	O	I	O
GEOSYNTEC: CLIENT: DS-P-103 SP(202/P204)	1.	60.1	60.1	116.7	114.0	NIR	NIR	0	0	B	B	NIR	NIR	60.2	154.0	NIR	NIR	>100	>100	T	T	NIR	NIR
	2.	60.4	60.4	119.4	112.4			0	0	B	T			60.6	157.0			>100	>100	T	T		
	3.	60.3	60.3	93.2	132.1			0	0	T	T			60.4	156.0			>100	>100	T	T		
	4.	60.5	60.5	95.6	112.3			0	0	T	B			60.6	158.0			>100	>100	T	T		
	5.	60.5	60.5	117.6	100.1			0	0	B	B			60.5	159.0			>100	>100	B	B		
	MEAN	60.4	60.4	108.5	114.2									60.6	156.8								
	S.D.	0.2	0.2	12.9	11.6									0.2	1.9								
GEOSYNTEC: CLIENT: DS-P-104 SP(206/P208)	1.	60.3	60.3	97.2	130.9	NIR	NIR	0	0	T	T	NIR	NIR	60.2	156.0	NIR	NIR	>100	>100	B	B	NIR	NIR
	2.	60.6	60.6	101.2	119.5			0	0	T	T			60.5	158.0			>100	>100	B	B		
	3.	60.7	60.7	100.2	100.0			0	0	T	B			60.5	156.0			>100	>100	B	B		
	4.	60.3	60.3	98.4	103.0			0	0	T	B			60.7	158.0			>100	>100	B	B		
	5.	60.7	60.7	98.7	117.5			0	0	T	B			60.3	159.0			>100	>100	B	B		
	MEAN	60.5	60.5	99.1	114.2									60.4	157.4								
	S.D.	0.2	0.2	1.8	12.7									0.2	1.3								
GEOSYNTEC: CLIENT: DS-P-105 SP(208/P208)	1.	60.7	60.7	134.5	122.2	NIR	NIR	0	0	B	B	NIR	NIR	60.9	156.0	NIR	NIR	>100	>100	B	B	NIR	NIR
	2.	60.8	60.8	139.8	115.2			0	0	B	B			60.5	156.0			>100	>100	B	B		
	3.	60.9	60.9	133.6	124.3			0	0	B	B			60.9	160.0			>100	>100	B	B		
	4.	61.0	61.0	138.3	104.1			0	0	T	B			60.9	156.0			>100	>100	B	B		
	5.	61.1	61.1	114.9	109.9			0	0	B	B			60.9	157.0			>100	>100	B	B		
	MEAN	60.9	60.9	132.2	115.1									60.8	157.0								
	S.D.	0.2	0.2	10.0	8.4									0.2	1.7								
GEOSYNTEC: CLIENT: DS-P-106 SP(208/P210)	1.	60.5	60.5	121.8	95.4	NIR	NIR	0	0	T	B	NIR	NIR	60.7	155.0	NIR	NIR	>100	>100	B	B	NIR	NIR
	2.	60.9	60.9	136.9	104.5			0	0	T	B			60.5	157.0			>100	>100	B	B		
	3.	60.7	60.7	111.6	107.5			0	0	B	T			60.7	157.0			>100	>100	B	B		
	4.	60.9	60.9	101.1	110.7			0	0	T	T			60.9	157.0			>100	>100	B	B		
	5.	60.9	60.9	100.6	90.9			0	0	T	B			60.9	159.0			>100	>100	B	B		
	MEAN	60.8	60.8	114.4	101.8									60.7	157.0								
	S.D.	0.2	0.2	15.3	8.3									0.2	1.4								
GEOSYNTEC: CLIENT: DS-P-107 SP(211/P212)	1.	62.0	62.0	129.5	124.1	NIR	NIR	0	0	T	T	NIR	NIR	62.2	163.0	NIR	NIR	>100	>100	T	T	NIR	NIR
	2.	63.2	63.2	127.0	124.8			0	0	B	B			63.4	156.0			>100	>100	T	T		
	3.	63.7	63.7	135.2	121.5			0	0	B	B			63.6	155.0			>100	>100	T	T		
	4.	63.1	63.1	122.9	122.5			0	0	T	B			62.3	154.0			>100	>100	T	T		
	5.	62.2	62.2	131.0	122.3			0	0	B	T			63.1	156.0			>100	>100	T	T		
	MEAN	62.8	62.8	129.1	123.0									62.9	154.8								
	S.D.	0.7	0.7	4.6	1.4									0.6	1.3								

NOTE: See Technical Notes page for explanation of abbreviations.



Materials Testing Laboratory

QUALITY ASSURANCE TESTING GEOMEMBRANE SEAM PEEL AND SHEAR TEST RESULTS

CLIENT:
PROJECT:
CONTACT:
GEOSYNTEC JOB NO.:

TRAIL RIDGE LANDFILL PRIMARY LINER, PHASE 1A/1B
MR. LUKE DEBOCK
FQ2030

MATERIAL: POLYETHYLENE
SEAM TYPE: DOUBLE TRACK FUSION
DATE RECEIVED: 04/24/92
DATE TESTED: 04/24/92

SAMPLE NUMBER	SPECIMEN NUMBER	PEEL										SHEAR						
		THICKNESS (mil)		MAXIMUM TENSION (psi)		MAXIMUM STRESS (psi)		SEAM SEPARATION (%)		LOCUS OF FAILURE		PASS OR FAIL	THICKNESS (mil)	MAXIMUM TENSION (psi)	MAXIMUM STRESS (psi)	ELONGATION AT BREAK (%)	LOCUS OF FAILURE	PASS OR FAIL
GEOSYNTEC: CLIENT: DS-P-108 SP213(P214)	1.	61.2	61.2	109.6	132.3	NIR	NIR	0	0	T	T	NIR	60.9	153.8	NIR	>100	B	NIR
	2.	60.8	60.8	102.5	127.5			0	0	T	T		61.0	154.2		>100	B	
	3.	60.8	60.8	97.4	118.6			0	0	T	T		60.9	153.7		>100	B	
	4.	60.6	60.6	95.4	131.0			0	0	T	T		61.0	154.8		>100	B	
	5.	60.9	60.9	105.8	118.0			0	0	T	T		60.9	152.6		>100	B	
	MEAN	60.9	60.9	102.1	125.6								60.9	153.8				
	S.D.	0.2	0.2	5.9	6.8								0.1	0.8				
GEOSYNTEC: CLIENT: DS-P-109 SP216(P217)	1.	60.5	60.5	95.8	117.2	NIR	NIR	0	0	T	B	NIR	60.7	144.8	NIR	>100	T	NIR
	2.	60.5	60.5	127.1	111.4			0	0	B	B		60.6	149.5		>100	T	
	3.	60.5	60.5	131.0	114.7			0	0	B	T		61.0	149.1		>100	T	
	4.	60.6	60.6	131.5	112.1			0	0	T	T		61.0	150.6		>100	T	
	5.	60.7	60.7	107.8	112.2			0	0	T	T		60.9	149.3		>100	T	
	MEAN	60.6	60.6	118.6	113.5								60.8	148.7				
	S.D.	0.1	0.1	16.0	2.4								0.2	2.2				
GEOSYNTEC: CLIENT: DS-P-110 SP218(P218)	1.	61.2	61.2	104.0	123.4	NIR	NIR	0	0	B	T	NIR	60.9	153.1	NIR	>100	T	NIR
	2.	61.1	61.1	101.0	118.6			0	0	B	T		61.1	153.4		>100	T	
	3.	60.8	60.8	101.2	122.0			0	0	B	T		61.2	153.4		>100	T	
	4.	61.0	61.0	93.5	116.4			0	0	B	T		61.4	152.8		>100	T	
	5.	61.4	61.4	95.6	124.5			0	0	B	T		61.0	152.1		>100	T	
	MEAN	61.1	61.1	98.1	121.0								61.1	153.0				
	S.D.	0.2	0.2	4.3	3.4								0.2	0.5				
GEOSYNTEC: CLIENT: DS-P-111 SP218(P219)	1.	60.9	60.9	101.9	129.3	NIR	NIR	0	0	T	T	NIR	60.8	150.6	NIR	>100	B	NIR
	2.	60.9	60.9	100.1	120.4			0	0	T	T		60.9	152.3		>100	B	
	3.	61.0	61.0	100.8	128.7			0	0	T	T		60.9	152.2		>100	B	
	4.	60.8	60.8	100.6	127.1			0	0	T	T		61.0	152.5		>100	B	
	5.	61.0	61.0	98.6	123.8			0	0	T	T		61.1	151.5		>100	B	
	MEAN	60.9	60.9	100.4	126.1								60.9	151.8				
	S.D.	0.1	0.1	1.2	3.8								0.1	0.8				

NOTE: See Technical Notes page for explanation of abbreviations.

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QUALITY ASSURANCE TESTING GEOMEMBRANE SEAM PEEL AND SHEAR TEST RESULTS

CLIENT:
PROJECT:
CONTACT:
GEOSYNTEC JOB NO.:

TRAIL RIDGE LANDFILL PRIMARY LINER, PHASE 1A/1B
 MR. LUKE DEBOCK
 FQ2030

MATERIAL:
SEAM TYPE:
DATE RECEIVED:
DATE TESTED:

POLYETHYLENE

DOUBLE TRACK FUSION

05/06/92

05/06/92

SAMPLE NUMBER		PEEL														SHEAR									
		SPECIMEN NUMBER	THICKNESS (mil)		MAXIMUM TENSION (psi)		MAXIMUM STRESS (psi)		SEAM SEPARATION (%)		LOCUS OF FAILURE		PASS OR FAIL	THICKNESS (mil)	MAXIMUM TENSION (psi)	MAXIMUM STRESS (psi)	ELONGATION AT BREAK (%)	LOCUS OF FAILURE	PASS OR FAIL						
			I	O	I	O	I	O	I	O	I	O								I	O				
GEOSYNTEC:		1.	61.1	61.1	102.2	105.2	N/R	N/R	0	0	T	T	N/R	61.1	158.0	N/R	>100	T	N/R						
		2.	61.2	61.2	103.6	120.9			0	0	T	T		61.4	159.0		>100	T							
		3.	61.5	61.5	99.9	104.0			20	0	PB	T		61.6	159.0		>100	B							
		4.	61.5	61.5	101.7	114.2			0	0	T	T		61.5	159.0		>100	B							
		5.	61.5	61.5	105.4	114.0			0	0	T	T		61.4	159.0		>100	B							
		MEAN	61.4	61.4	102.8	111.7							61.4	158.8											
		S.D.	0.2	0.2	2.1	7.0							0.2	0.4											
DS-P-112 SP(220/P222)																									
GEOSYNTEC:		1.	61.6	61.6	95.3	101.8	N/R	N/R	0	0	T	B	N/R	61.2	159.0	N/R	>100	T	N/R						
		2.	61.5	61.5	95.3	107.1			0	0	T	T		61.5	180.0		>100	T							
		3.	61.0	61.0	104.1	111.3			0	0	B	T		61.3	160.0		>100	T							
		4.	61.4	61.4	108.2	105.4			0	0	T	T		61.4	182.0		>100	T							
		5.	61.0	61.0	102.7	125.0			0	0	T	T		61.5	180.0		>100	T							
		MEAN	61.3	61.3	101.1	110.1							61.4	180.2											
		S.D.	0.3	0.3	5.7	9.0							0.1	1.1											
DS-P-113 SP(222/P223)																									
GEOSYNTEC:		1.	61.7	61.7	129.7	121.2	N/R	N/R	0	0	T	B	N/R	61.5	182.0	N/R	>100	B	N/R						
		2.	61.7	61.7	122.7	118.1			0	0	T	T		61.7	180.0		>100	T							
		3.	61.7	61.7	129.6	127.7			0	0	T	T		61.8	159.0		>100	T							
		4.	61.8	61.8	135.0	95.3			0	100	B	P		62.0	159.0		>100	T							
		5.	61.8	61.8	118.7	127.7			0	80	T	PB		61.8	159.0		>100	T							
		MEAN	61.7	61.7	127.1	115.0							61.8	159.8											
		S.D.	0.1	0.1	8.4	13.4							0.2	1.3											
DS-P-114 SP(124/P125)																									
GEOSYNTEC:		1.	61.3	61.3	112.0	119.5	N/R	N/R	0	0	T	T	N/R	61.3	180.0	N/R	>100	T	N/R						
		2.	61.3	61.3	102.2	119.1			0	0	T	T		61.4	180.0		>100	T							
		3.	61.4	61.4	100.6	117.2			0	0	B	T		61.5	159.0		>100	T							
		4.	61.3	61.3	109.6	108.2			0	0	B	T		61.6	158.0		>100	T							
		5.	61.3	61.3	114.0	118.1			0	0	B	T		61.6	159.0		>100	T							
		MEAN	61.3	61.3	107.7	116.4							61.5	159.2											
		S.D.	0.0	0.0	6.0	4.7							0.1	0.8											
DS-P-115 SP(228/P227)																									
GEOSYNTEC:		1.	61.3	61.3	132.9	115.6	N/R	N/R	0	0	B	T	N/R	61.3	158.0	N/R	>100	T	N/R						
		2.	61.3	61.3	107.4	124.5			0	0	T	T		61.3	157.0		>100	T							
		3.	61.4	61.4	110.7	116.7			0	0	B	T		61.4	160.0		>100	T							
		4.	61.3	61.3	105.9	118.8			0	0	B	T		61.3	159.0		>100	T							
		5.	61.3	61.3	119.7	116.0			0	0	B	T		61.6	160.0		>100	T							
		MEAN	61.3	61.3	115.3	118.3							61.4	160.4											
		S.D.	0.0	0.0	11.2	3.7							0.1	1.1											
DS-P-116 SP(228/P228)																									

NOTE: See Technical Notes page for explanation of abbreviations.

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Geosyntec Consultants

Materials Testing Laboratory

QUALITY ASSURANCE TESTING GEOMEMBRANE SEAM PEEL AND SHEAR TEST RESULTS

CLIENT:
PROJECT:
CONTACT:
GEOSYNTEC JOB NO.:

TRAIL RIDGE LANDFILL PRIMARY LINER, PHASE 1A/1B
MR. LUKE DEBOCK
FQ2030

MATERIAL:
SEAM TYPE:
DATE RECEIVED:
DATE TESTED:

POLYETHYLENE
DOUBLE TRACK FUSION
04/29/82
04/29/82

SAMPLE NUMBER	SPECIMEN NUMBER	PEEL										SHEAR				
		THICKNESS (mil)	MAXIMUM TENSION (psi)	MAXIMUM STRESS (psi)	SEAM SEPARATION (%)	LOCUS OF FAILURE	PASS OR FAIL	THICKNESS (mil)	MAXIMUM TENSION (psi)	MAXIMUM STRESS (psi)	ELONGATION AT BREAK (%)	LOCUS OF FAILURE	PASS OR FAIL	THICKNESS (mil)	MAXIMUM TENSION (psi)	MAXIMUM STRESS (psi)
GEOSYNTEC: CLIENT: DS-P-114A (SP224/P225)	1.	60.7	143.2	120.1	N/R	N/R	N/R	60.6	182.7	N/R	>100	T	N/R	60.6	182.7	N/R
	2.	60.7	142.1	119.2	N/R	N/R	N/R	61.0	184.3	N/R	>100	T	N/R	61.0	184.3	N/R
	3.	61.0	142.1	110.8	N/R	N/R	N/R	60.8	185.1	N/R	>100	T	N/R	60.8	185.1	N/R
	4.	61.1	141.2	109.2	N/R	N/R	N/R	60.8	185.9	N/R	>100	T	N/R	60.8	185.9	N/R
	5.	60.9	139.7	131.4	N/R	N/R	N/R	60.8	185.1	N/R	>100	T	N/R	60.8	185.1	N/R
	MEAN	60.9	141.7	118.1	N/R	N/R	N/R	60.8	184.8	N/R	>100	T	N/R	60.8	184.8	N/R
GEOSYNTEC: CLIENT: DS-P-114B (SP224/P225)	S.D.	0.2	1.3	8.9	N/R	N/R	N/R	0.1	1.2	N/R	>100	T	N/R	0.1	1.2	N/R
	1.	60.5	129.8	124.8	N/R	N/R	N/R	60.7	185.9	N/R	>100	T	N/R	60.7	185.9	N/R
	2.	60.3	125.0	138.5	N/R	N/R	N/R	60.5	185.9	N/R	>100	T	N/R	60.5	185.9	N/R
	3.	60.6	122.1	125.5	N/R	N/R	N/R	60.6	185.9	N/R	>100	T	N/R	60.6	185.9	N/R
	4.	60.6	123.3	133.7	N/R	N/R	N/R	60.7	185.9	N/R	>100	T	N/R	60.7	185.9	N/R
	5.	60.6	141.8	130.3	N/R	N/R	N/R	60.5	185.1	N/R	>100	T	N/R	60.5	185.1	N/R
GEOSYNTEC: CLIENT: DS-P-117 (SP234/P235)	MEAN	60.5	128.4	130.6	N/R	N/R	N/R	60.8	185.7	N/R	>100	T	N/R	60.8	185.7	N/R
	S.D.	0.1	3.0	5.7	N/R	N/R	N/R	0.1	0.4	N/R	>100	T	N/R	0.1	0.4	N/R
	1.	59.8	114.4	129.5	N/R	N/R	N/R	60.2	183.5	N/R	>100	T	N/R	60.2	183.5	N/R
	2.	60.0	116.3	140.3	N/R	N/R	N/R	60.2	184.3	N/R	>100	T	N/R	60.2	184.3	N/R
	3.	60.2	108.0	133.1	N/R	N/R	N/R	60.1	181.9	N/R	>100	T	N/R	60.1	181.9	N/R
	4.	60.4	124.6	132.2	N/R	N/R	N/R	60.0	181.9	N/R	>100	T	N/R	60.0	181.9	N/R
GEOSYNTEC: CLIENT: DS-P-118 (SP234/P235)	5.	60.3	125.7	131.6	N/R	N/R	N/R	60.2	184.3	N/R	>100	T	N/R	60.2	184.3	N/R
	MEAN	60.1	117.8	133.3	N/R	N/R	N/R	60.1	183.2	N/R	>100	T	N/R	60.1	183.2	N/R
	S.D.	0.2	7.4	4.1	N/R	N/R	N/R	0.1	1.2	N/R	>100	T	N/R	0.1	1.2	N/R
	1.	60.9	115.2	128.4	N/R	N/R	N/R	60.8	155.4	N/R	>100	T	N/R	60.8	155.4	N/R
	2.	60.8	115.2	124.1	N/R	N/R	N/R	60.8	154.6	N/R	>100	T	N/R	60.8	154.6	N/R
	3.	60.7	118.4	131.3	N/R	N/R	N/R	60.6	154.6	N/R	>100	T	N/R	60.6	154.6	N/R
GEOSYNTEC: CLIENT: DS-P-120 (SP230/P243)	4.	60.6	124.3	126.5	N/R	N/R	N/R	60.6	156.2	N/R	>100	T	N/R	60.6	156.2	N/R
	5.	60.4	124.5	126.5	N/R	N/R	N/R	60.4	155.4	N/R	>100	T	N/R	60.4	155.4	N/R
	MEAN	60.7	119.5	127.4	N/R	N/R	N/R	60.8	155.2	N/R	>100	T	N/R	60.8	155.2	N/R
	S.D.	0.2	4.6	2.7	N/R	N/R	N/R	0.1	0.7	N/R	>100	T	N/R	0.1	0.7	N/R
	1.	60.7	133.8	120.6	N/R	N/R	N/R	60.4	161.1	N/R	>100	T	N/R	60.4	161.1	N/R
	2.	60.9	116.9	128.3	N/R	N/R	N/R	60.2	161.1	N/R	>100	T	N/R	60.2	161.1	N/R
GEOSYNTEC: CLIENT: DS-P-120 (SP230/P243)	3.	60.9	130.8	117.1	N/R	N/R	N/R	60.3	161.1	N/R	>100	B	N/R	60.3	161.1	N/R
	4.	60.6	122.8	128.7	N/R	N/R	N/R	60.6	167.5	N/R	>100	B	N/R	60.6	167.5	N/R
	5.	60.7	126.8	136.6	N/R	N/R	N/R	60.3	167.5	N/R	>100	B	N/R	60.3	167.5	N/R
	MEAN	60.8	126.2	126.5	N/R	N/R	N/R	60.4	163.7	N/R	>100	B	N/R	60.4	163.7	N/R
	S.D.	0.1	6.7	7.7	N/R	N/R	N/R	0.2	3.5	N/R	>100	B	N/R	0.2	3.5	N/R
	1.	60.7	133.8	120.6	N/R	N/R	N/R	60.4	161.1	N/R	>100	T	N/R	60.4	161.1	N/R

NOTE: See Technical Notes page for explanation of abbreviations.

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QUALITY ASSURANCE TESTING GEOMEMBRANE SEAM PEEL AND SHEAR TEST RESULTS

CLIENT:
PROJECT:
CONTACT:
GEOSYNTEC JOB NO.:

TRAIL RIDGE LANDFILL PRIMARY LINER, PHASE 1A/1B
MR. LUKE DEBOCK
FQ2030

MATERIAL: POLYETHYLENE
SEAM TYPE: EXTRUSION FILLET
DATE RECEIVED: 04/29/92
DATE TESTED: 04/29/92

SAMPLE NUMBER	SPECIMEN NUMBER	PEEL					SHEAR						
		THICKNESS (mil)	MAXIMUM TENSION (psi)	MAXIMUM STRESS (psi)	SEAM SEPARATION (%)	LOCUS OF FAILURE	PASS OR FAIL	THICKNESS (mil)	MAXIMUM TENSION (psi)	MAXIMUM STRESS (psi)	ELONGATION AT BREAK (%)	LOCUS OF FAILURE	PASS OR FAIL
GEOSYNTEC:	1.	62.6	108.7	NIR	0	B	NIR	61.2	157.0	NIR	>100	B	NIR
	2.	62.2	101.4		0	B		62.8	164.0		>100	B	
	3.	61.2	126.2		0	B		62.9	161.9		>100	B	
	4.	62.0	136.0		0	B		63.0	158.4		>100	B	
	5.	62.8	115.1		0	B		62.9	162.7		>100	B	
CLIENT: DS-P-119 S(P18/P225)	MEAN	62.2	117.5					62.6	160.8				
	S.D.	0.6	13.8					0.8	3.0				



TECHNICAL NOTE

EXPLANATION OF TERMS
USED IN FUSED SEAM TEST DATA

Parameters and terminology used to report geomembrane peel and shear test results are explained below:

SHEAR MAXIMUM TENSION -- the load per unit width of specimen at which the specimen yields.

SHEAR ELONGATION AT BREAK -- the extension at break expressed as a percentage of the initial distance between the edge of the fused track and the nearer grip. This distance is the same on both sides of the seam and is usually 25 mm (1 in.).

PEEL MAXIMUM TENSION -- the maximum load per unit width of specimen recorded during the peel test.

PEEL SEAM SEPARATION -- the area of seam interface separation expressed as a percentage of the original fused area.

These peel parameters are presented for both fused tracks. Figures for the track closer to the edge of the bottom sheet (I) are presented first and are followed by figures for the track closer to the edge of the top sheet (O). This will only apply to samples received from field installations when the top and bottom sheets can be clearly identified.

The locus of the failure is designated as follows:

- T -- break occurs in the upper geomembrane
- B -- break occurs in the lower geomembrane
- G -- break occurs in the geomembrane when the upper and lower geomembrane cannot be identified
- P -- complete peel separation
- F -- failure occurs at the fabric interface of supported geomembranes
- S -- failure occurs at the seam interface of supported geomembranes

Note: P may be followed by another designation if the specimen does not peel completely (e.g., PB -- some peel separation followed by break in the bottom geomembrane).

Thickness measurements are taken on the geomembrane in which failure occurs.

An N/R designation indicates that the information under the appropriate heading was not requested.



TECHNICAL NOTE

EXPLANATION OF TERMS
USED IN EXTRUDED FILLET SEAMS TEST DATA

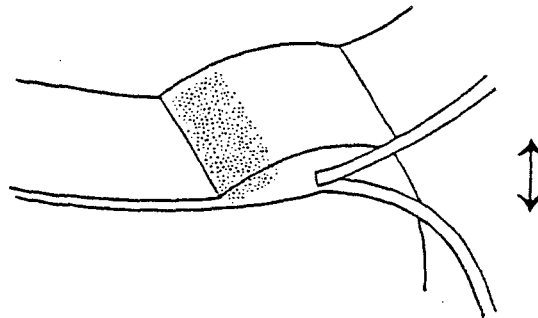
Parameters and terminology used to report geomembrane peel and shear test results are explained below:

SHEAR MAXIMUM TENSION -- the load per unit width of specimen at which the specimen yields.

SHEAR ELONGATION AT BREAK -- the extension at break expressed as a percentage of the initial distance between the edge of the extrudate and the nearer grip. This distance is the same on both sides of the seam and is usually 25 mm (1 in.).

PEEL MAXIMUM TENSION -- the maximum load per unit width of specimen recorded during the peel test.

PEEL SEAM SEPARATION -- the area of seam interface separation expressed as a percentage of the original fused area. The original area is shaded in the diagram.



The locus of the failure is designated as follows:

- T -- break occurs in the upper geomembrane
- B -- break occurs in the lower geomembrane
- W -- break occurs in the weld bead
- P -- complete peel separation

Note: P may be followed by another designation if the specimen does not peel completely (e.g., PB -- some peel separation followed by break in the bottom geomembrane).

- L -- break occurred within the tack weld or at damage caused by separation of the tack weld
- L -- (after figures) -- tack weld could not be separated and was included in test

Note: The tack weld may interfere with the ability to properly evaluate the designed extrusion weld.

The N/R designation indicates that the information under the appropriate heading was not requested.

APPENDIX Q

PANEL AND SEAM REPAIR LOCATION

FIELD SKETCH LOGS

SECONDARY GEOMEMBRANE LINER



GEOSYNTec CONSULTANTS
Boynton Beach, Florida



Trail Ridge Landfill, Inc.

Panel and Seam Repair Field Sketch

Sheet No.: 1 of 46

Project: Trail Ridge Landfill

Phase: I & II

Project No.: FQ2030

Date: (mo/dy) March 15

Year: 1992

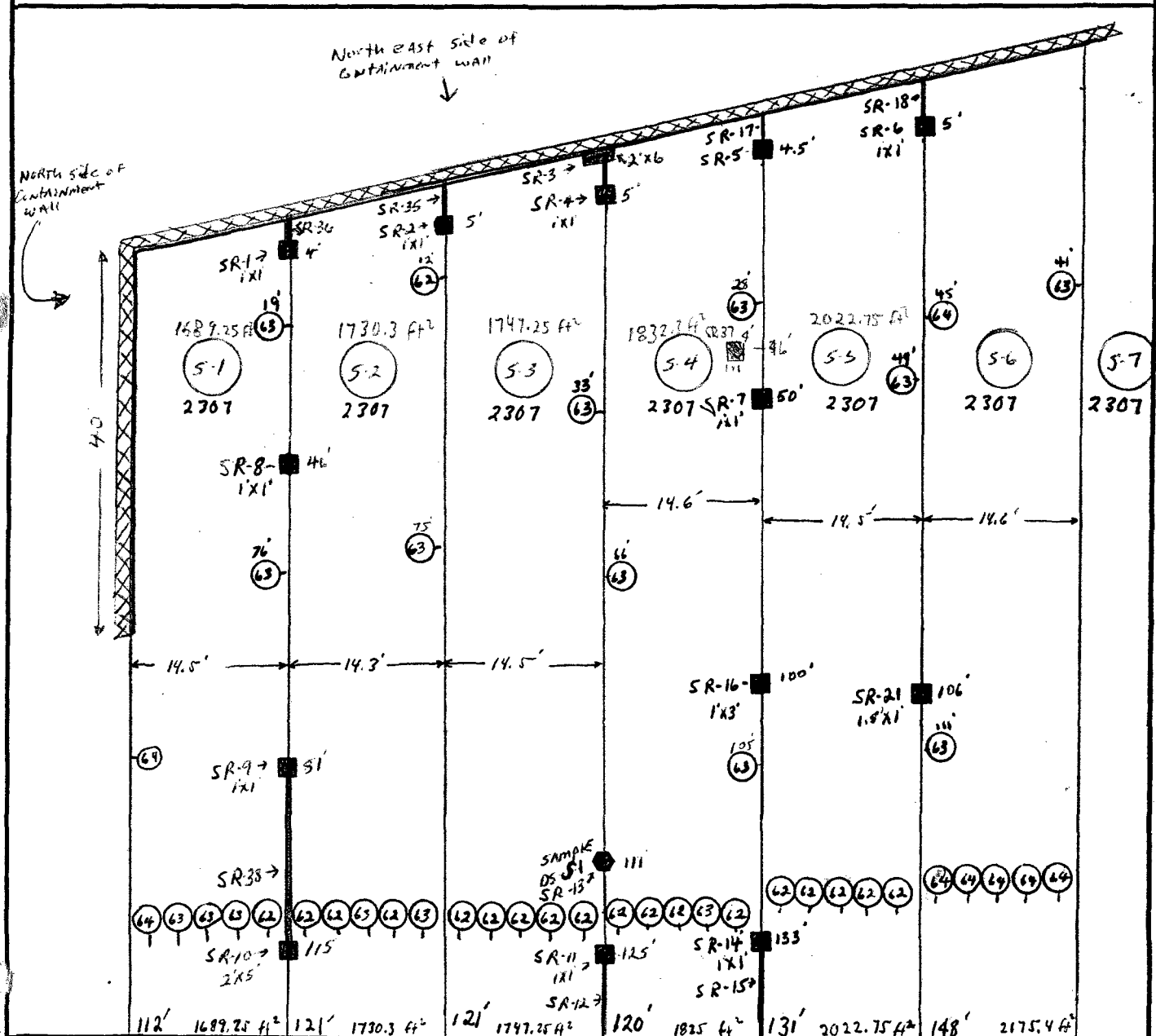
Location: Jacksonville, Florida

Contractor: National Seal Company

× PATCH ☒ Patched ▣ Tested ■ Passed
△ BEAD ▲ Beaded ▲ Tested ▲ Passed
○ SAMPLE ○ Patched ○ Tested ○ Passed

QA I.D. TCB

North





Panel and Seam Repair Field Sketch

Sheet No.: 2 of

Project: *Trail Ridge Landfill*

Phase: I & II

Project No.: FQ2030

Date: (mo/dy) *March 15*

Year: 1992

Location: *Jacksonville, Florida*

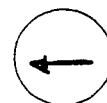
Contractor: *National Seal Company*

 PATCH
  Patched
  Tested
  Passed

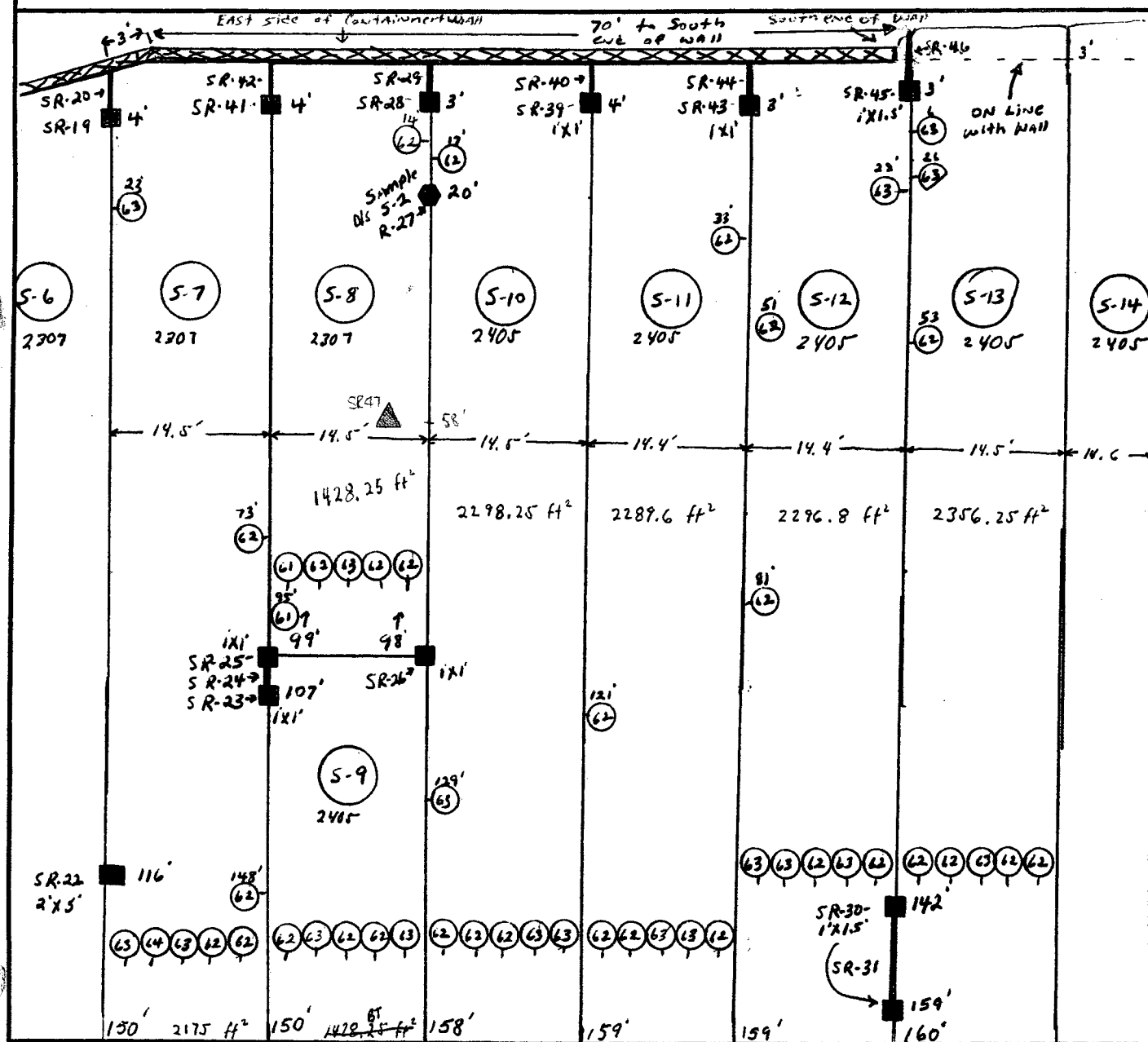
 BEAD
  Beaded
  Tested
  Passed

 SAMPLE
  Patched
  Tested
  Passed

QA I.D. TCB



North





GEOSYNTEC CONSULTANTS
Boynton Beach, Florida



Trail Ridge Landfill, Inc.

Panel and Seam Repair Field Sketch

Sheet No.: 3 of

Project: Trail Ridge Landfill

Phase: I & II

Project No.: FQ2030

Date: (mo/dy) March 15

Year: 1992

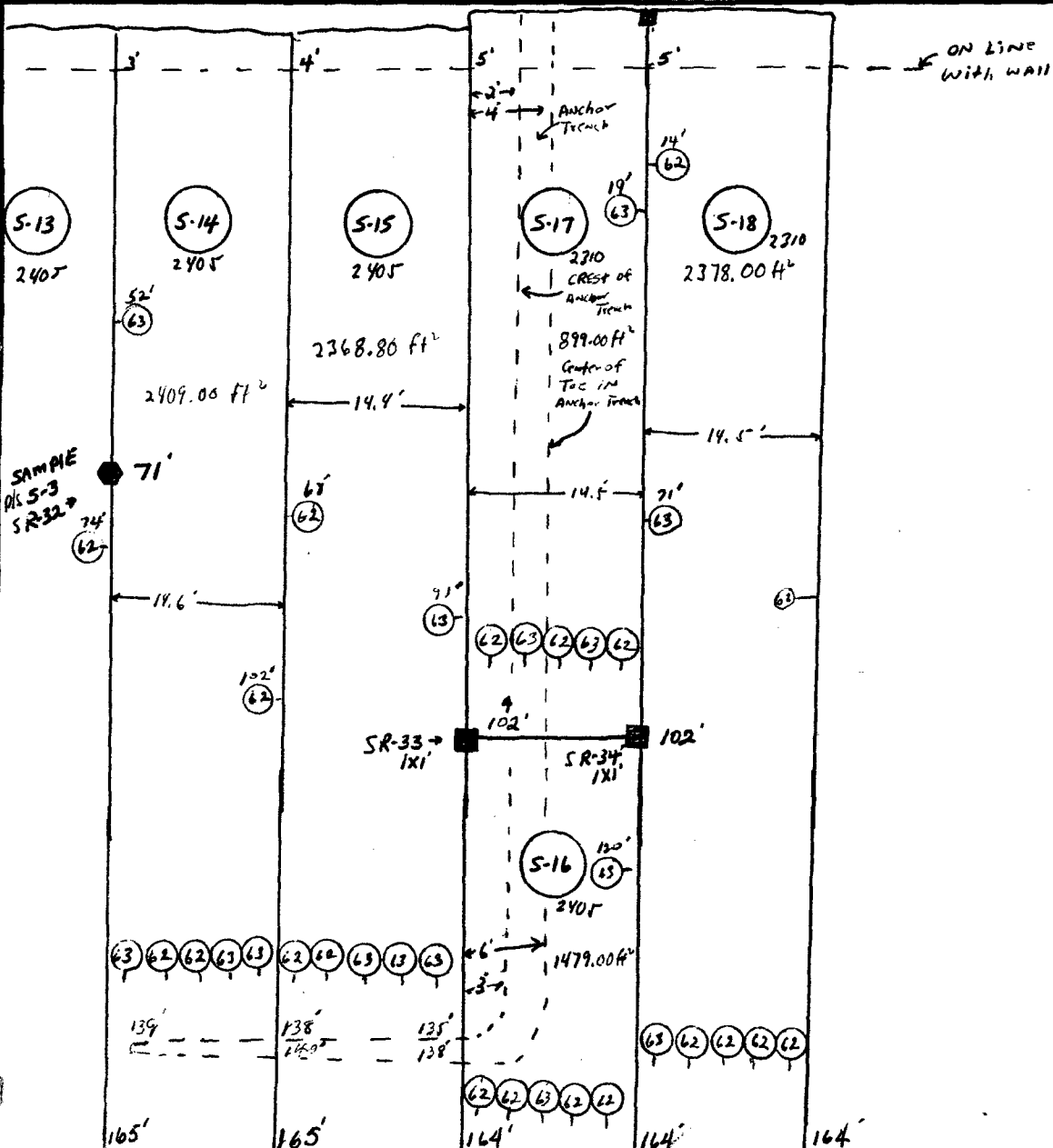
Location: Jacksonville, Florida

Contractor: National Seal Company

× PATCH ☒ Patched ☑ Tested ■ Passed
△ BEAD △ Beaded ▲ Tested ▲ Passed
○ SAMPLE ○ Patched ○ Tested ○ Passed

QA I.D. TCB

North





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Boynton Beach, Florida



Trail Ridge Landfill, Inc.

Panel and Seam Repair Field Sketch

Sheet No.: 4 of

Project: Trail Ridge Landfill

Phase: I & II

Project No.: FQ2030

Date: (mo/dy) March 15

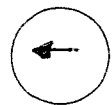
Year: 1992

Location: Jacksonville, Florida

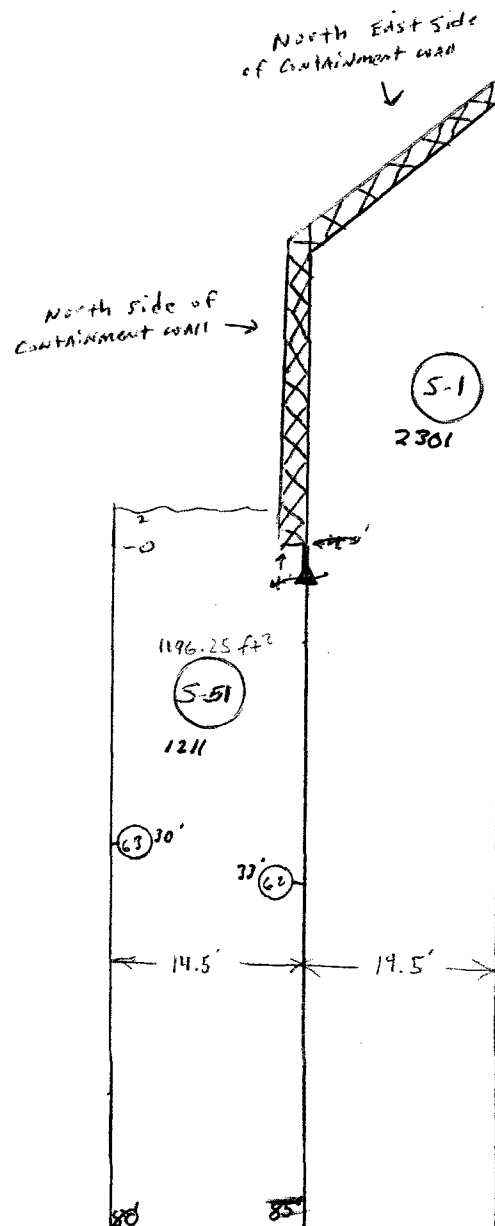
Contractor: National Seal Company

✕ PATCH	☒ Patched	◩ Tested	■ Passed
△ BEAD	◡ Beaded	▲ Tested	▲ Passed
◊ SAMPLE	◊ Patched	◐ Tested	◑ Passed

QA I.D. TCS



North





Panel and Seam Repair Field Sketch

Sheet No.: 5 of

Project: *Trail Ridge Landfill*

Phase: I & II

Project No.: FQ2030

Date: (mo/dy) *March 25*

Year: 1992

Location: *Jacksonville, Florida*

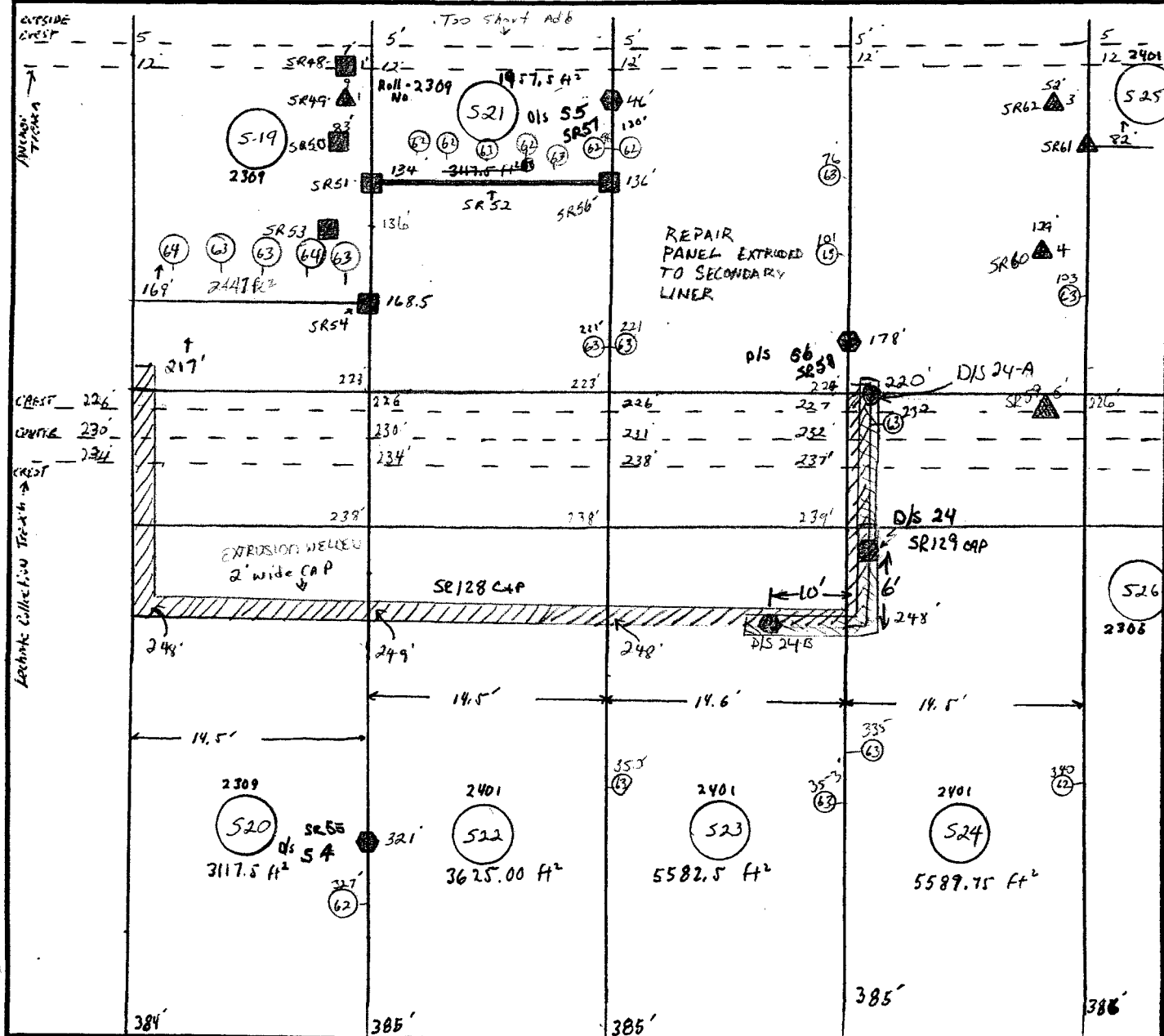
Contractor: *National Seal Company*

	PATCH		Patched		Tested		Passed
	BEAD		Beaded		Tested		Passed
	SAMPLE		Patched		Tested		Passed

QA I.D. TCB



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GEOSYNTEC CONSULTANTS
Boynton Beach, Florida



Trail Ridge Landfill, Inc.

Panel and Seam Repair Field Sketch

Sheet No.: 6 of

Project: Trail Ridge Landfill

Phase: I & II

Project No.: FQ2030

Date: (mo/day) March 25

Year: 1992

Location: Jacksonville, Florida

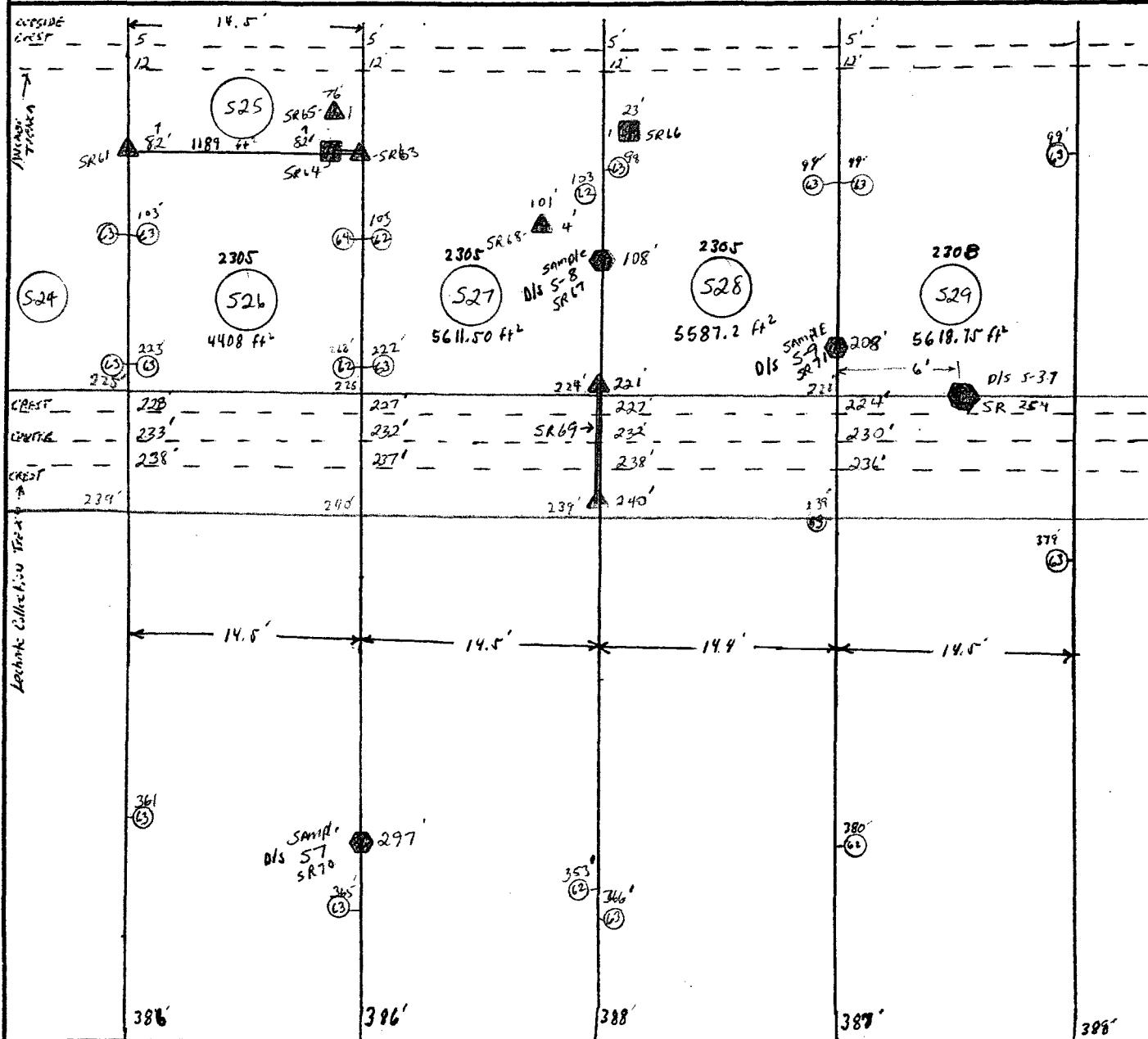
Contractor: National Seal Company

✕ PATCH ☒ Patched ▣ Tested ■ Passed
△ BEAD △ Beaded ▲ Tested ▲ Passed
○ SAMPLE ○ Patched ○ Tested ○ Passed

QA I.D. TCB



North





GEOSYNTEC CONSULTANTS
Boynton Beach, Florida



Trail Ridge Landfill, Inc.

Panel and Seam Repair Field Sketch

Sheet No.: 7 of

Project: Trail Ridge Landfill

Phase: I & II

Project No.: FQ2030

Date: (mo/dy) March 25

Year: 1992

Location: Jacksonville, Florida

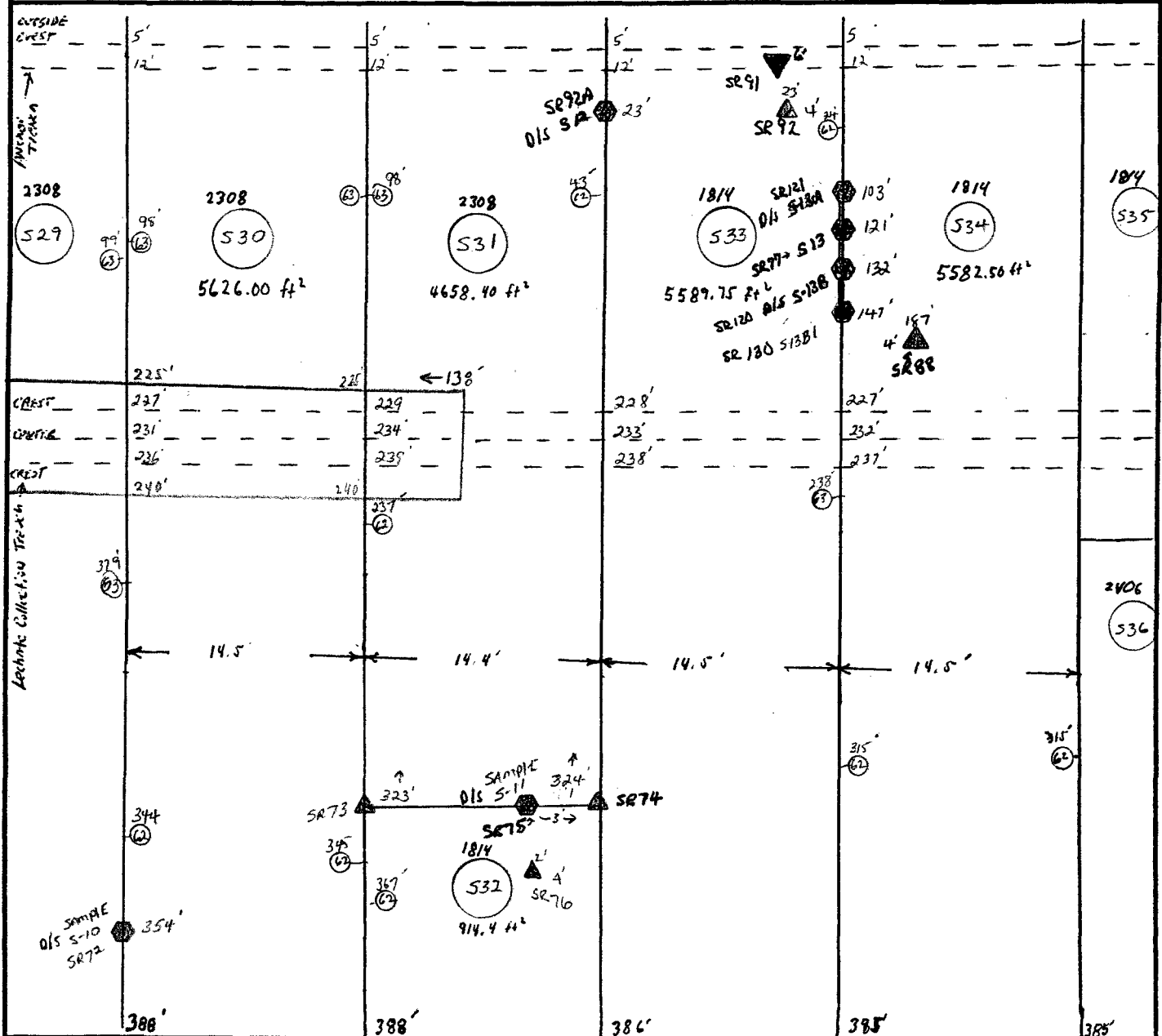
Contractor: National Seal Company

× PATCH ☒ Patched ▣ Tested ■ Passed
△ BEAD △ Beaded ▲ Tested ▲ Passed
○ SAMPLE ○ Patched ○ Tested ○ Passed

QA I.D. TCB



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Panel and Seam Repair Field Sketch

Sheet No.: 8 of

Project: *Trail Ridge Landfill*

Phase: I & II

Project No.: FQ2030

Date: (mo/dy) March 25

Year: 1992

Location: *Jacksonville, Florida*

Contractor: *National Seal Company*

 PATCH
  Patched
  Tested
  Passed

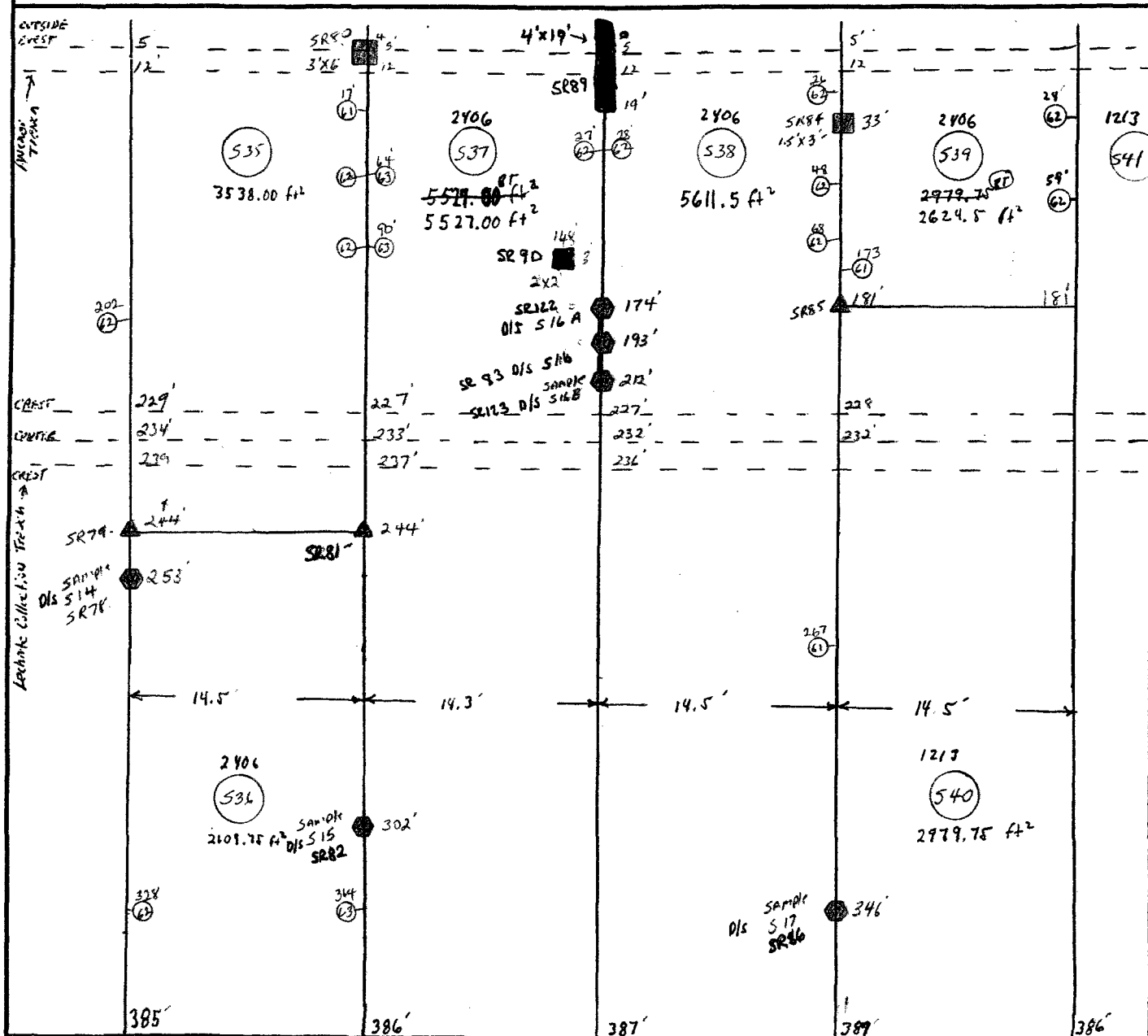
 BEAD
  Beaded
  Tested
  Passed

 SAMPLE
  Patched
  Tested
  Passed

QA I.D. TCB



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GEOSYNTEC CONSULTANTS
Boynton Beach, Florida



Trail Ridge Landfill, Inc.

Panel and Seam Repair Field Sketch

Sheet No.: 9 of

Project: Trail Ridge Landfill

Phase: I & II

Project No.: FQ2030

Date: (mo/dy) March 25

Year: 1992

Location: Jacksonville, Florida

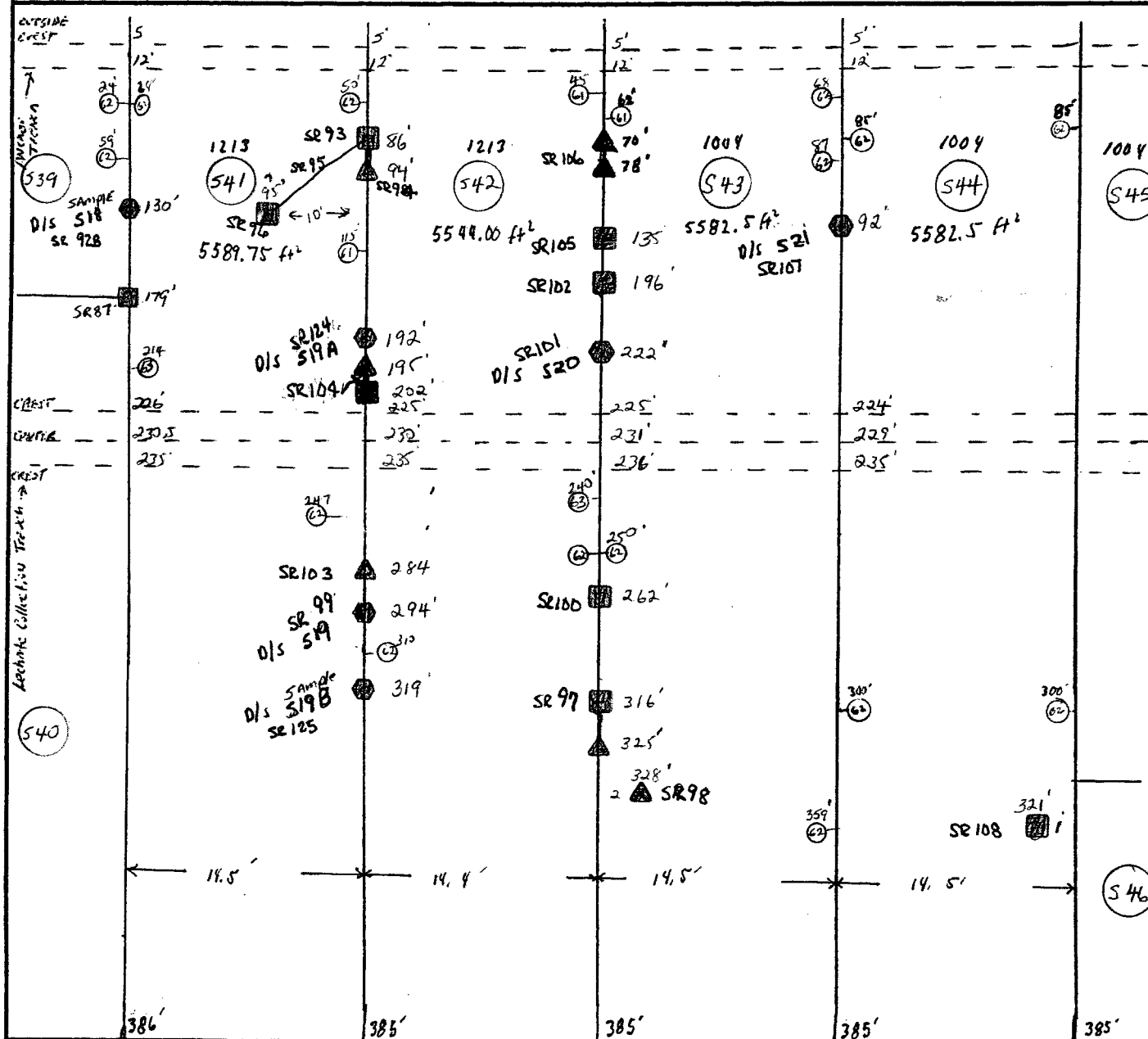
Contractor: National Seal Company

✕ PATCH ☒ Patched ▣ Tested ■ Passed
△ BEAD ▲ Beaded ▲ Tested ▲ Passed
○ SAMPLE ○ Patched ○ Tested ○ Passed

QA I.D. TCB



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Panel and Seam Repair Field Sketch

Sheet No.: 10 of

Project: *Trail Ridge Landfill*

Phase: I & II

Project No.: FQ2030

Date: (mo/dy) March 25

Year: 1992

Location: *Jacksonville, Florida*

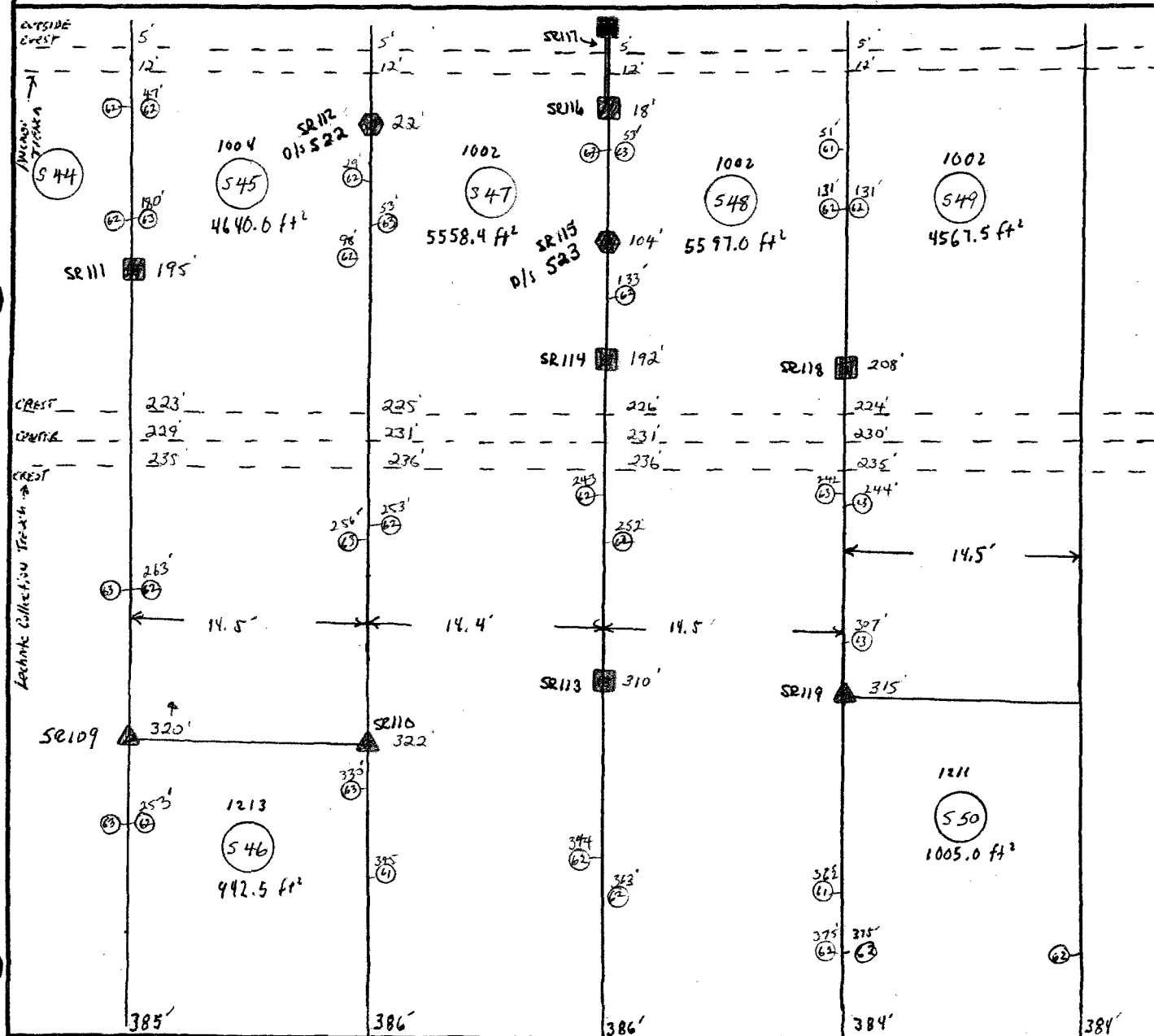
Contractor: *National Seal Company*

	PATCH		Patched		Tested		Passed
	BEAD		Beaded		Tested		Passed
	SAMPLE		Patched		Tested		Passed

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Boynton Beach, Florida



Trail Ridge Landfill, Inc.

Panel and Seam Repair Field Sketch

Sheet No.: 11 of

Project: Trail Ridge Landfill

Phase: I & II

Project No.: FQ2030

Date: (mo/dy) March 25

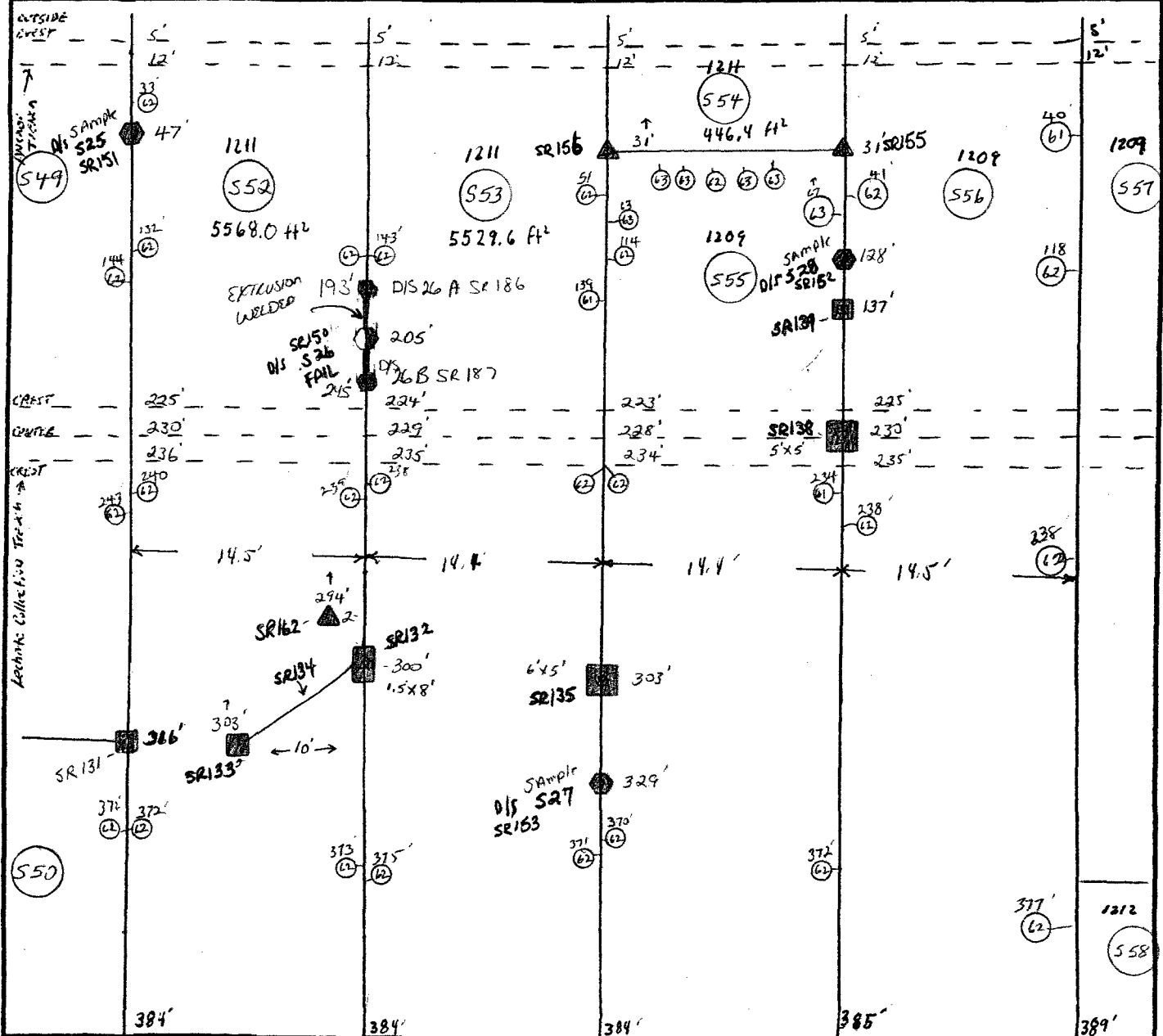
Year: 1992

Location: Jacksonville, Florida

Contractor: National Seal Company

✕ PATCH ☒ Patched ◩ Tested ■ Passed
△ BEAD ▲ Beaded ▲ Tested ▲ Passed
○ SAMPLE ◐ Patched ◐ Tested ◐ Passed

QA I.D. TCB North ↑





Sheet No.: 12 of

Phase: $\pm \xi IV$

Year: 1992

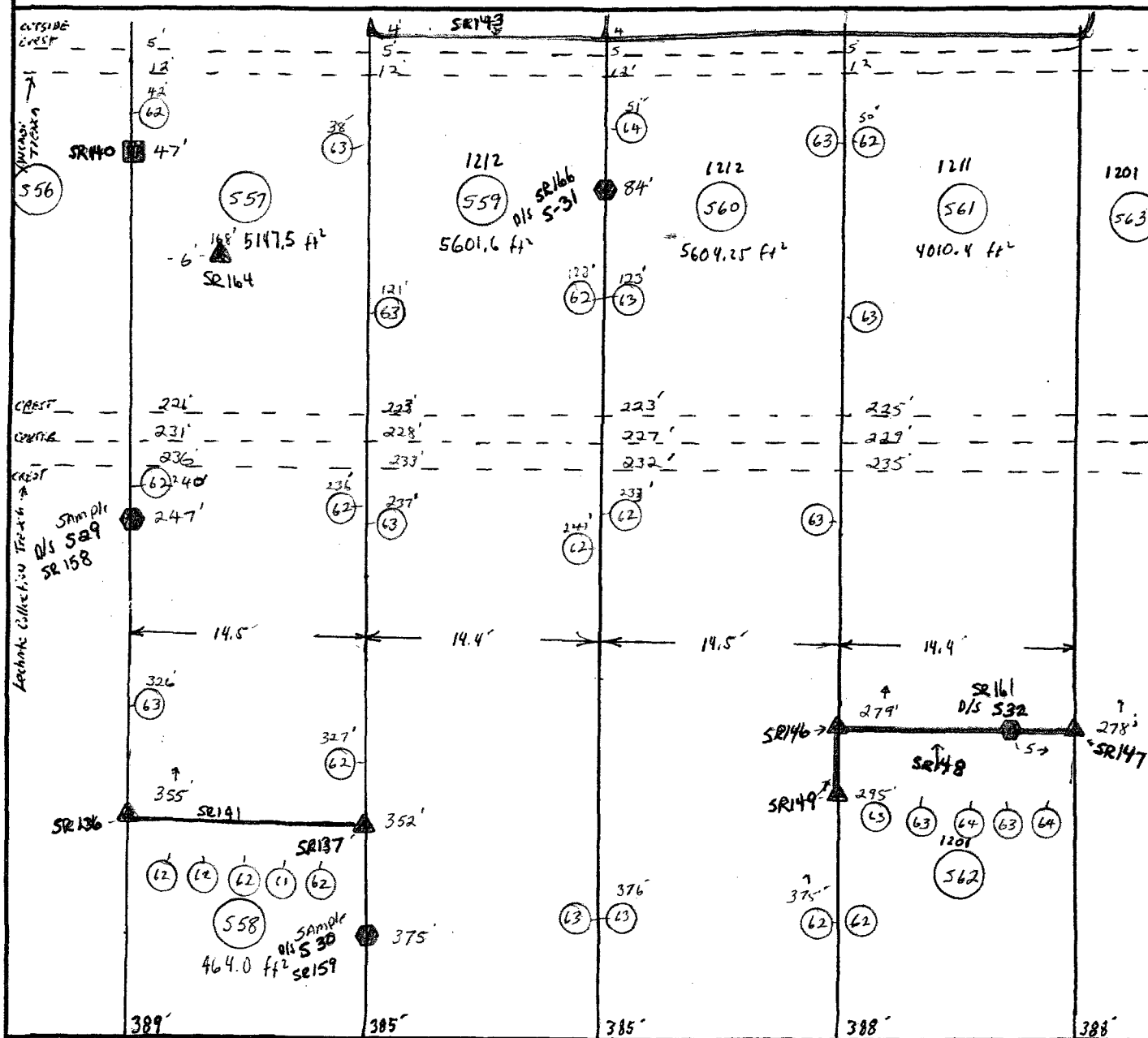
Contractor: *National Seal Company*

	PATCH		Patched		Tested		Passed
	BEAD		Beaded		Tested		Passed
	SAMPLE		Patched		Tested		Passed

QA I.D. TCB



North





Panel and Seam Repair Field Sketch

Sheet No.: 13 of

Project: *Trail Ridge Landfill*

Phase: I & II

Project No.: FQ2030

Date: (mo/dy) March 30

Year: 1992

Location: *Jacksonville, Florida*

Contractor: *National Seal Company*

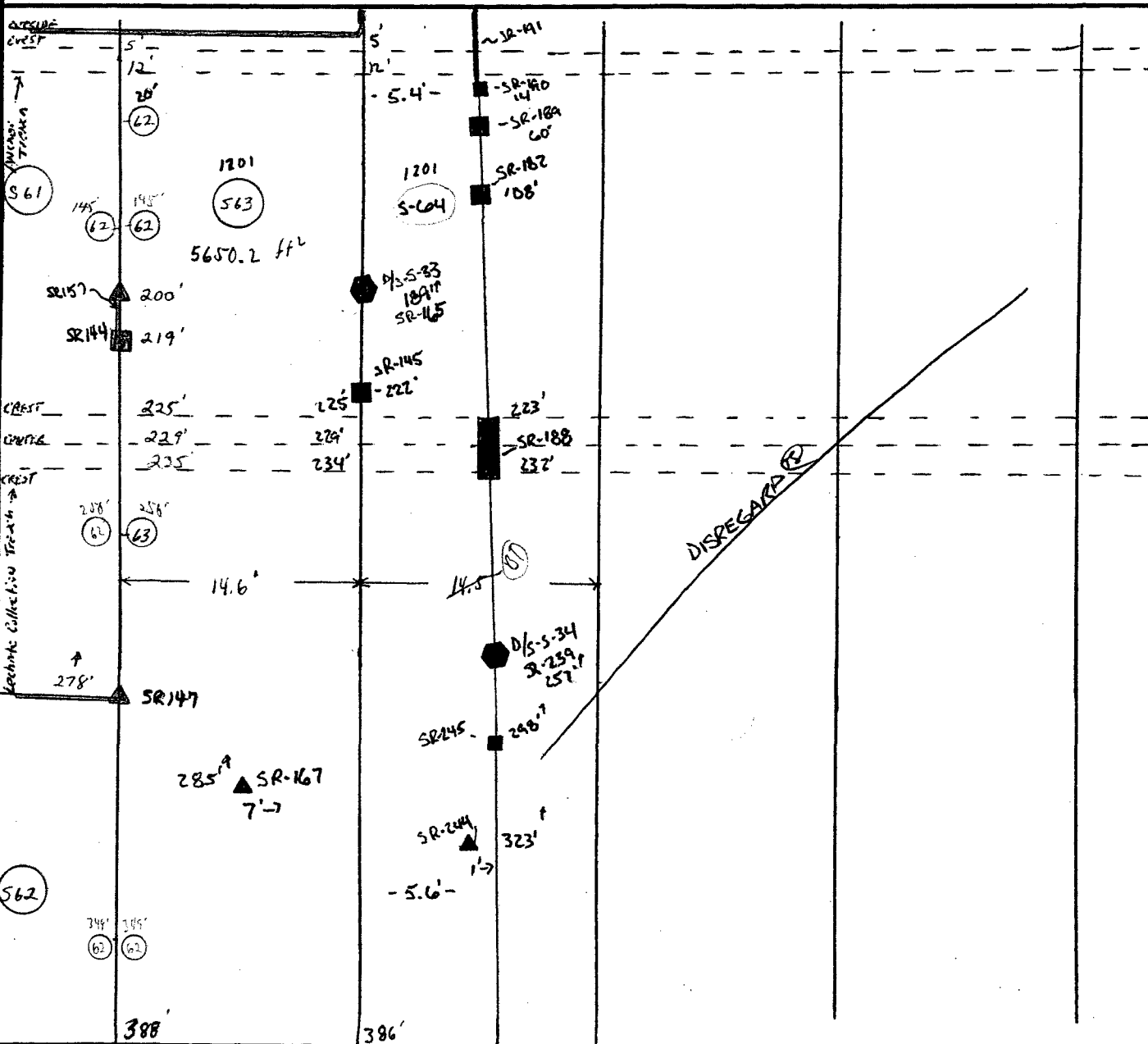
 PATCH
  Patched
  Tested
  Passed

 BEAD
  Beaded
  Tested
  Passed

 SAMPLE
  Patched
  Tested
  Passed

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North





GEOSYNTec CONSULTANTS

Boynton Beach, Florida



Trail Ridge Landfill, Inc.

Panel and Seam Repair Field Sketch

Sheet No.: 14 of

Project: Trail Ridge Landfill

Phase: I & II

Project No.: F02030

Date: (mo/dy) April 1

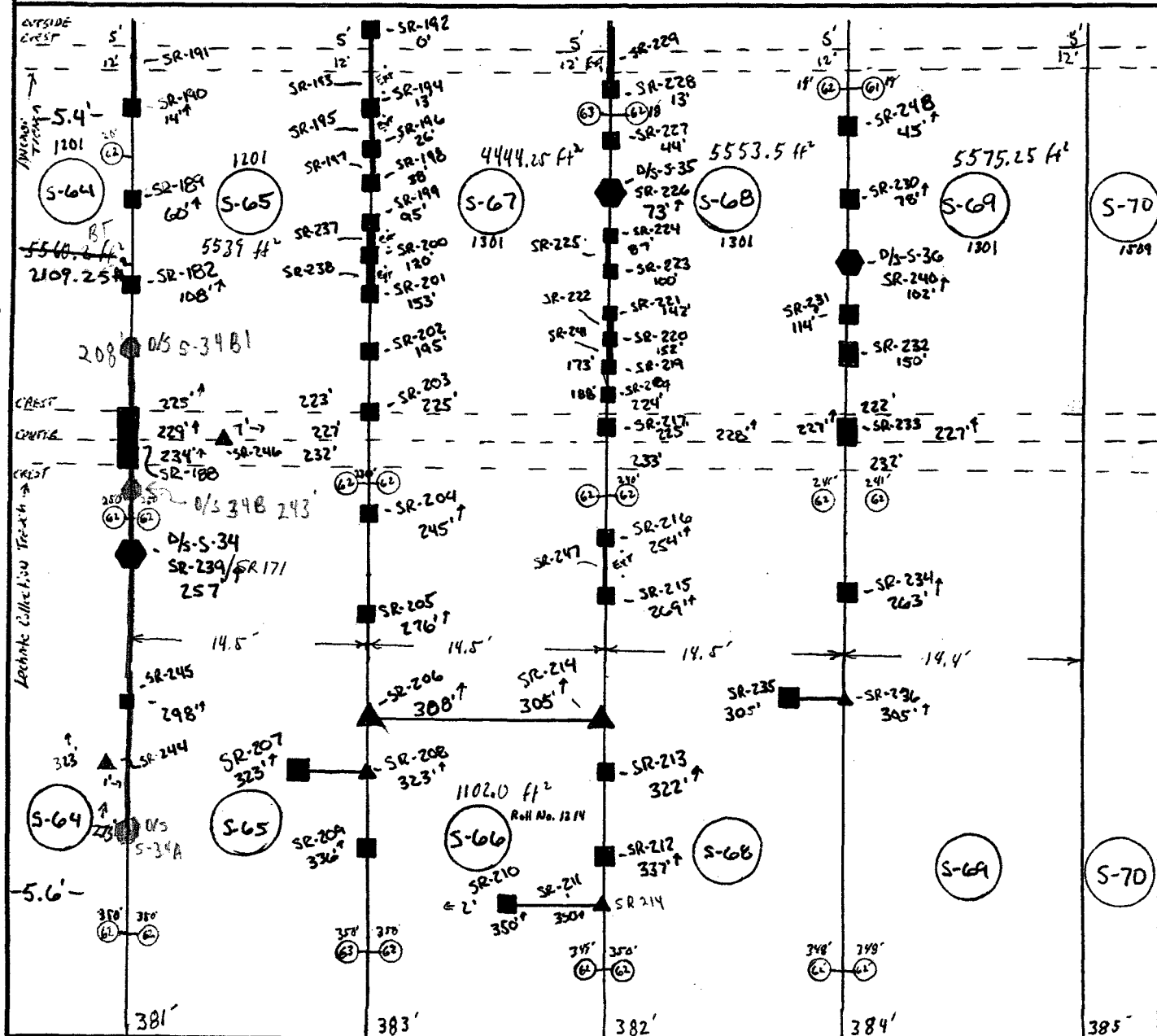
Year: 1992

Location: Jacksonville, Florida

Contractor: National Seal Company

× PATCH ☒ Patched ▣ Tested ■ Passed
△ BEAD △ Beaded ▲ Tested ▲ Passed
○ SAMPLE ○ Patched ○ Tested ○ Passed

QA I.D. T. [Signature] North





Panel and Seam Repair Field Sketch

Sheet No.: 15 of

Project: *Trail Ridge Landfill*

Phase: 7 & II

Project No.: FQ2030

Date: (mo/dy) April 13

Year: 1992

Location: *Jacksonville, Florida*

Contractor: *National Seal Company*

 PATCH
  Patched
  Tested
  Passed

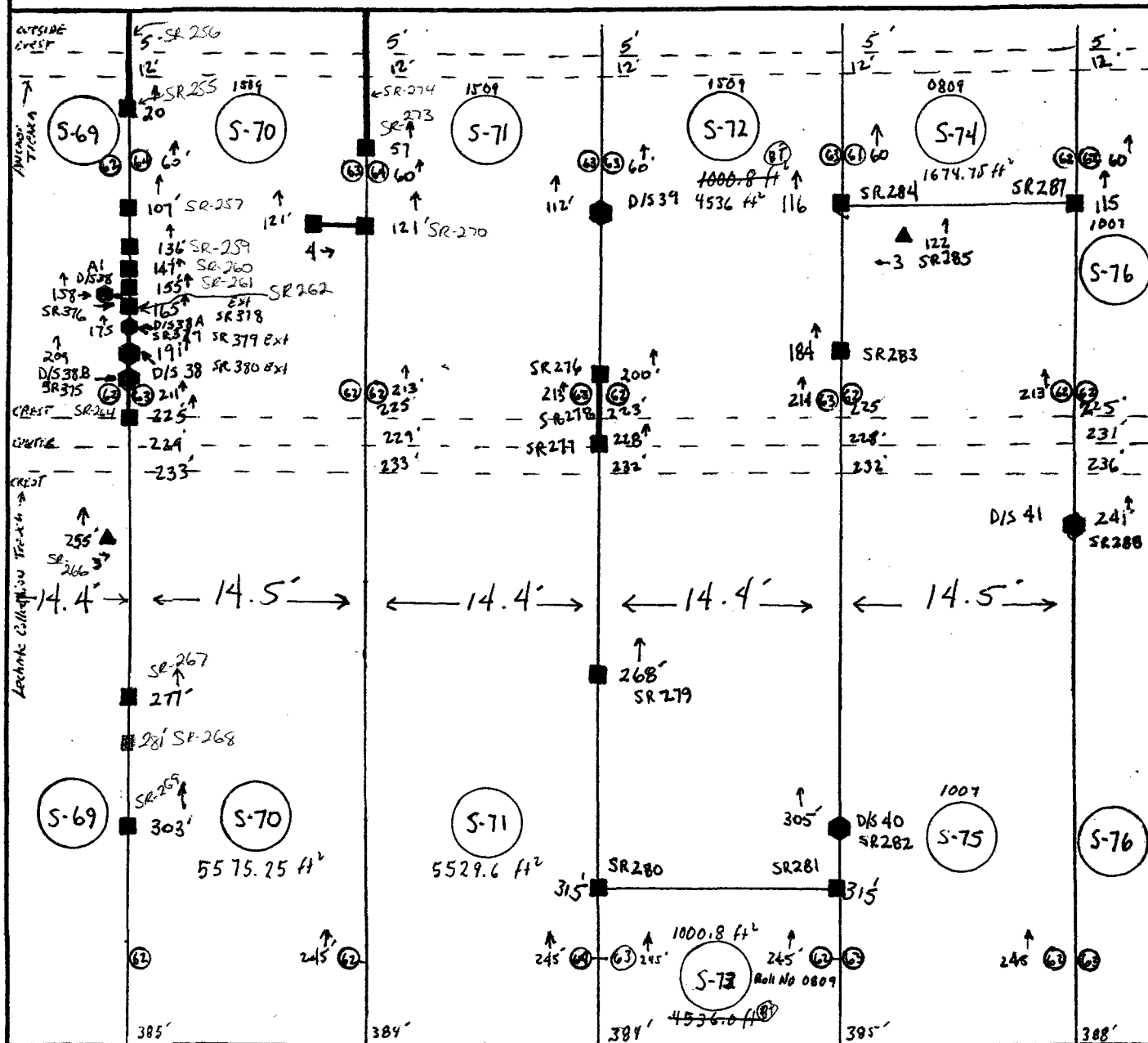
 BEAD
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  Tested
  Passed

 SAMPLE
  Patched
  Tested
  Passed

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Boynton Beach, Florida



Trail Ridge Landfill, Inc.

Panel and Seam Repair Field Sketch

Sheet No.: 16 of

Project: Trail Ridge Landfill

Phase: I & II

Project No.: FQ2030

Date: (mo/dy) April 14

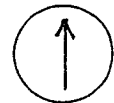
Year: 1992

Location: Jacksonville, Florida

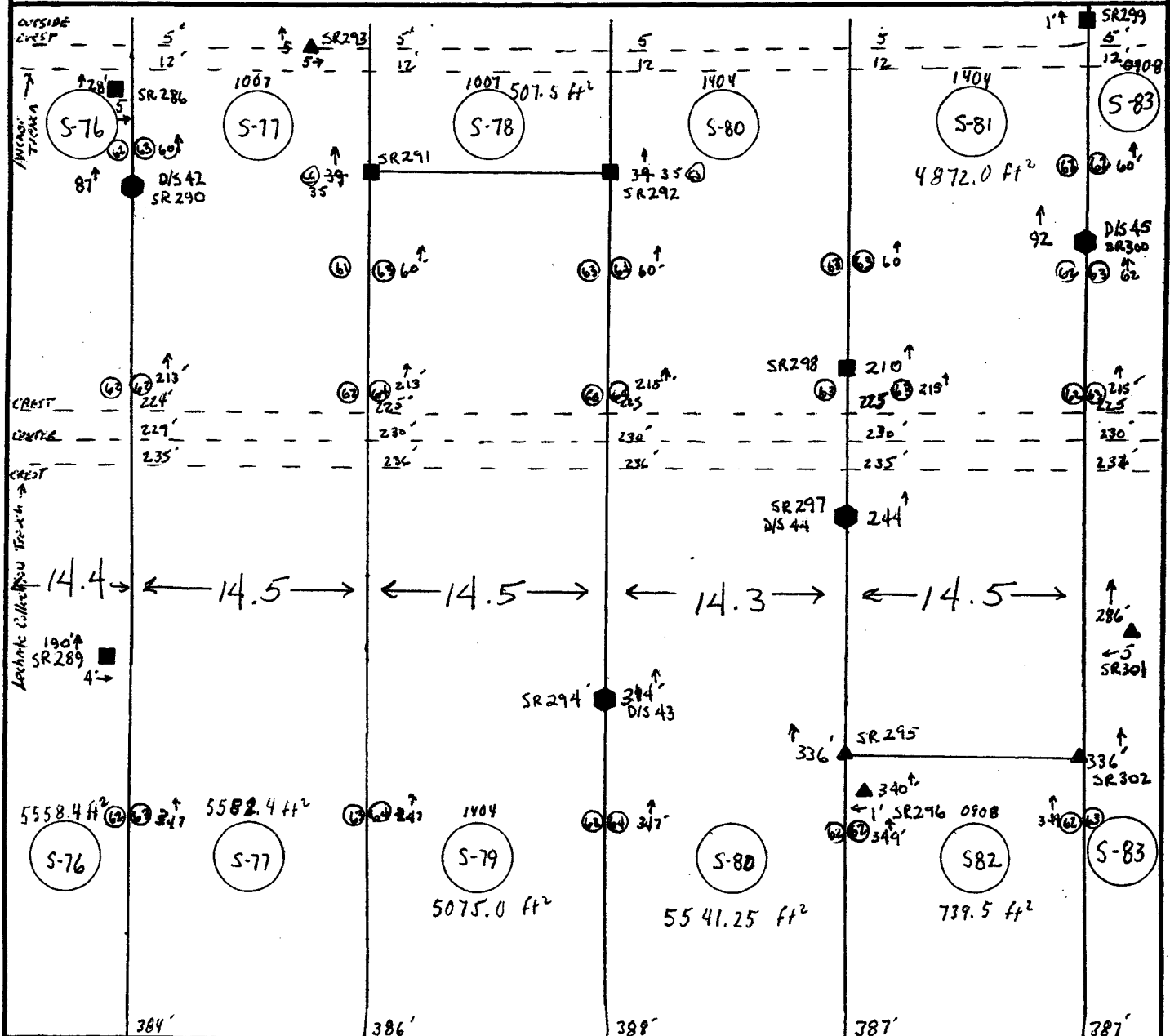
Contractor: National Seal Company

× PATCH ⊠ Patched ▣ Tested ■ Passed
△ BEAD △ Beaded ▲ Tested ▲ Passed
○ SAMPLE ⊖ Patched ⊖ Tested ⊖ Passed

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Trail Ridge Landfill, Inc.

Panel and Seam Repair Field Sketch

Sheet No.: 17 of

Project: Trail Ridge Landfill

Phase: I & II

Project No.: FQ2030

Date: (mo/dy) April 14

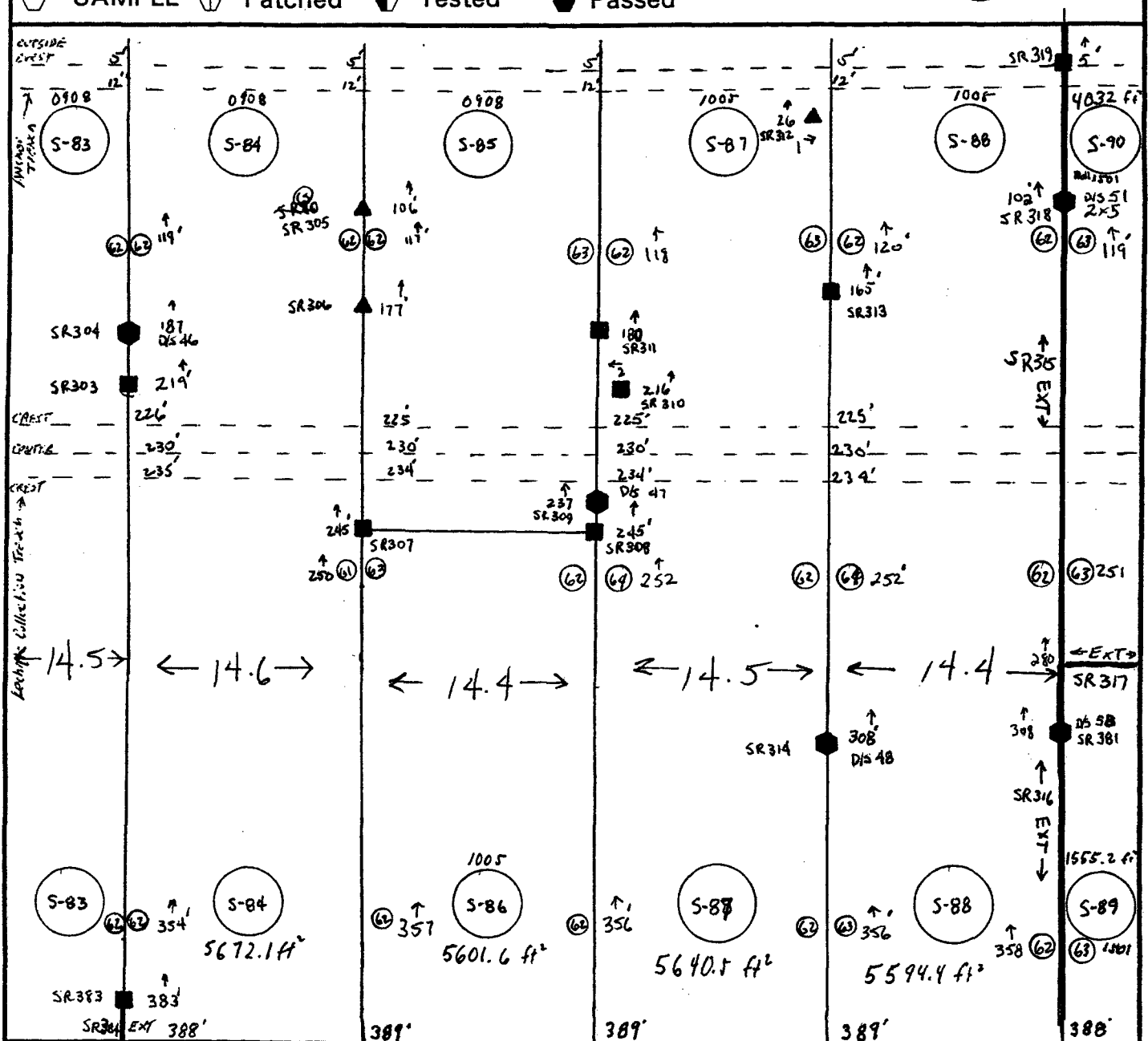
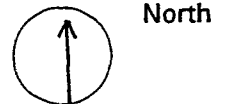
Year: 1992

Location: Jacksonville, Florida

Contractor: National Seal Company

- | | | | |
|----------|-----------|----------|----------|
| ✕ PATCH | ⊠ Patched | ⊞ Tested | ■ Passed |
| △ BEAD | ⊡ Beaded | ▲ Tested | ▲ Passed |
| ○ SAMPLE | ⊖ Patched | ⬤ Tested | ⬤ Passed |

QA I.D. CL





Panel and Seam Repair Field Sketch

Sheet No.: 18 of

Project: *Trail Ridge Landfill*

Phase: I & II

Project No.: FQ2030

Date: (mo/dy) April 8 14

Year: 1992

Location: *Jacksonville, Florida*

Contractor: *National Seal Company*

 PATCH
  Patched
  Tested
  Passed

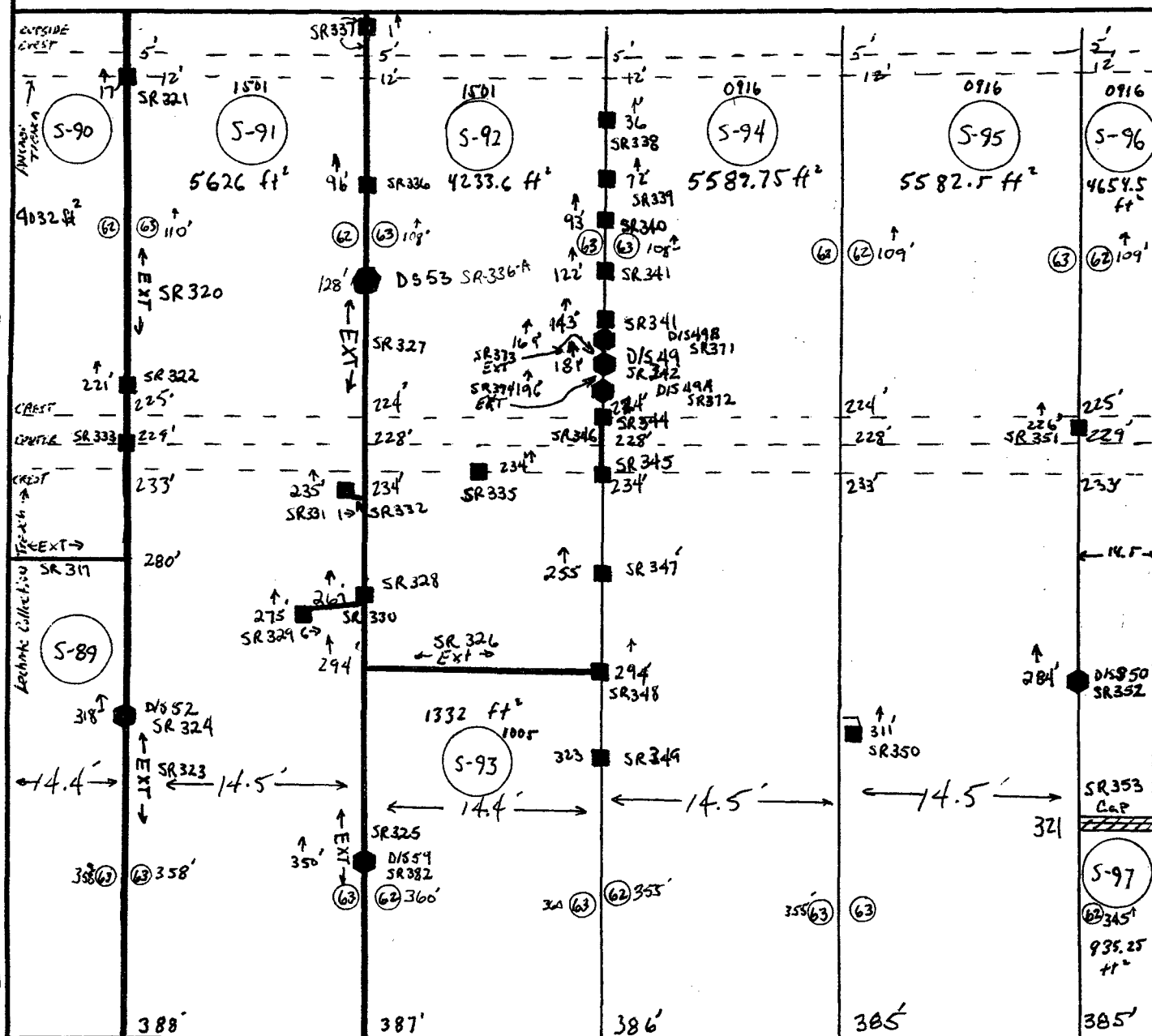
 BEAD
  Beaded
  Tested
  Passed

 SAMPLE
  Patched
  Tested
  Passed

QA I.D. *AS*



North





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Boynton Beach, Florida



Trail Ridge Landfill, Inc.

Sheet No.: 19 of

Panel and Seam Repair Field Sketch

Project: Trail Ridge Landfill

Phase: I & II

Project No.: FQ2030

Date: (mo/dy) April 14

Year: 1992

Location: Jacksonville, Florida

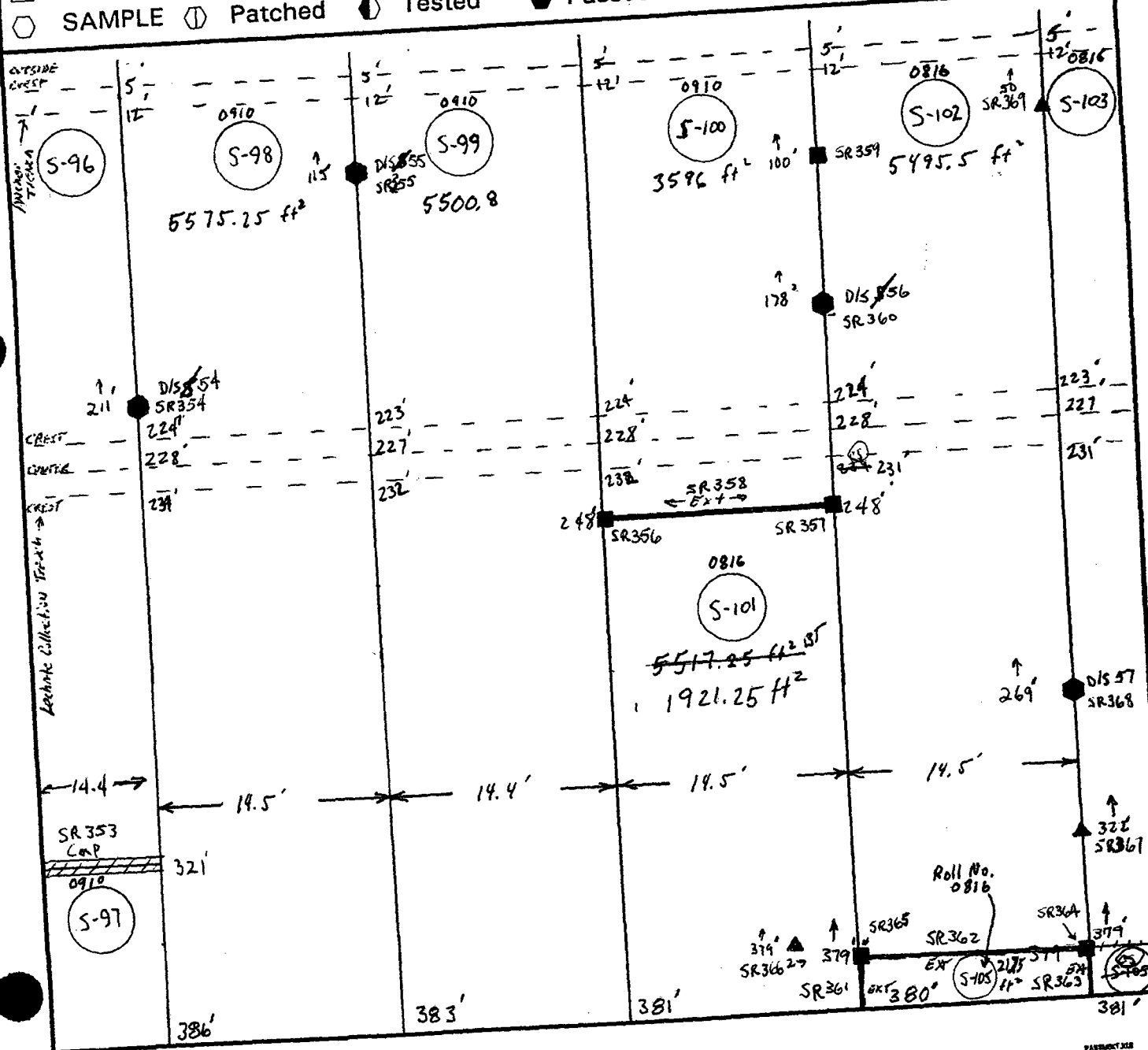
Contractor: National Seal Company

- | | | | |
|----------|-----------|----------|----------|
| ✕ PATCH | ☒ Patched | ☑ Tested | ■ Passed |
| △ BEAD | △ Beaded | ▲ Tested | ▲ Passed |
| ○ SAMPLE | ⊖ Patched | ⬢ Tested | ⬢ Passed |

QA I.D. CS



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Boynton Beach, Florida



Trail Ridge Landfill, Inc.

Panel and Seam Repair Field Sketch

Sheet No.: 20 of

Project: Trail Ridge Landfill

Phase: I & II

Project No.: FQ2030

Date: (mo/dy) April 14

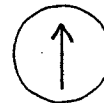
Year: 1992

Location: Jacksonville, Florida

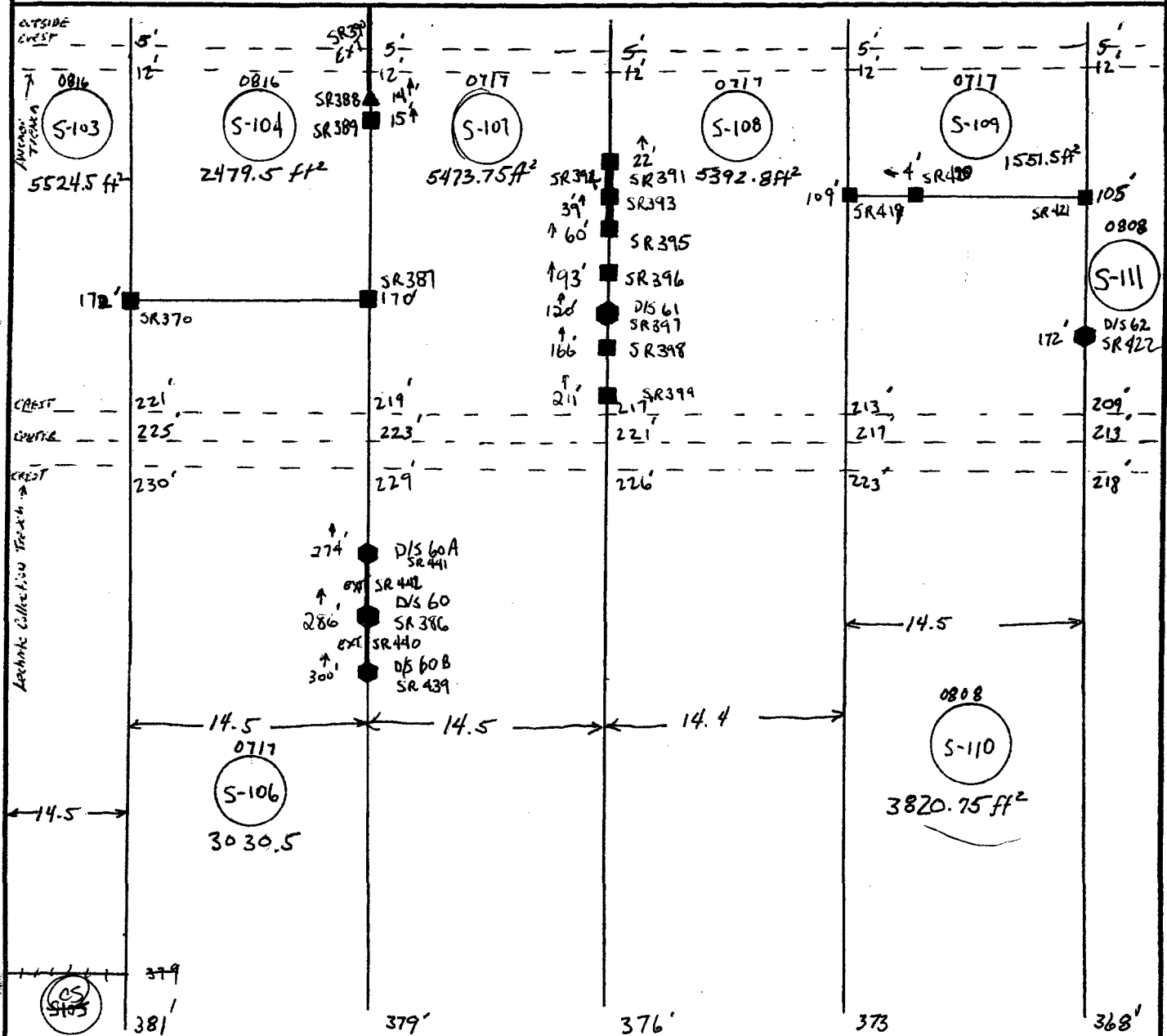
Contractor: National Seal Company

× PATCH ☒ Patched ◼ Tested ■ Passed
△ BEAD △ Beaded ▲ Tested ▲ Passed
○ SAMPLE ○ Patched ○ Tested ○ Passed

QA I.D. CS



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Panel and Seam Repair Field Sketch

Sheet No.: 21 of

Project: *Trail Ridge Landfill*

Phase: I & II

Project No.: FQ2030

Date: (mo/dy) April 15

Year: 1992

Location: *Jacksonville, Florida*

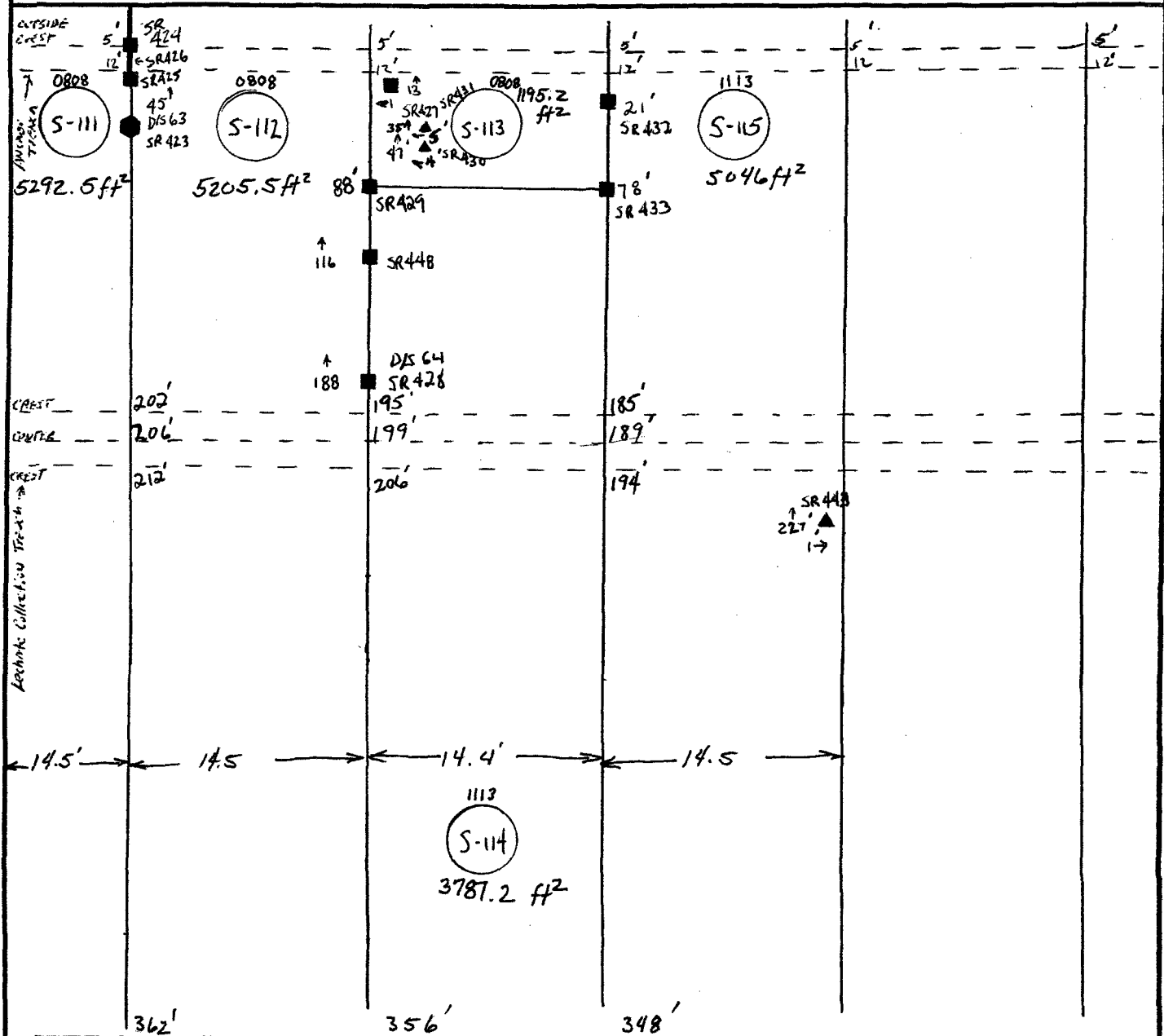
Contractor: *National Seal Company*

	PATCH		Patched		Tested		Passed
	BEAD		Beaded		Tested		Passed
	SAMPLE		Patched		Tested		Passed

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Boynton Beach, Florida



Trail Ridge Landfill, Inc.

Panel and Seam Repair Field Sketch

Sheet No.: 22 of

Project: Trail Ridge Landfill

Phase: I & II

Project No.: FQ2030

Date: (mo/dy) April 15

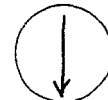
Year: 1992

Location: Jacksonville, Florida

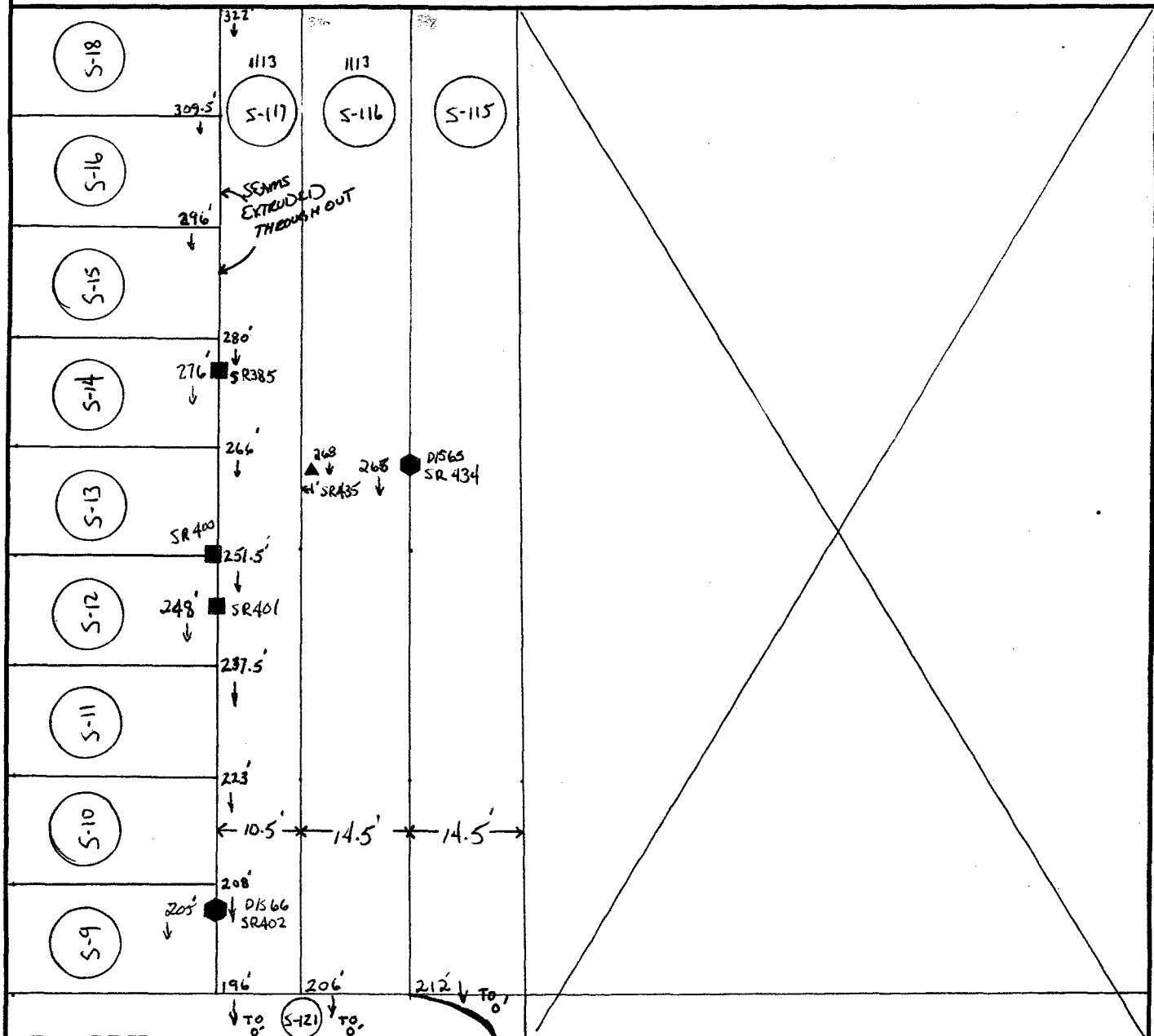
Contractor: National Seal Company

✕ PATCH ☒ Patched ▣ Tested ■ Passed
△ BEAD ▲ Beaded ▲ Tested ▲ Passed
○ SAMPLE ◑ Patched ◑ Tested ◑ Passed

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Boynton Beach, Florida



Trail Ridge Landfill, Inc.

Panel and Seam Repair Field Sketch

Sheet No.: 23 of 24

Project: Trail Ridge Landfill

Phase: April I & II

Project No.: FQ2030

Date: (mo/dy) April 15

Year: 1992

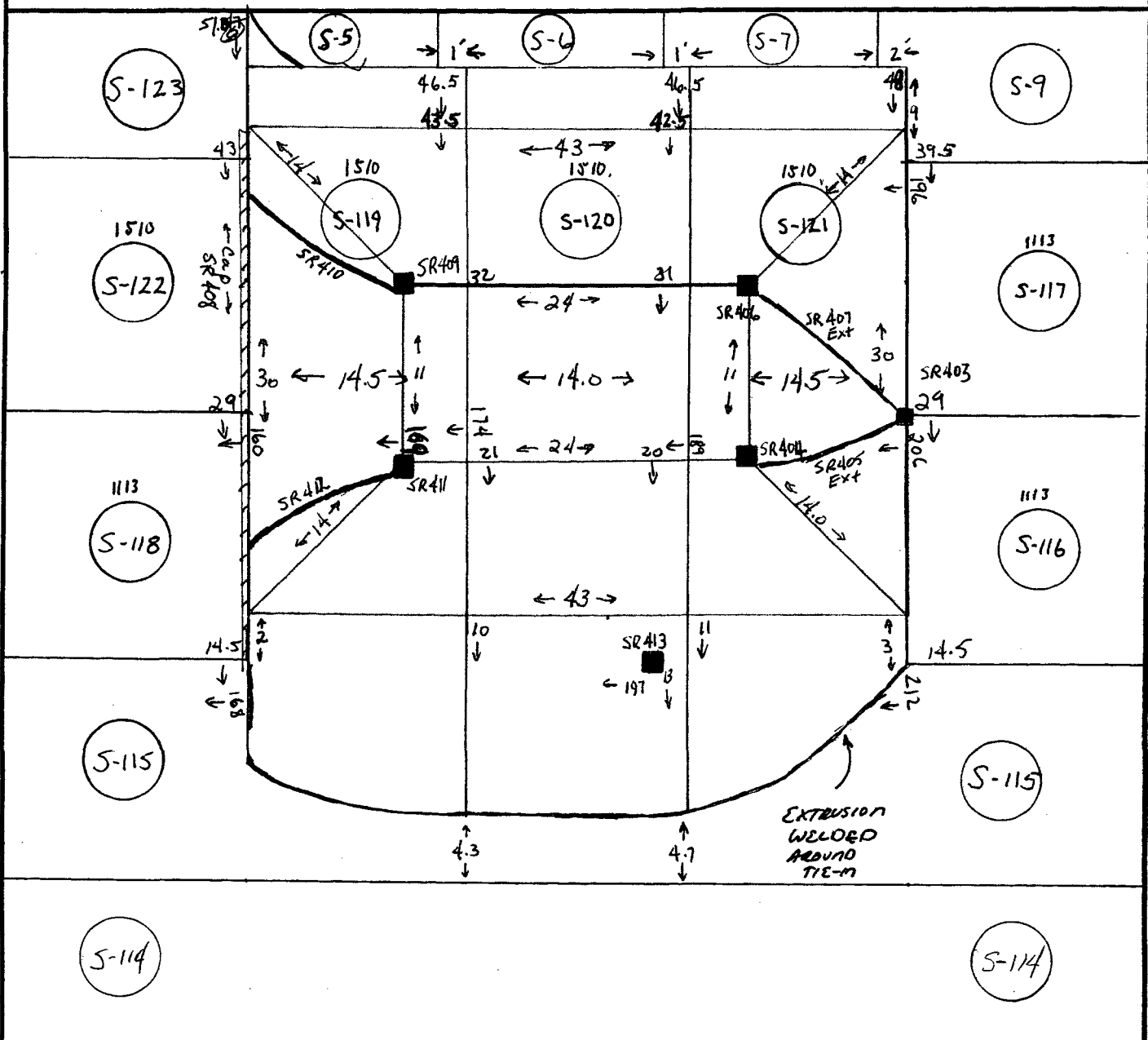
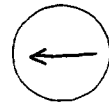
Location: Jacksonville, Florida

Contractor: National Seal Company

× PATCH ☒ Patched ▣ Tested ■ Passed
△ BEAD ▲ Beaded ▲ Tested ▲ Passed
○ SAMPLE ○ Patched ○ Tested ○ Passed

QA I.D. CS

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Panel and Seam Repair Field Sketch

Sheet No.: 24 of 24

Project: Trail Ridge Landfill

Phase: I & II

Project No.: FQ2030

Date: (mo/dy) April 15

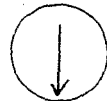
Year: 1992

Location: Jacksonville, Florida

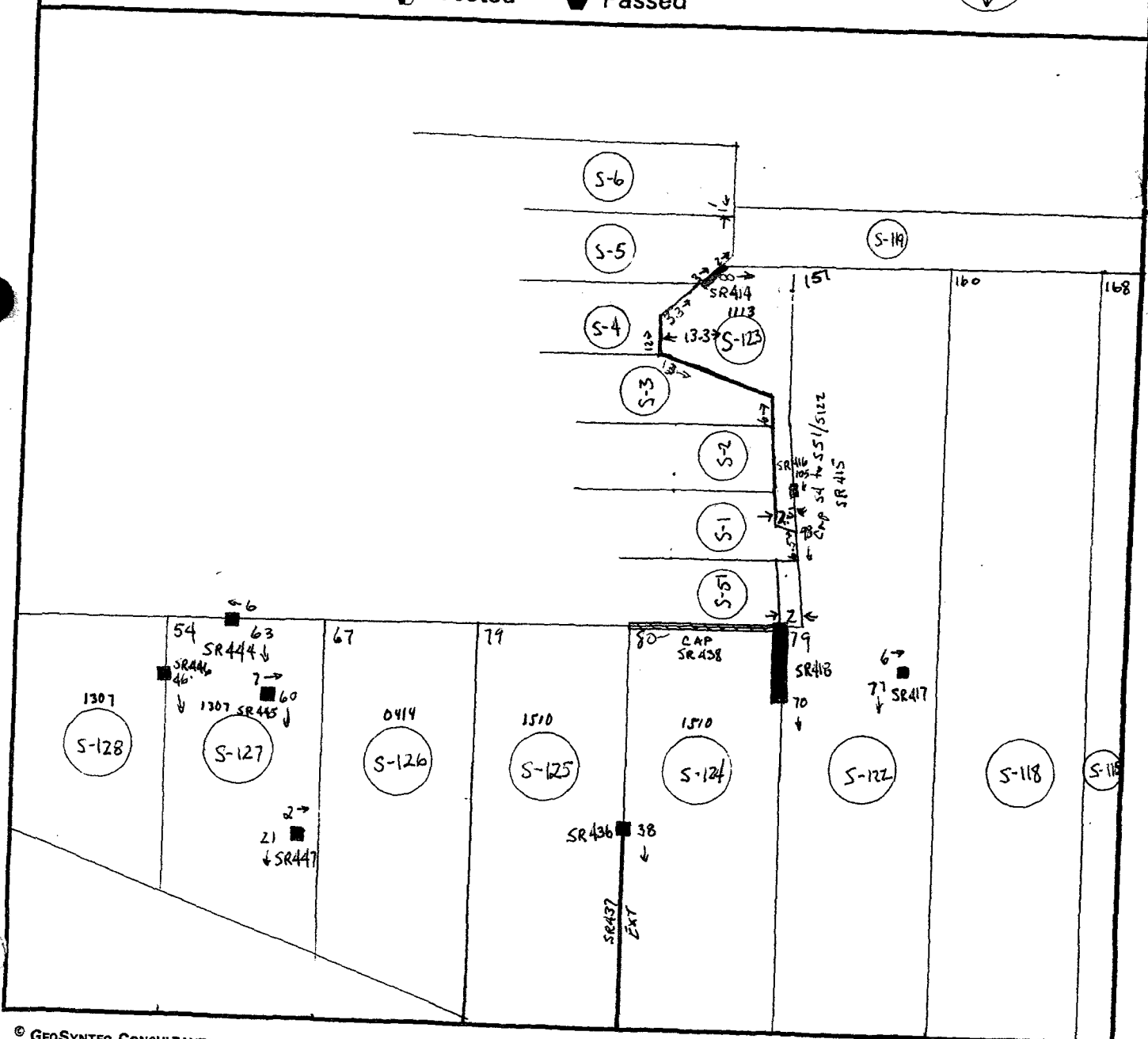
Contractor: National Seal Company

	PATCH		Patched		Tested		Passed
	BEAD		Beaded		Tested		Passed
	SAMPLE		Patched		Tested		Passed

QA I.D. CS



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Boynton Beach, Florida



Trail Ridge Landfill, Inc.

Panel and Seam Repair Field Sketch *Secondary Phase I-B* Sheet No.: 25 of

Project: Trail Ridge Landfill

Phase: I- II

Project No.: FQ2030

Date: (mo/dy) APR 16

Year: 1992

Location: Jacksonville, Florida

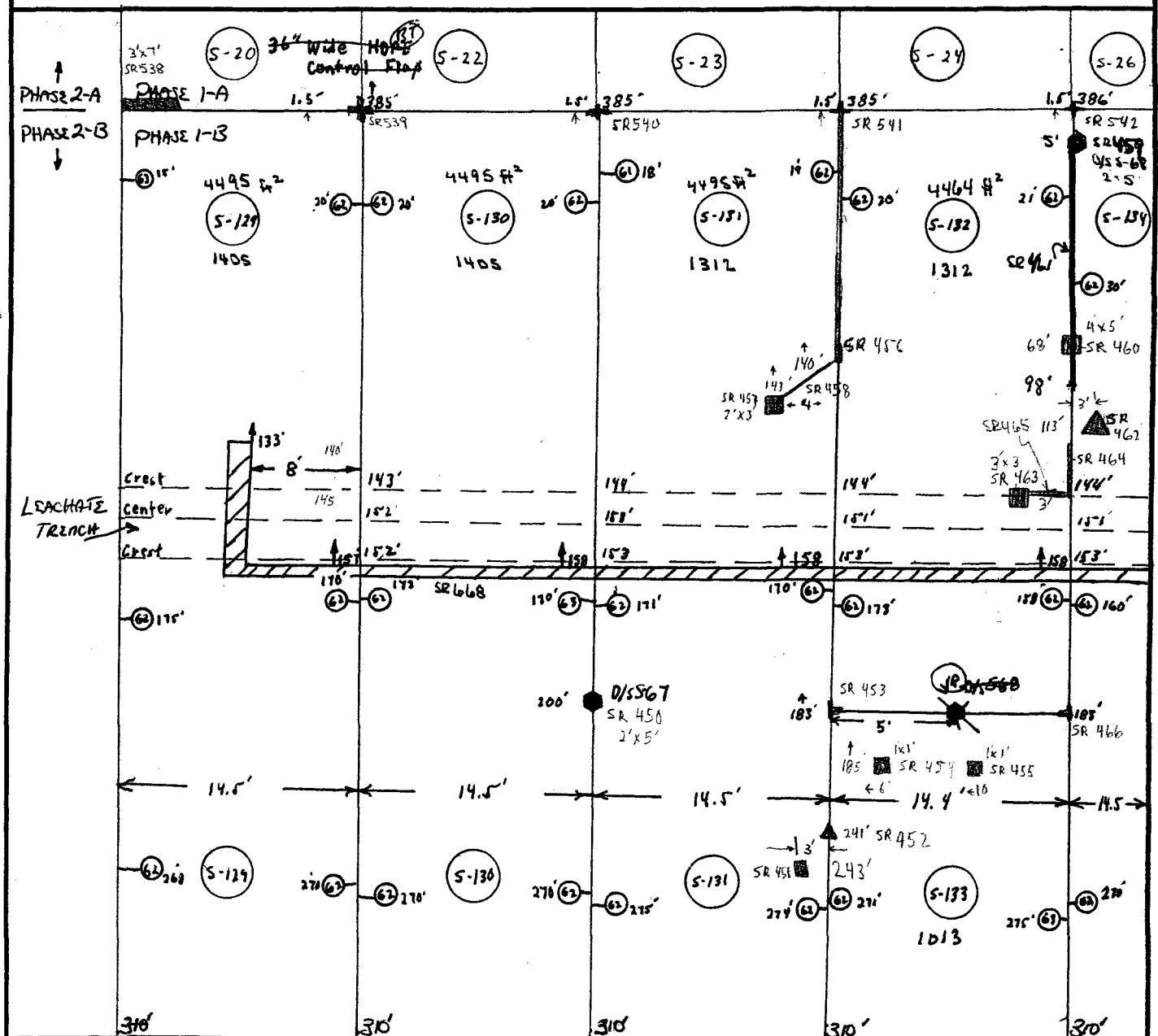
Contractor: National Seal Company

× PATCH ⊠ Patched ▣ Tested ■ Passed
△ BEAD △ Beaded ▲ Tested ▲ Passed
○ SAMPLE ⊕ Patched ◐ Tested ◐ Passed

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Trail Ridge Landfill, Inc.

Panel and Seam Repair Field Sketch

SECONDARY Phase I & II

Sheet No.: 26 of

Project: Trail Ridge Landfill

Phase: I & II

Project No.: FQ2030

Date: (mo/dy) APR 16

Year: 1992

Location: Jacksonville, Florida

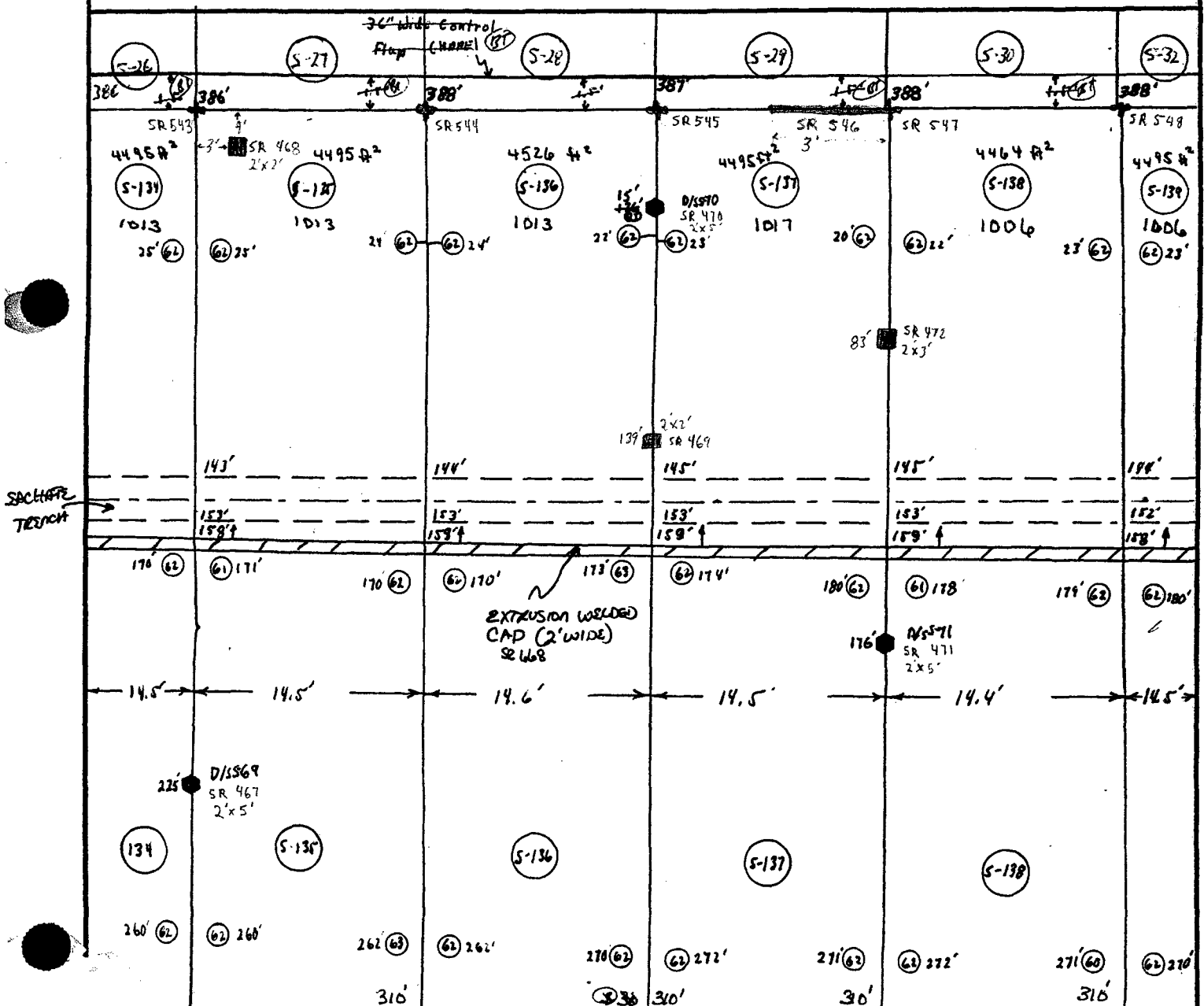
Contractor: National Seal Company

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△ BEAD ▲ Beaded ▲ Tested ▲ Passed
○ SAMPLE ◐ Patched ◑ Tested ◑ Passed

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SEAMING & REFERENCED

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Boynton Beach, Florida



Trail Ridge Landfill, Inc.

Panel and Seam Repair Field Sketch

Sheet No.: 27 of

Project: Trail Ridge Landfill

Phase: I & II

Project No.: FQ2030

Date: (mo/dy) APR 16

Year: 1992

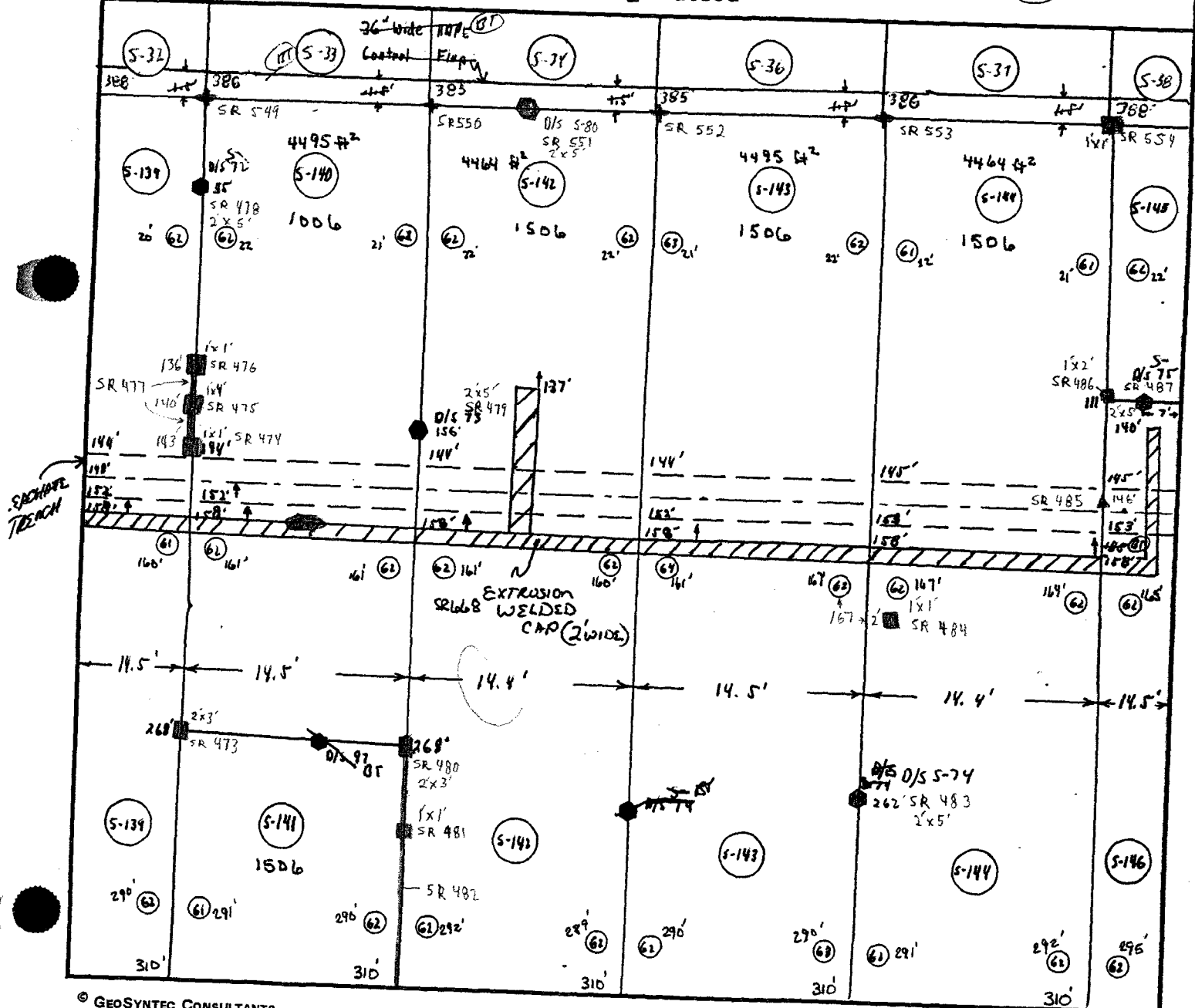
Location: Jacksonville, Florida

Contractor: National Seal Company

- | | | | |
|----------|-----------|----------|----------|
| ✕ PATCH | ⊠ Patched | ▣ Tested | ■ Passed |
| △ BEAD | ⊡ Beaded | ▲ Tested | ▲ Passed |
| ○ SAMPLE | ⊖ Patched | ◼ Tested | ◼ Passed |

QA I.D. BT

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Boynton Beach, Florida



Trail Ridge Landfill, Inc.

Panel and Seam Repair Field Sketch

Sheet No.: 28 of

Project: Trail Ridge Landfill

Phase: I+II

Project No.: FQ2030

Date: (mo/dy) APR 17

Year: 1992

Location: Jacksonville, Florida

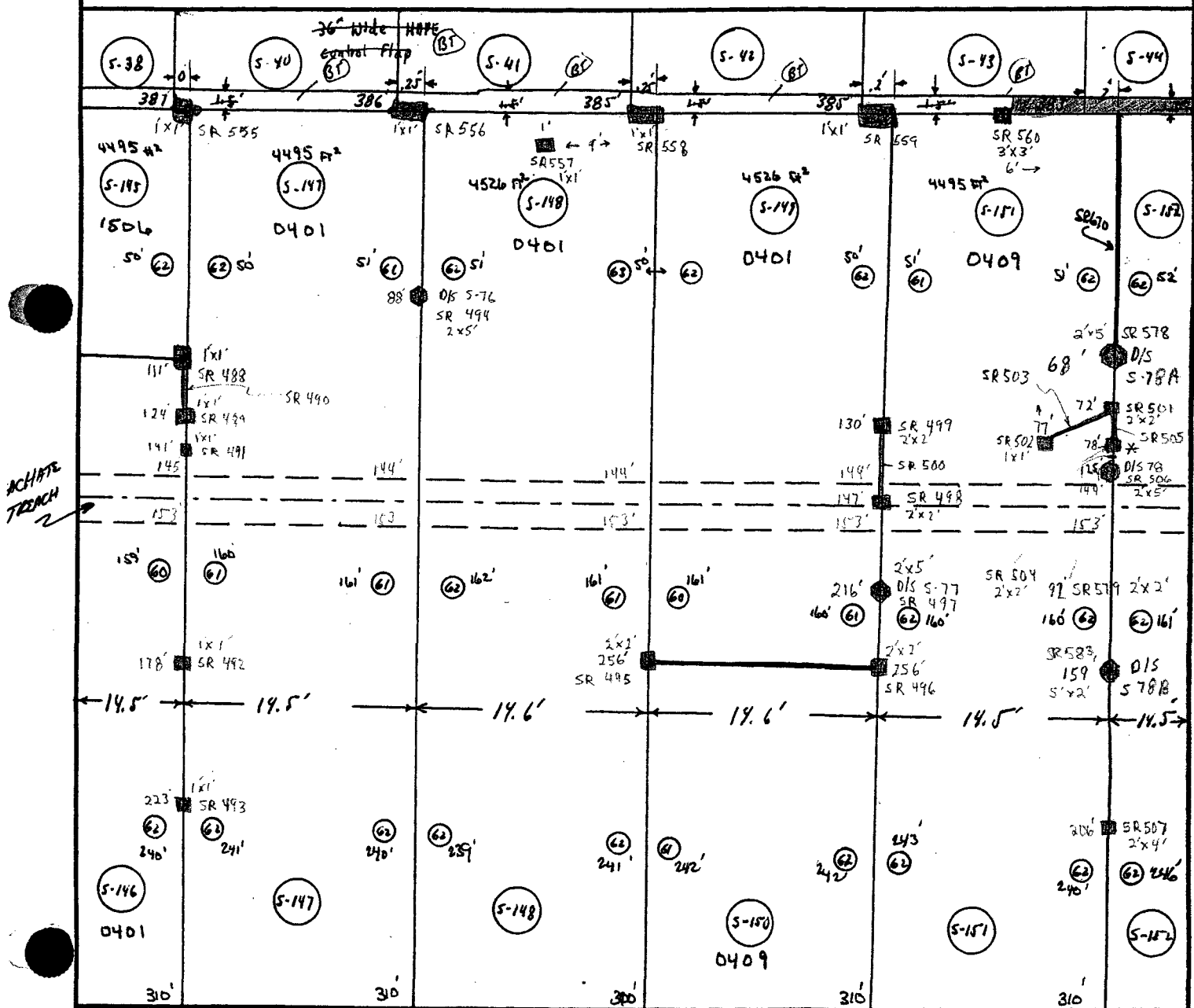
Contractor: National Seal Company

✕ PATCH	⊠ Patched	◼ Tested	■ Passed
△ BEAD	⚠ Beaded	▲ Tested	▲ Passed
○ SAMPLE	◍ Patched	◍ Tested	◍ Passed

QA I.D. BT



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SEAMING X REFERENCED

* Note: on seam S-151/S-152 the following is not drawn but should be:

SR 580 113' 2'x2'

138' 2'x2'

136' 2'x2'

159' 5'x2'

94' 2'x2'

67' SR 578

SR 585

94' SR 584



Panel and Seam Repair Field Sketch

Sheet No.: 29 of

Project: *Trail Ridge Landfill*

Phase: I & II

Project No.: FQ2030

Date: (mo/dy) April 18

Year: 1992

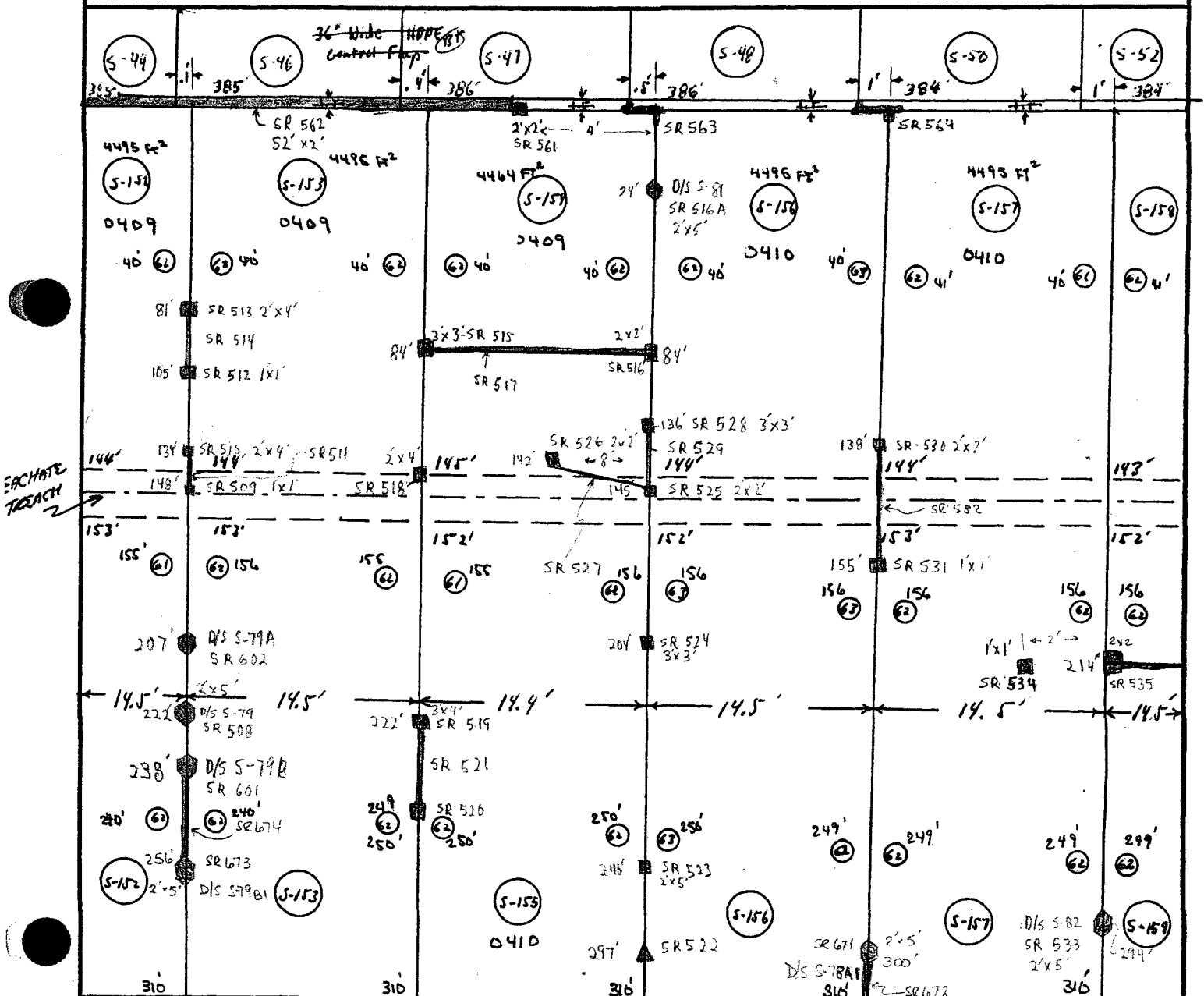
Location: *Jacksonville, Florida*

Contractor: *National Seal Company*

	PATCH		Patched		Tested		Passed
	BEAD		Beaded		Tested		Passed
	SAMPLE		Patched		Tested		Passed

QA I.D. BT

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Panel and Seam Repair Field Sketch

Sheet No.: 30 of

Project: *Trail Ridge Landfill*

Phase: I & II

Project No.: FQ2030

Date: (mo/dy) *April 20*

Year: 1992

Location: *Jacksonville, Florida*

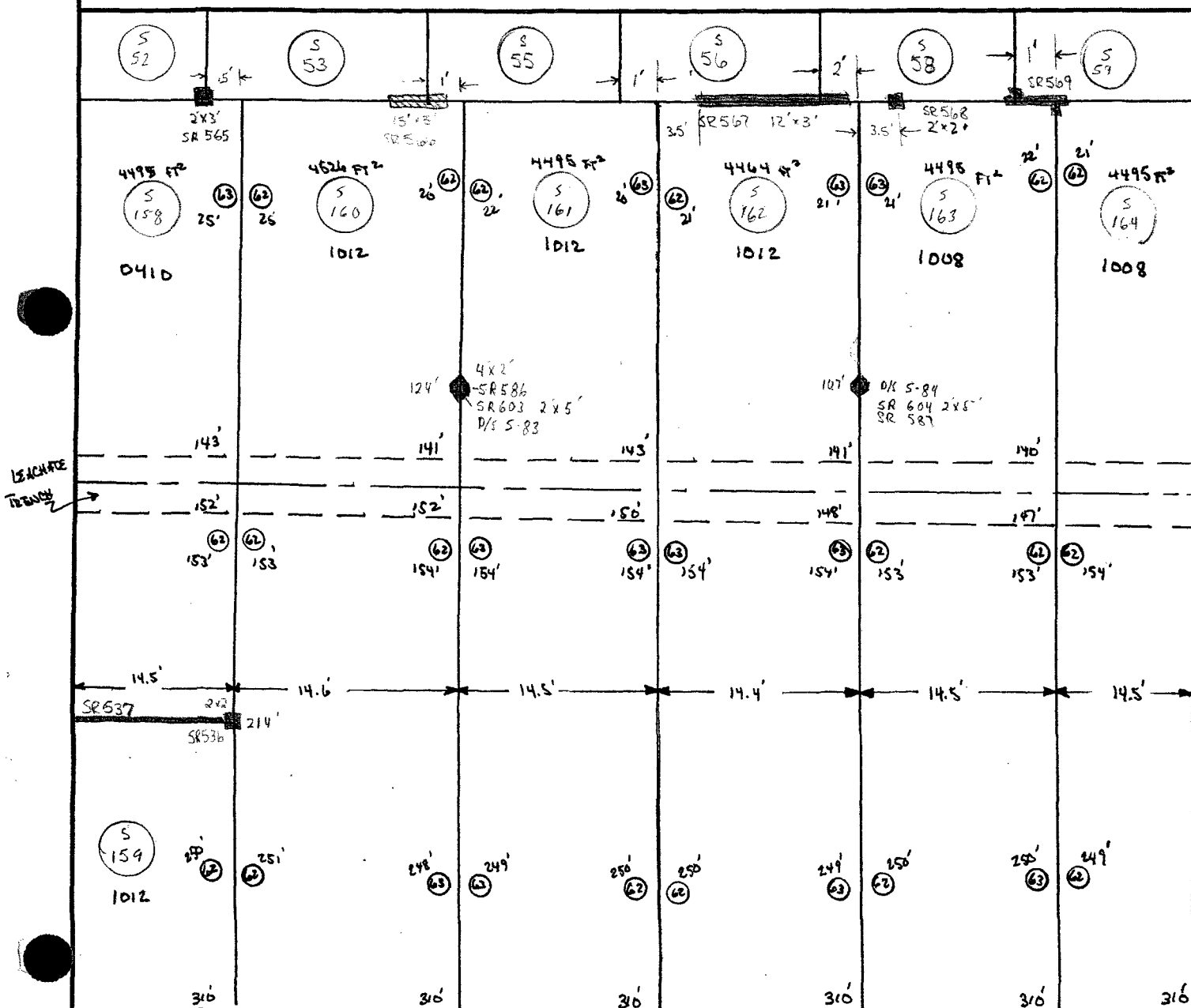
Contractor: *National Seal Company*

	PATCH		Patched		Tested		Passed
	BEAD		Beaded		Tested		Passed
	SAMPLE		Patched		Tested		Passed

QA I.D. BT



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GEOSYNTec CONSULTANTS
Boynton Beach, Florida



Trail Ridge Landfill, Inc.

Panel and Seam Repair Field Sketch

Sheet No.: 31 of

Project: Trail Ridge Landfill

Phase: I & II

Project No.: FQ2030

Date: (mo/dy) April 20

Year: 1992

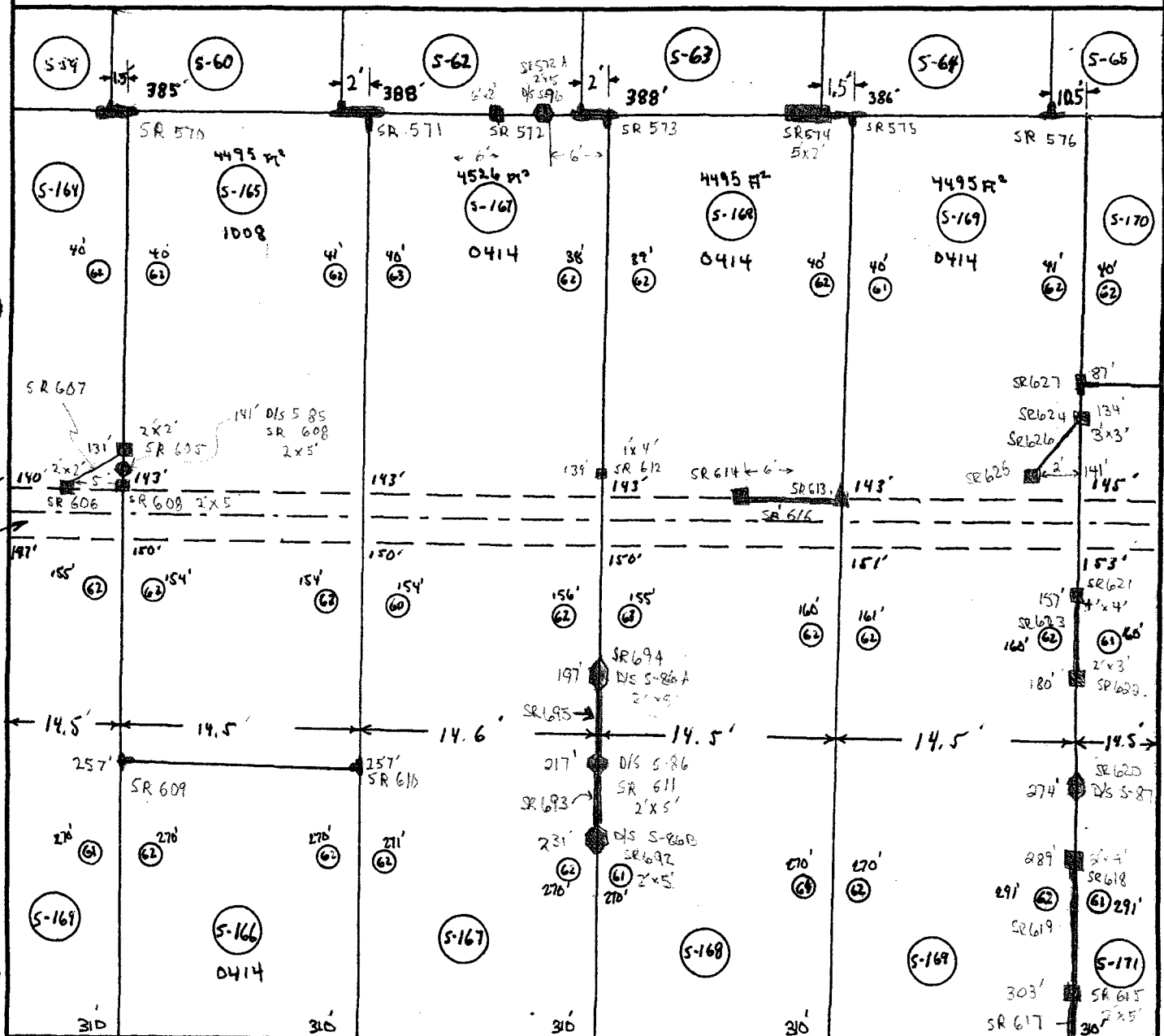
Location: Jacksonville, Florida

Contractor: National Seal Company

× PATCH ⊠ Patched ◼ Tested ■ Passed
△ BEAD △ Beaded ▲ Tested ▲ Passed
○ SAMPLE ⊡ Patched ◐ Tested ◐ Passed

QA I.D. BT

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Boynton Beach, Florida



Trail Ridge Landfill, Inc.

Panel and Seam Repair Field Sketch

Sheet No.: 32 of

Project: Trail Ridge Landfill

Phase: I & II

Project No.: FQ2030

Date: (mo/dy)

Year: 1992

Location: Jacksonville, Florida

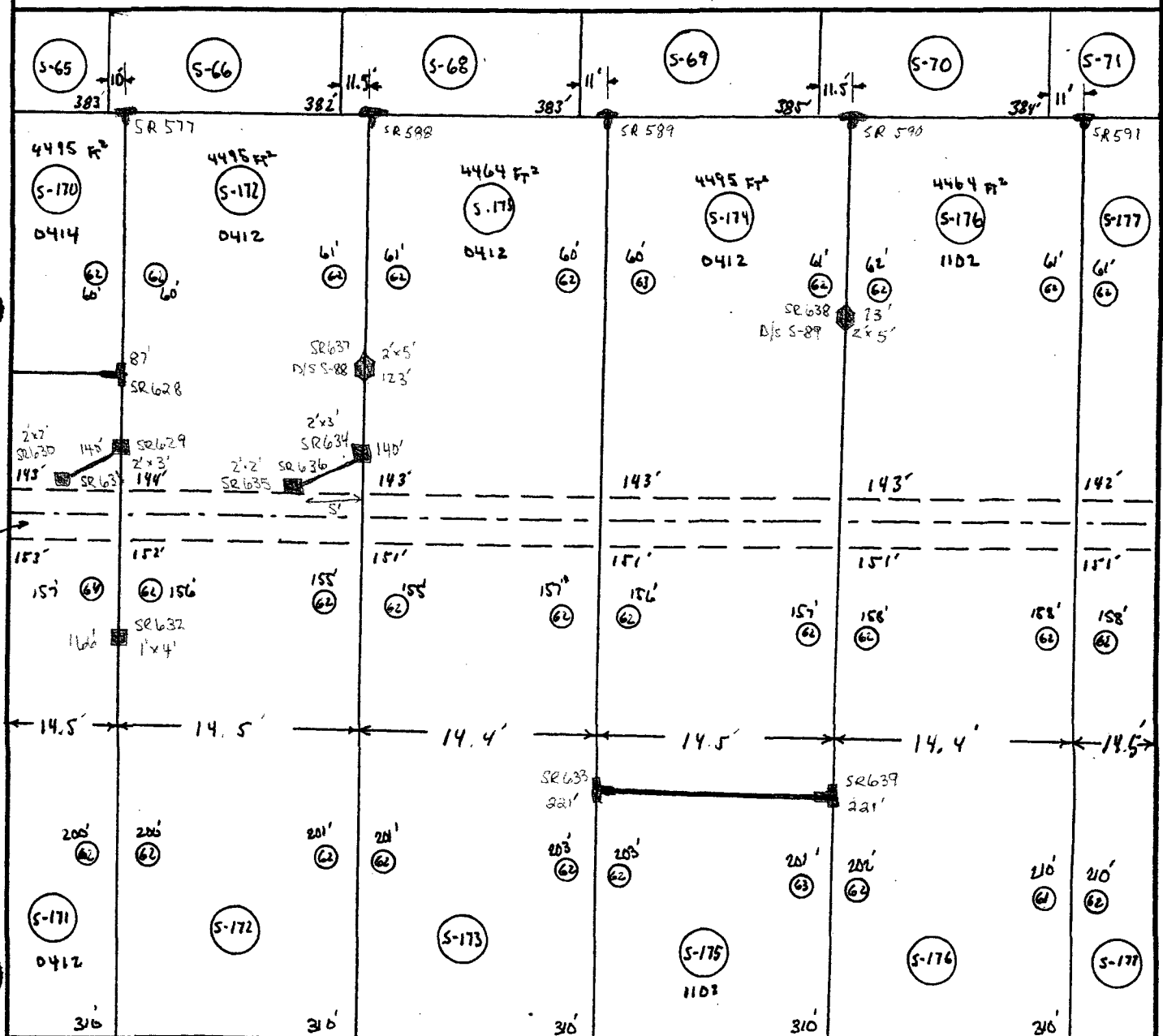
Contractor: National Seal Company

✕ PATCH ☒ Patched ▣ Tested ■ Passed
△ BEAD ▲ Beaded ▲ Tested ▲ Passed
○ SAMPLE ○ Patched ○ Tested ○ Passed

QA I.D. JR



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Boynton Beach, Florida



Trail Ridge Landfill, Inc.

Panel and Seam Repair Field Sketch

Sheet No.: 33 of

Project: Trail Ridge Landfill

Phase: I & II

Project No.: FQ2030

Date: (mo/dy)

Year: 1992

Location: Jacksonville, Florida

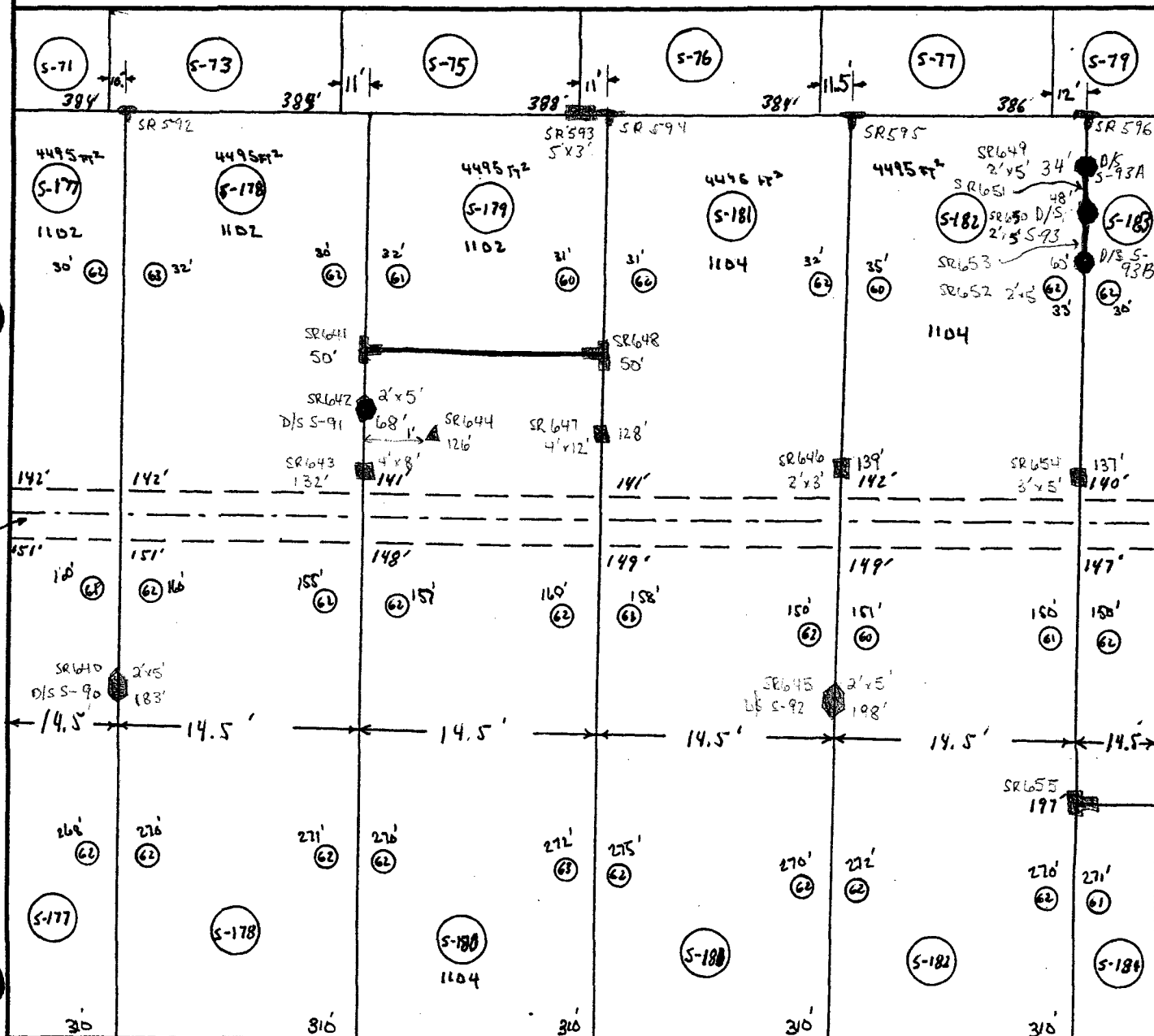
Contractor: National Seal Company

✕ PATCH ☒ Patched ▣ Tested ■ Passed
△ BEAD △ Beaded ▲ Tested ▲ Passed
○ SAMPLE ○ Patched ◐ Tested ◐ Passed

QA I.D. JK



North





GEOSYNTEC CONSULTANTS
Boynton Beach, Florida



Trail Ridge Landfill, Inc.

Panel and Seam Repair Field Sketch

Sheet No.: 34 of

Project: Trail Ridge Landfill

Phase: I & II

Project No.: FQ2030

Date: (mo/dy)

Year: 1992

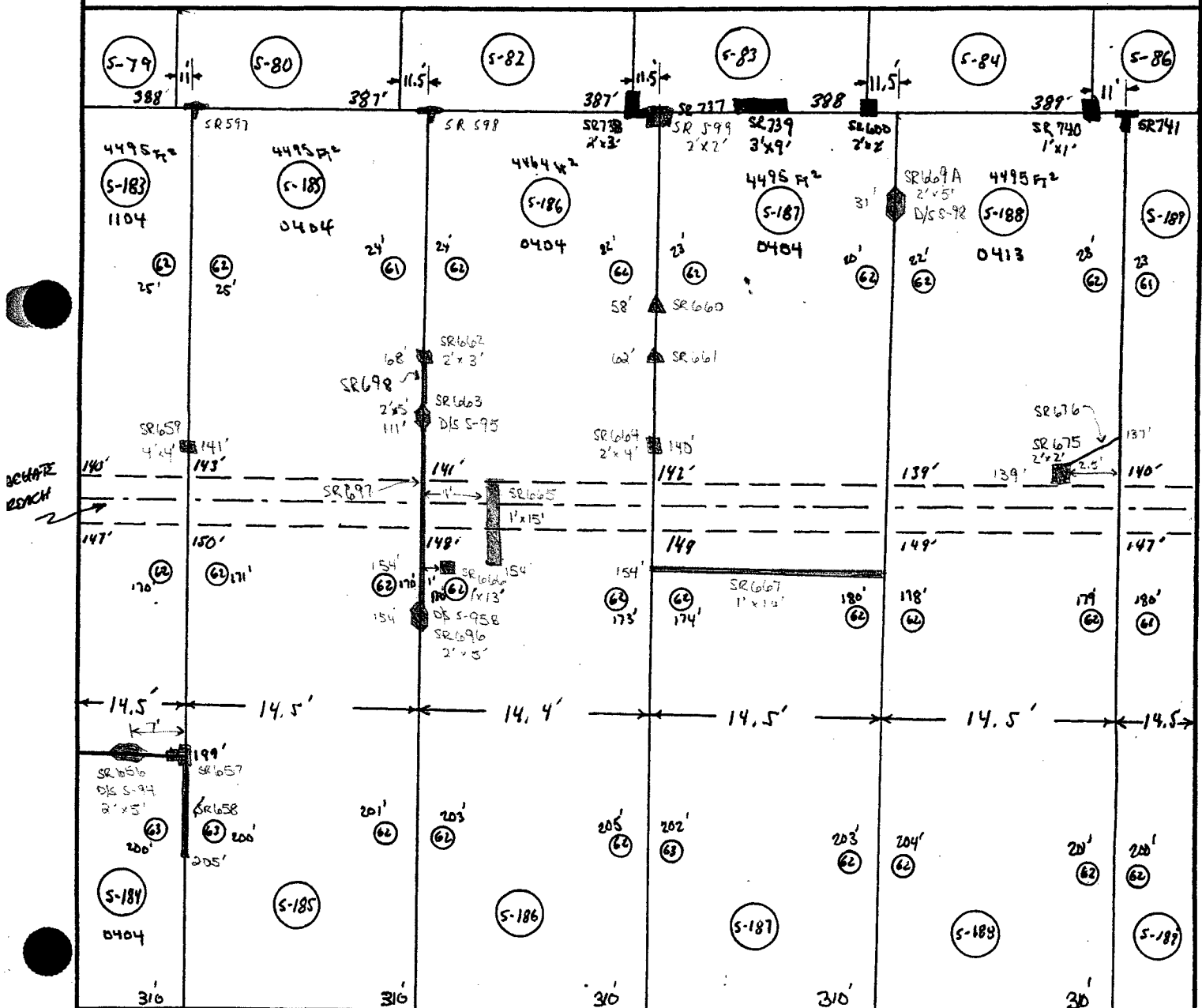
Location: Jacksonville, Florida

Contractor: National Seal Company

× PATCH ⊠ Patched ▣ Tested ■ Passed
△ BEAD ⊡ Beaded ▲ Tested ▲ Passed
○ SAMPLE ⊕ Patched ◐ Tested ● Passed

QA I.D. JR

North





Panel and Seam Repair Field Sketch

Sheet No.: 35 of

Project: *Trail Ridge Landfill*

Phase: 工 東 其

Project No.: FQ2030

Date: (mo/dy)

Year: 1992

Location: *Jacksonville, Florida*

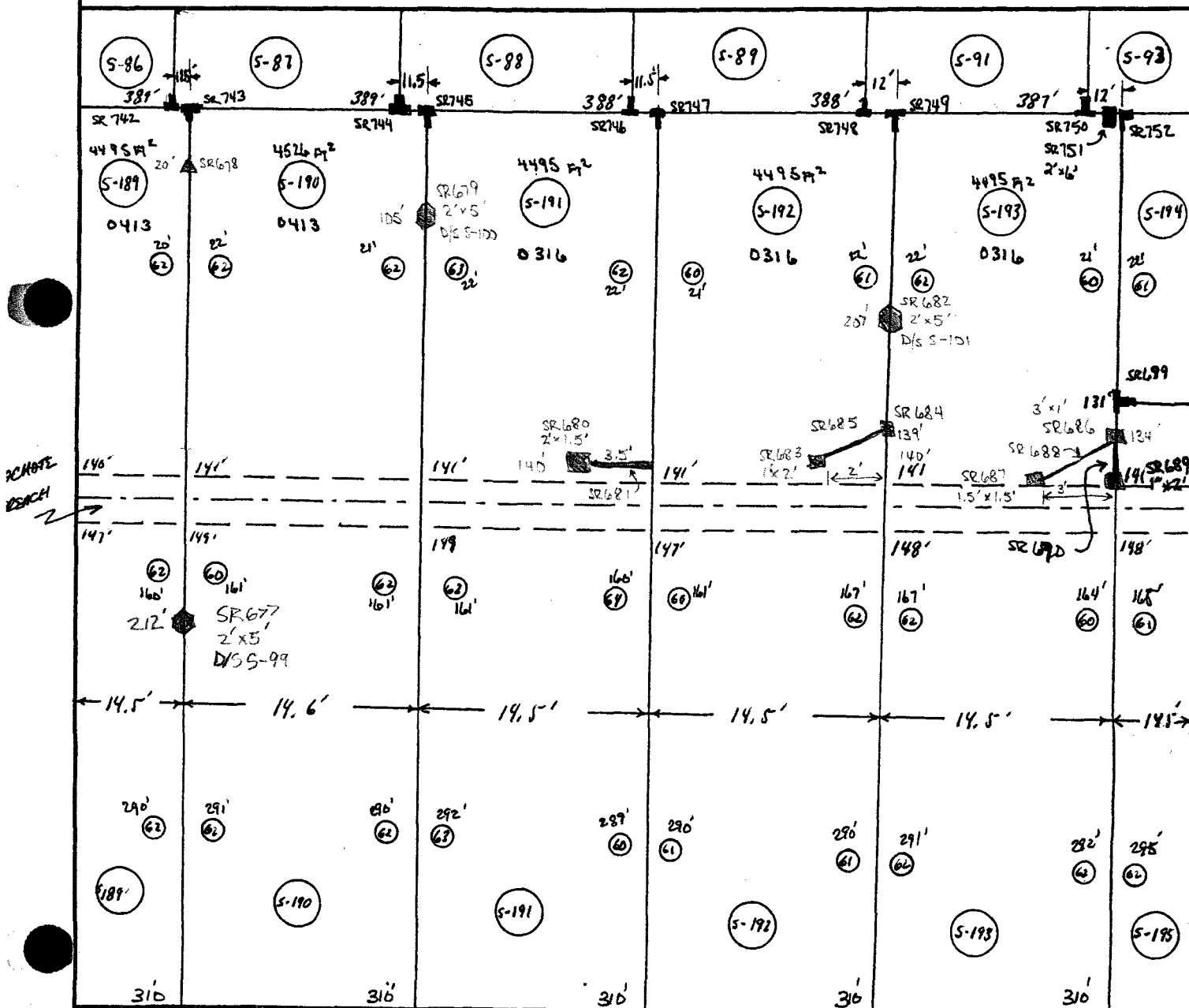
Contractor: *National Seal Company*

	PATCH		Patched		Tested		Passed
	BEAD		Beaded		Tested		Passed
	SAMPLE		Patched		Tested		Passed

QA I.D. 



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GEOSYNTec CONSULTANTS
Boynton Beach, Florida



Trail Ridge Landfill, Inc.

Panel and Seam Repair Field Sketch

Sheet No.: 36 of

Project: Trail Ridge Landfill

Phase: I & II

Project No.: FQ2030

Date: (mo/dy)

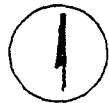
Year: 1992

Location: Jacksonville, Florida

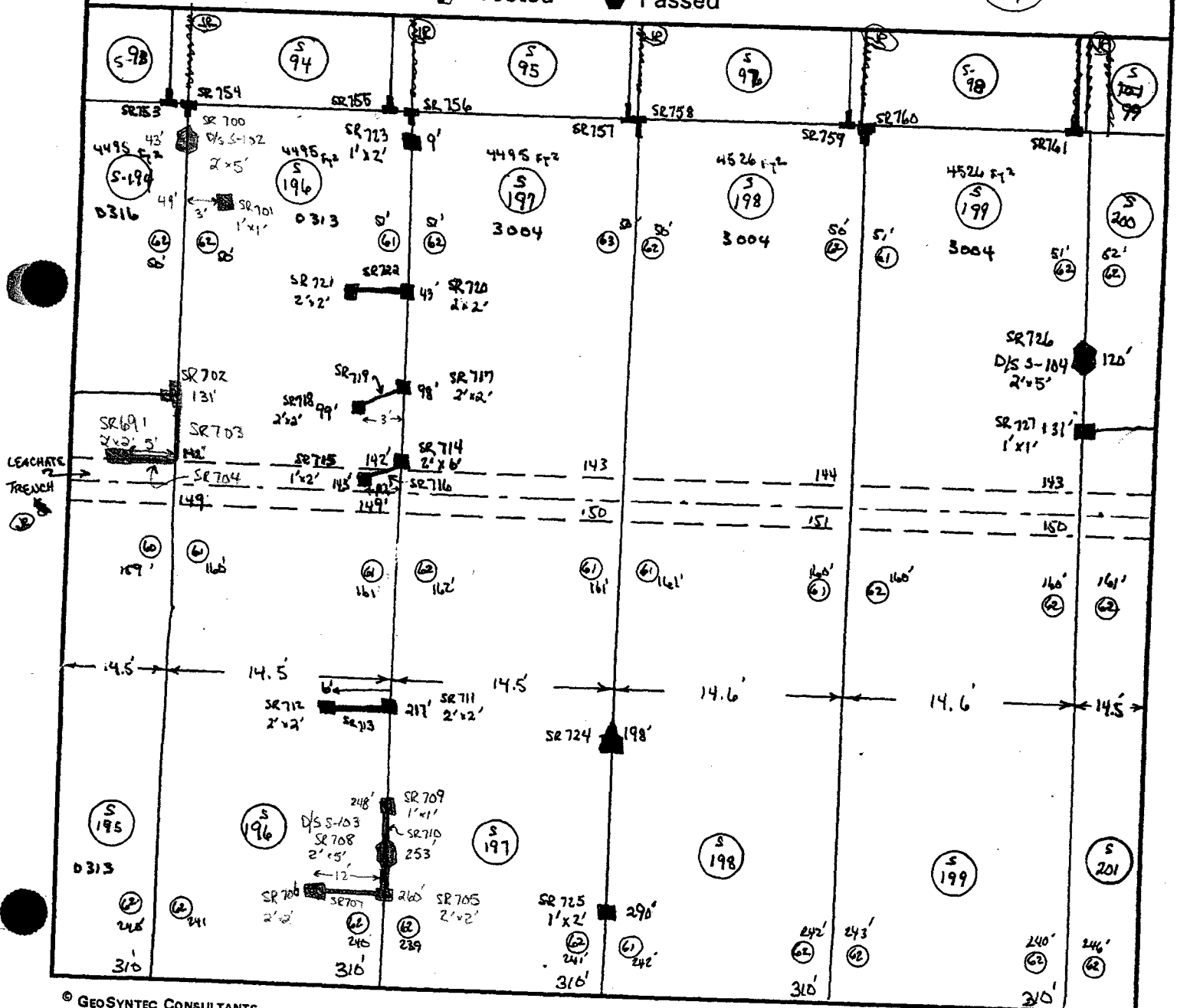
Contractor: National Seal Company

- | | | | |
|----------|-----------|----------|----------|
| ✕ PATCH | ⊠ Patched | ⊞ Tested | ■ Passed |
| △ BEAD | ⊡ Beaded | ▲ Tested | ▲ Passed |
| ○ SAMPLE | ⊖ Patched | ⬤ Tested | ⬤ Passed |

QA I.D. SR



North





Panel and Seam Repair Field Sketch

Sheet No.: 37 of

Project: *Trail Ridge Landfill*

Phase: I & II

Project No.: FQ2030

Date: (mo/dy)

Year: 1992

Location: *Jacksonville, Florida*

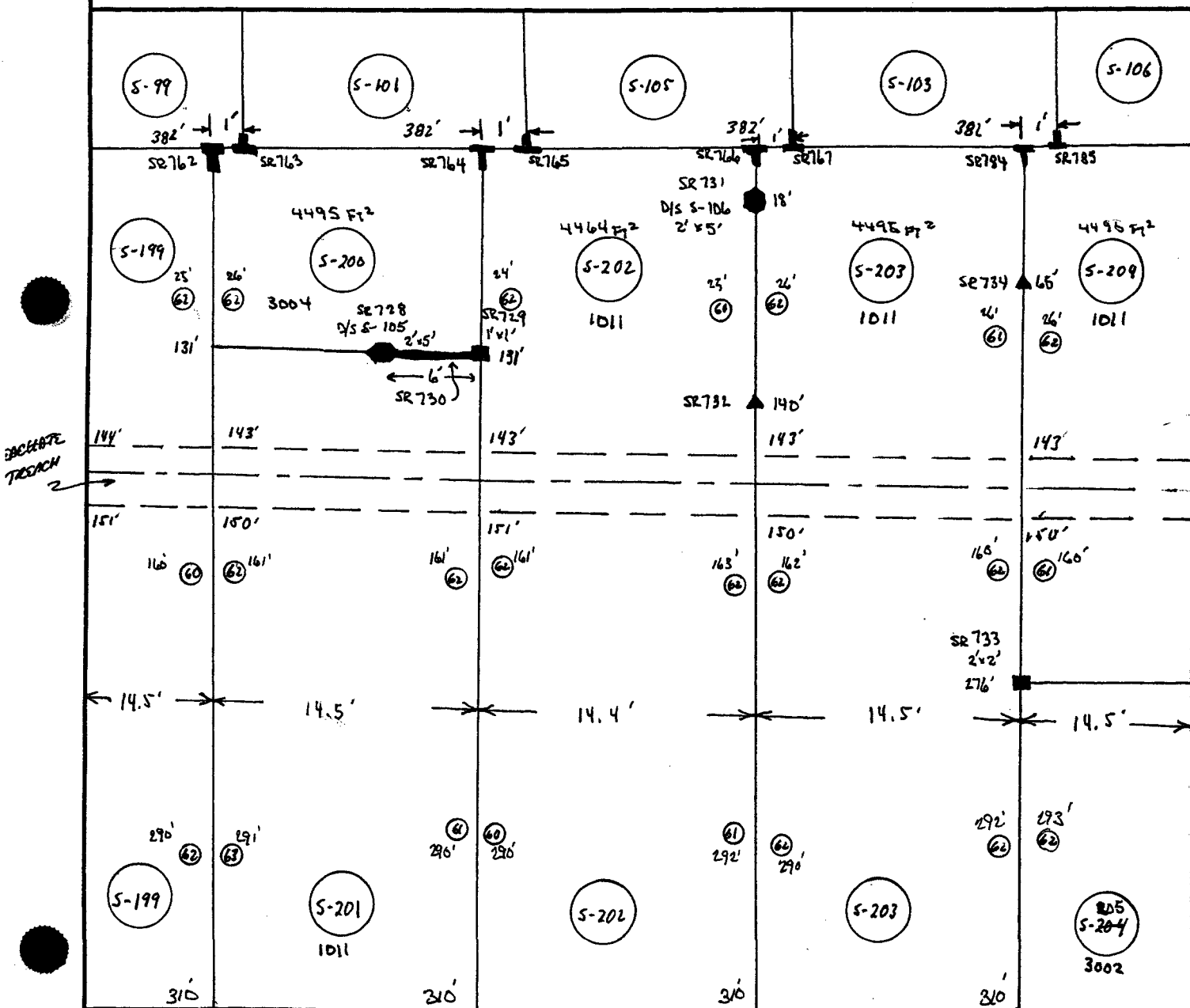
Contractor: *National Seal Company*

	PATCH		Patched		Tested		Passed
	BEAD		Beaded		Tested		Passed
	SAMPLE		Patched		Tested		Passed

QA I.D. *Je*



North





GEOSYNTEC CONSULTANTS
Boynton Beach, Florida



Trail Ridge Landfill, Inc.

Panel and Seam Repair Field Sketch

Sheet No.: 38 of

Project: Trail Ridge Landfill

Phase: I & II

Project No.: FQ2030

Date: (mo/dy)

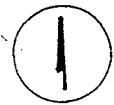
Year: 1992

Location: Jacksonville, Florida

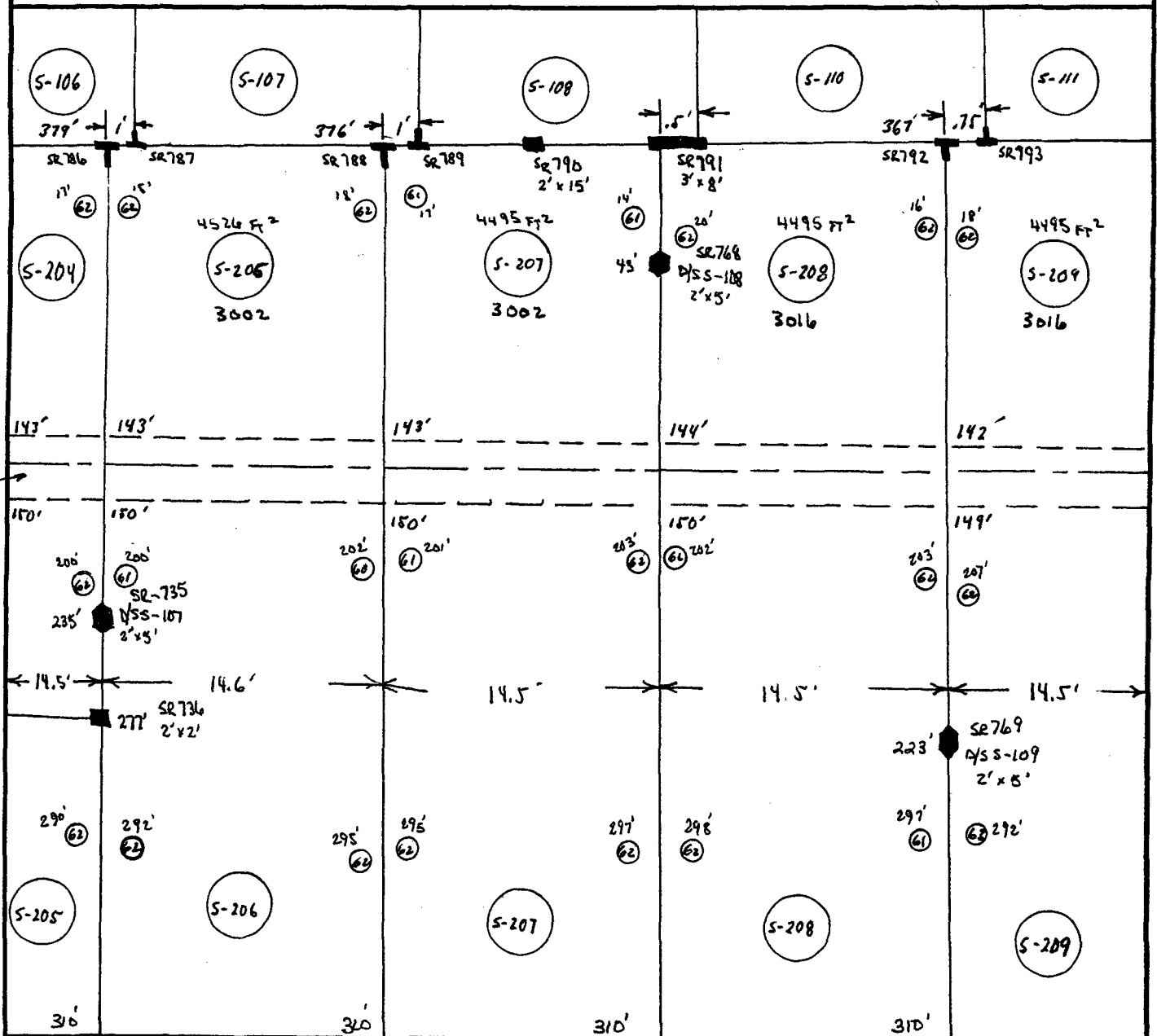
Contractor: National Seal Company

× PATCH ⊠ Patched ▣ Tested ■ Passed
△ BEAD △ Beaded ▲ Tested ▲ Passed
○ SAMPLE ◇ Patched ◇ Tested ◇ Passed

QA I.D. JK



North





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Boynton Beach, Florida



Trail Ridge Landfill, Inc.

Panel and Seam Repair Field Sketch

Sheet No.: 39 of

Project: Trail Ridge Landfill

Phase: I & II

Project No.: FQ2030

Date: (mo/dy)

Year: 1992

Location: Jacksonville, Florida

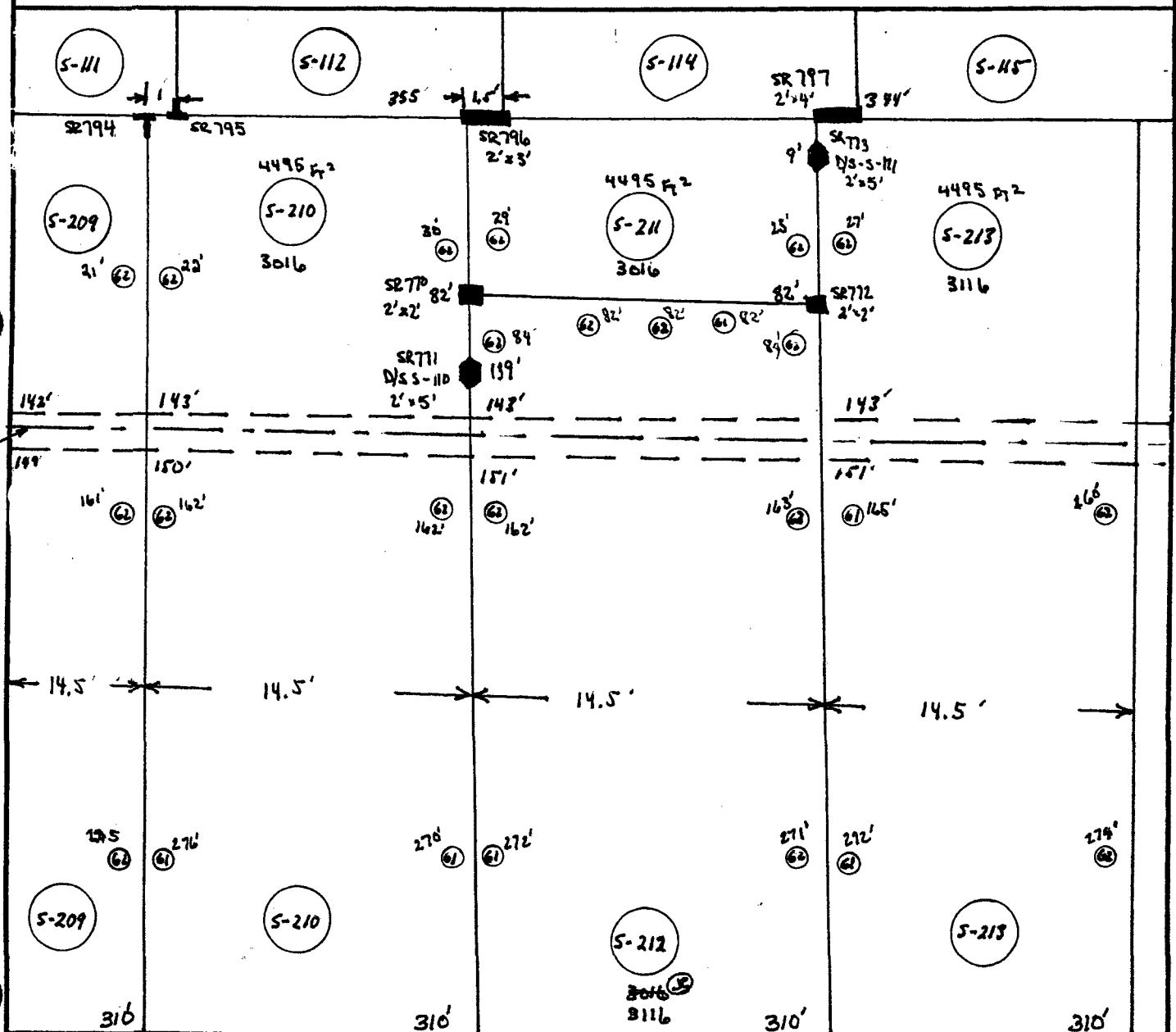
Contractor: National Seal Company

× PATCH ⊗ Patched ⊠ Tested ■ Passed
△ BEAD ▲ Beaded ▲ Tested ▲ Passed
○ SAMPLE ⊖ Patched ⊖ Tested ● Passed

QA I.D. JR



North





Panel and Seam Repair Field Sketch

Sheet No.: 40 of

Project: *Trail Ridge Landfill*

Phase: I + II

Project No.: FQ2030

Date: (mo/dy) APR 23

Year: 1992

Location: *Jacksonville, Florida*

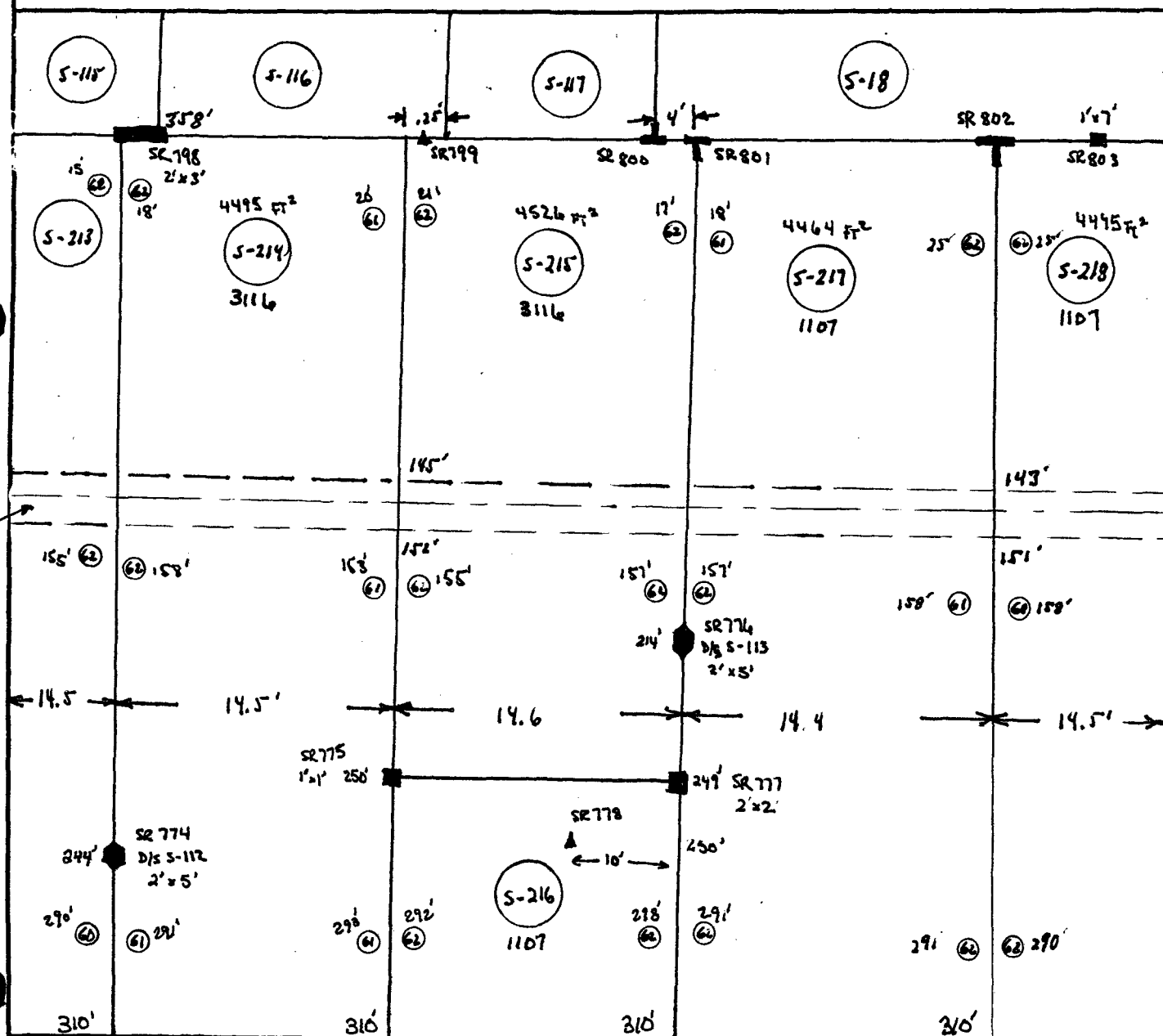
Contractor: *National Seal Company*

	PATCH		Patched		Tested		Passed
	BEAD		Beaded		Tested		Passed
	SAMPLE		Patched		Tested		Passed

QA I.D. *BT*



North





Panel and Seam Repair Field Sketch

Sheet No.: 41 of

Project: *Trail Ridge Landfill*

Phase: $I + II$

Project No.: FQ2030

Date: (mo/dy) APR 23

Year: 1992

Location: Jacksonville, Florida

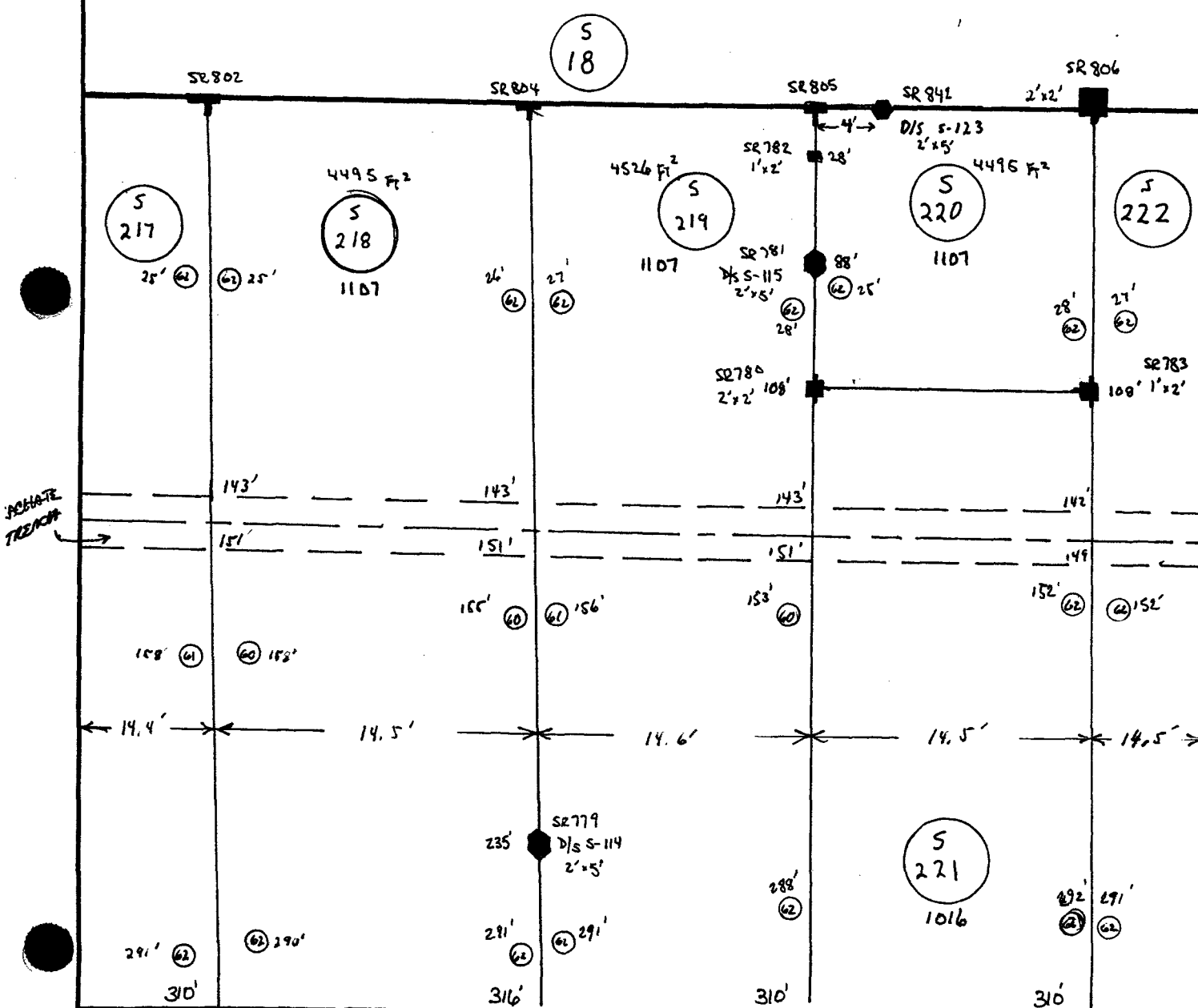
Contractor: *National Seal Company*

	PATCH		Patched		Tested		Passed
	BEAD		Beaded		Tested		Passed
	SAMPLE		Patched		Tested		Passed

QA I.D. BT



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Boynton Beach, Florida



Trail Ridge Landfill, Inc.

Panel and Seam Repair Field Sketch

Sheet No.: 42 of

Project: Trail Ridge Landfill

Phase: I + II

Project No.: FQ2030

Date: (mo/dy) APR 25

Year: 1992

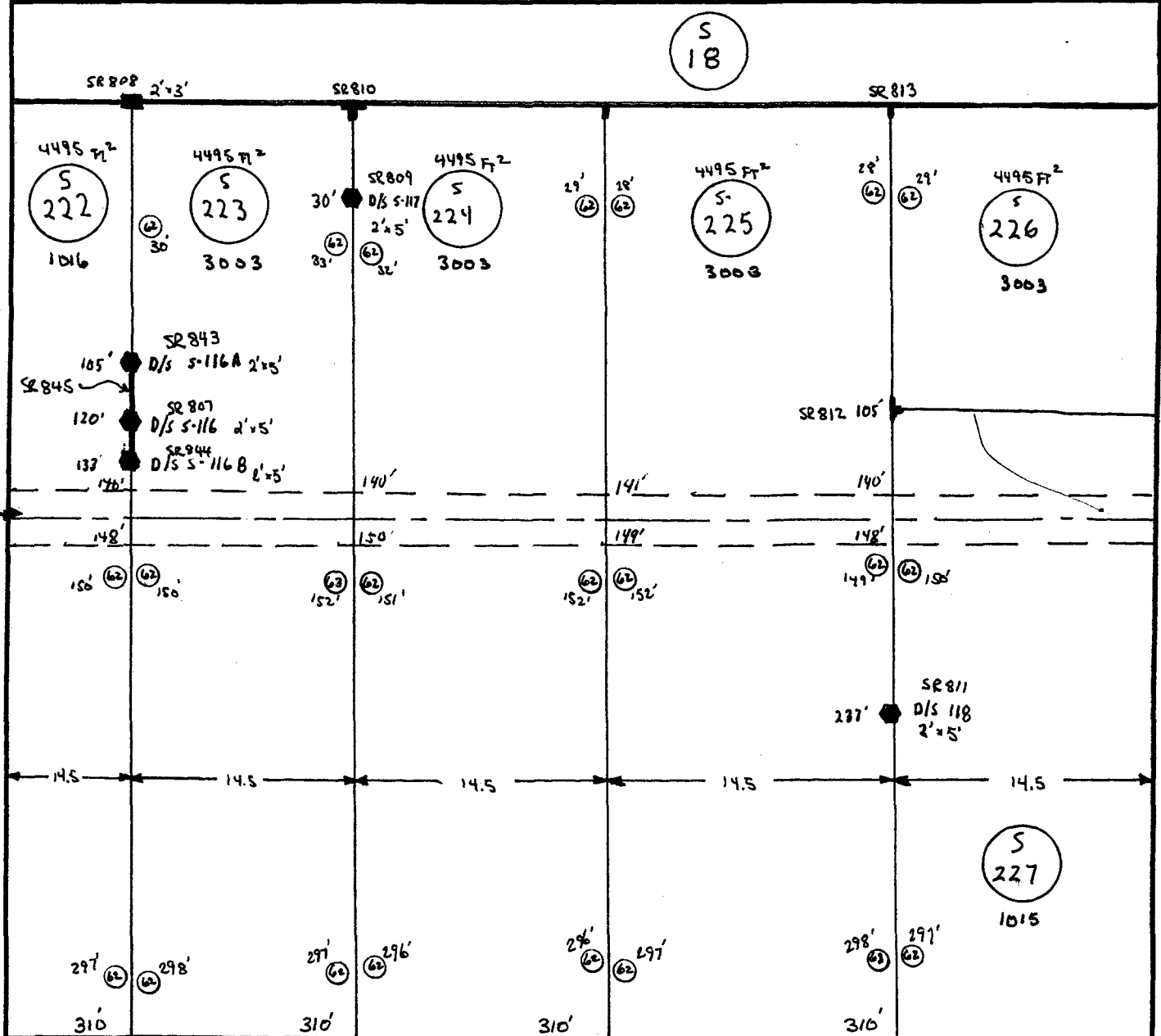
Location: Jacksonville, Florida

Contractor: National Seal Company

× PATCH ▢ Patched ▣ Tested ■ Passed
△ BEAD ▴ Beaded ▲ Tested ▲ Passed
○ SAMPLE ◐ Patched ◑ Tested ◑ Passed

QA I.D. BT/JR

North





Panel and Seam Repair Field Sketch

Sheet No.: 43 of

Project: *Trail Ridge Landfill*

Phase: I & II

Project No.: *FQ2030*

Date: (mo/dy)

Year: 1992

Location: *Jacksonville, Florida*

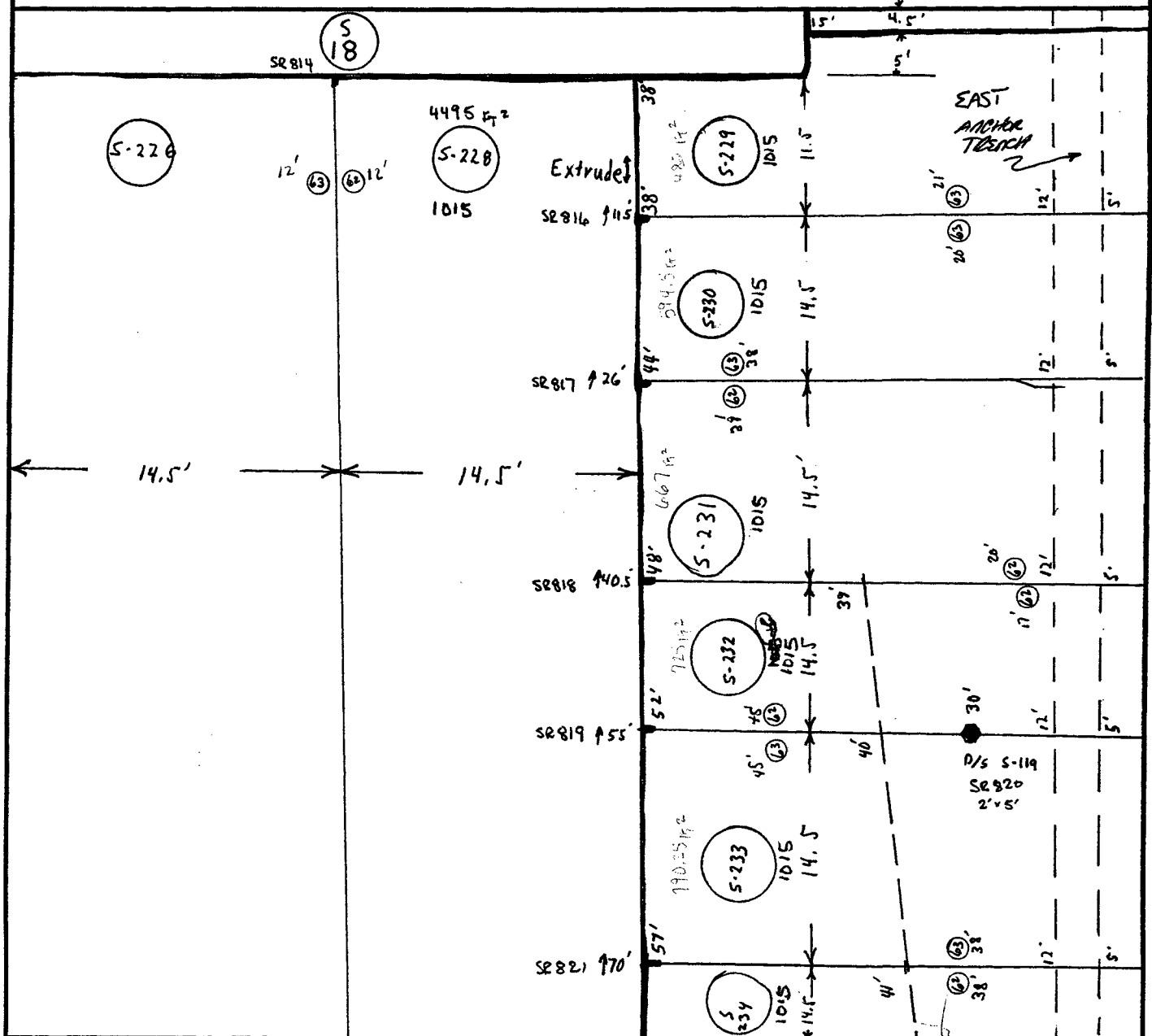
Contractor: *National Seal Company*

	PATCH		Patched		Tested		Passed
	BEAD		Beaded		Tested		Passed
	SAMPLE		Patched		Tested		Passed

QA I.D. JC



North





Panel and Seam Repair Field Sketch

Sheet No.: 44 of

Project: *Trail Ridge Landfill*

Phase: I + II

Project No.: FQ2030

Date: (mo/dy) APR 25

Year: 1992

Location: *Jacksonville, Florida*

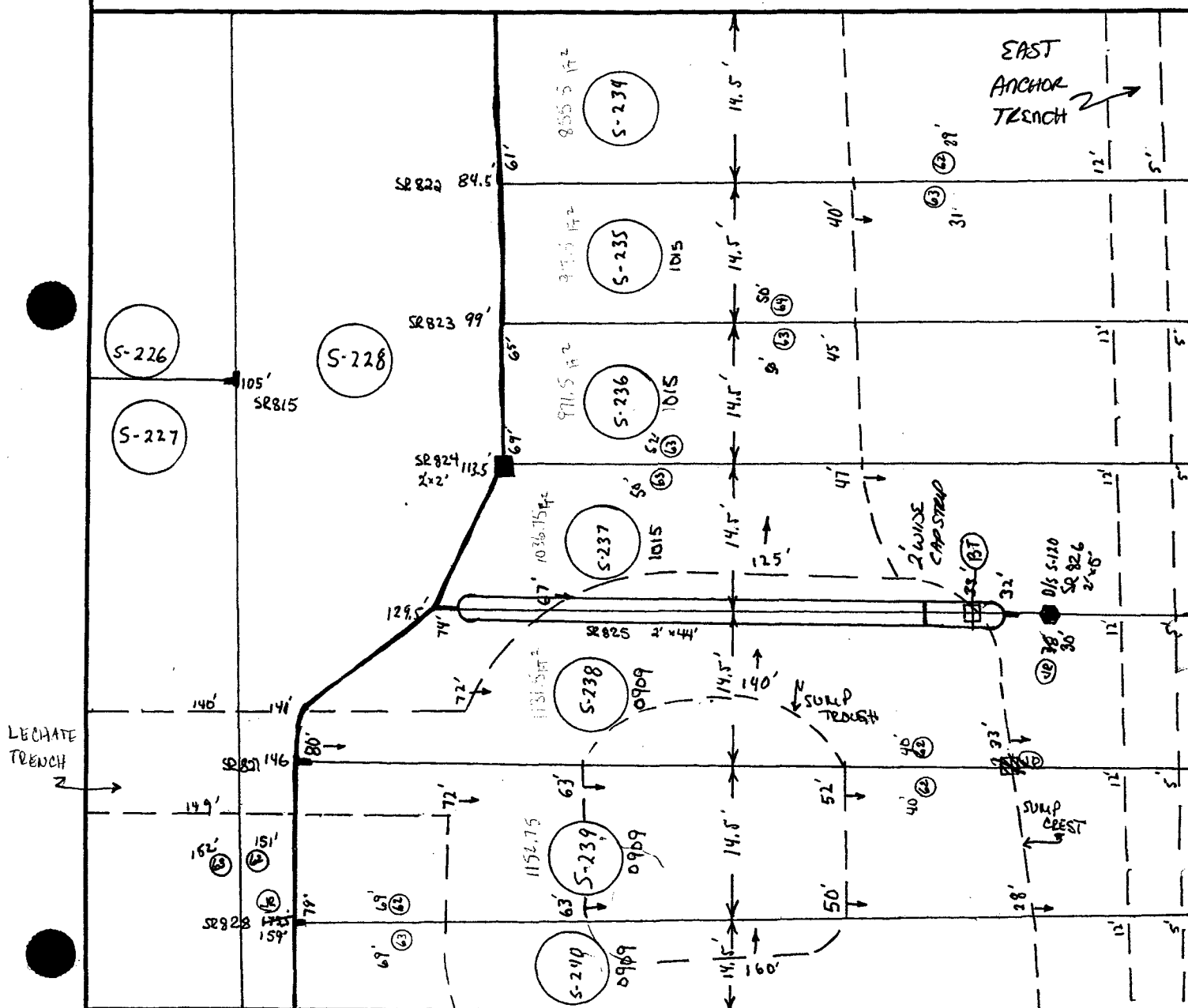
Contractor: *National Seal Company*

	PATCH		Patched		Tested		Passed
	BEAD		Beaded		Tested		Passed
	SAMPLE		Patched		Tested		Passed

QA I.D. BT



North





Panel and Seam Repair Field Sketch

Sheet No.: 45 of

Project: *Trail Ridge Landfill*

Phase: I & II

Project No.: FQ2030

Date: (mo/dy)

Year: 1992

Location: *Jacksonville, Florida*

Contractor:

National Seal Company

 PATCH
  Patched
  Tested
  Passed

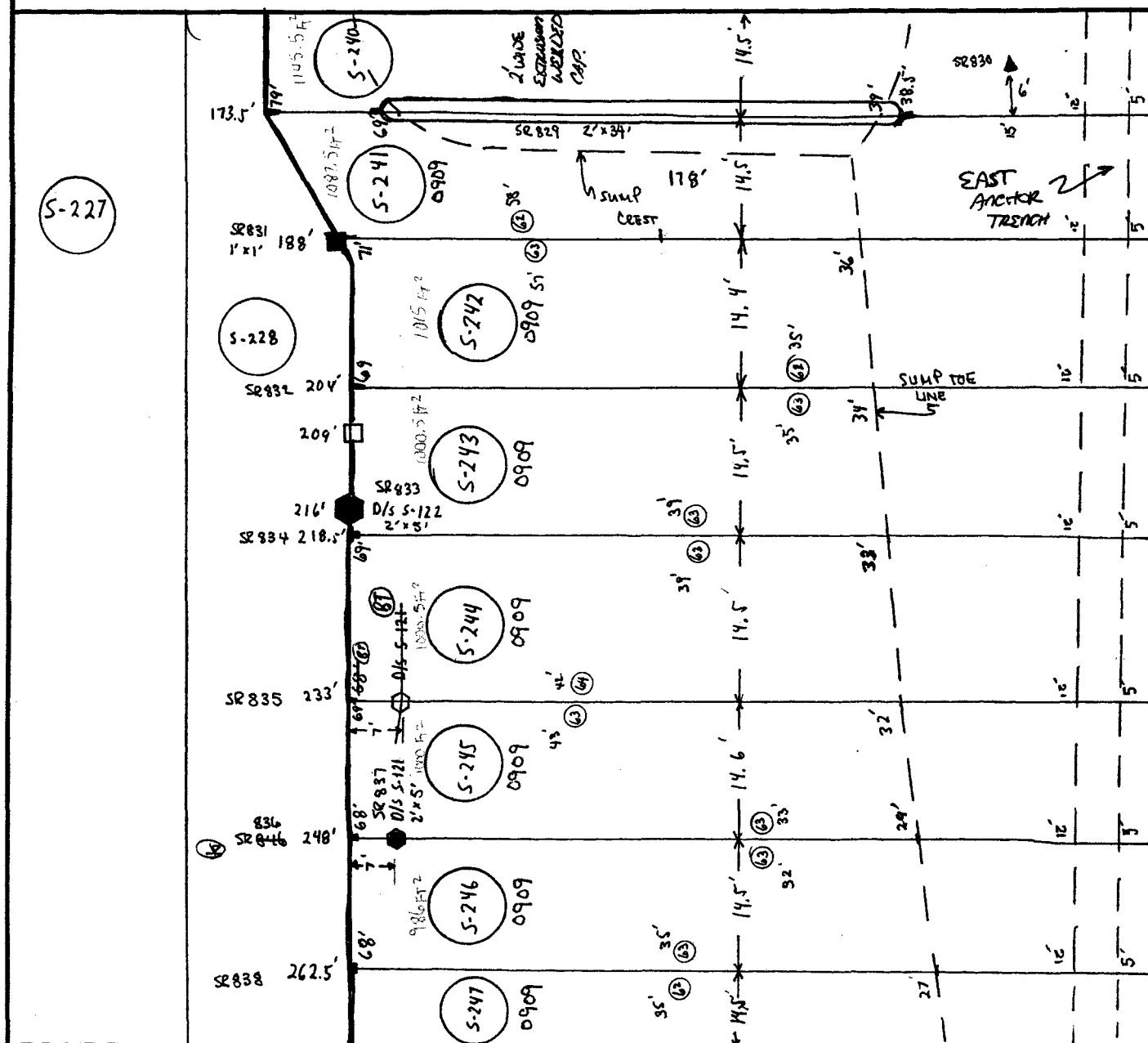
 BEAD
  Beaded
  Tested
  Passed

 SAMPLE
  Patched
  Tested
  Passed

QA I.D. BT/JR



North





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Boynton Beach, Florida



Trail Ridge Landfill, Inc.

Panel and Seam Repair Field Sketch

Sheet No.: 46 of 46

Project: Trail Ridge Landfill

Phase: I & II

Project No.: FQ2030

Date: (mo/dy) _____

Year: 1992

Location: Jacksonville, Florida

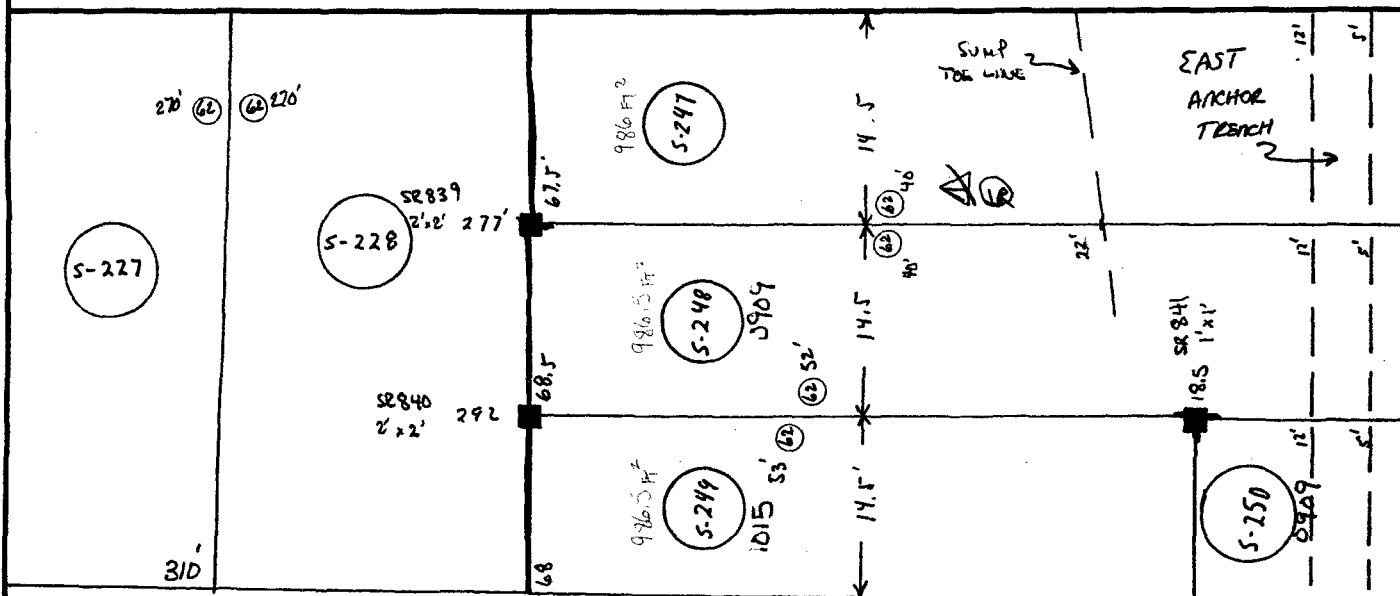
Contractor: National Seal Company

✕ PATCH ☒ Patched ▣ Tested ■ Passed
△ BEAD ▲ Beaded ▲ Tested ▲ Passed
○ SAMPLE ○ Patched ○ Tested ○ Passed

QA I.D. BT



North



Total: 392,599.25 sq'.

Total: 392,599 sq'.

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Panel and Seam Repair Field Sketch

Sheet No.: 1 of 4

Project: *Trail Ridge Landfill*

Phase: I & II

Project No.: FQ2030

Date: (mo/dy) *March 17*

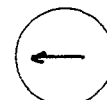
Year: 1992

Location: *Jacksonville, Florida*

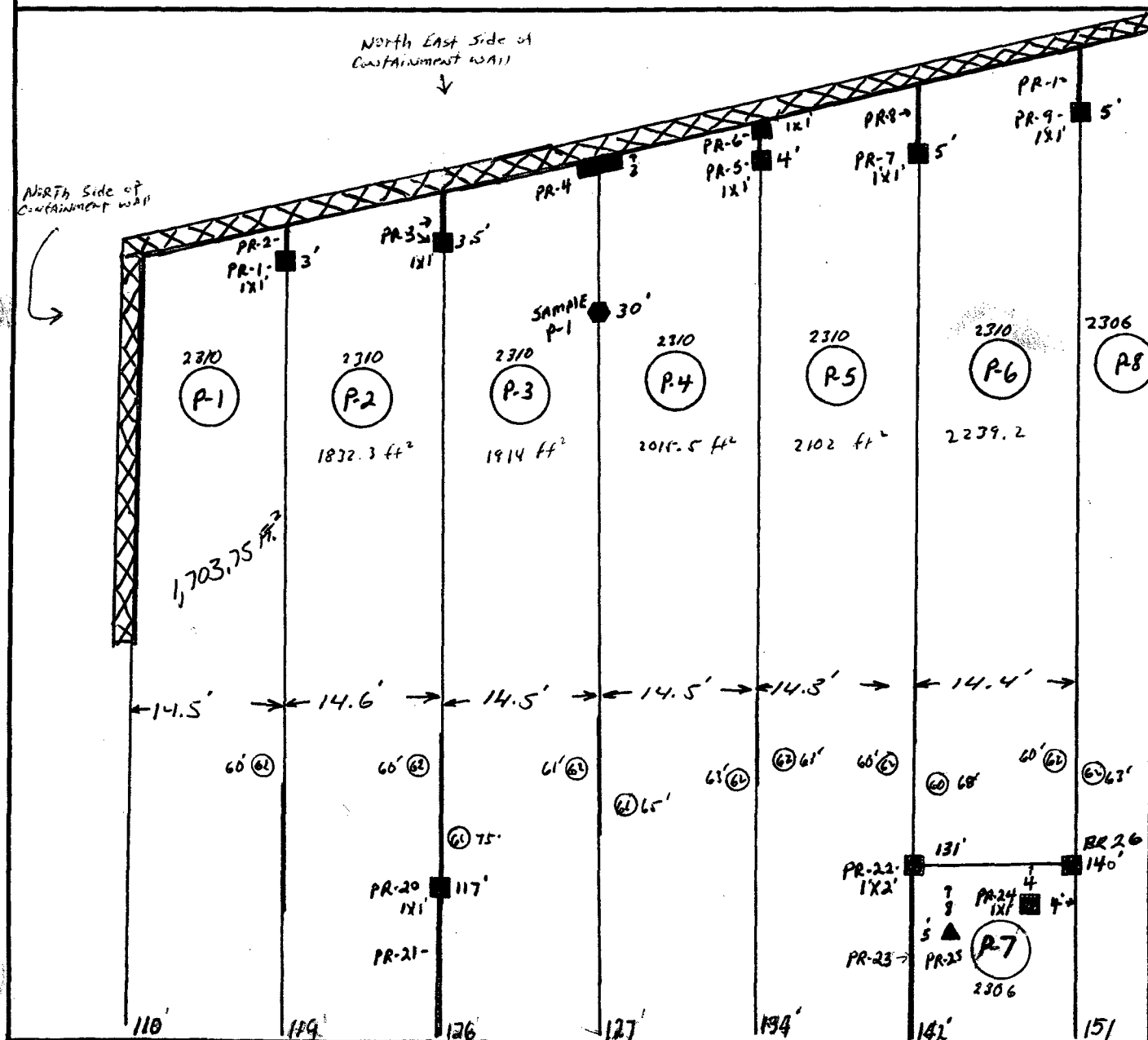
Contractor: *National Seal Company*

	PATCH		Patched		Tested		Passed
	BEAD		Beaded		Tested		Passed
	SAMPLE		Patched		Tested		Passed

QA I.D. TCB



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Boynton Beach, Florida



Trail Ridge Landfill, Inc.

Panel and Seam Repair Field Sketch

Sheet No.: 2 of

Project: Trail Ridge Landfill

Phase: I & II

Project No.: F02030

Date: (mo/dy) March 17

Year: 1992

Location: Jacksonville, Florida

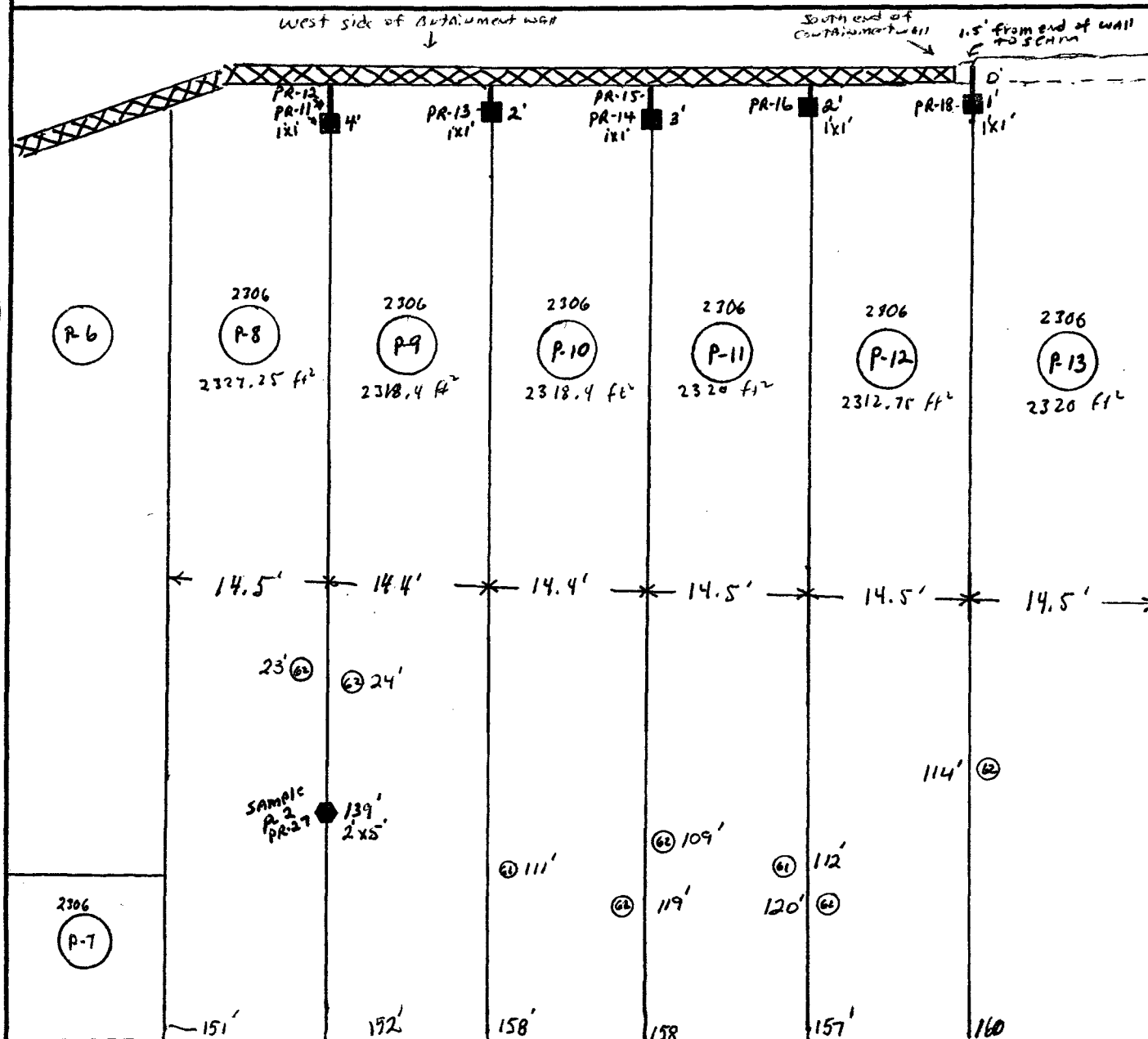
Contractor: National Seal Company

× PATCH ⊠ Patched ▣ Tested ■ Passed
△ BEAD ▲ Beaded ▲ Tested ▲ Passed
○ SAMPLE ⊕ Patched ⊖ Tested ⊖ Passed

QA I.D. TCB



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Boynton Beach, Florida



Trail Ridge Landfill, Inc.

Panel and Seam Repair Field Sketch

Sheet No.: 3 of

Project: Trail Ridge Landfill

Phase: I & II

Project No.: FQ2030

Date: (mo/dy) March 15 17

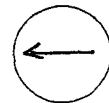
Year: 1992

Location: Jacksonville, Florida

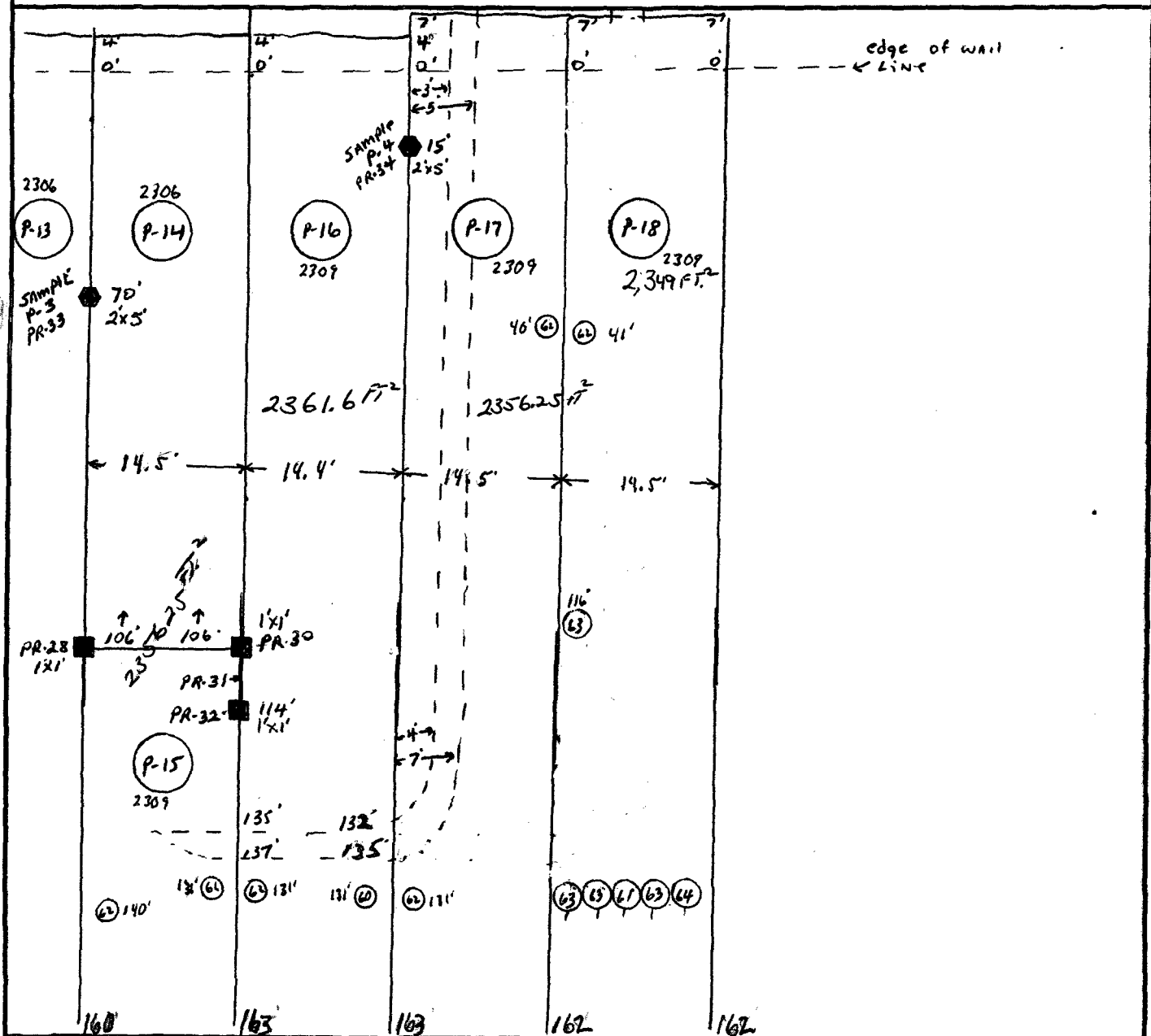
Contractor: National Seal Company

✕ PATCH	⊠ Patched	▣ Tested	■ Passed
△ BEAD	⚠ Beaded	▲ Tested	▲ Passed
○ SAMPLE	⦶ Patched	⦶ Tested	● Passed

QA I.D. T C B



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Boynton Beach, Florida



Trail Ridge Landfill, Inc.

Panel and Seam Repair Field Sketch

Sheet No.: 4 of

Project: Trail Ridge Landfill

Phase: I & II

Project No.: FQ2030

Date: (mo/dy) March 17

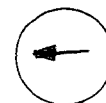
Year: 1992

Location: Jacksonville, Florida

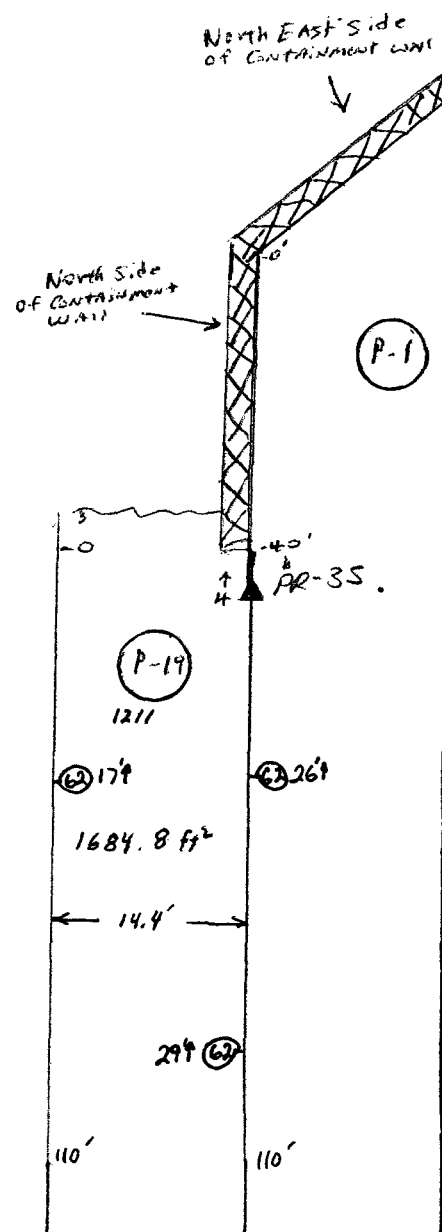
Contractor: National Seal Company

✕ PATCH	☒ Patched	▣ Tested	■ Passed
△ BEAD	▲ Beaded	▲ Tested	▲ Passed
○ SAMPLE	◑ Patched	◑ Tested	● Passed

QA I.D. TCB



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Boynton Beach, Florida



Trail Ridge Landfill, Inc.

Panel and Seam Repair Field Sketch

Sheet No.: 5 of

Project: Trail Ridge Landfill

Phase: I & II

Project No.: F02030

Date: (mo/dy) MAR 28

Year: 1992

Location: Jacksonville, Florida

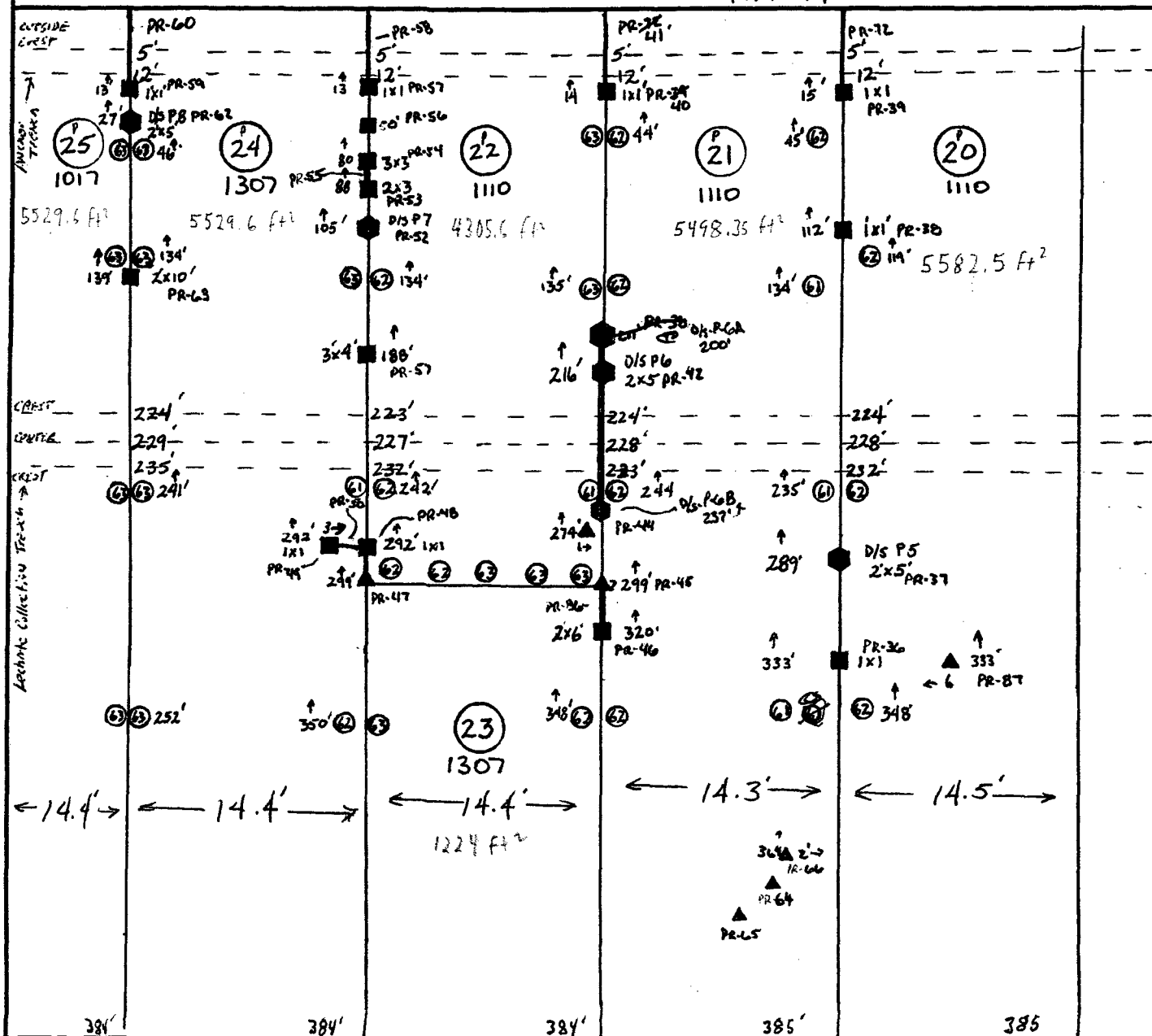
Contractor: National Seal Company

× PATCH ⊠ Patched ▣ Tested ■ Passed
△ BEAD ▲ Beaded ▲ Tested ▲ Passed
○ SAMPLE ⊕ Patched ⊖ Tested ⊖ Passed

QA I.D. CS
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Boynton Beach, Florida



Trail Ridge Landfill, Inc.

Panel and Seam Repair Field Sketch

Sheet No.: 6 of

Project: Trail Ridge Landfill

Phase: I & II

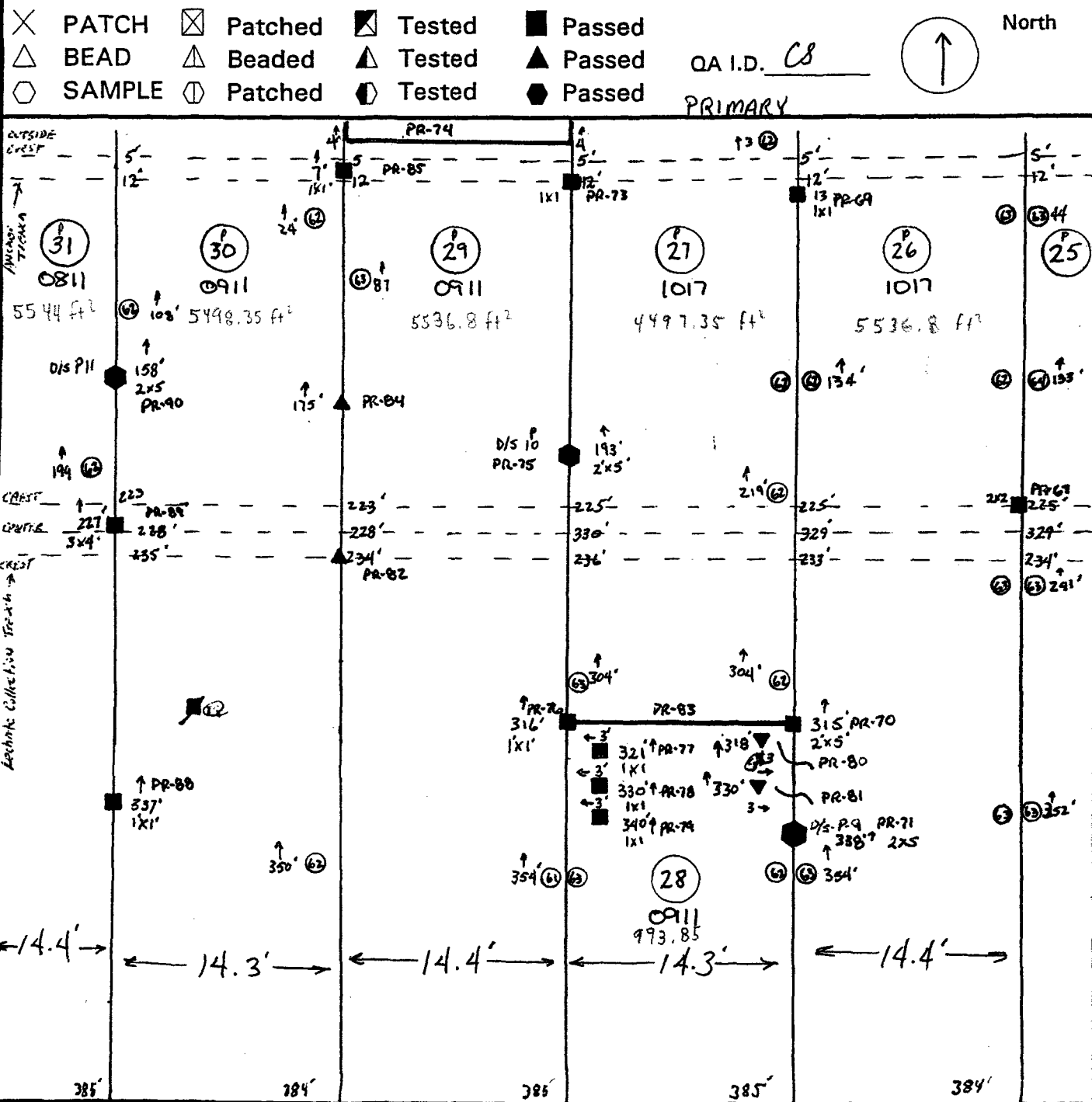
Project No.: FQ2030

Date: (mo/dy) MAR 28

Year: 1992

Location: Jacksonville, Florida

Contractor: National Seal Company





Panel and Seam Repair Field Sketch

Sheet No.: 7 of

Project: *Trail Ridge Landfill*

Phase: $I \neq II$

Project No.: FQ2030

Date: (mo/dy) April 1

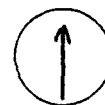
Year: 1992

Location: *Jacksonville, Florida*

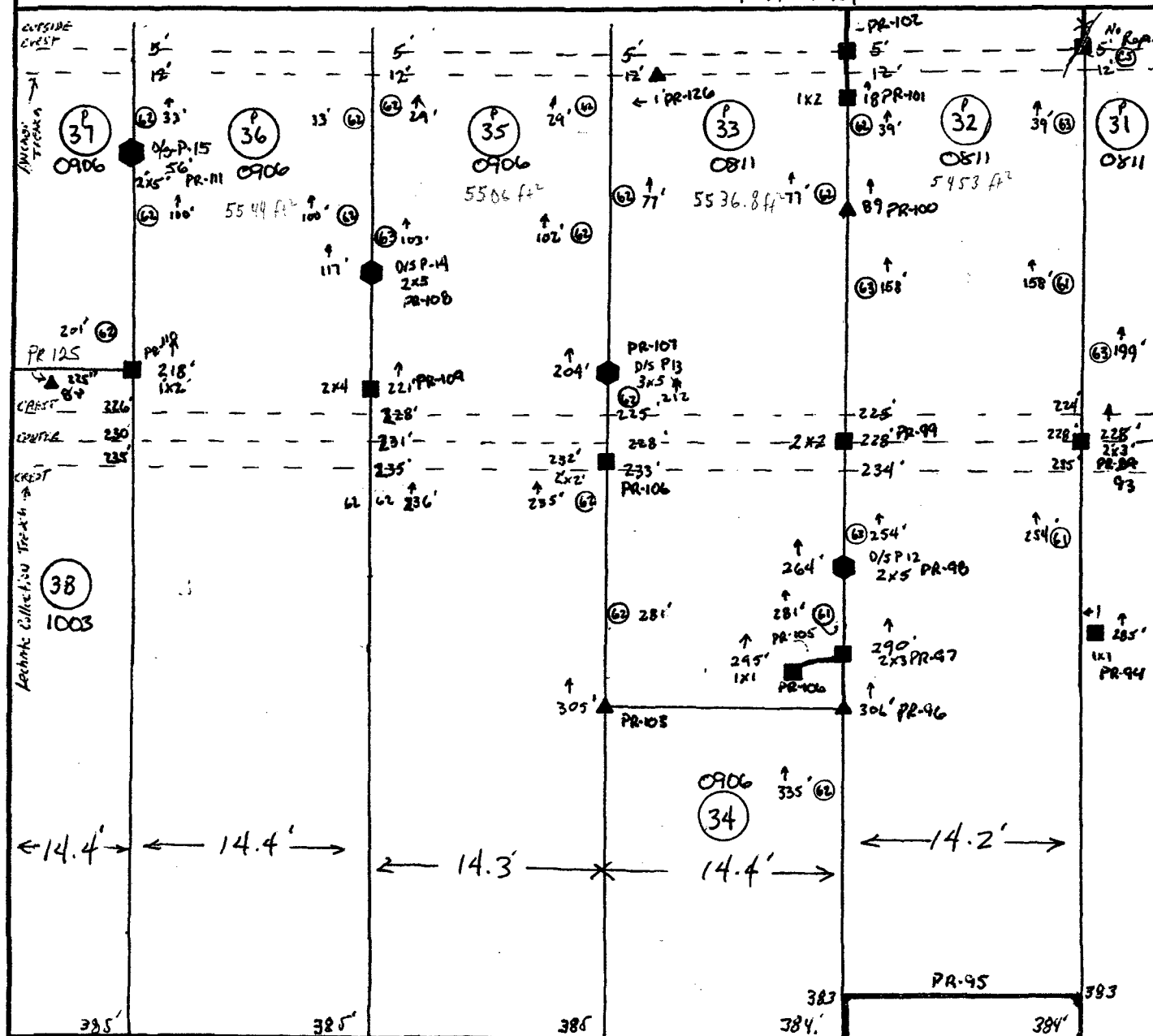
Contractor: *National Seal Company*

	PATCH		Patched		Tested		Passed
	BEAD		Beaded		Tested		Passed
	SAMPLE		Patched		Tested		Passed

QA I.D. CS
PRIMARY



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Boynton Beach, Florida



Trail Ridge Landfill, Inc.

Panel and Seam Repair Field Sketch

Sheet No.: 8 of

Project: Trail Ridge Landfill

Phase: I & II

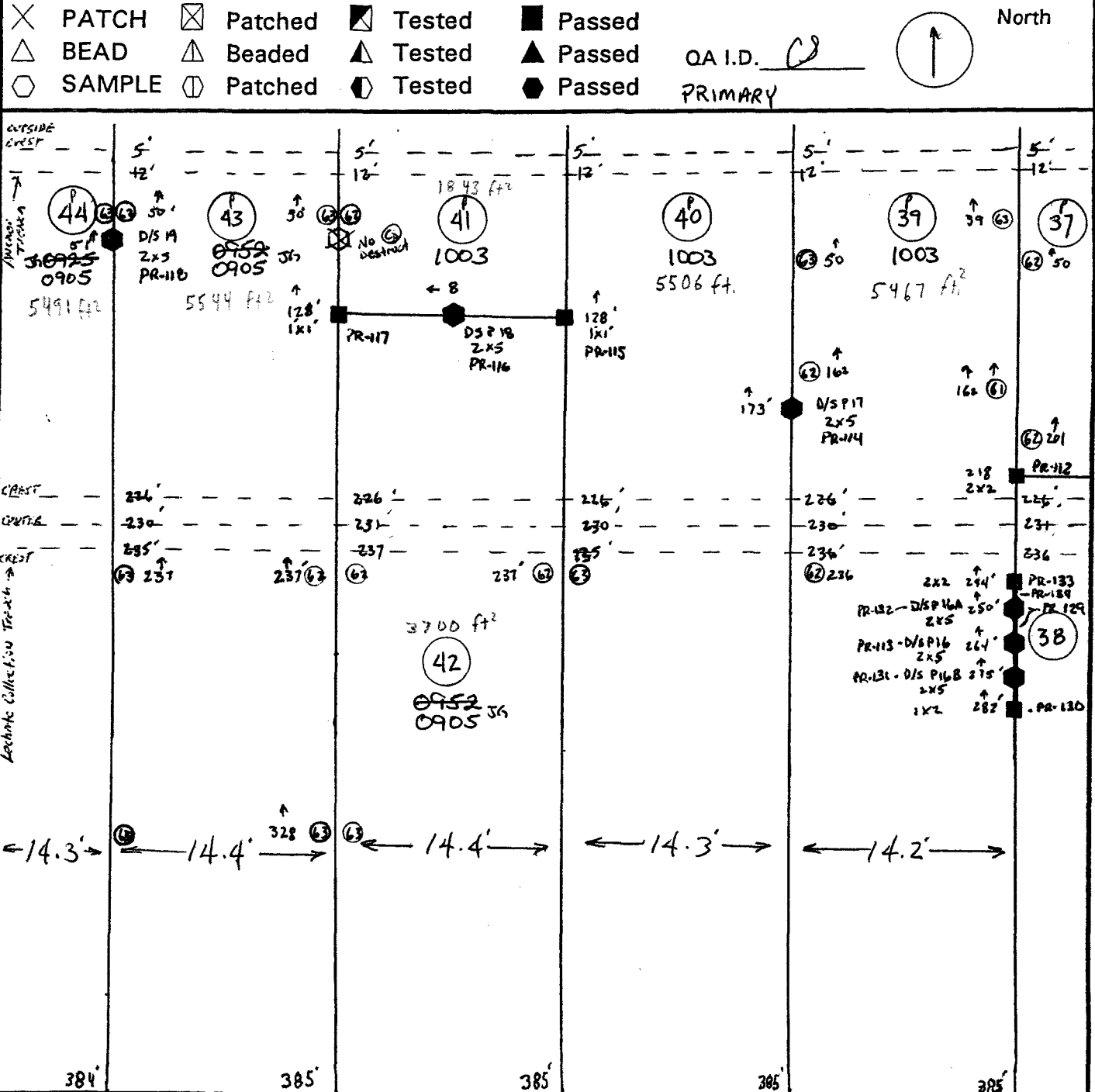
Project No.: FQ2030

Date: (mo/dy) April 1

Year: 1992

Location: Jacksonville, Florida

Contractor: National Seal Company





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Boynton Beach, Florida



Trail Ridge Landfill, Inc.

Panel and Seam Repair Field Sketch

Sheet No.: 9 of

Project: Trail Ridge Landfill

Phase: I & II

Project No.: FQ2030

Date: (mo/dy) April 1

Year: 1992

Location: Jacksonville, Florida

Contractor: National Seal Company

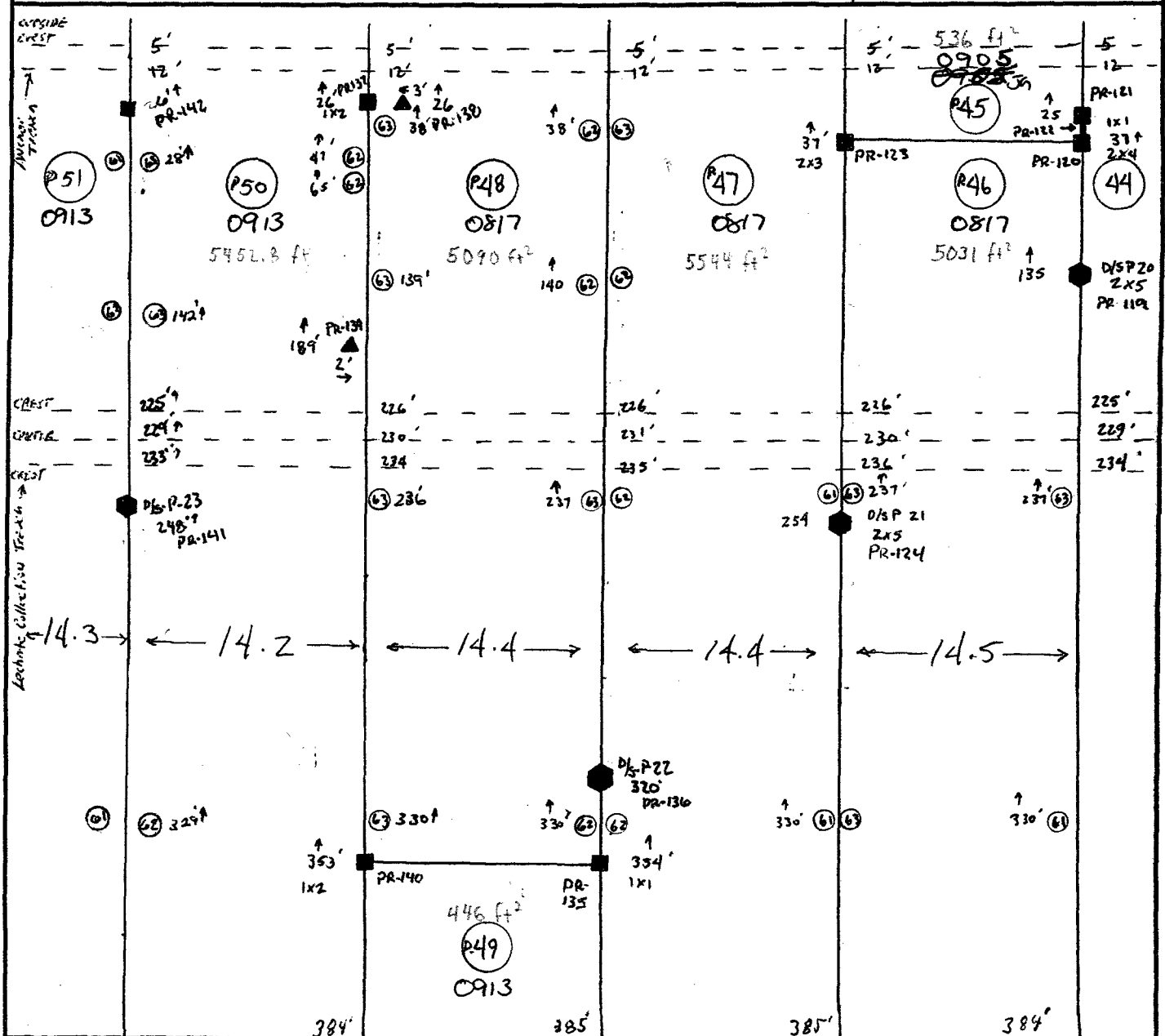
✕ PATCH ☒ Patched ☑ Tested ■ Passed
△ BEAD △ Beaded ▲ Tested ▲ Passed
○ SAMPLE ○ Patched ● Tested ● Passed

QA I.D. CS

PRIMARY



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Panel and Seam Repair Field Sketch

Sheet No.: 10 of

Project: *Trail Ridge Landfill*

Phase: I+II

Project No.: FQ2030

Date: (mo/dy) April 1

Year: 1992

Location: *Jacksonville, Florida*

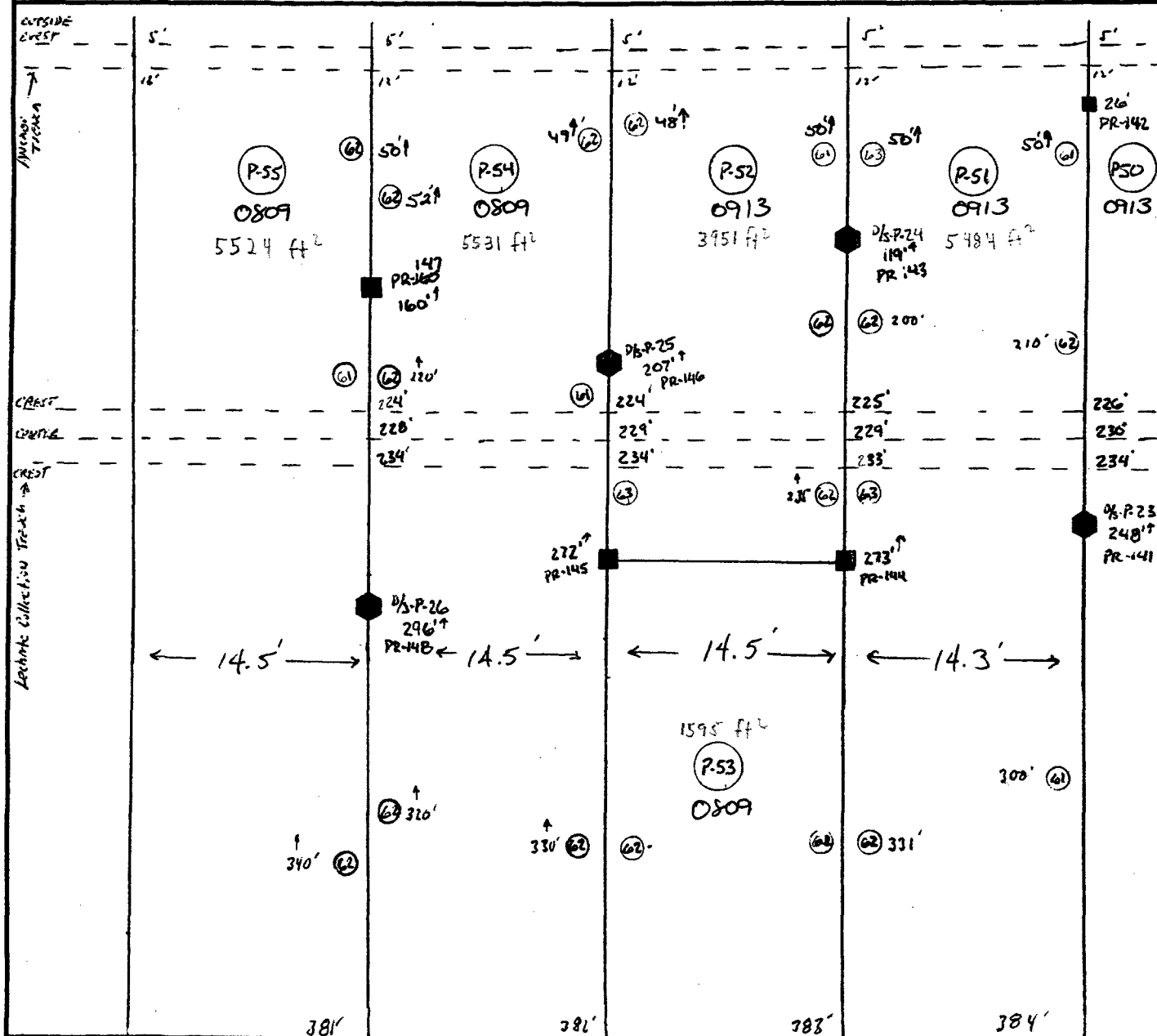
Contractor: *National Seal Company*

	PATCH		Patched		Tested		Passed
	BEAD		Beaded		Tested		Passed
	SAMPLE		Patched		Tested		Passed

QA I.D. T. Simmons



North





Panel and Seam Repair Field Sketch

Sheet No.: 11 of

Project: *Trail Ridge Landfill*

Phase: I & II

Project No.: FQ2030

Date: (mo/dy) April 14

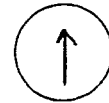
Year: 1992

Location: *Jacksonville, Florida*

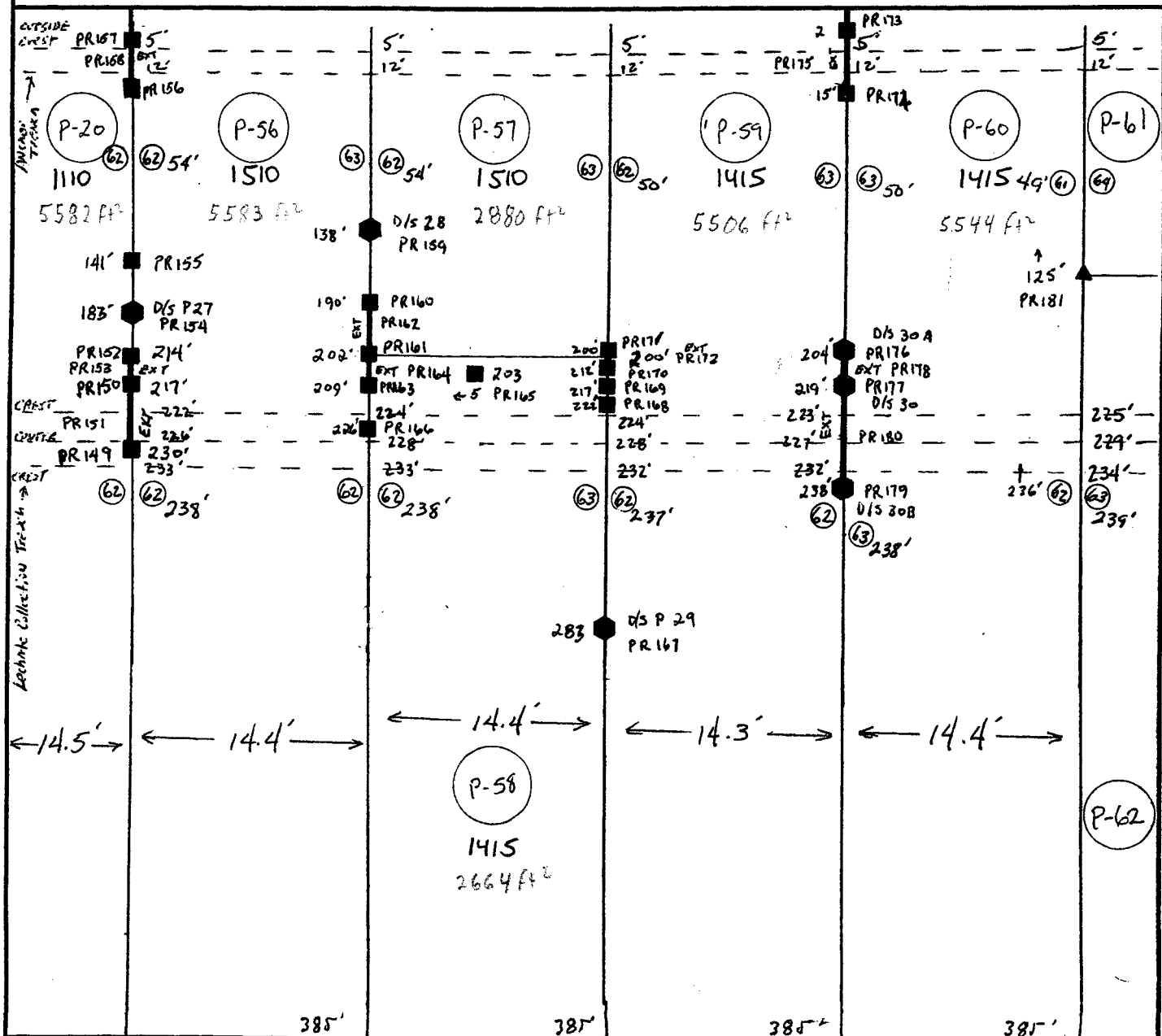
Contractor: *National Seal Company*

	PATCH		Patched		Tested		Passed
	BEAD		Beaded		Tested		Passed
	SAMPLE		Patched		Tested		Passed

QA I.D. CL



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Boynton Beach, Florida



Trail Ridge Landfill, Inc.

Panel and Seam Repair Field Sketch

Sheet No.: 12 of

Project: Trail Ridge Landfill

Phase: I & II

Project No.: FQ2030

Date: (mo/dy) April 14

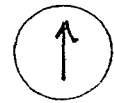
Year: 1992

Location: Jacksonville, Florida

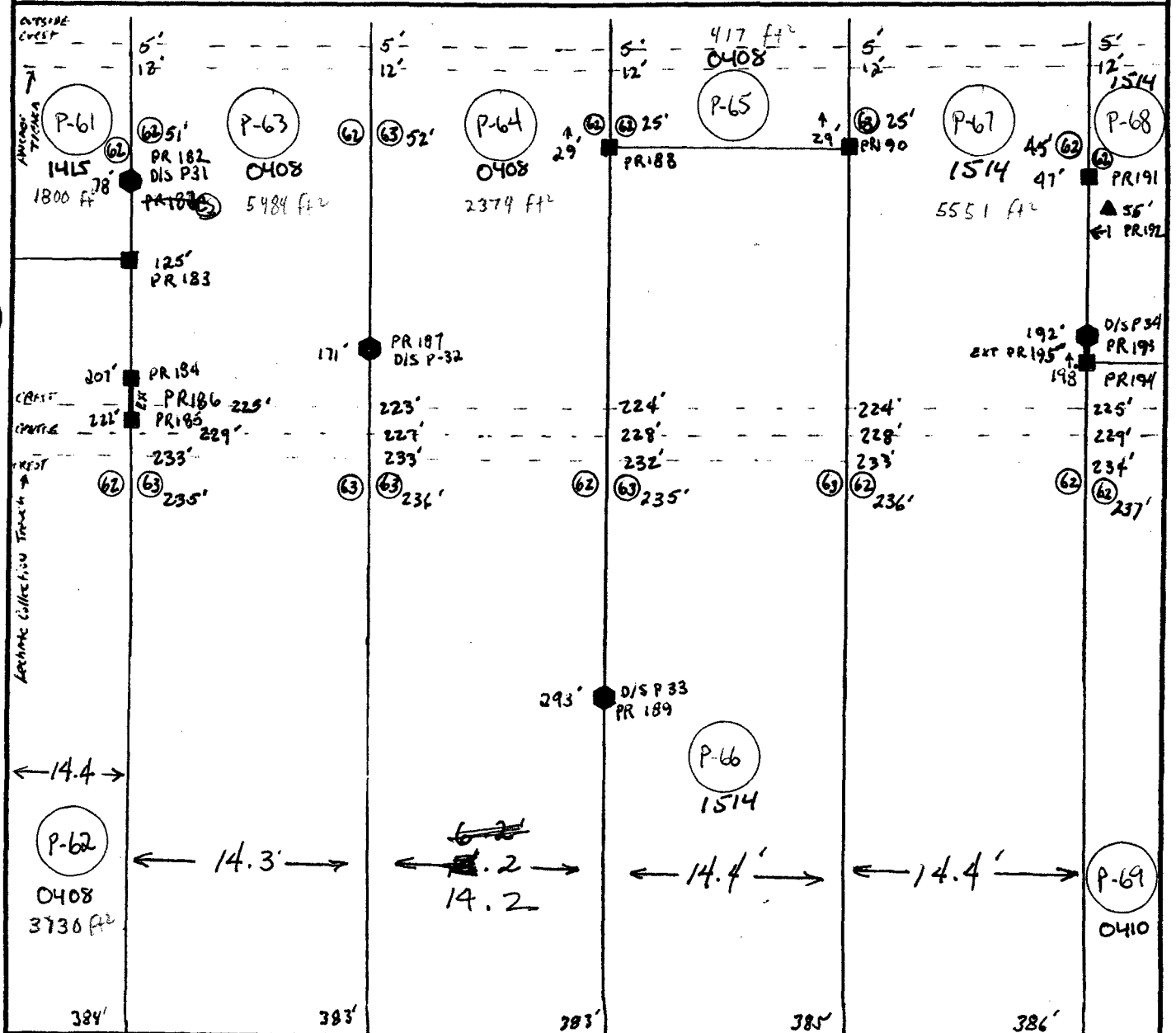
Contractor: National Seal Company

× PATCH ⊠ Patched ▣ Tested ■ Passed
△ BEAD △ Beaded ▲ Tested ▲ Passed
○ SAMPLE ⊕ Patched ⊖ Tested ● Passed

QA I.D. CS



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Boynton Beach, Florida



Trail Ridge Landfill, Inc.

Panel and Seam Repair Field Sketch

Sheet No.: 13 of

Project: Trail Ridge Landfill

Phase: I & II

Project No.: FQ2030

Date: (mo/dy) April 14

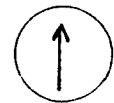
Year: 1992

Location: Jacksonville, Florida

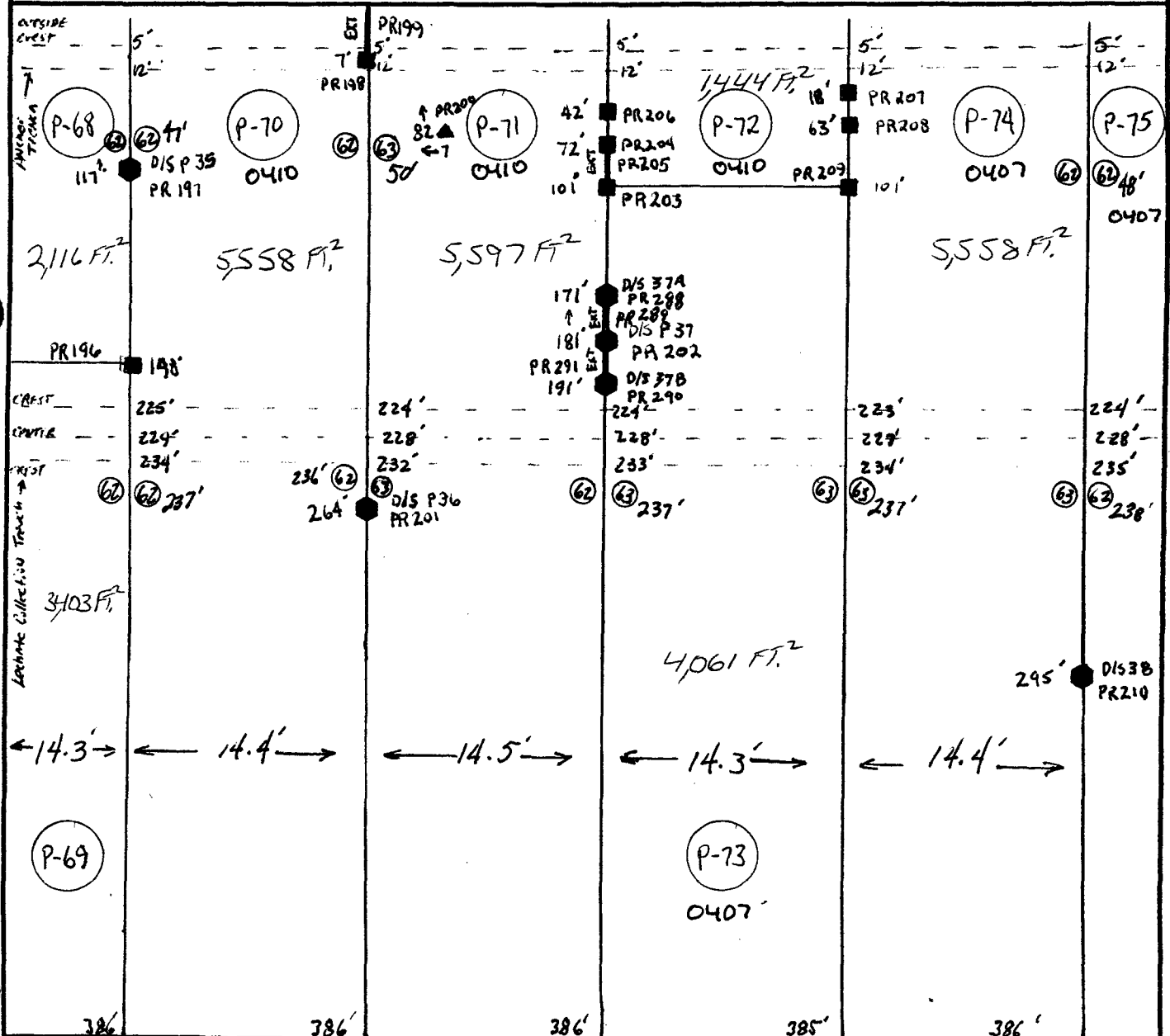
Contractor: National Seal Company

× PATCH ⊠ Patched ▣ Tested ■ Passed
△ BEAD △ Beaded ▲ Tested ▲ Passed
○ SAMPLE ⊕ Patched ◐ Tested ◐ Passed

QA I.D. CS



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Panel and Seam Repair Field Sketch

Sheet No.: 14 of

Project: *Trail Ridge Landfill*

Phase: *I & II*

Project No.: FQ2030

Date: (mo/dy) April 14

Year: 1992

Location: *Jacksonville, Florida*

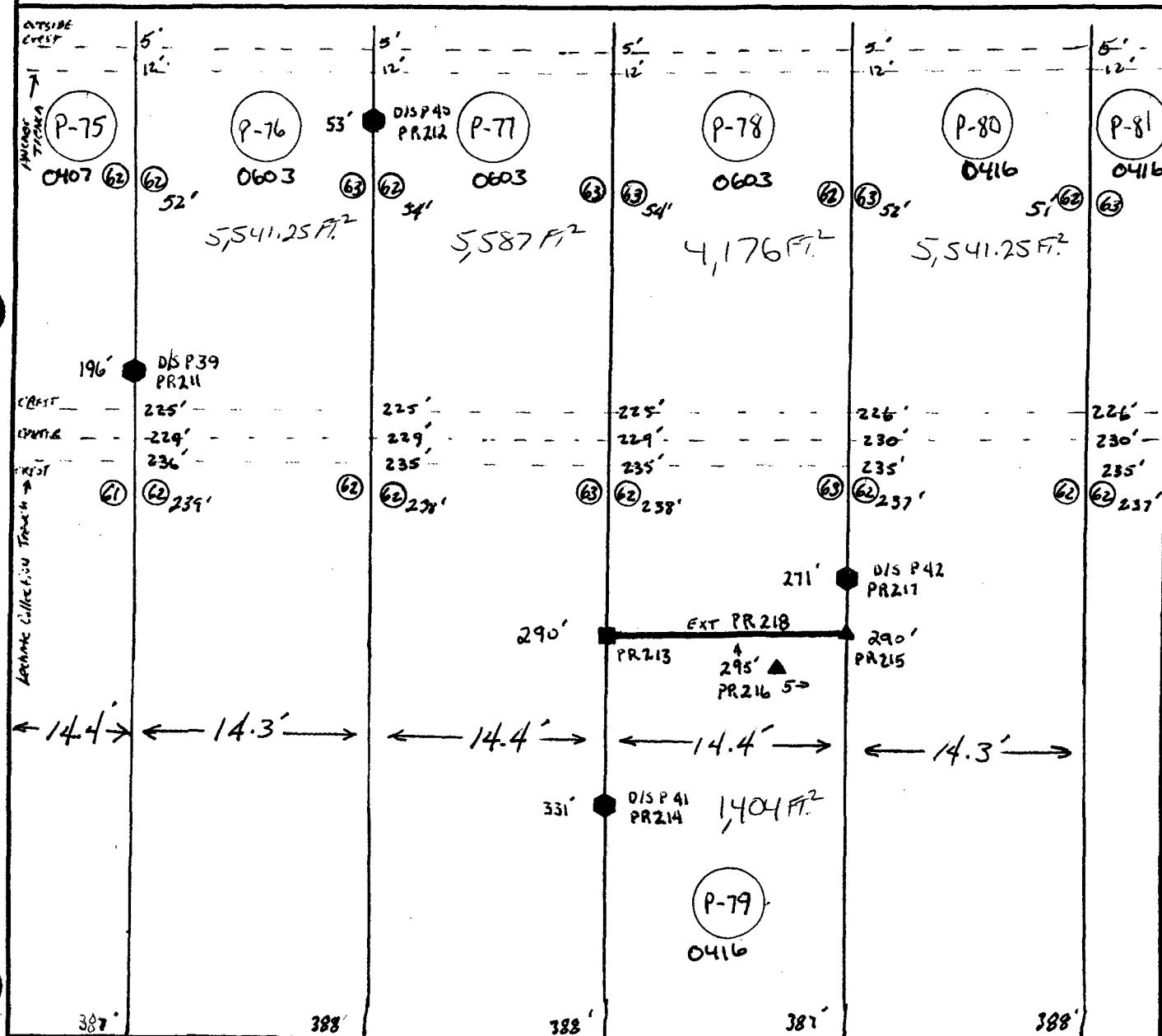
Contractor: *National Seal Company*

	PATCH		Patched		Tested		Passed
	BEAD		Beaded		Tested		Passed
	SAMPLE		Patched		Tested		Passed

QA I.D. CS



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**Trail Ridge Landfill, Inc.**

Panel and Seam Repair Field Sketch

Sheet No.: 15 of

Project: *Trail Ridge Landfill*

Phase: *I & II*

Project No.: FQ2030

Date: (mo/dy) April 14

Year: 1992

Location: *Jacksonville, Florida*

Contractor: *National Seal Company*

 PATCH
  Patched
  Tested
  Passed

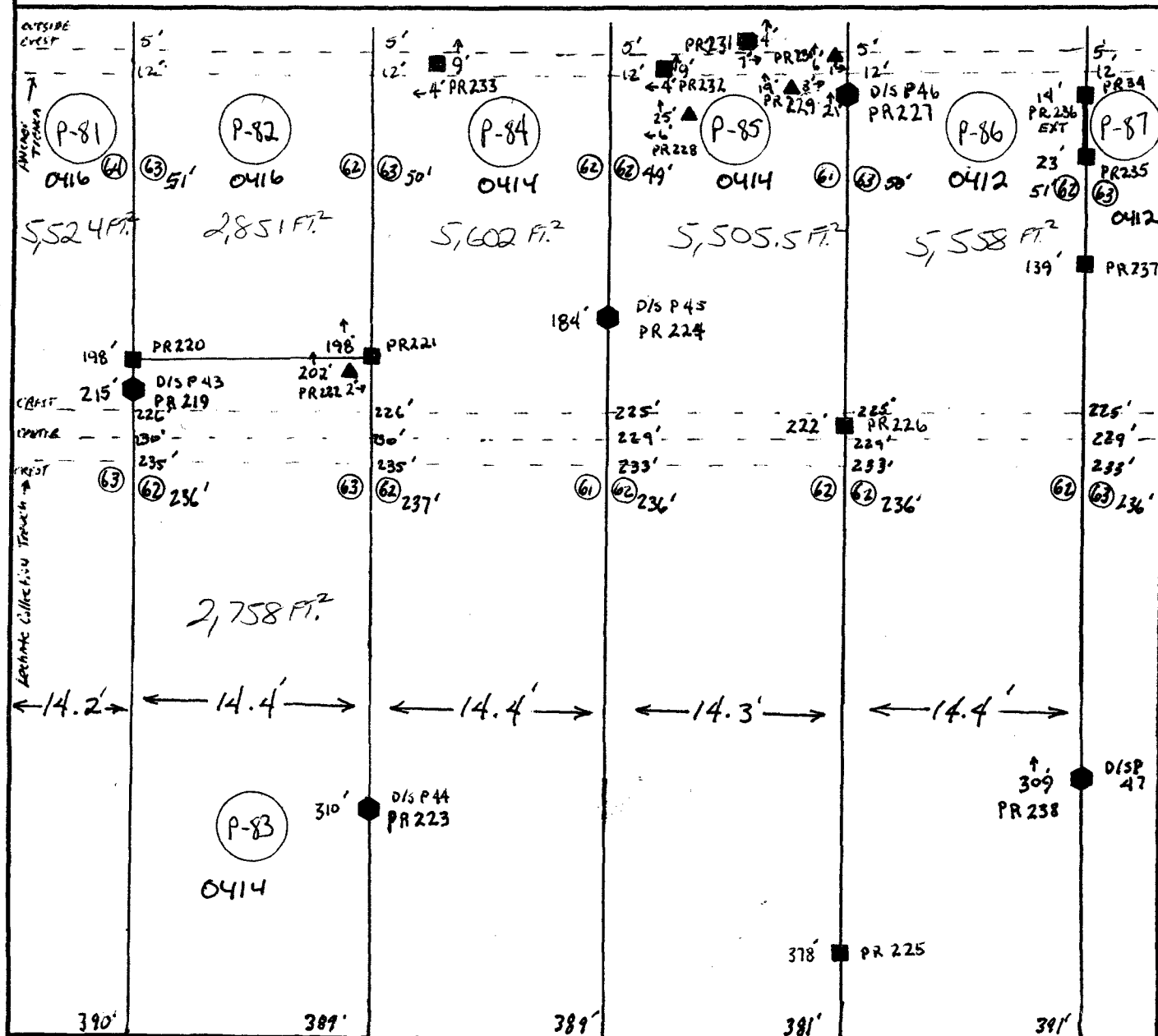
 BEAD
  Beaded
  Tested
  Passed

 SAMPLE
  Patched
  Tested
  Passed

QA I.D. CS



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Boynton Beach, Florida



Trail Ridge Landfill, Inc.

Panel and Seam Repair Field Sketch

Sheet No.: 16 of

Project: Trail Ridge Landfill

Phase: I & II

Project No.: FQ2030

Date: (mo/dy) April 15

Year: 1992

Location: Jacksonville, Florida

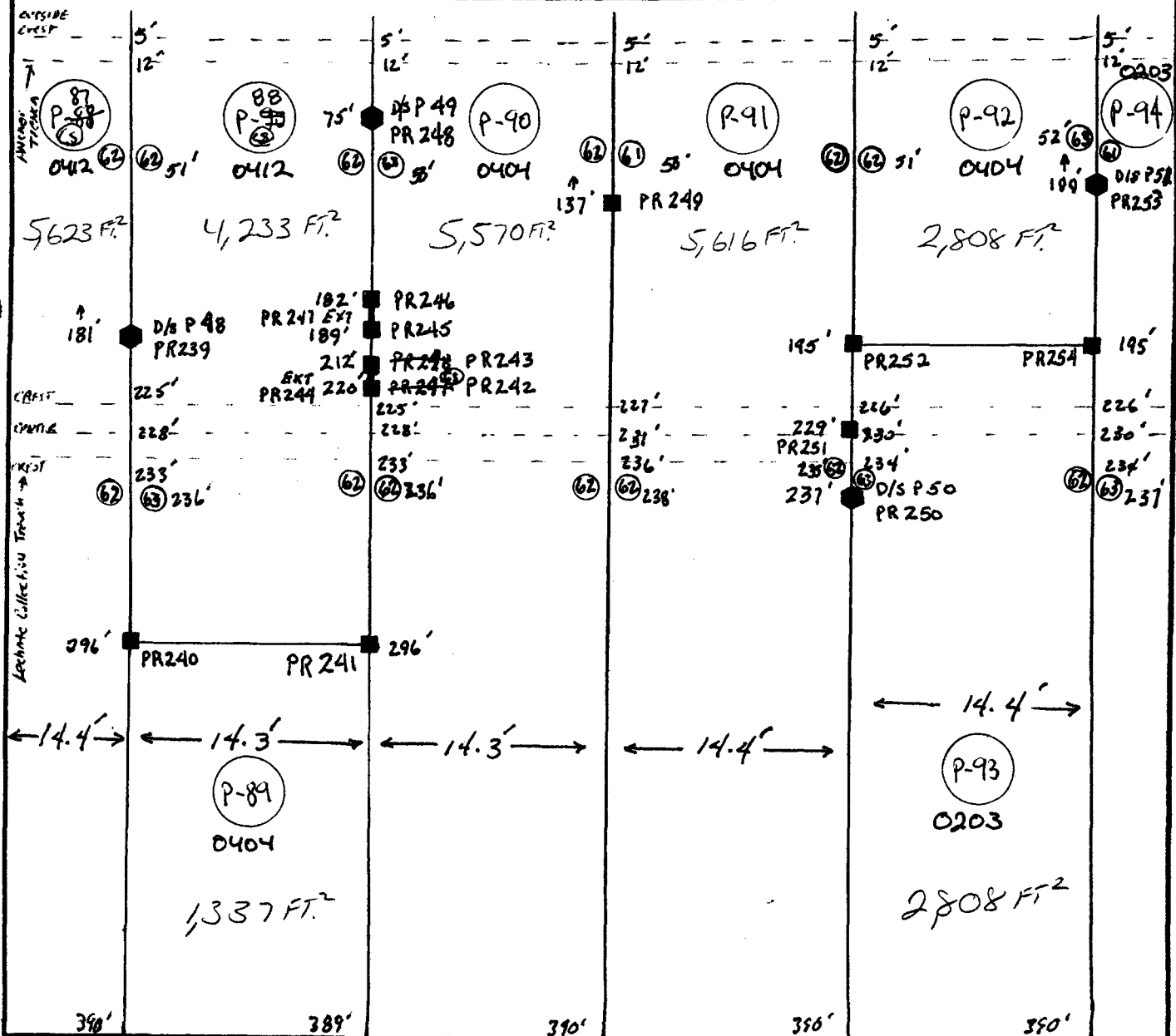
Contractor: National Seal Company

× PATCH ⊠ Patched ▣ Tested ■ Passed
△ BEAD △ Beaded ▲ Tested ▲ Passed
○ SAMPLE ⊕ Patched ◐ Tested ● Passed

QA I.D. CS



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Panel and Seam Repair Field Sketch

Sheet No.: 17 of 20

Project: *Trail Ridge Landfill*

Phase: *I & II*

Project No.: FQ2030

Date: (mo/dy) April 15

Year: 1992

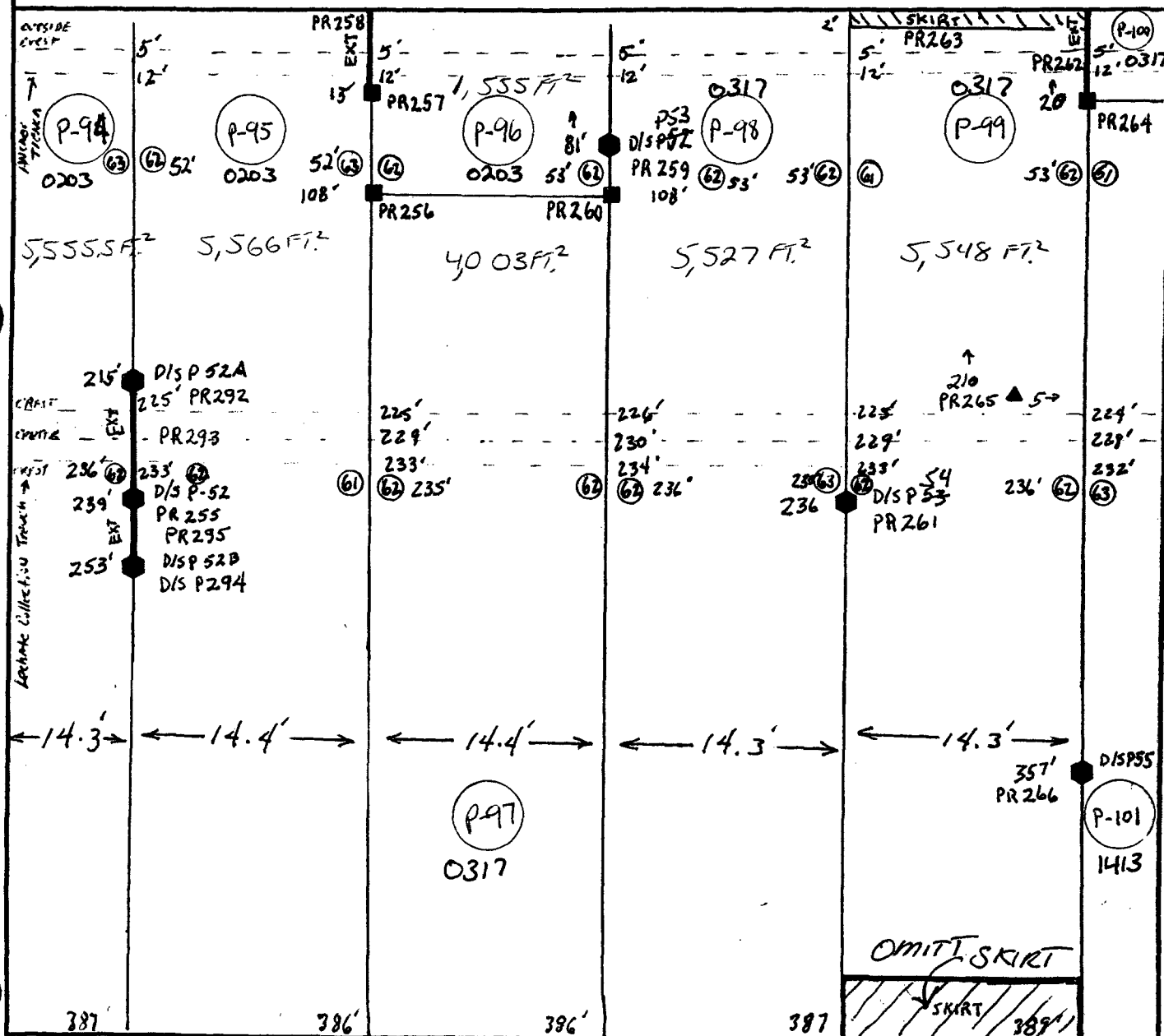
Location: *Jacksonville, Florida*

Contractor: *National Seal Company*

	PATCH		Patched		Tested		Passed
	BEAD		Beaded		Tested		Passed
	SAMPLE		Patched		Tested		Passed

QA I.D. *CS*

North





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Boynton Beach, Florida



Trail Ridge Landfill, Inc.

Panel and Seam Repair Field Sketch

Sheet No.: 18 of

Project: Trail Ridge Landfill

Phase: I & II

Project No.: FQ2030

Date: (mo/dy) April 15

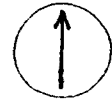
Year: 1992

Location: Jacksonville, Florida

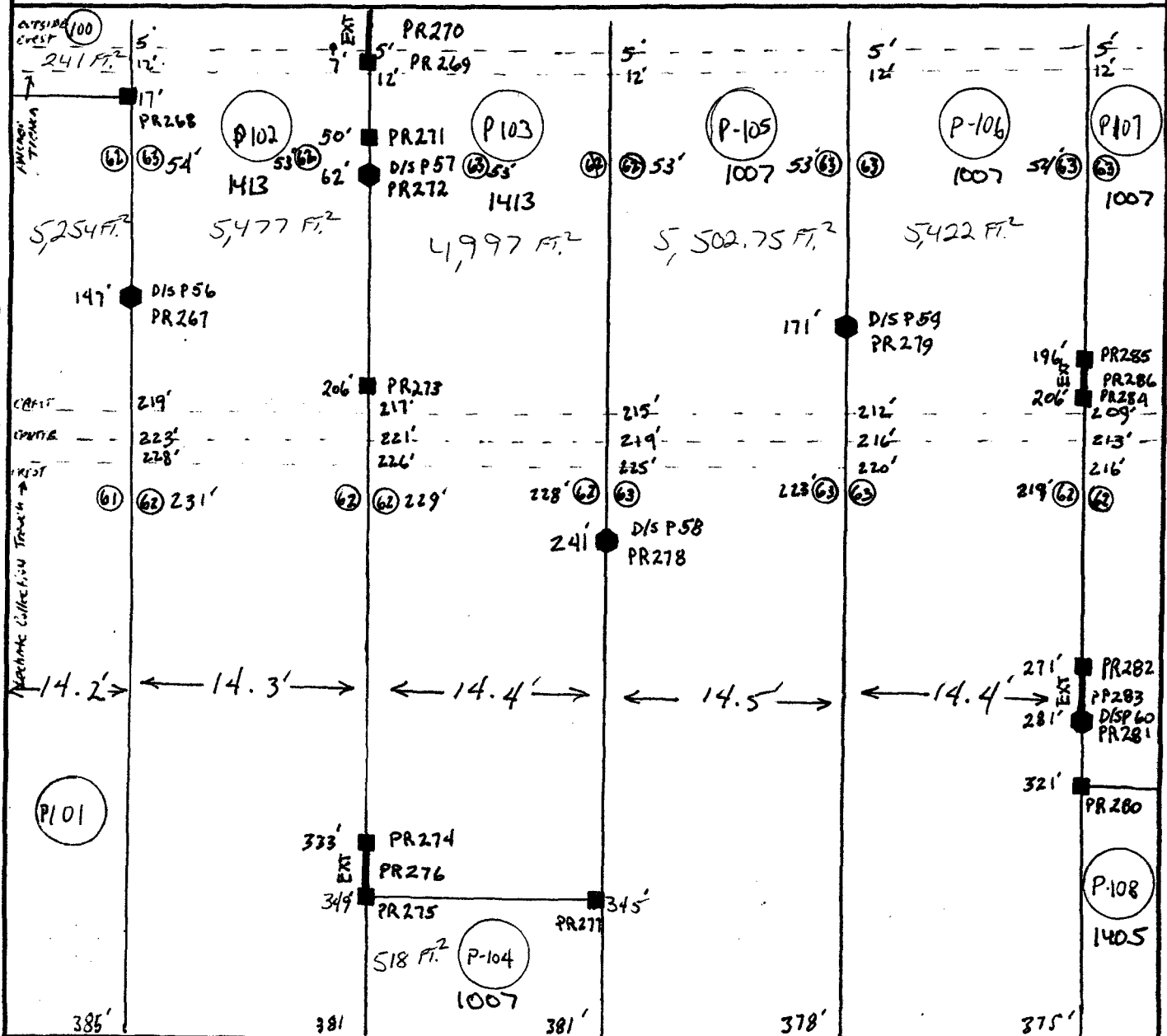
Contractor: National Seal Company

× PATCH ⊠ Patched ▣ Tested ■ Passed
△ BEAD △ Beaded ▲ Tested ▲ Passed
○ SAMPLE ⊕ Patched ⊖ Tested ● Passed

QA I.D. CS



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Boynton Beach, Florida



Trail Ridge Landfill, Inc.

Panel and Seam Repair Field Sketch

Sheet No.: 19 of

Project: Trail Ridge Landfill

Phase: I & II

Project No.: FQ2030

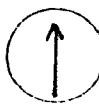
Date: (mo/day) April 15

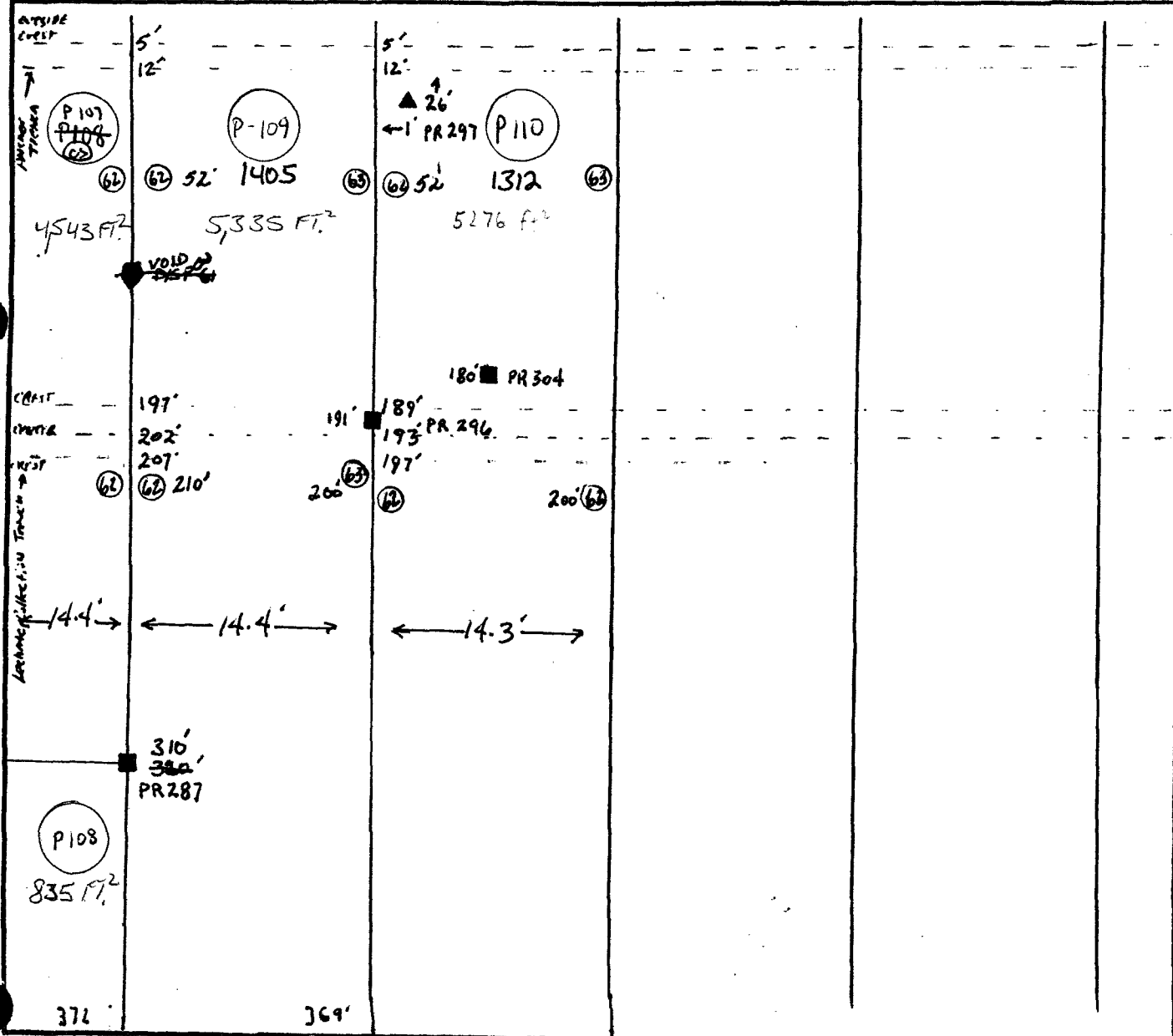
Year: 1992

Location: Jacksonville, Florida

Contractor: National Seal Company

✗ PATCH	☒ Patched	☑ Tested	■ Passed
△ BEAD	△ Beaded	▲ Tested	▲ Passed
○ SAMPLE	① Patched	② Tested	● Passed

QA I.D. CS  North





Panel and Seam Repair Field Sketch

Sheet No.: 20 of

Project: *Trail Ridge Landfill*

Phase: I + II

Project No.: FQ2030

Date: (mo/dy) 4/16

Year: 1992

Location: *Jacksonville, Florida*

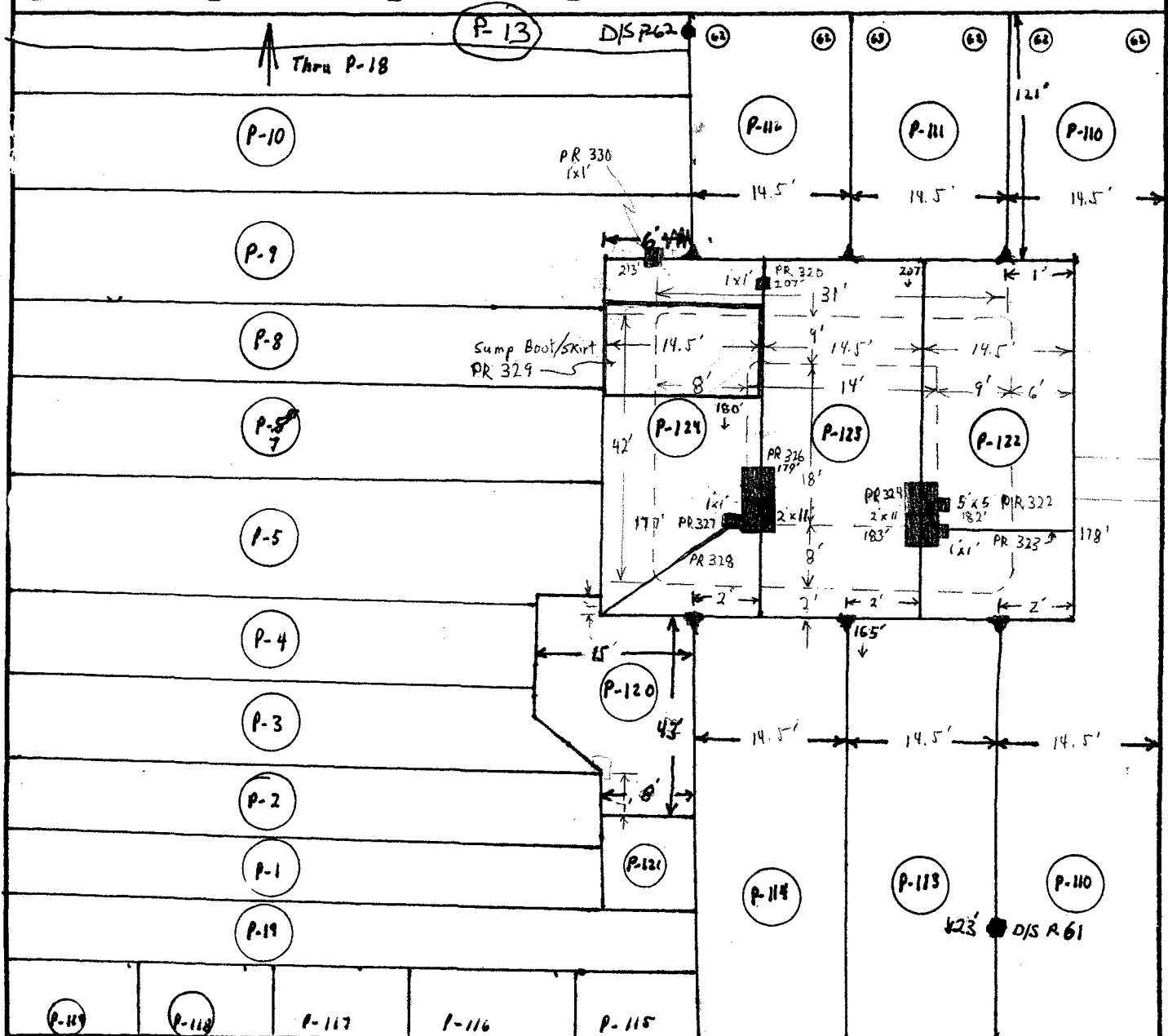
Contractor: *National Seal Company*

	PATCH		Patched		Tested		Passed
	BEAD		Beaded		Tested		Passed
	SAMPLE		Patched		Tested		Passed

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Boynton Beach, Florida



Trail Ridge Landfill, Inc.

Panel and Seam Repair Field Sketch

Sheet No.: 21 of

Project: Trail Ridge Landfill

Phase:

Project No.: FQ2030

Date: (mo/dy) 4/16

Year: 1992

Location: Jacksonville, Florida

Contractor: National Seal Company

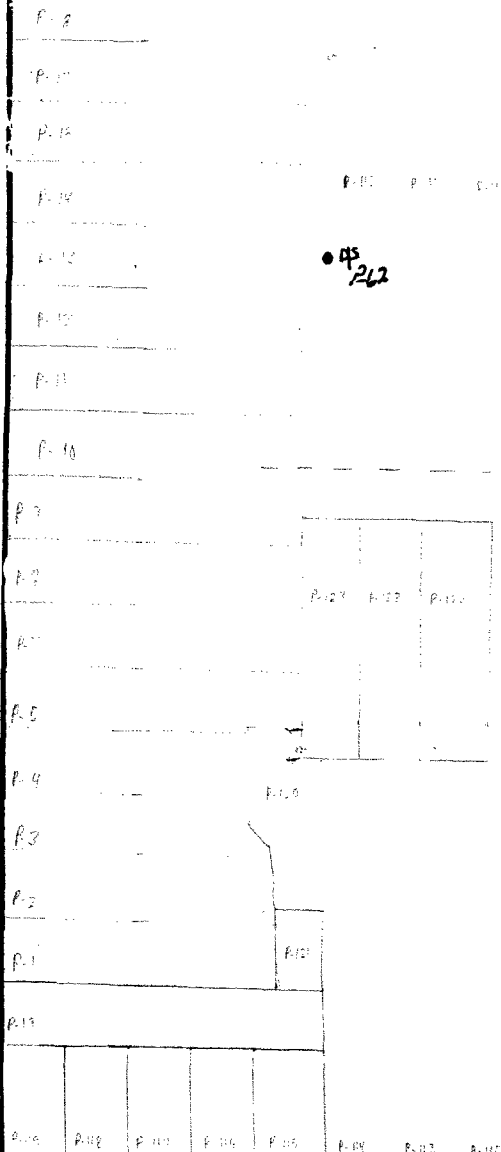
✕ PATCH	☒ Patched	☑ Tested	■ Passed
△ BEAD	△ Beaded	▲ Tested	▲ Passed
○ SAMPLE	○ Patched	● Tested	● Passed

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KEY SHEET





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Trail Ridge Landfill, Inc.

Panel and Seam Repair Field Sketch

Sheet No.: 22 of

Project: Trail Ridge Landfill

Phase: I + II

Project No.: FQ2030

Date: (mo/dy) 4/18

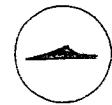
Year: 1992

Location: Jacksonville, Florida

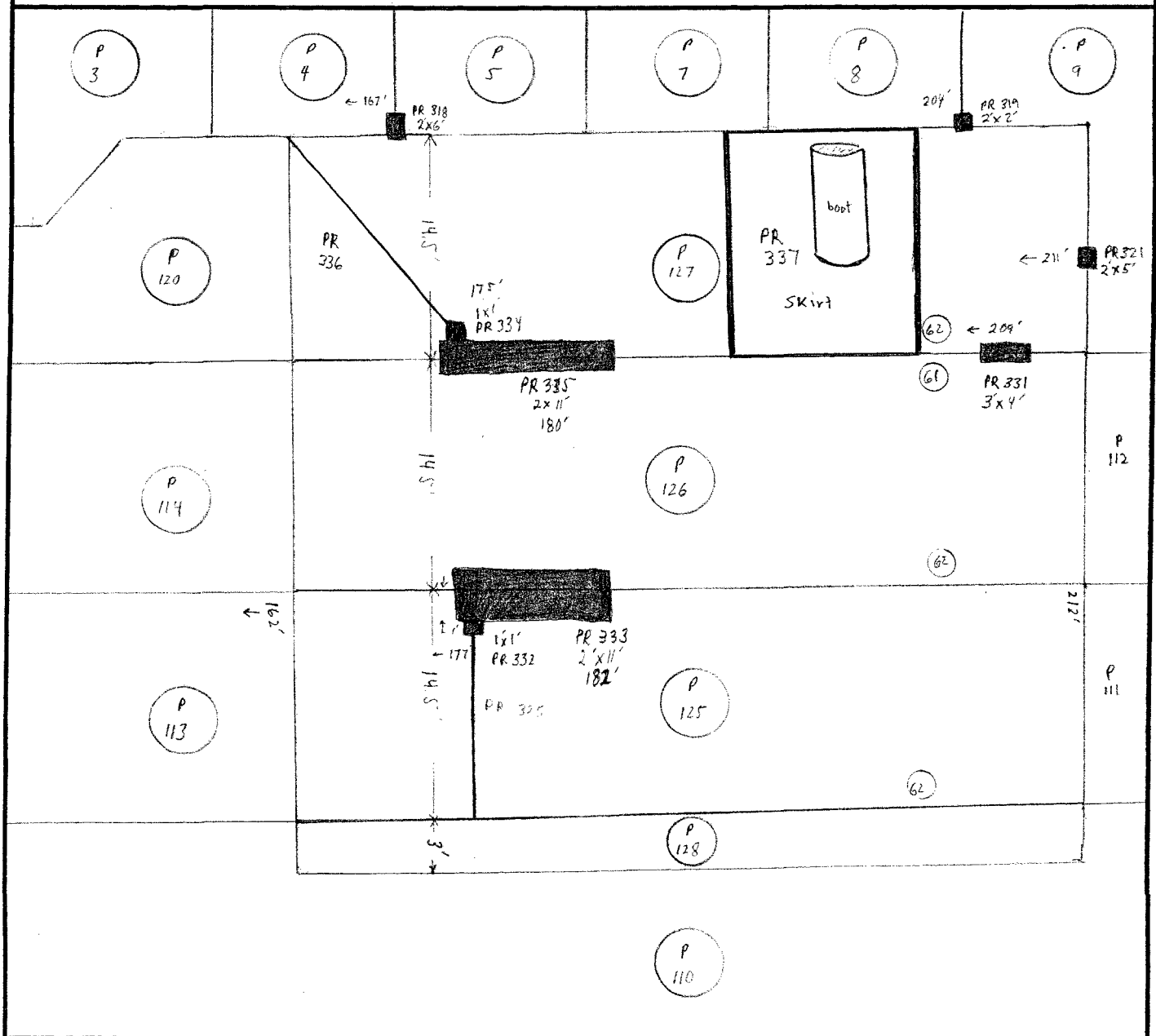
Contractor: National Seal Company

× PATCH ⊠ Patched ▣ Tested ■ Passed
△ BEAD △ Beaded ▲ Tested ▲ Passed
○ SAMPLE ○ Patched ○ Tested ○ Passed

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* Note: This is the 3rd layer 60 mil HDPE. This layer overlaps
P-122, P-123, P-124

PANSHANKLES



Panel and Seam Repair Field Sketch:

Sheet No.: 23 of

Project: *Trail Ridge Landfill*

Phase: *I + II*

Project No.: FQ2030

Date: (mo/dy) APR 23

Year: 1992

Location: *Jacksonville, Florida*

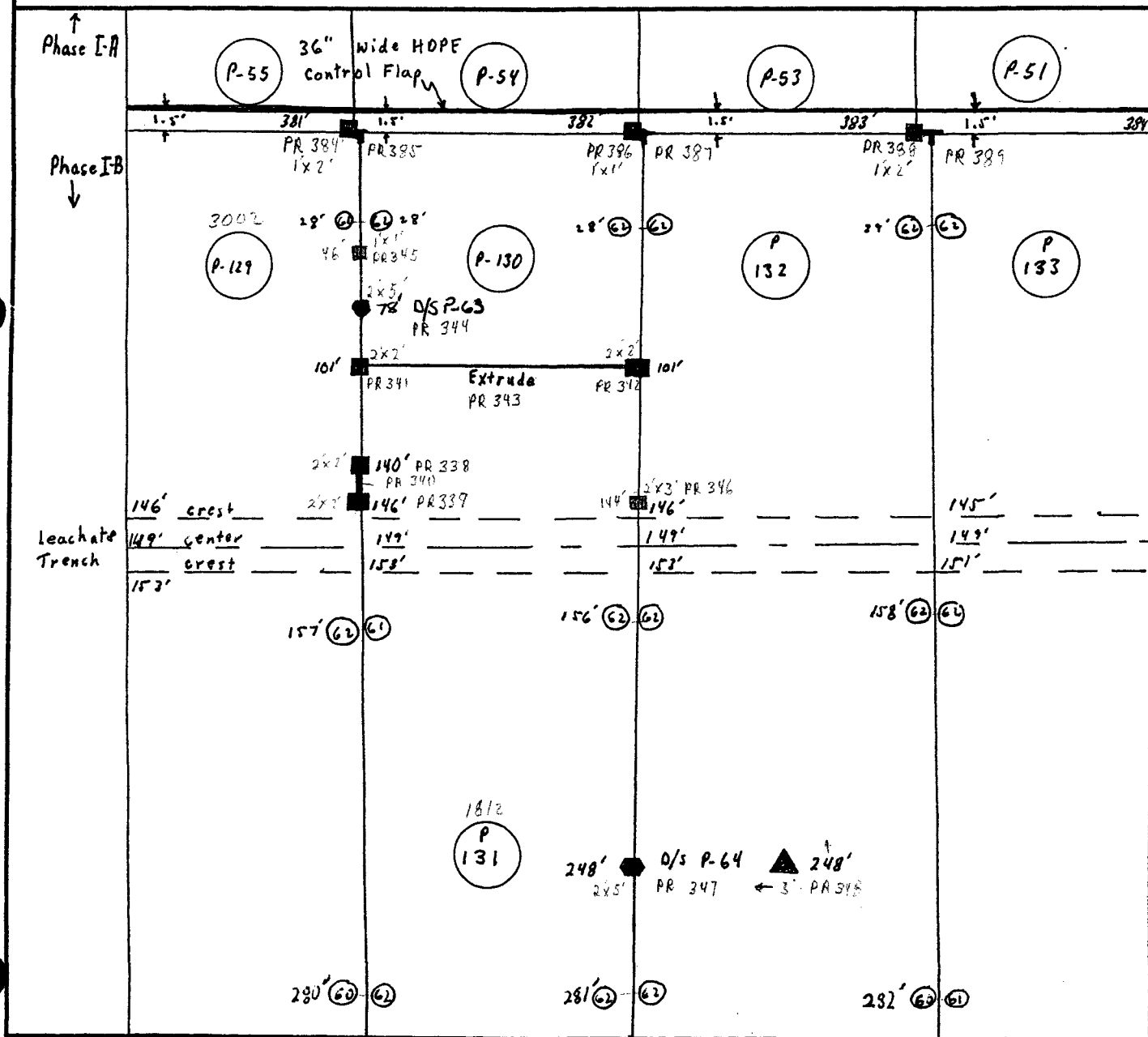
Contractor: *National Seal Company*

	PATCH		Patched		Tested		Passed
	BEAD		Beaded		Tested		Passed
	SAMPLE		Patched		Tested		Passed

QA I.D. BT



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Panel and Seam Repair Field Sketch

Sheet No.: 24 of

Project: *Trail Ridge Landfill*

Phase: I & II

Project No.: FQ2030

Date: (mo/dy) APR 23

Year: 1992

Location: *Jacksonville, Florida*

Contractor: *National Seal Company*

 PATCH
  Patched
  Tested
  Passed

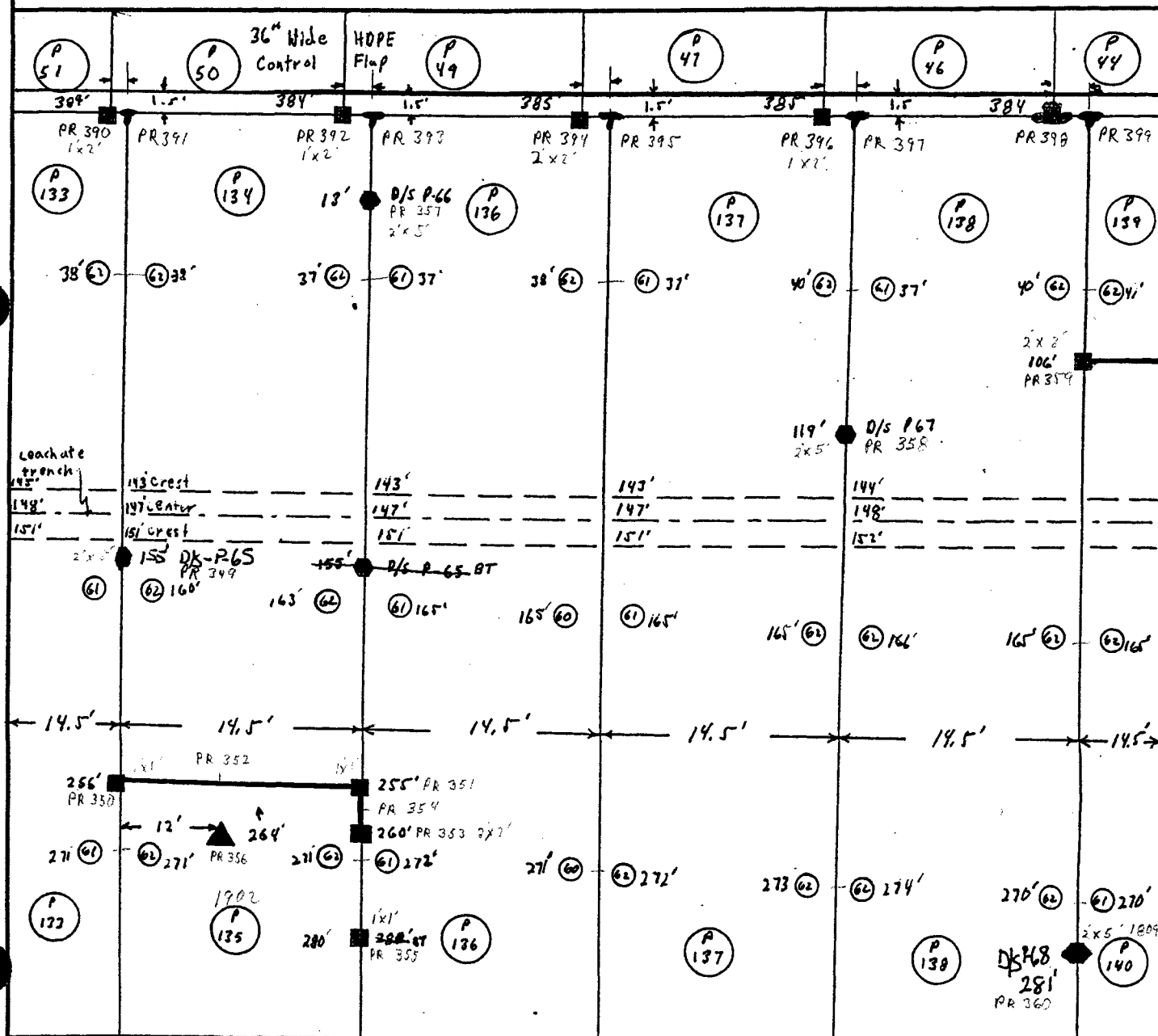
 BEAD
  Beaded
  Tested
  Passed

 SAMPLE
  Patched
  Tested
  Passed

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Trail Ridge Landfill, Inc.

Panel and Seam Repair Field Sketch

Sheet No.: 25 of

Project: Trail Ridge Landfill

Phase: I + II

Project No.: FQ2030

Date: (moldy) APR 24

Year: 1992

Location: Jacksonville, Florida

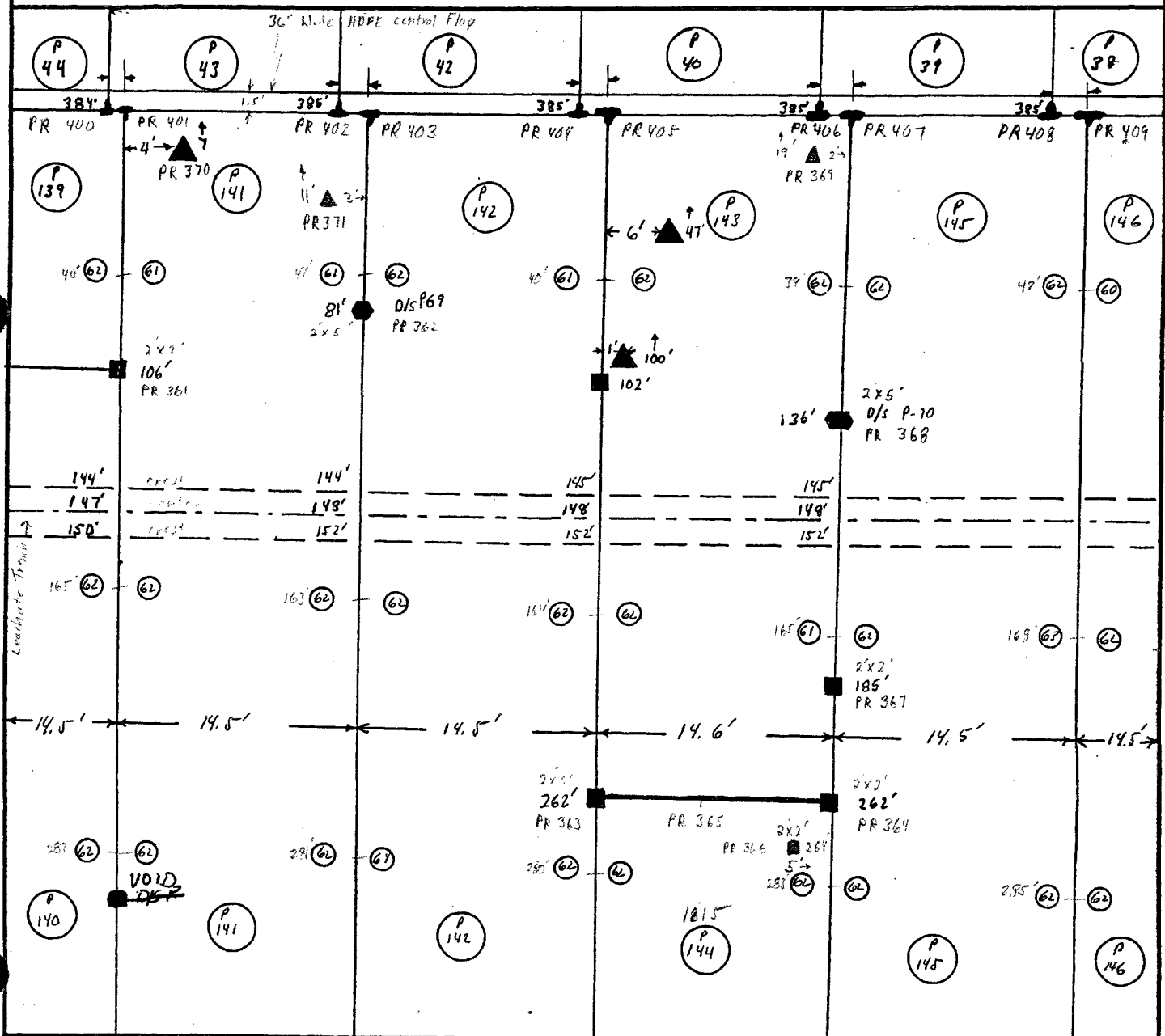
Contractor: National Seal Company

× PATCH ⊠ Patched ▣ Tested ■ Passed
△ BEAD ⊡ Beaded ▲ Tested ▲ Passed
○ SAMPLE ⊞ Patched ⊞ Tested ● Passed

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Trail Ridge Landfill, Inc.

Panel and Seam Repair Field Sketch

Sheet No.: 26 of

Project: Trail Ridge Landfill

Phase: I + II

Project No.: FQ2030

Date: (mo/dy) APR 24

Year: 1992

Location: Jacksonville, Florida

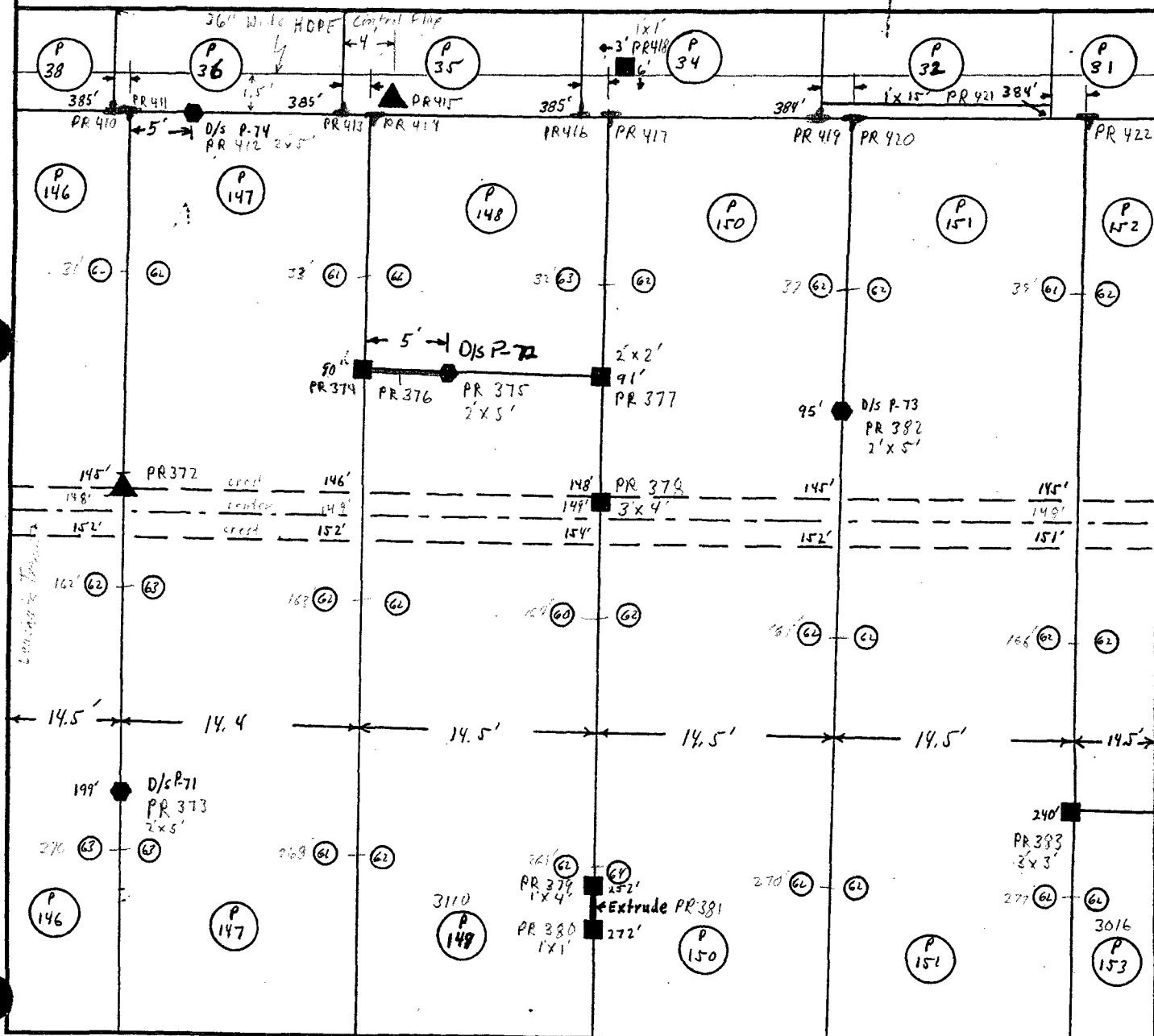
Contractor: National Seal Company

✕ PATCH ⊠ Patched ▣ Tested ■ Passed
△ BEAD △ Beaded ▲ Tested ▲ Passed
○ SAMPLE ⊕ Patched ⊕ Tested ⊕ Passed

QA I.D. RT



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Panel and Seam Repair Field Sketch

Sheet No.: 27 of

Project: *Trail Ridge Landfill*

Phase: I + II

Project No.: FQ2030

Date: (mo/dy) APR 24

Year: 1992

Location: *Jacksonville, Florida*

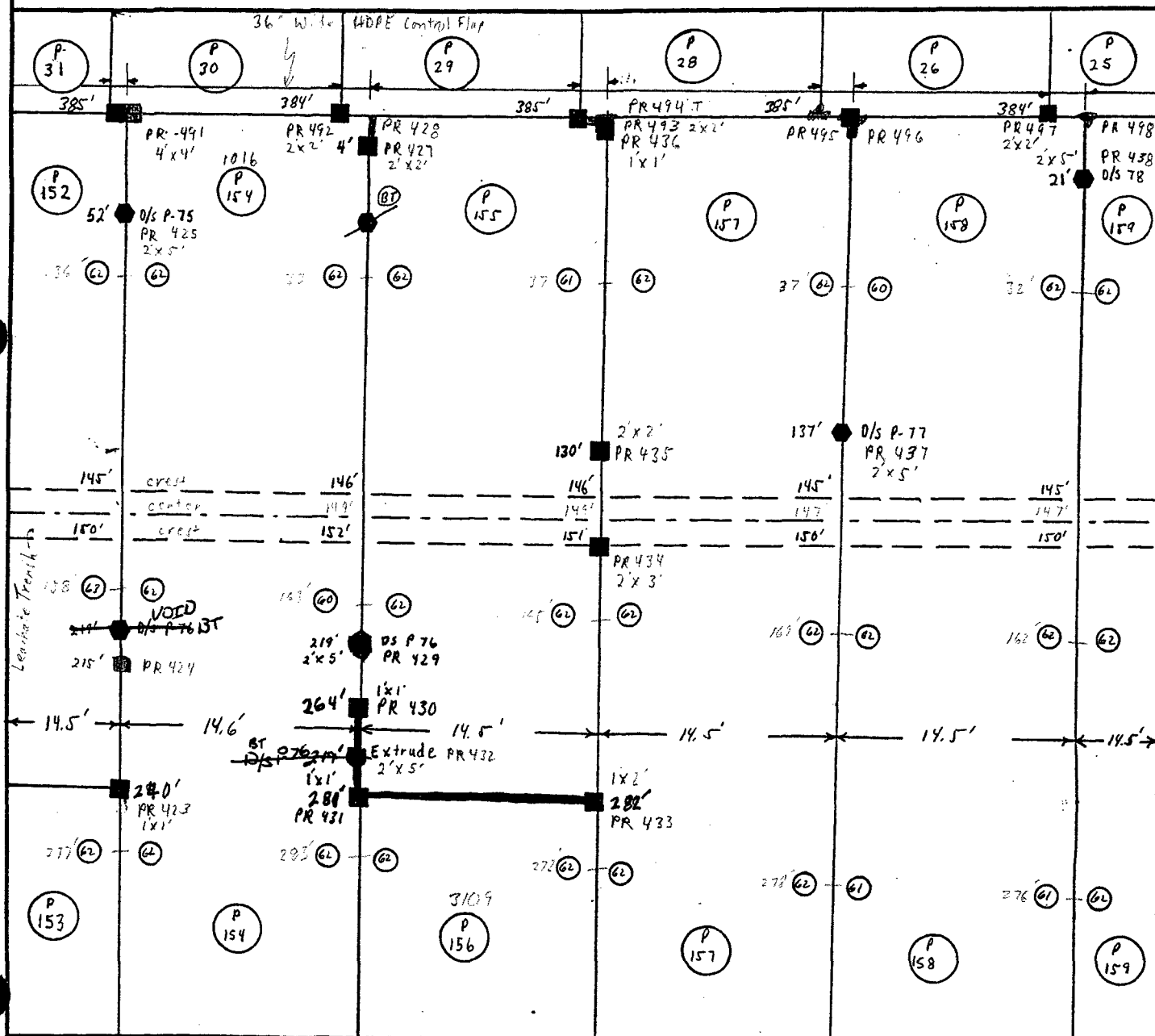
Contractor: *National Seal Company*

	PATCH		Patched		Tested		Passed
	BEAD		Beaded		Tested		Passed
	SAMPLE		Patched		Tested		Passed

QA I.D. BT



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Panel and Seam Repair Field Sketch

Sheet No.: 25 of

Project: *Trail Ridge Landfill*

Phase: I + II

Project No.: FQ2030

Date: (mo/dy) APR 24

Year: 1992

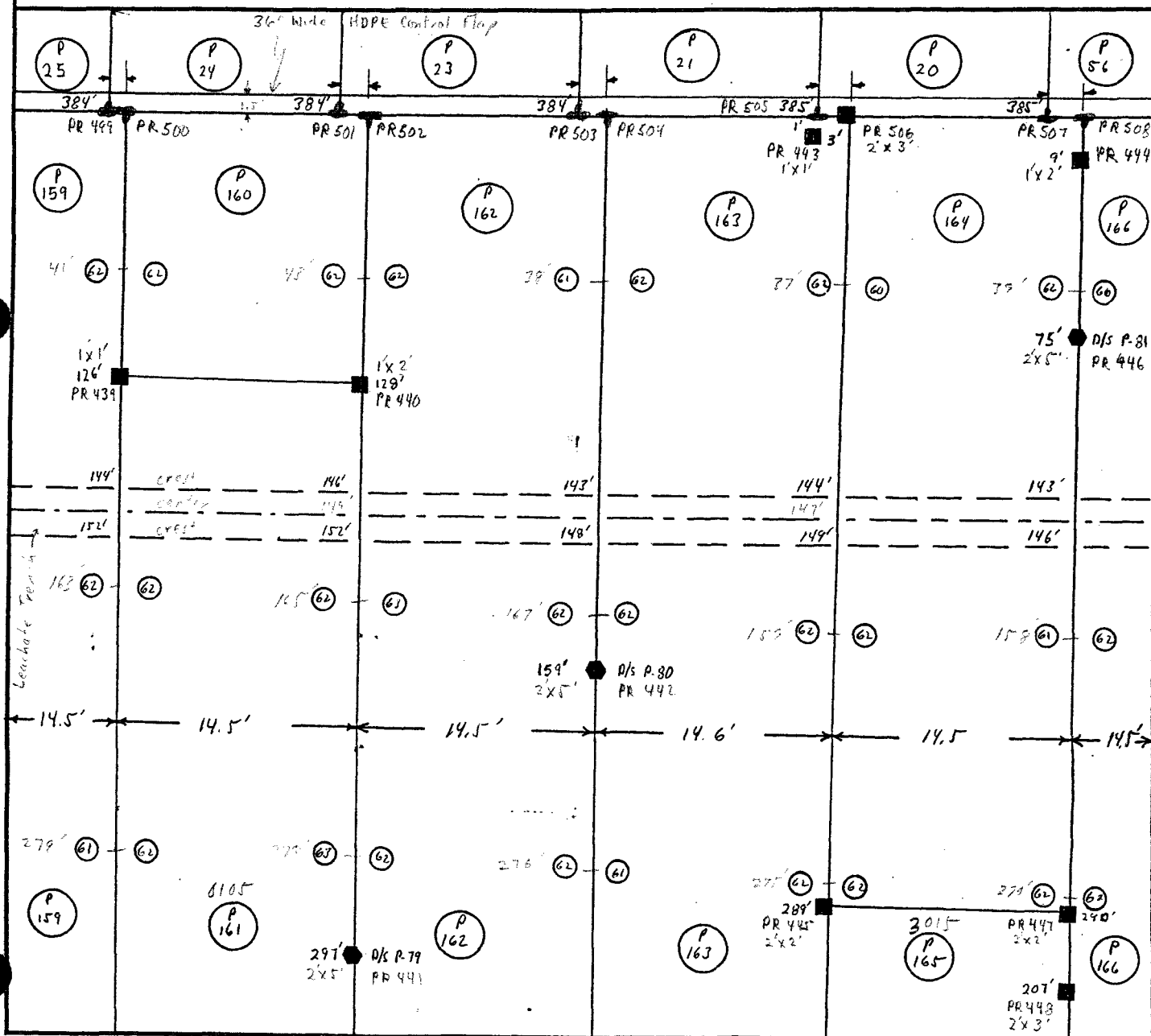
Location: *Jacksonville, Florida*

Contractor: *National Seal Company*

	PATCH		Patched		Tested		Passed
	BEAD		Beaded		Tested		Passed
	SAMPLE		Patched		Tested		Passed

QA I.D. BT

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Panel and Seam Repair Field Sketch

Sheet No.: 29 of

Project: *Trail Ridge Landfill*

Phase:

Project No.: FQ2030

Date: (mo/dy) APR 24

Year: 1992

Location: *Jacksonville, Florida*

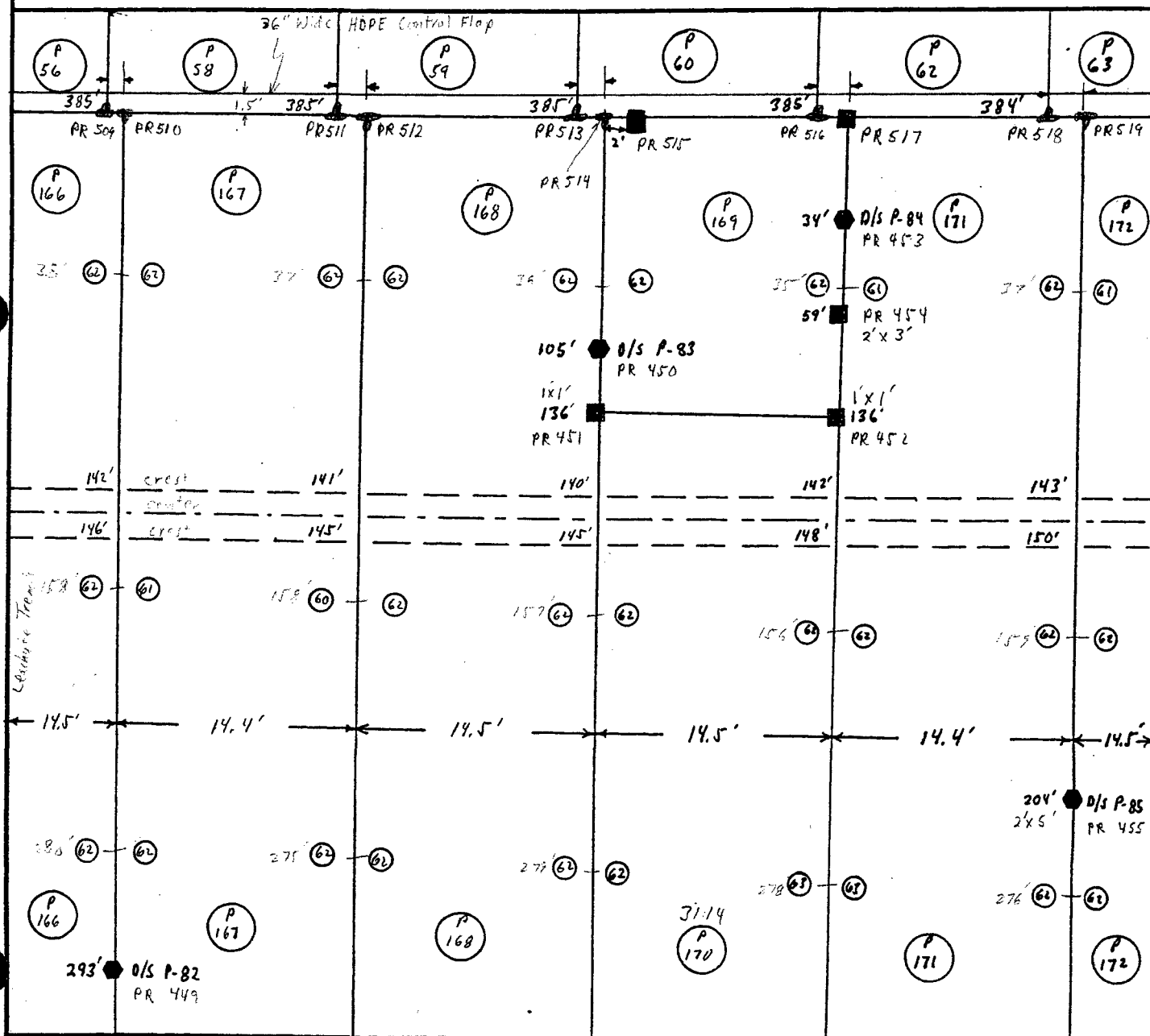
Contractor: *National Seal Company*

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	BEAD		Beaded		Tested		Passed
	SAMPLE		Patched		Tested		Passed

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Trail Ridge Landfill, Inc.

Panel and Seam Repair Field Sketch

Sheet No.: 30 of

Project: Trail Ridge Landfill

Phase:

Project No.: FQ2030

Date: (mo/dy) APR 24

Year: 1992

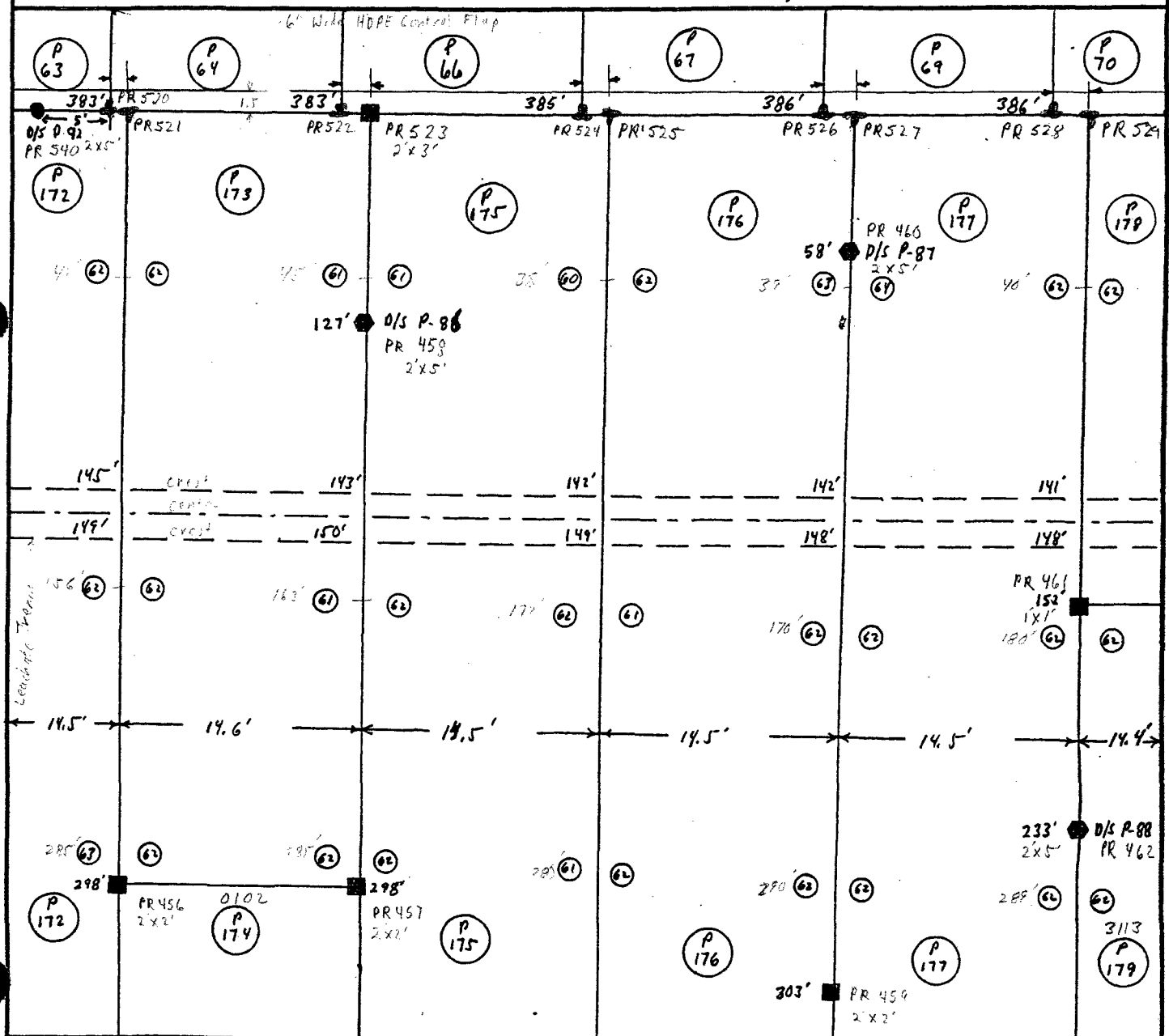
Location: Jacksonville, Florida

Contractor: National Seal Company

✕ PATCH ☒ Patched ▣ Tested ■ Passed
△ BEAD △ Beaded ▲ Tested ▲ Passed
○ SAMPLE ○ Patched ○ Tested ○ Passed

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Trail Ridge Landfill, Inc.

Panel and Seam Repair Field Sketch

Sheet No.: 31 of

Project: Trail Ridge Landfill

Phase:

Project No.: FQ2030

Date: (mo/dy) APRIL 25

Year: 1992

Location: Jacksonville, Florida

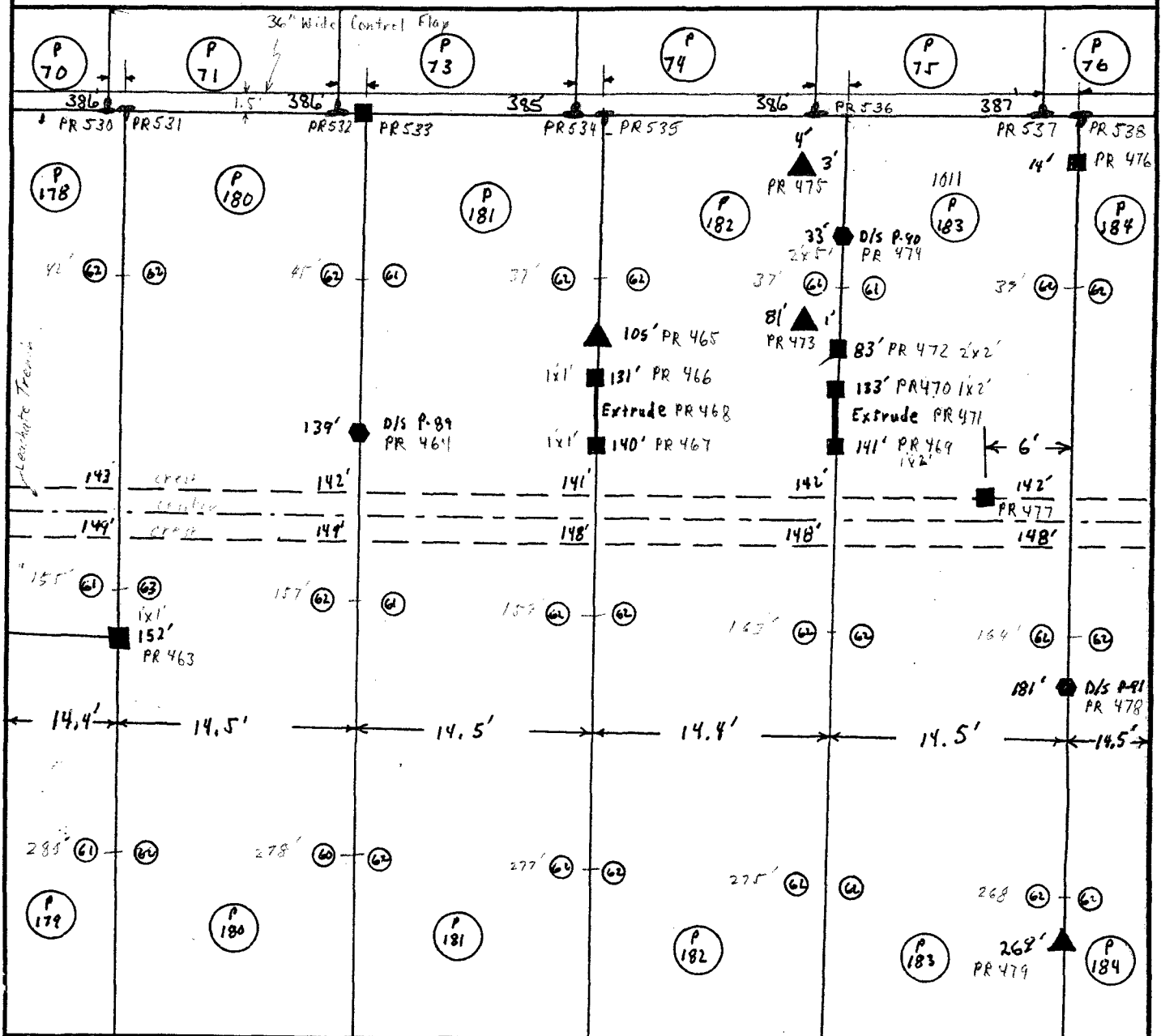
Contractor: National Seal Company

× PATCH ☒ Patched ▣ Tested ■ Passed
△ BEAD ▲ Beaded ▲ Tested ▲ Passed
○ SAMPLE ○ Patched ○ Tested ○ Passed

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Trail Ridge Landfill, Inc.

Panel and Seam Repair Field Sketch

Sheet No.: 32 of

Project: Trail Ridge Landfill

Phase: I + II

Project No.: FQ2030

Date: (mo/day) April 27

Year: 1992

Location: Jacksonville, Florida

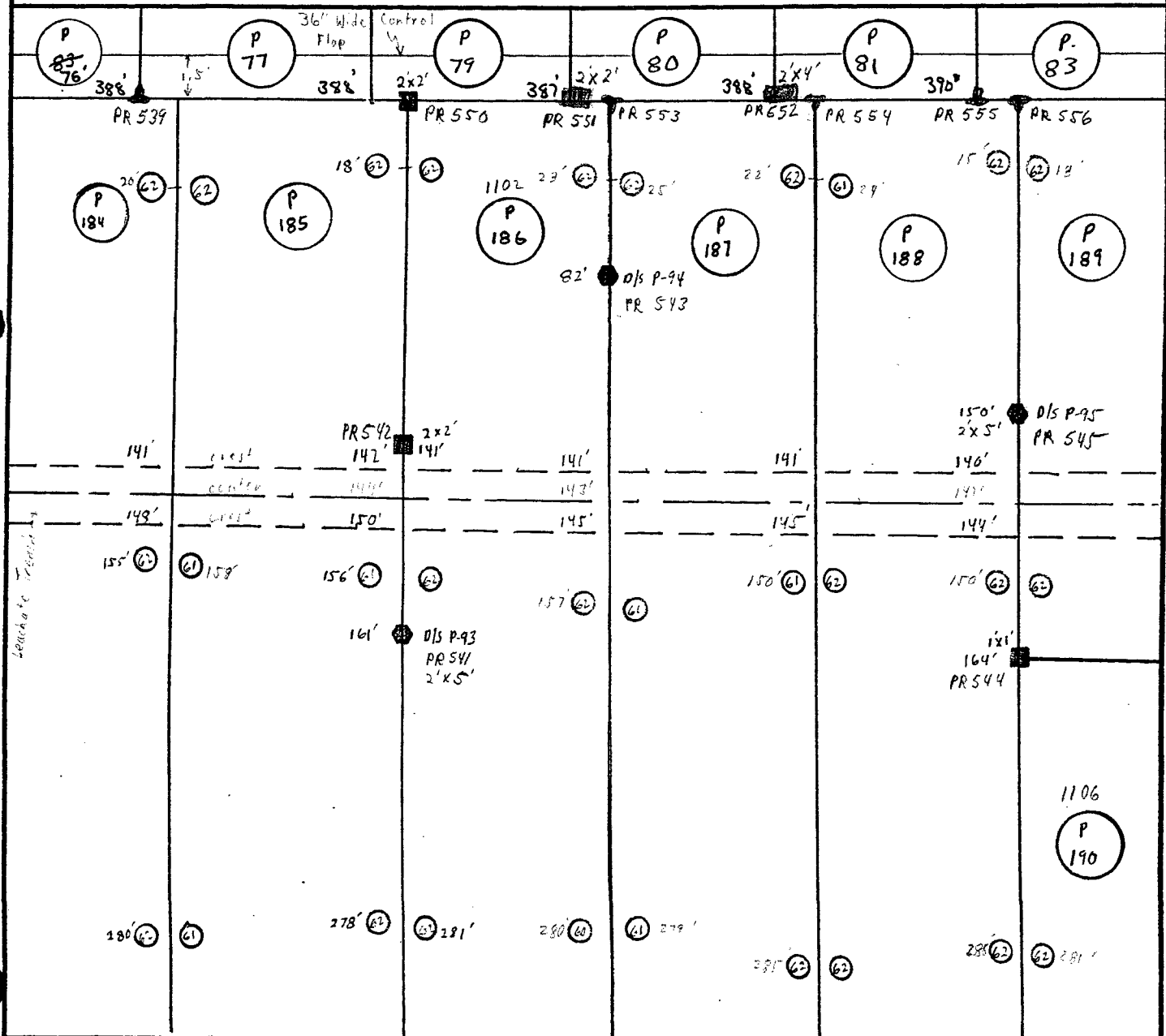
Contractor: National Seal Company

✕ PATCH ☒ Patched ☑ Tested ■ Passed
△ BEAD ▲ Beaded ▲ Tested ▲ Passed
○ SAMPLE ○ Patched ○ Tested ○ Passed

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Trail Ridge Landfill, Inc.

Panel and Seam Repair Field Sketch

Sheet No.: 33 of

Project: Trail Ridge Landfill

Phase: I + II

Project No.: FQ2030

Date: (mo/dy) April 27

Year: 1992

Location: Jacksonville, Florida

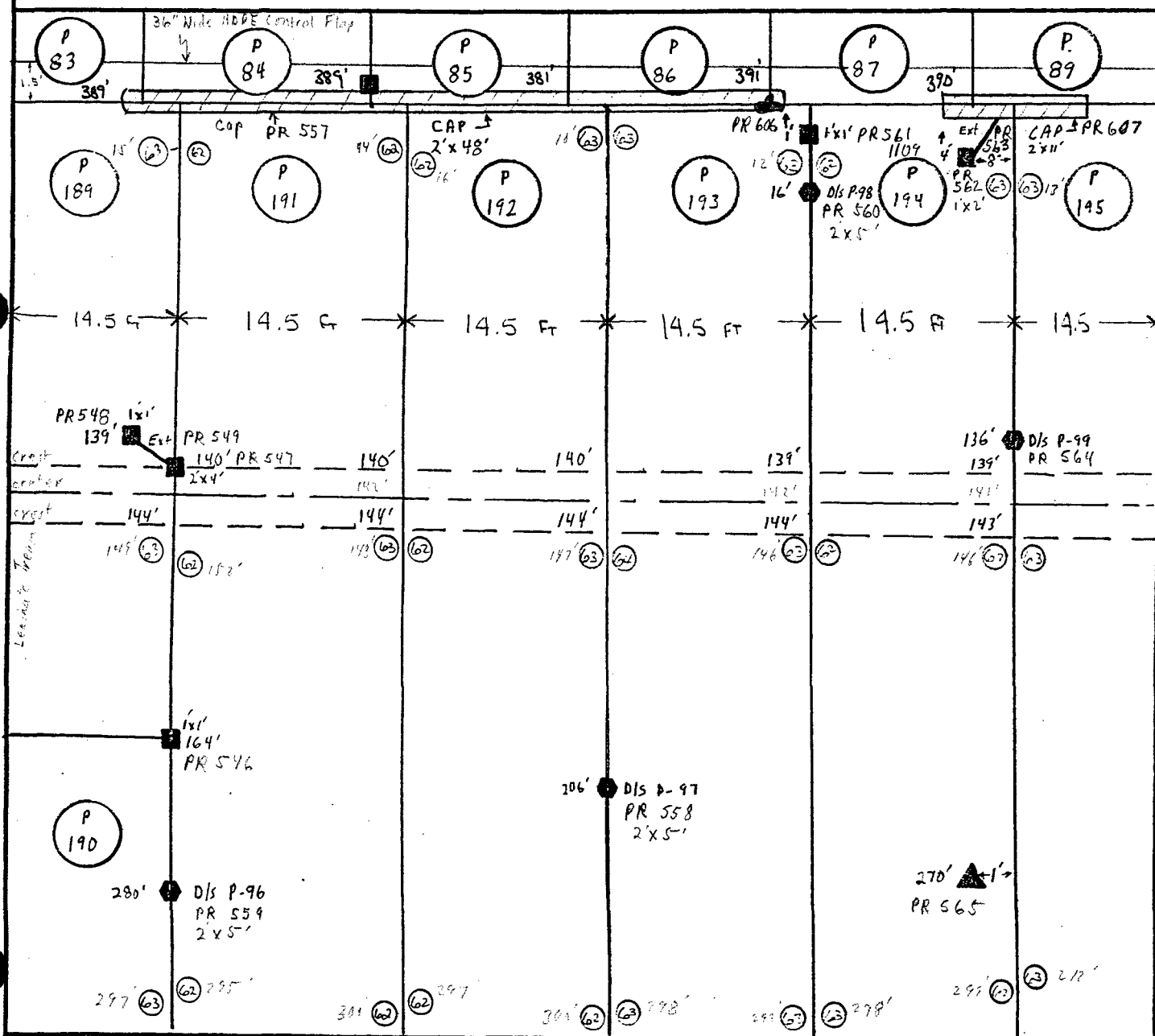
Contractor: National Seal Company

✕ PATCH ☒ Patched ☑ Tested ■ Passed
△ BEAD △ Beaded ▲ Tested ▲ Passed
○ SAMPLE ○ Patched ○ Tested ○ Passed

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Trail Ridge Landfill, Inc.

Panel and Seam Repair Field Sketch

Sheet No.: 34 of

Project: Trail Ridge Landfill

Phase: I + II

Project No.: FQ2030

Date: (mo/dy) Apr. 1 29

Year: 1992

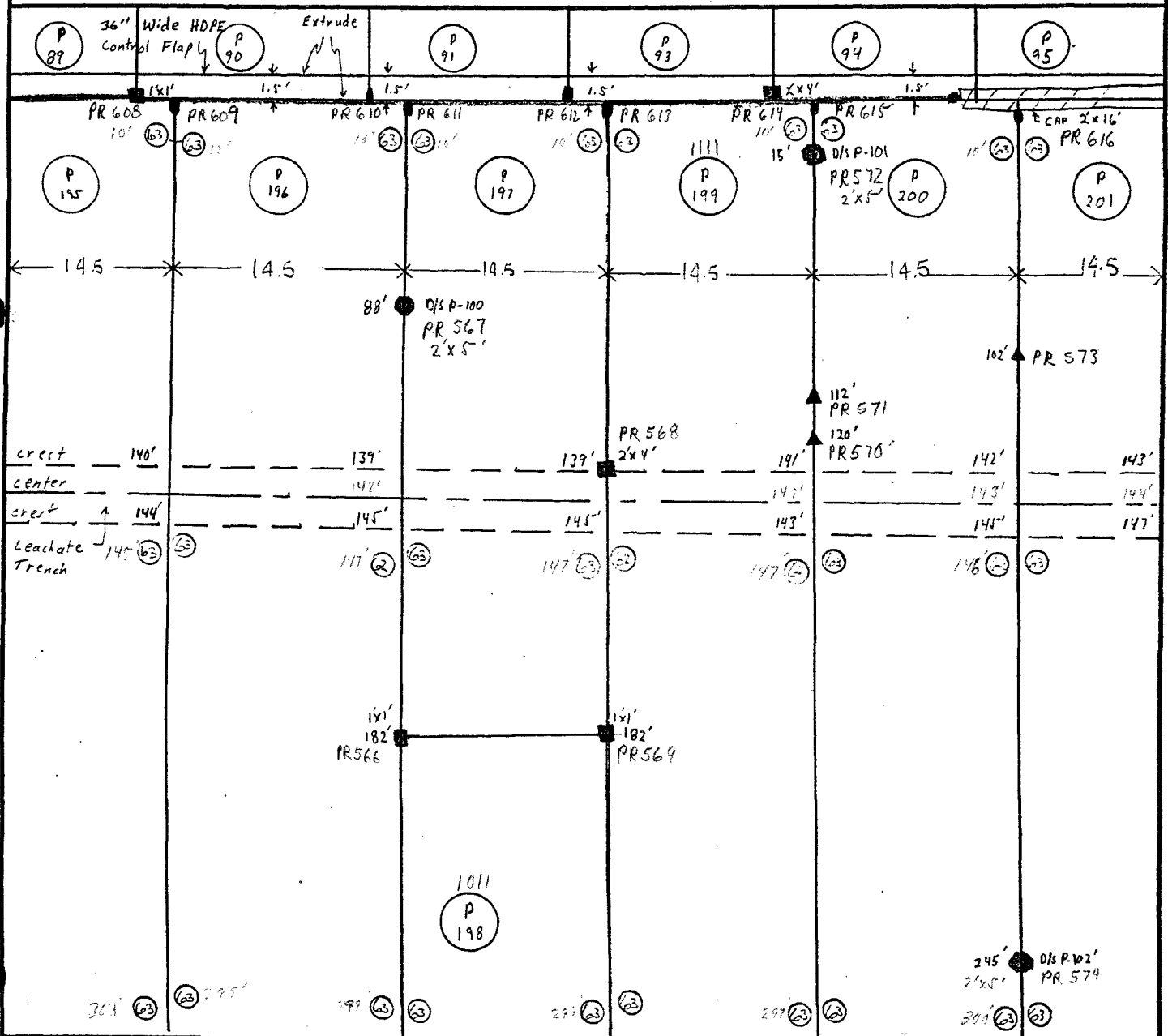
Location: Jacksonville, Florida

Contractor: National Seal Company

✕ PATCH ⊠ Patched ▣ Tested ■ Passed
△ BEAD △ Beaded ▲ Tested ▲ Passed
○ SAMPLE ⊖ Patched ⊖ Tested ⊖ Passed

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Trail Ridge Landfill, Inc.

Panel and Seam Repair Field Sketch

Sheet No.: 35 of

Project: Trail Ridge Landfill

Phase: I + II

Project No.: FQ2030

Date: (moldy) April 29

Year: 1992

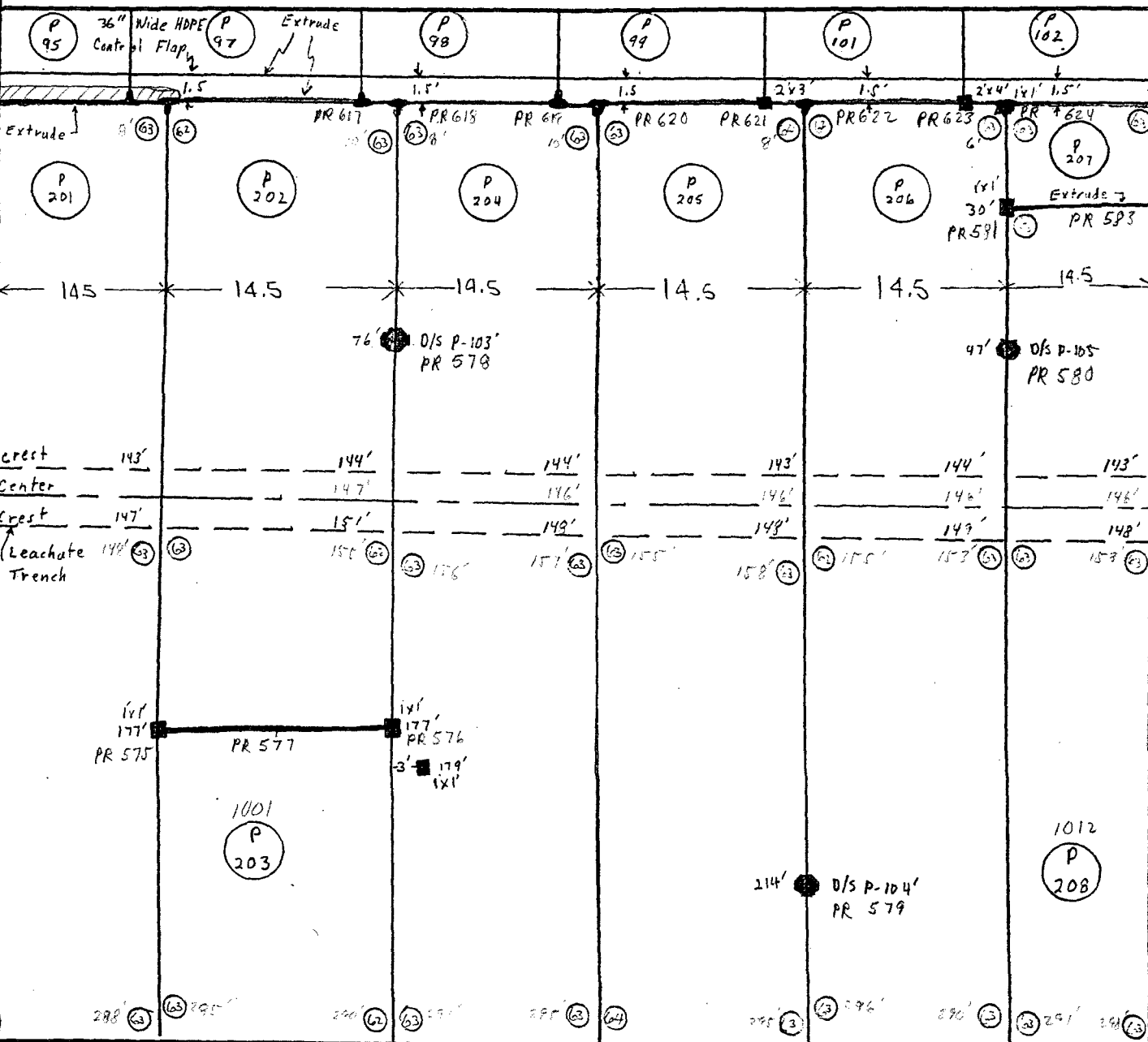
Location: Jacksonville, Florida

Contractor: National Seal Company

× PATCH ⊠ Patched ▣ Tested ■ Passed
△ BEAD ▲ Beaded ▲ Tested ▲ Passed
○ SAMPLE ⊕ Patched ⊖ Tested ⊖ Passed

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Panel and Seam Repair Field Sketch

Sheet No.: 36 of

Project: *Trail Ridge Landfill*

Phase: I + II

Project No.: FQ2030

Date: (mo/dy) April 29

Year: 1992

Location: *Jacksonville, Florida*

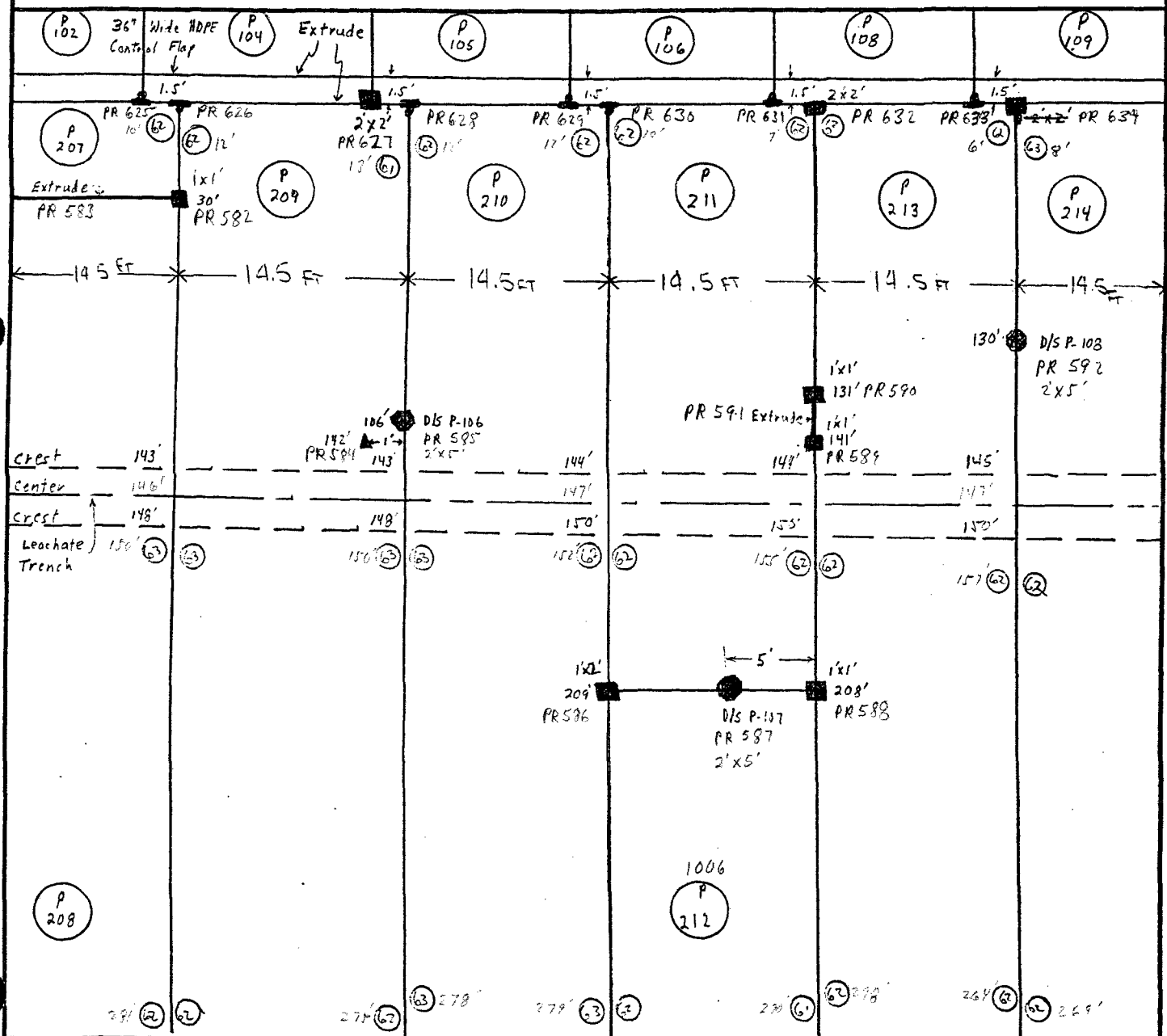
Contractor: *National Seal Company*

	PATCH		Patched		Tested		Passed
	BEAD		Beaded		Tested		Passed
	SAMPLE		Patched		Tested		Passed

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Trail Ridge Landfill, Inc.

Panel and Seam Repair Field Sketch

Sheet No.: 37 of

Project: Trail Ridge Landfill

Phase: I + II

Project No.: FQ2030

Date: (m/d/y) April 29

Year: 1992

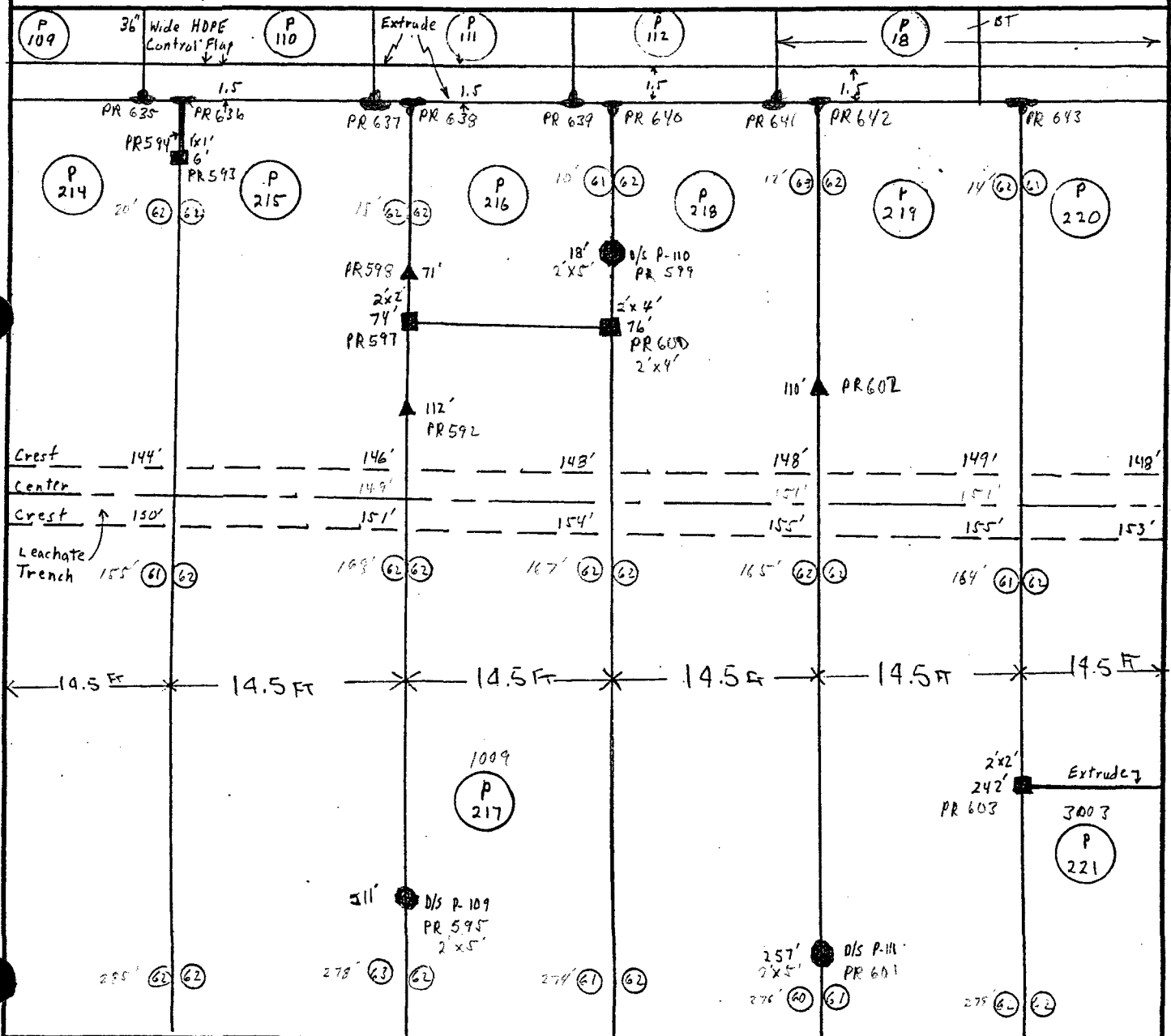
Location: Jacksonville, Florida

Contractor: National Seal Company

× PATCH ⊠ Patched ▣ Tested ■ Passed
△ BEAD ⊡ Beaded ▲ Tested ▲ Passed
○ SAMPLE ⊕ Patched ◐ Tested ◐ Passed

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Trail Ridge Landfill, Inc.

Panel and Seam Repair Field Sketch

Sheet No.: 38 of

Project: Trail Ridge Landfill

Phase:

Project No.: FQ2030

Date: (mo/day) April 29

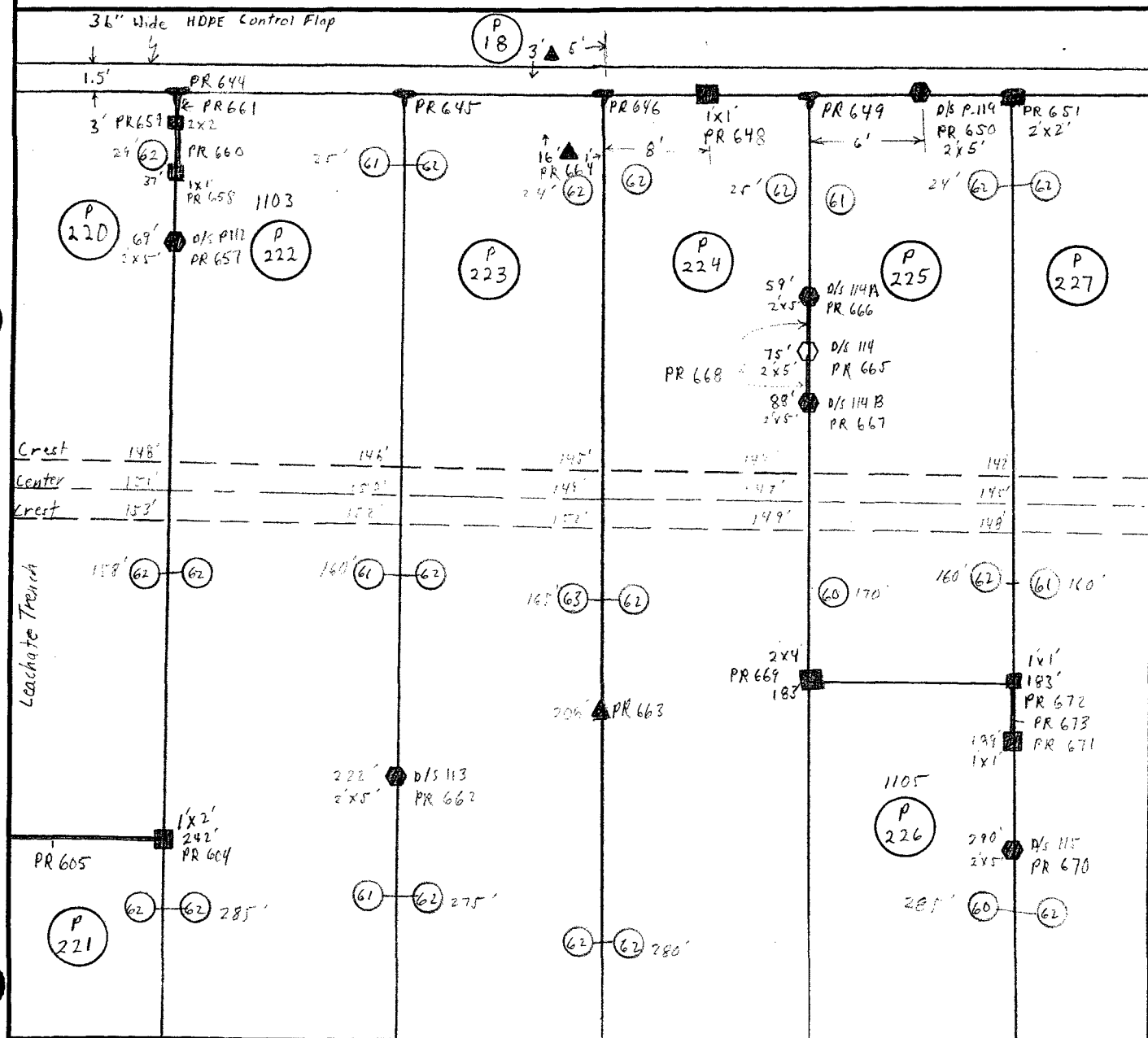
Year: 1992

Location: Jacksonville, Florida

Contractor: National Seal Company

× PATCH ☒ Patched ▣ Tested ■ Passed
△ BEAD △ Beaded ▲ Tested ▲ Passed
○ SAMPLE ◇ Patched ◐ Tested ◐ Passed

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Trail Ridge Landfill, Inc.

Panel and Seam Repair Field Sketch

Sheet No.: 39 of

Project: Trail Ridge Landfill

Phase: I + II

Project No.: FQ2030

Date: (mo/dy) April 29

Year: 1992

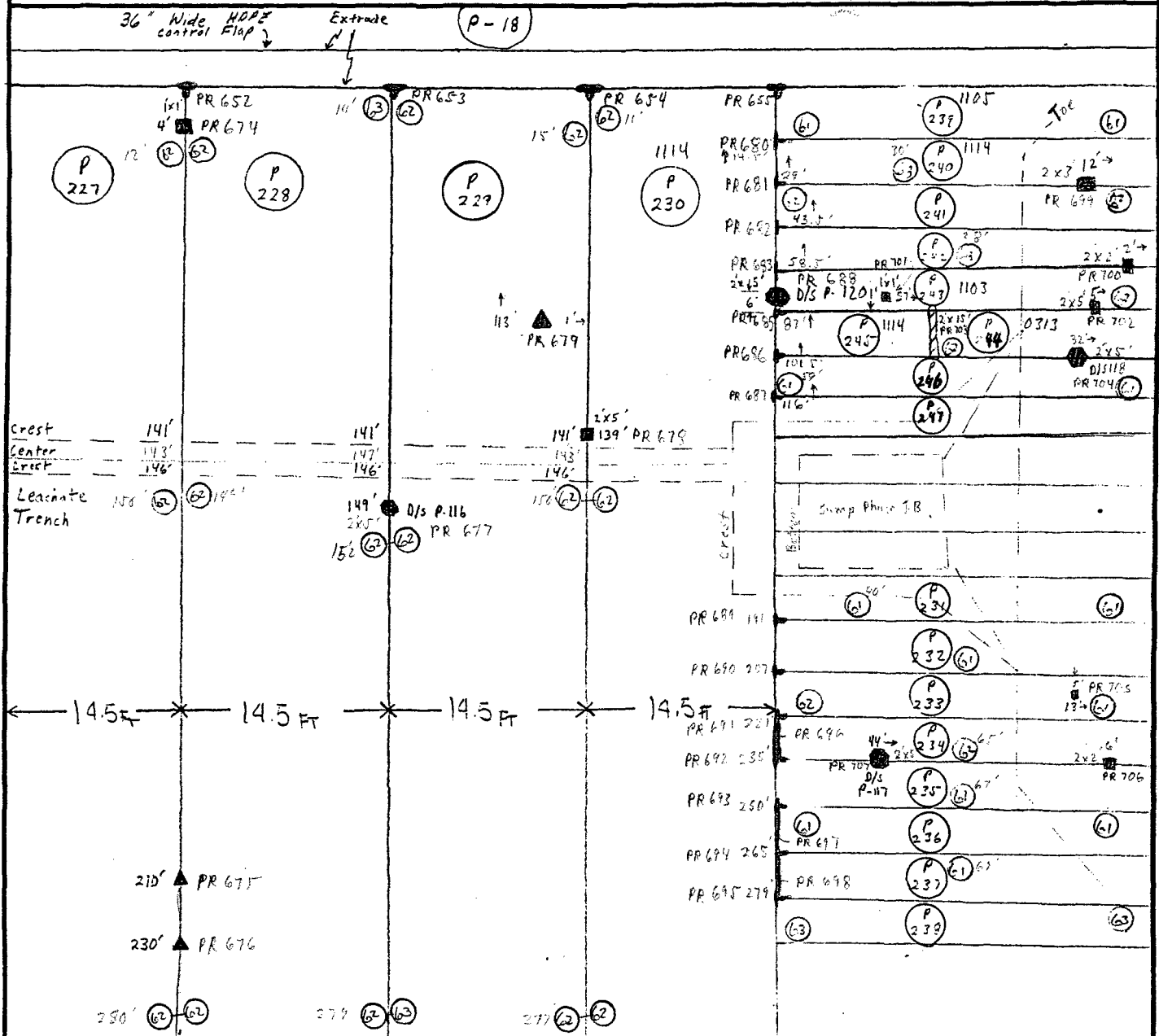
Location: Jacksonville, Florida

Contractor: National Seal Company

× PATCH ⊠ Patched ▣ Tested ■ Passed
△ BEAD ▲ Beaded ▲ Tested ▲ Passed
○ SAMPLE ⊖ Patched ⊖ Tested ⊖ Passed

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Panel and Seam Repair Field Sketch

Sheet No.: 40 of

Project: *Trail Ridge Landfill*

Phase: I & II

Project No.: FQ2030

Date: (mo/dy) May 4

Year: 1992

Location: *Jacksonville, Florida*

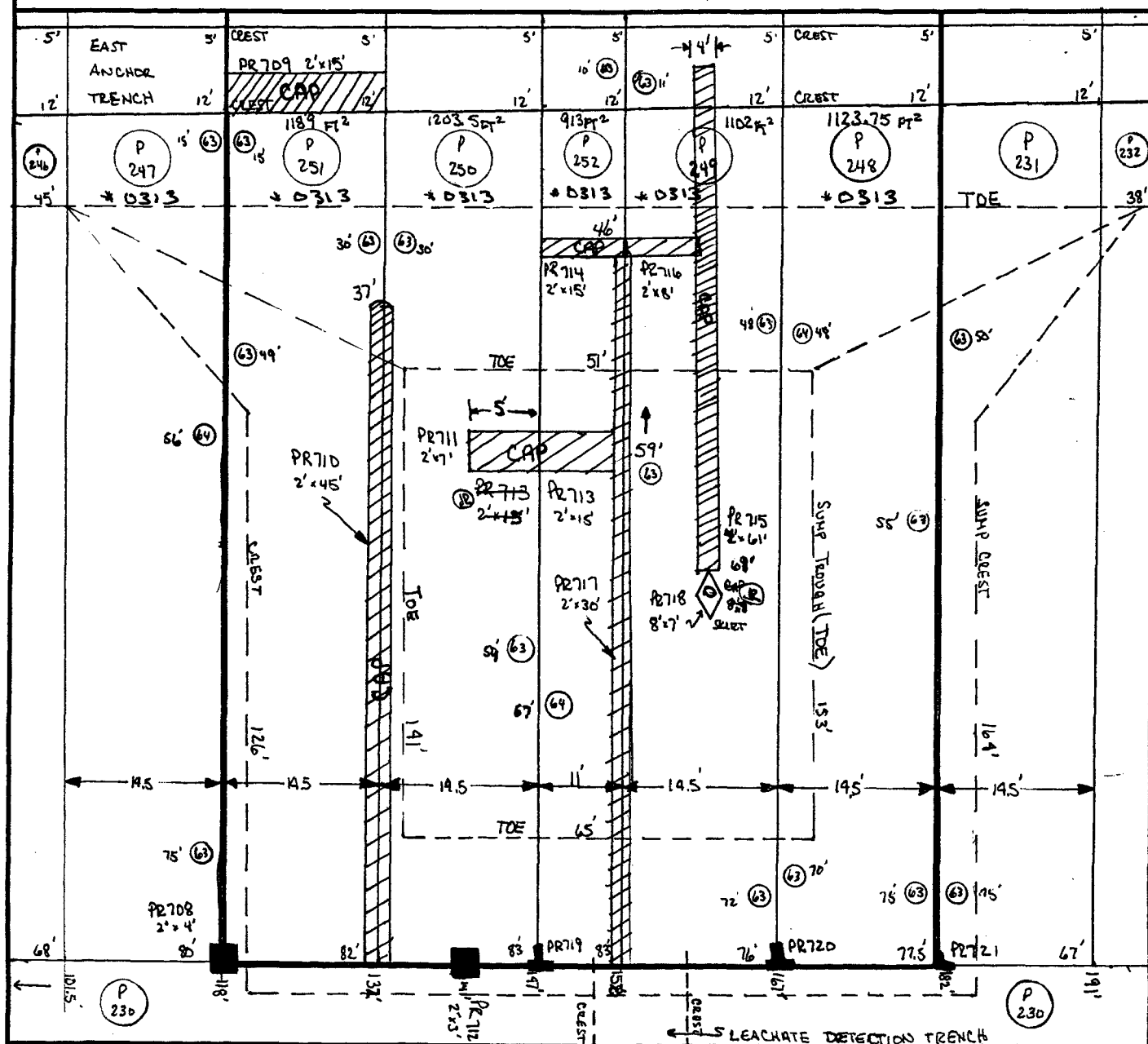
Contractor: *National Seal Company*

	PATCH		Patched		Tested		Passed
	BEAD		Beaded		Tested		Passed
	SAMPLE		Patched		Tested		Passed

QA I.D. JR



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Panel and Seam Repair Field Sketch

Sheet No.: 41 of 41

Project: *Trail Ridge Landfill*

Phase: I & II

Project No.: FQ2030

Date: (mo/dy) May 4

Year: 1992

Location: *Jacksonville, Florida*

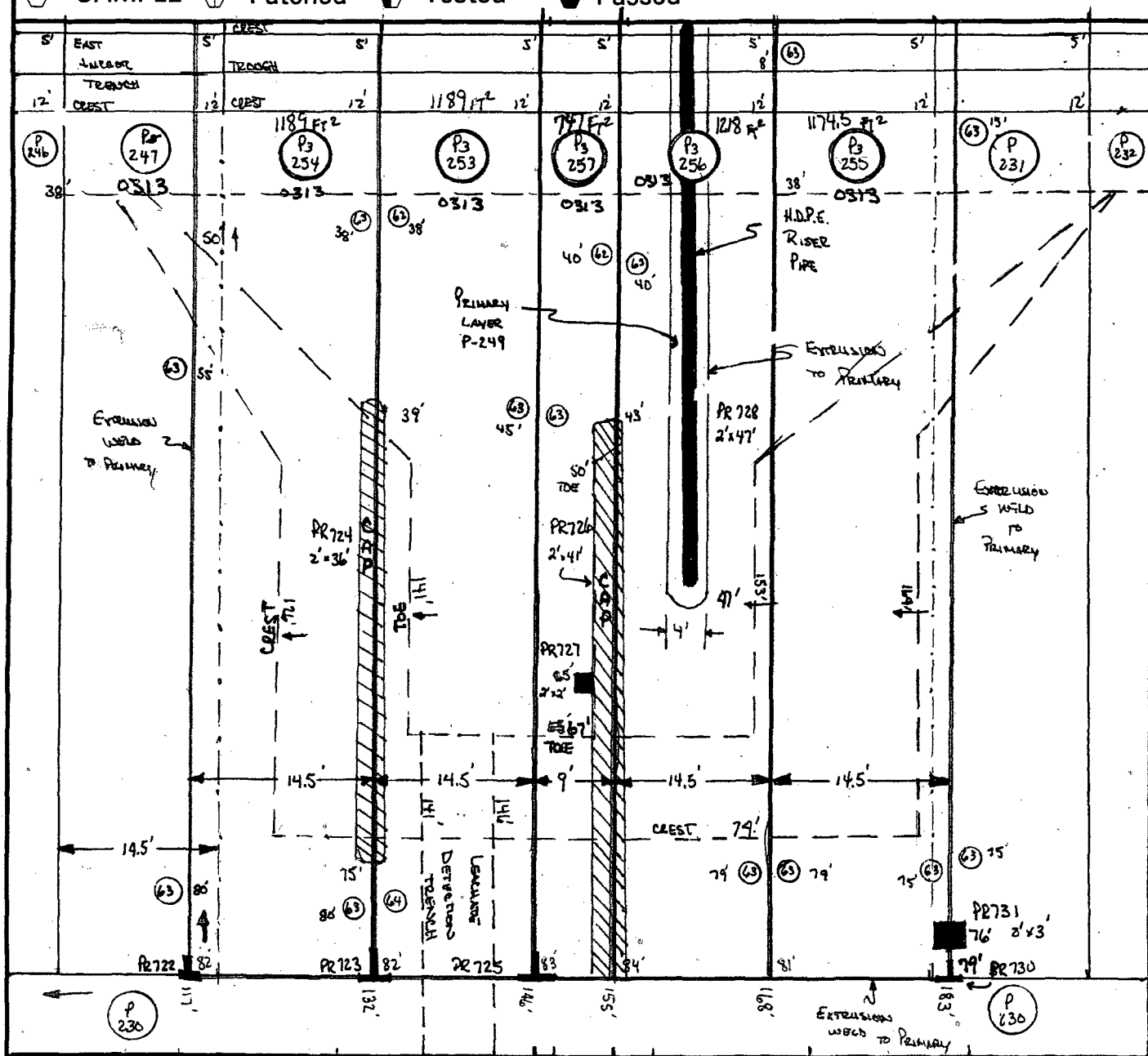
Contractor: *National Seal Company*

	PATCH		Patched		Tested		Passed
	BEAD		Beaded		Tested		Passed
	SAMPLE		Patched		Tested		Passed

QA I.D. JR



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APPENDIX R

RECORD DRAWINGS

3 OVER SIZED

MAP SCANNED

SEPARATELY