• Consulting Hydrogeologists
• Engineers
• Environmental Scientists

Heindel and Noyes
P.O. Box 64709 Burlington, Vermont 05406-4709
802-658-0820
Fax 802-860-1014

December 30, 1997

DEC 31 10 16 AM '97

Mr. Bruce Linton
Sites Management Section
Agency of Natural Resources
103 South Main Street
Waterbury, VT 05671

RE: Stratton/Sun Bowl Compressor Area
VTDEC Site #97-2144

Dear Mr. Linton:

This letter/report presents the results of recent groundwater monitoring conducted in the area of snowmaking compressors at the Sun Bowl parking lot at Stratton Mountain Resort (see site facility plan, Appendix 1, page 9). On November 19, 1997, water level measurements and water quality samples were collected from all ten monitor wells at the compressor area. Samples were also collected from Sun Bowl Brook, and from the liner sump and the condensate discharge sump. Results are discussed below. The snowmaking compressors were operating on the date of sample collection.

GROUNDWATER ELEVATIONS

Water levels were measured in each of the ten monitor wells (SBC-1 through SBC-10) prior to sample collection. Water level and elevation data from June 1996 through present are summarized on page 1 of Appendix 1. The graph on page 2 shows the variation in water table elevation versus time at three representative wells at the site (SBC-2, SBC-6, and SBC-9). All three wells showed the lowest water level occurring in the summer, and the highest levels in the spring and fall. The pattern at upgradient well SBC-9 is similar to that at SBC-2, in the interior of the site. Downgradient well SBC-6 shows less variation in water table over the period of monitoring. The unusually low water level recorded at this well in August 1996 may coincide with annual low stream flows, indicating a close hydraulic connection between the well and Sun Bowl Brook.

The water table map on page 7 of Appendix 1 shows that groundwater flows from northwest to southeast beneath the site at a gradient of approximately 3%, consistent with previous maps.[1] The orientation of water table contours suggests that Sun Bowl Brook may be a "losing" stream in this area, with water shortcutting the sharp bend in the stream

[1] See H&N report #3404, "Stratton Mountain Resort: Phase II Environmental Site Assessment"; February 9, 1996. Appendix 3, page 2.

and flowing preferentially through the fill material beneath the compressors. Based on the flow pattern, an approximate recommended location for future downgradient sampling is indicated on the map on page 7.

FREE PRODUCT MONITORING

Wells at the compressor area are monitored regularly for the presence of free product; product occurrence and other field observations are summarized on pages 3 and 4 of Appendix 1. As shown, the thickness of free product at SBC-2 decreased in 1997 from 0.11 feet in January to "none detected" from July through November. Product has also periodically been noted in the liner sump and the condensate discharge sump (when accessible for inspection). Our office is coordinating with Stratton personnel to place a drum at the site for the collection of the small amounts of product and spent sorbent pads and socks.

WATER QUALITY RESULTS

On November 19, 1997, water quality samples were collected from the ten monitor wells at the compressor pad, as well as from Sun Bowl Brook and from the liner sump and condensate discharge sump. Samples were analyzed for VOC's by EPA 8260 and for TPH by modified EPA 8100 and 8015. Laboratory reports can be found in Appendix 2.

Analytical results have been plotted on the contaminant distribution map on page 8 of Appendix 1. As shown, the highest levels of contamination occurred in water in the liner sump, with TPH by 8100 reported as 14,300 ppm, and numerous volatile organic compounds detected at concentrations greater than 1 ppm (e.g. 1,150 ppb 1,2,4-trimethylbenzene; 1,040 ppb n-butylbenzene). Low concentrations of TPH also occurred in the condensate discharge sump (18.3 ppm by 8100). Trace levels of contaminants were detected as SBC-1 and SBC-2, the two wells directly downgradient of the sump. At SBC-2, TPH by 8100 was reported as 7.17 ppm; toluene was reported 14.4 ppb. At SBC-1, 1,2,4-trimethylbenzene was reported as 2.9 ppb. This level exceeds the Preventive Action Level (2.5 ppb) of the Groundwater Enforcement Standards. None of the other stations sampled showed VOC's or TPH at detectable levels.

These sampling results indicate the importance of inspecting and changing the sorbent pads in the liner sump on a regular basis, particularly during the winter when the compressors are in operation. The discharge from the liner showed the presence of hydrocarbons and volatile organics at concentrations which significantly exceed the GES, indicating the potential for future violations of the standards in groundwater if proper maintenance practices are not observed. Since the sump is open to the soil at the bottom,

the sorbent pads provide the only means of protecting groundwater from the contaminants collected by the liner and discharged into the sump.

CONCLUSIONS AND RECOMMENDATIONS

Water quality sampling conducted in November 1997 showed low levels of groundwater contamination at the two wells located directly downgradient of the liner sump. None of the other wells sampled had detectable levels of petroleum hydrocarbons or volatile organics. These results indicate that the Dynaloy liner beneath the compressors continues to capture minor local releases of fluids associated with compressor operation, preventing wide-spread groundwater contamination beneath the site. However, discharges into the liner sump not completely captured by sorbent materials have resulted in a violation of the GES/PAL for 1,2,4-trimethylbenzene at well SBC-1 directly downgradient of this discharge point. To prevent further contamination, we recommend that Stratton personnel conduct regular inspections of the sorbent materials in the liner sump and condensate discharge sump. A drum will be provided on-site for collection of spent sorbent materials. Weekly inspection log sheets have been prepared for use by Stratton personnel (see Appendix 1, pages 5 and 6).

We recommend the collection of another round of water quality samples in March 1998. Future samples from Sun Bowl Brook should be collected further downstream, at a point downgradient of the liner sump.

Please feel free to call our office with any questions or comments you may have on this report.

Sincerely,

Nancy J. Caplow
Hydrogeologist

NJC/jm

Enclosures
cc: Carl Williams
Joe Gawlik

U:\NCAPLOW\WPDOCS\RPT-STRA.WPD

STRATTON MOUNTAIN RESORT
Sun Bowl Compressor Pad Area

Water Levels Below Top of Pipe (ft)

Location	SBC-1	SBC-2	SBC-3	SBC-4	SBC-5	SBC-6	SBC-7	SBC-8	SBC-9	SBC-10
T.O.P. Elev.	1977.48	1978.11	1978.96	1978.91	1979.84	1969.23	1976.94	1979.01	1976.54	1974.67
Date										
06/12/96	9.09	8.23	7.06	6.90	7.15	5.78	8.66	5.16	5.28	1.81
06/26/96	10.10	9.50	8.31	8.33	8.70	5.95	9.71	Dry	6.75	2.67
07/12/96	10.00	9.90	8.33	8.30	8.62	6.01	9.70	6.72	6.75	2.72
07/30/96	9.84	9.04	8.03	8.03	8.37	5.91	9.49	6.53	6.44	2.49
08/19/96	10.66	8.35	9.12	9.05	9.40	6.18	10.23	7.54	7.31	3.21
08/27/96	10.72	10.47	9.27	9.27	9.51	11.06	10.26	7.59	7.27	3.42
09/10/96	10.77	12.07	9.37	9.35	9.65	6.13	10.34	7.63	7.35	3.48
09/26/96	9.50	9.75	7.60	7.61	8.02	5.82	9.28	6.28	6.04	2.25
10/11/96	8.88	8.84	7.23	7.20	7.32	5.73	8.59	5.00	4.58	1.40
10/28/96	8.70	10.15	6.93	6.67	7.03	5.77	8.38	5.00	4.42	1.35
11/13/96	9.24	Iced up	Iced up	6.63	6.97	5.82	8.51	Frozen	4.33	1.35
11/27/96	Iced up	Iced up	Iced up	7.23	7.28	5.70	Iced up	Iced up	4.53	Iced up
12/10/96	Iced up	Iced up	Iced up	Iced up	Iced up	5.77	9.07	Iced up	5.43	1.96
01/06/97	9.15	8.15	Iced up	Iced up	6.66	5.57	8.08	Iced up	4.04	1.26
01/29/97		9.48				5.91	8.68		6.46	2.51
02/13/97	10.25	9.81	8.92			5.87	8.72		6.83	2.79
02/24/97	8.62	8.01	7.13		6.81	5.47	8.07		3.66	0.69
03/11/97	8.51	7.98	7.05		6.61	5.31	8.03		3.52	0.64
03/25/97	9.84	8.98	8.30	8.34		5.88	9.39		6.41	2.40
04/14/97	8.08	7.90	6.80	5.90		5.01	7.23		3.18	1.13
04/28/97	7.76	7.61	6.63	5.73		4.87	7.03		3.01	0.97
05/12/97	8.37	7.81	6.68	6.04	6.17	5.58	8.11	3.74	4.19	1.01
05/30/97	9.41	8.42	7.43	7.38	7.66	5.79	9.11	5.45	5.77	2.11
06/16/97	10.25	9.67	8.71	8.53	9.06	5.98	9.87	7.04	6.98	2.89
07/18/97	10.64	9.94	9.17	9.15	9.54	5.09	10.18	7.56	7.37	3.35
10/03/97	10.14	9.78	8.71	8.55	9.00	6.01	9.92	7.14	6.93	2.96
11/19/97	9.41	9.04	7.57	7.31	7.75	5.86	9.10	5.68	5.55	1.95

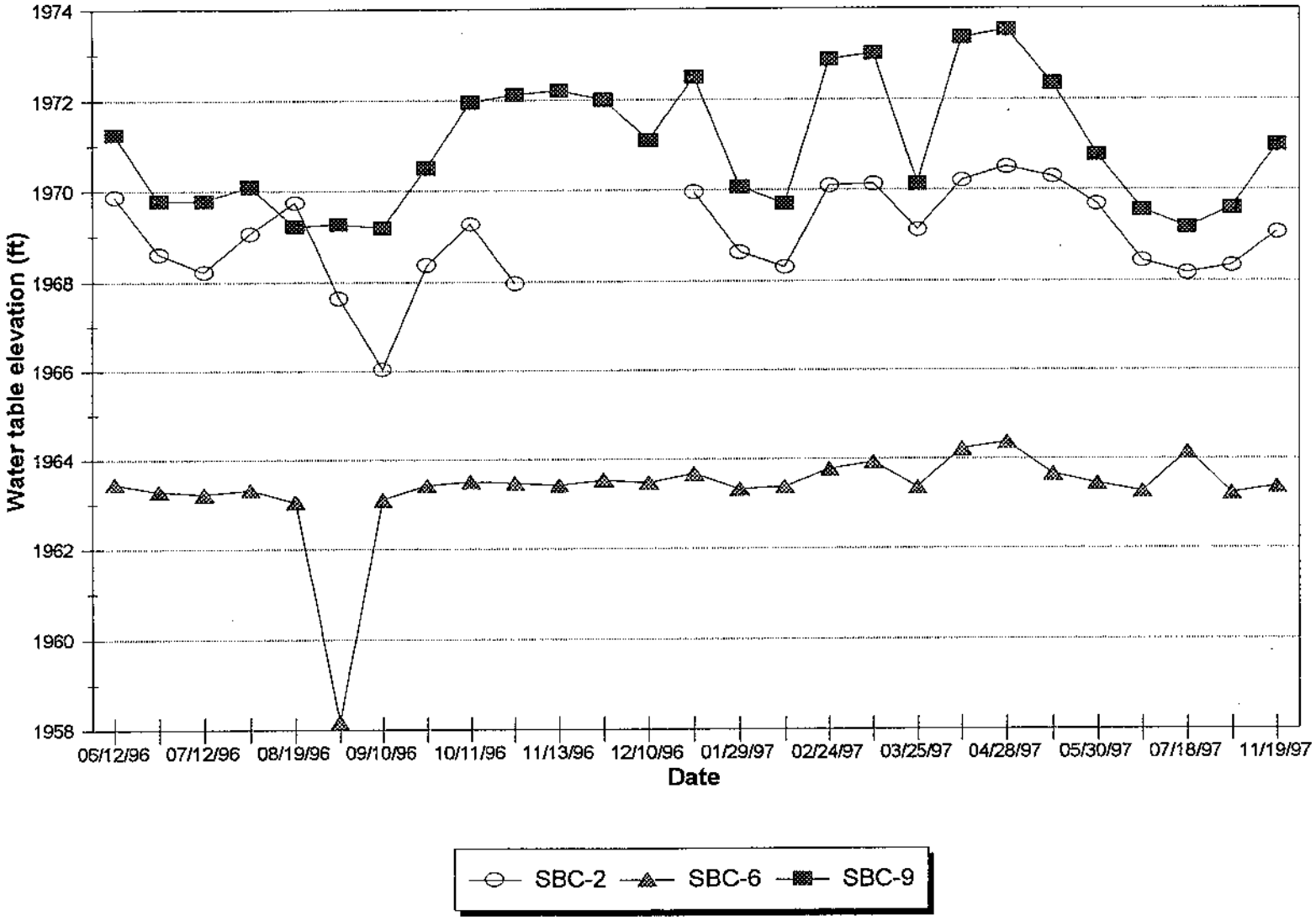
Water Table Elevations (ft)

Location	SBC-1	SBC-2	SBC-3	SBC-4	SBC-5	SBC-6	SBC-7	SBC-8	SBC-9	SBC-10
T.O.P. Elev.	1977.48	1978.11	1978.96	1978.91	1979.84	1969.23	1976.94	1979.01	1976.54	1974.67
Date										
06/12/96	1968.39	1969.88	1971.90	1972.01	1972.69	1963.45	1968.28	1973.85	1971.26	1972.86
06/26/96	1967.38	1968.61	1970.65	1970.58	1971.14	1963.28	1967.23	1979.01	1969.79	1972.00
07/12/96	1967.48	1968.21	1970.63	1970.61	1971.22	1963.22	1967.24	1972.29	1969.79	1971.95
07/30/96	1967.64	1969.07	1970.93	1970.88	1971.47	1963.32	1967.45	1972.48	1970.10	1972.18
08/19/96	1966.82	1969.76	1969.84	1969.86	1970.44	1963.05	1966.71	1971.47	1969.23	1971.46
08/27/96	1966.76	1967.64	1969.69	1969.64	1970.33	1958.17	1966.68	1971.42	1969.27	1971.25
09/10/96	1966.71	1966.04	1969.59	1969.56	1970.19	1963.10	1966.60	1971.38	1969.19	1971.19
09/26/96	1967.98	1968.36	1971.36	1971.30	1971.82	1963.41	1967.66	1972.73	1970.50	1972.42
10/11/96	1968.60	1969.27	1971.73	1971.71	1972.52	1963.50	1968.35	1974.01	1971.96	1973.27
10/28/96	1968.78	1967.96	1972.03	1972.24	1972.81	1963.46	1968.56	1974.01	1972.12	1973.32
11/13/96	1968.24			1972.28	1972.87	1963.41	1968.43		1972.21	1973.32
11/27/96				1971.68	1972.56	1963.53			1972.01	
12/10/96						1963.46	1967.87		1971.11	1972.71
01/06/97	1968.33	1969.96			1973.18	1963.66	1968.86		1972.50	1973.41
01/29/97		1968.63				1963.32	1968.26		1970.08	1972.16
02/13/97	1967.23	1968.30	1970.04			1963.36	1968.22		1969.71	1971.88
02/24/97	1968.86	1970.10	1971.83		1973.03	1963.76	1968.87		1972.88	1973.98
03/11/97	1968.97	1970.13	1971.91		1973.23	1963.92	1968.91		1973.02	1974.03
03/25/97	1967.64	1969.13	1970.66	1970.57		1963.35	1967.55		1970.13	1972.27
04/14/97	1969.40	1970.21	1972.16	1973.01		1964.22	1969.71		1973.36	1973.54
04/28/97	1969.72	1970.50	1972.33	1973.18		1964.36	1969.91		1973.53	1973.70
05/12/97	1969.11	1970.30	1972.28	1972.87	1973.67	1963.65	1968.83	1975.27	1972.35	1973.66
05/30/97	1968.07	1969.69	1971.53	1971.53	1972.18	1963.44	1967.83	1973.56	1970.77	1972.56
06/16/97	1967.23	1968.44	1970.25	1970.38	1970.78	1963.25	1967.07	1971.97	1969.56	1971.78
07/18/97	1966.84	1968.17	1969.79	1969.76	1970.30	1964.14	1966.76	1971.45	1969.17	1971.32
10/03/97	1967.34	1968.33	1970.25	1970.36	1970.84	1963.22	1967.02	1971.87	1969.61	1971.71
11/19/97	1968.07	1969.07	1971.39	1971.60	1972.09	1963.37	1967.84	1973.33	1970.99	1972.72

NOTES:
Blank space indicates data not available for this date.
T.O.P. = Top of Pipe Elevation

Sun Bowl Compressor Area

Water table elevation vs Time



• Consulting Hydrogeologists
• Engineers
• Environmental Scientists

Heindel and Noyes
P.O. Box 64709 Burlington, Vermont 05406-4709
802-658-0820
Fax 802-860-1014

STRATTON MOUNTAIN RESORT
Sun Bowl Compressor Area
Free Product Check

DATE	FREE PRODUCT		NOTES, FIELD OBSERVATIONS
	LOCATION	THICKNESS (Feet)	
06/12/96	SBC-2	0.12.	Sock placed in SBC-2. Blow-off valves from compressor discharging onto ground surface.
06/26/96	--	--	No product detected in any wells on site. Sock removed from SBC-2.
07/12/96	SBC-2	0.08	Sampled oil for analysis, fingerprinting.
07/30/96	SBC-2	0.02	Oil.
08/19/96	SBC-2	0.07	
08/27/96	SBC-2	0.03	
09/10/96	SBC-2	0.01	
09/26/96	SBC-2	0.01	Oily Product.
10/11/96	SBC-2	0.01	Thick oil.
10/28/96	SBC-2	0.03	Oil.
11/13/96	--	--	SBC-2, -3, -8 frozen shut, inaccessible. No product elsewhere.
11/27/96	--	--	SBC-2, -7, -8, -10 frozen shut, inaccessible. No product elsewhere.
12/10/96	--	--	SBC-1, -2, -3, -4, -5, -8 frozen shut. No product elsewhere.
01/06/97	SBC-2	0.11	SBC-7 damaged (by plow?)
01/29/97	SBC-2	0.09	Blow-off valve near SBC-9 discharging onto ground. Liner sump[1] inaccessible -- covered by portable compressors.
02/13/97	SBC-2	0.08	Liner sump inaccessible -- covered by portable compressors. SBC-7 requires new cover.
02/24/97	SBC-2	0.04	Soak-ease sock placed in SBC-2.
03/11/97	SBC-2	0.02	Sock remains in SBC-2.

[1] Liner sump located next to SBC-4.

DATE	FREE PRODUCT		NOTES, FIELD OBSERVATIONS
	LOCATION	THICKNESS (Feet)	
03/25/97	--	--	No product at any wells. Sock remains in SBC-2.
04/14/97	Liner sump	<0.01	No product at any wells. Sock remains in SBC-2. Portable compressors no longer on site. Liner sump inspected -- <0.01' emulsified product. Inflow <0.25 gpm.
04/28/97	Liner sump	sheen	No product at any wells. Sock remains in SBC-2. Liner sump: sheen on water. Inflow <0.25 gpm (visual estimate).
05/12/97	Liner sump	--	No product at any wells. Sock removed from SBC-2. Fe-bacteria in SBC-2. Liner sump: thick oil on water surface; sample collected. Inflow <0.25 gpm. Place sorbent pads in liner sump.
05/30/97	SBC-2	droplets	Liner sump: heavy biologic growth. Sorbent pads partially soaked; left in place.
06/16/97	SBC-2 Liner sump CD sump[2]	droplets	Sock placed in SBC-2. Liner sump: pads soaked, need to be removed. CD sump: some oil; added new pads, old pads need to be removed.
07/18/97	--	--	SBC-2: no visible product in bailer; sock left in well. Liner sump: pads okay, left in place; inflow <0.25 gpm.
11/19/97	--	--	No product detected in any wells onsite.

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2 CD sump = condensate discharge sump. Located near SBC-5.

STRATTON MOUNTAIN CORP.
Sunbowl Compressor Pad
Daily Inspection Log - Sorbent Materials in Concrete Tile Sump for Compressor Pad Liner

Week of:_____					
DAY OF WEEK	DATE	TIME	SORBENT MATERIALS INSPECTED BY _____ (SIGN)	SORBENT MATERIALS REQUIRE REPLACEMENT ? (Y or N)	SORBENT* MATERIALS REPLACED ? (Y or N)
Sun.					
Mon.					
Tues.					
Wed.					
Thurs.					
Fri.					
Sat.					

* Petroleum-contaminated materials must be stored, transported and disposed as Hazardous Wastes.

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STRATTON MOUNTAIN CORP.
Sunbowl Compressor Pad
Weekly Monitoring Well Inspection Log

Monitoring Wells SB-1, SB-2, SB-4 and SB-7 must be checked with a clear bailer for the presence of floating free product or sheens on a weekly basis. Notify Nelson, Heindel and Noyes (802-658-0820), if product is observed in any of these wells.

DATE	TIME	INSPECTION BY (SIGN)	Inches of free product in first bailer (if sheen, so note)			
			SB-1	SB-2	SB-4	SB-7

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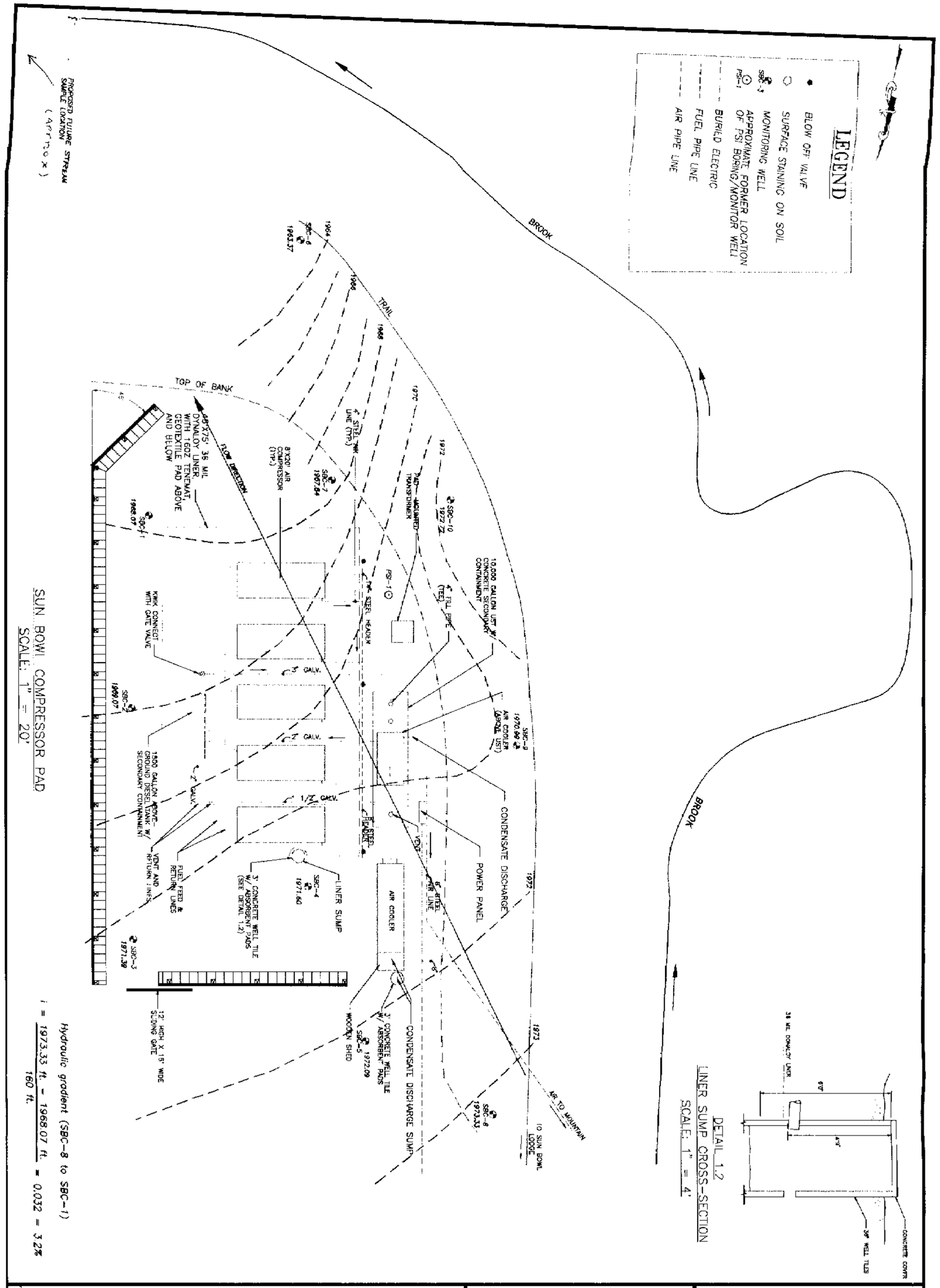
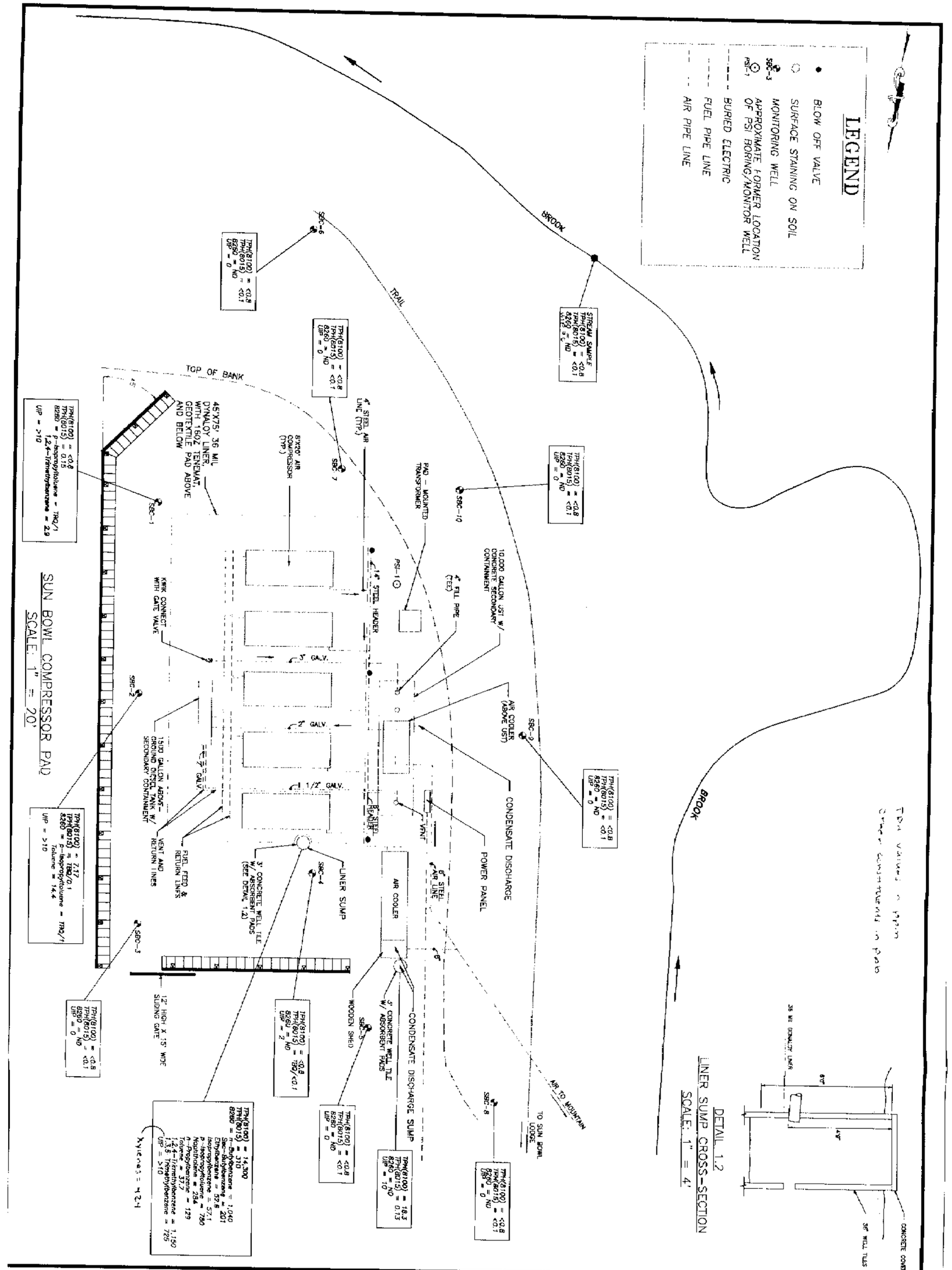
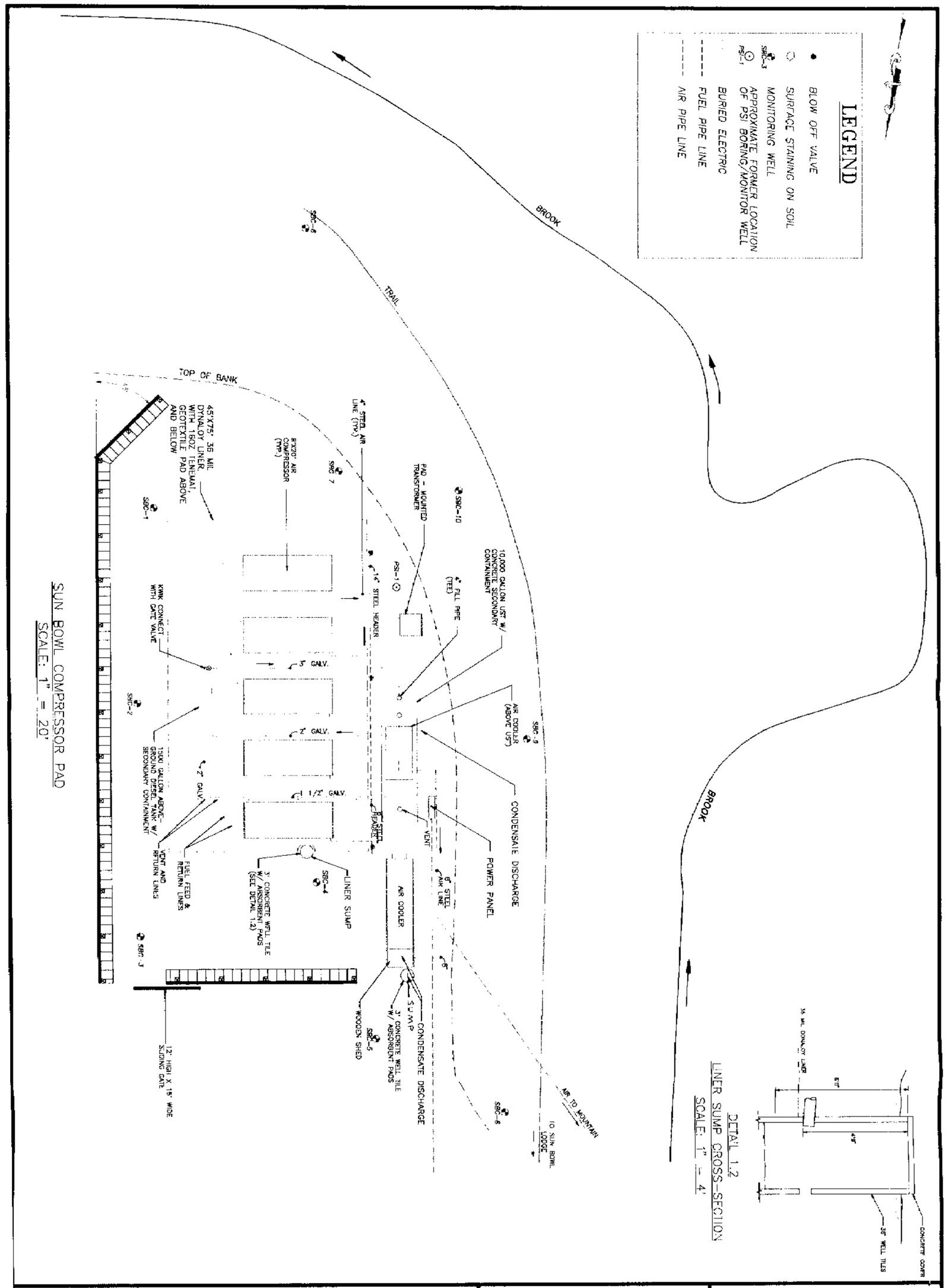


STRATTON/SUN BOWL COMPRESSOR AREA	DATE: DECEMBER 24, 1997	Heindel and Noyes
STRATTON MT., VERMONT	PROJECT NO. 97122	• Hydrogeology • Ecology • Environmental Engineering • CONSULTING SCIENTISTS AND ENGINEERS
WATER TABLE CONTOUR MAP (FT) - 11/19/97	DRAWN BY: M. Luman	P.O. BOX 64709 BURLINGTON, VERMONT 05406-4709
	PROJ. MGR: N. Caplow	
	APPROVED: J. Noyes	
SCALE: AS NOTED	FILE: C:\STRATPSI\SUNBOWL	☐ DRAFT ☐ FINAL

Prepared By:
Information & Visualization Services



STRATTON/SUN BOWL COMPRESSOR AREA	DATE: DECEMBER 24, 1997	Heindel and Noyes
STRATTON MT., VERMONT	PROJECT NO. 97122	• Hydrogeology • Ecology •
GROUNDWATER SAMPLING RESULTS – 11/19/97	DRAWN BY: M. Luman	• Environmental Engineering •
	PROJ. MGR: N. Caplow	CONSULTING SCIENTISTS AND ENGINEERS
	APPROVED: J. Noyes	P.O. BOX 64709
SCALE: AS NOTED	FILE: C:\STRATPSI\SUNBOWL	BURLINGTON, VERMONT 05406-4709
	☐ DRAFT ☐ FINAL	Prepared By: Information & Visualization Services



STRATTON/SUN BOWL COMPRESSOR AREA

STRATTON MT., VERMONT

SITE FACILITY PLAN

SCALE: AS NOTED

FILE: C:\STRATPSI\SUNBOWL

DATE: DECEMBER 24, 1997

PROJECT NO. 97122

DRAWN BY: M. Luman

PROJ. MGR: N. Caplow

APPROVED: J. Noyes

☐ DRAFT ☐ FINAL

Heindel and Noyes

• Hydrogeology • Ecology •

• Environmental Engineering •

CONSULTING SCIENTISTS AND ENGINEERS

P.O. BOX 64709

BURLINGTON, VERMONT 05406-4709

Prepared By:

Information & Visualization Services

ENDYNE, INC.

Laboratory Services

32 James Brown Drive
Williston, Vermont 05495
(802) 879-4333
FAX 879-7103

REPORT OF LABORATORY ANALYSIS

CLIENT: Heindel and Noyes
PROJECT NAME: Stratton/Sun Bowl Comp
DATE REPORTED: December 9, 1997
DATE SAMPLED: November 19, 1997

PROJECT CODE: HNST1515
REF. #: 113,680 - 113,682

Enclosed please find the results of the analyses performed for the samples referenced on the attached chain of custody record.

Chain of custody indicated sample preservation with HCl.

All samples were prepared and analyzed by requirements outlined in the referenced methods and within the specified holding times.

All instrumentation was calibrated with the appropriate frequency and verified by the requirements outlined in the referenced methods.

Blank contamination was not observed at levels affecting the analytical results.

Analytical method precision and accuracy were monitored by laboratory control standards which included matrix spike, duplicate and quality control analyses. These standards were determined to be within established laboratory method acceptance limits.

Reviewed by,

Harry B. Locker, Ph.D.
Laboratory Director

enclosures

ENDYNE, INC.

Laboratory Services

32 James Brown Drive
Williston, Vermont 05495
(802) 879-4333
FAX 879-7103

LABORATORY REPORT

TOTAL PETROLEUM HYDROCARBONS (TPH) BY MODIFIED EPA METHOD 8100

DATE: December 9, 1997
CLIENT: Heindel and Noyes
PROJECT: Stratton/Sun Bowl Comp.
PROJECT CODE: HNST1515
COLLECTED BY: Brian Beaudoin
DATE SAMPLED: November 19, 1997
DATE RECEIVED: November 24, 1997

Sump -

Reference #	Sample ID	Concentration (mg/L)[1]
113,680	Condensate Discharge; 2:38	18.3
113,681	Liner Sump; 2:50	14,300.
113,682	Trip Blank; 12:45	ND[2]

Notes:

1 Method detection limit is 0.8 mg/L.
2 None detected

ENDYNE, INC.

Laboratory Services

32 James Brown Drive
Williston, Vermont 05495
(802) 879-4333
FAX 879-7103

REPORT OF LABORATORY ANALYSIS

CLIENT: Heindel & Noyes
PROJECT NAME: Stratton/Sun Bowl-Comp.
DATE REPORTED: December 3, 1997
DATE SAMPLED: November 19, 1997

PROJECT CODE: HNST1514
REF. #: 113,677 - 113,679

Enclosed please find the results of the analyses performed for the samples referenced on the attached chain of custody record.

Chain of custody indicated sample preservation with HCl.

All samples were prepared and analyzed by requirements outlined in the referenced methods and within the specified holding times.

All instrumentation was calibrated with the appropriate frequency and verified by the requirements outlined in the referenced methods.

Blank contamination was not observed at levels affecting the analytical results.

Analytical method precision and accuracy were monitored by laboratory control standards which included matrix spike, duplicate and quality control analyses. These standards were determined to be within established laboratory method acceptance limits.

Reviewed by,

Harry B. Locker, Ph.D.
Laboratory Director

enclosures

ENDYNE, INC.

Laboratory Services

32 James Brown Drive
Williston, Vermont 05495
(802) 879-4333
FAX 879-7103

LABORATORY REPORT

TOTAL PETROLEUM HYDROCARBONS (TPH) BY MODIFIED EPA METHOD 8015

DATE: December 3, 1997
CLIENT: Heindel & Noyes
PROJECT: Stratton/Sun Bowl-Comp.
PROJECT CODE: HNST1514
COLLECTED BY: Brian Beaudoin
DATE SAMPLED: November 19, 1997
DATE RECEIVED: November 24, 1997

Sump.

Reference #	Sample ID	Concentration (mg/L)[1]
113,677	Condensate Discharge; 2:38p.m.	0.13
113,678	Liner Sump; 2:50p.m.	310.
113,679	Trip Blank; 12:45p.m.	ND[2]

Notes:

1 Method detection limit is 0.1 mg/L.
2 None detected

ENDYNE, INC.

Laboratory Services

32 James Brown Drive
Williston, Vermont 05495
(802) 879-4333
FAX 879-7103

REPORT OF LABORATORY ANALYSIS

CLIENT: Heindel and Noyes
PROJECT NAME: Stratton/Sun Bowl - Comp.
REPORT DATE: December 2, 1997
DATE SAMPLED: November 19, 1997

PROJECT CODE: HNST1513
REF. #: 113,674 - 113,676

Enclosed please find the results of the analyses performed for the samples referenced on the attached chain of custody.

Chain of custody indicated sample preservation with HCl.

All samples were prepared and analyzed by requirements outlined in the referenced method and within the specified holding times.

All instrumentation was calibrated with the appropriate frequency and verified by the requirements outlined in the referenced method.

Blank contamination was not observed at levels affecting the analytical results.

Analytical method precision and accuracy was monitored by laboratory control standards which included matrix spike, duplicate and quality control analyses. These standards were determined to be within established laboratory method acceptance limits.

Individual sample performance was monitored by the addition of surrogate analytes to each sample. All surrogate recovery data was determined to be within Laboratory QA/QC guidelines unless otherwise noted.

Reviewed by,

Harry B. Locker, Ph.D.
Laboratory Director

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ENDYNE, INC.

Laboratory Services

32 James Brown Drive
Williston, Vermont 05495
(802) 879-4333
FAX 879-7103

LABORATORY REPORT

EPA METHOD 8260 WATER MATRIX

CLIENT: Heindel and Noyes
PROJECT NAME: Stratton/Sun Bowl - Comp.
REPORT DATE: December 2, 1997
DATE SAMPLED: November 19, 1997
DATE RECEIVED: November 24, 1997
ANALYSIS DATE: November 29, 1997

PROJECT CODE: HNST1513
REF.#: 113,674
STATION: Condensate Discharge Sump
TIME SAMPLED: 2:38
SAMPLER: Brian Beaudoin

Parameter	Detection Limit (ug/L)	Result (ug/L)	Parameter	Detection Limit (ug/L)	Result (ug/L)
Benzene	1	ND[1]	1,3-Dichloropropane	1	ND
Bromobenzene	1	ND	2,2-Dichloropropane	1	ND
Bromochloromethane	2	ND	1,1-Dichloropropene	1	ND
Bromodichloromethane	1	ND	cis-1,3-Dichloropropene	1	ND
Bromoform	1	ND	trans-1,3-Dichloropropene	1	ND
Bromomethane	5	ND	Ethylbenzene	1	ND
n-Butylbenzene	1	ND	Hexachlorobutadiene	5	ND
sec-Butylbenzene	1	ND	Isopropylbenzene	1	ND
tert-Butylbenzene	1	ND	p-Isopropyltoluene	1	ND
Carbon Tetrachloride	1	ND	Methylene Chloride	5	ND
Chlorobenzene	1	ND	Naphthalene	5	ND
Chloroethane	5	ND	n-Propylbenzene	1	ND
Chloroform	1	ND	Styrene	2	ND
Chloromethane	10	ND	1,1,1,2-Tetrachloroethane	2	ND
2&4-Chlorotoluene	2	ND	1,1,2,2-Tetrachloroethane	2	ND
Dibromochloromethane	1	ND	Tetrachloroethene	1	ND
1,2-Dibromo-3-Chloropropane	2	ND	Toluene	1	ND
1,2-Dibromoethane	2	ND	1,2,3-Trichlorobenzene	2	ND
Dibromomethane	2	ND	1,2,4-Trichlorobenzene	2	ND
1,2-Dichlorobenzene	1	ND	1,1,1-Trichloroethane	1	ND
1,3-Dichlorobenzene	1	ND	1,1,2-Trichloroethane	1	ND
1,4-Dichlorobenzene	1	ND	Trichloroethene	1	ND
Dichlorodifluoromethane	10	ND	Trichlorofluoromethane	2	ND
1,1-Dichloroethane	1	ND	1,2,3-Trichloropropane	1	ND
1,2-Dichloroethane	1	ND	1,2,4-Trimethylbenzene	1	ND
1,1-Dichloroethene	1	ND	1,3,5-Trimethylbenzene	1	ND
cis-1,2-Dichloroethene	1	ND	Vinyl Chloride	5	ND
trans-1,2-Dichloroethene	1	ND	Total Xylenes	2	ND
1,2-Dichloropropane	1	ND	MTBE	2	ND

NUMBER OF UNIDENTIFIED PEAKS FOUND: >10[2]

ANALYTICAL SURROGATE RECOVERY:

Dibromofluoromethane : 100.%
Toluene-d8 : 115.%
4-Bromofluorobenzene : 100.%

NOTES:

1 None detected
2 Unidentified peaks in this sample are Ketones, Aliphatic and Cyclic Hydrocabons ranging from 1 - 10 ug/L.

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LABORATORY REPORT

EPA METHOD 8260 WATER MATRIX

CLIENT: Heindel and Noyes
PROJECT NAME: Stratton/Sun Bowl - Comp.
REPORT DATE: December 2, 1997
DATE SAMPLED: November 19, 1997
DATE RECEIVED: November 24, 1997
ANALYSIS DATE: December 1, 1997

PROJECT CODE: HNST1513
REF.#: 113,675
STATION: Liner Sump
TIME SAMPLED: 2:50
SAMPLER: Brian Beaudoin

Parameter	Detection Limit (ug/L)[1]	Result (ug/L)	Parameter	Detection Limit (ug/L)	Result (ug/L)
Benzene	10	ND[2]	1,3-Dichloropropane	10	ND
Bromobenzene	10	ND	2,2-Dichloropropane	10	ND
Bromochloromethane	20	ND	1,1-Dichloropropene	10	ND
Bromodichloromethane	10	ND	cis-1,3-Dichloropropene	10	ND
Bromoform	10	ND	trans-1,3-Dichloropropene	10	ND
Bromomethane	50	ND	Ethylbenzene	10	52.6
n-Butylbenzene	10	1,040.	Hexachlorobutadiene	50	ND
sec-Butylbenzene	10	201.	Isopropylbenzene	10	57.1
tert-Butylbenzene	10	ND	p-Isopropyltoluene	10	780.
Carbon Tetrachloride	10	ND	Methylene Chloride	50	ND
Chlorobenzene	10	ND	Naphthalene	50	284.
Chloroethane	50	ND	n-Propylbenzene	10	129.
Chloroform	10	ND	Styrene	20	ND
Chloromethane	100	ND	1,1,1,2-Tetrachloroethane	20	ND
2&4-Chlorotoluene	20	ND	1,1,2,2-Tetrachloroethane	20	ND
Dibromochloromethane	10	ND	Tetrachloroethene	10	ND
1,2-Dibromo-3-Chloropropane	20	ND	Toluene	10	37.7
1,2-Dibromoethane	20	ND	1,2,3-Trichlorobenzene	20	ND
Dibromomethane	20	ND	1,2,4-Trichlorobenzene	20	ND
1,2-Dichlorobenzene	10	ND	1,1,1-Trichloroethane	10	ND
1,3-Dichlorobenzene	10	ND	1,1,2-Trichloroethane	10	ND
1,4-Dichlorobenzene	10	ND	Trichloroethene	10	ND
Dichlorodifluoromethane	100	ND	Trichlorofluoromethane	20	ND
1,1-Dichloroethane	10	ND	1,2,3-Trichloropropane	10	ND
1,2-Dichloroethane	10	ND	1,2,4-Trimethylbenzene	10	1,150.
1,1-Dichloroethene	10	ND	1,3,5-Trimethylbenzene	10	725.
cis-1,2-Dichloroethene	10	ND	Vinyl Chloride	50	ND
trans-1,2-Dichloroethene	10	ND	Total Xylenes	20	424.
1,2-Dichloropropane	10	ND	MTBE	20	ND

NUMBER OF UNIDENTIFIED PEAKS FOUND: >10[3]

ANALYTICAL SURROGATE RECOVERY:
Dibromofluoromethane : 95.%
Toluene-d8 : 106.%
4-Bromofluorobenzene : 97.%

NOTES:
1 Detection limit raised due to high levels of contaminants. Sample run at a 10% dilution.
2 None detected
3 Unidentified peaks in this sample are Alkylated Benzenes, PAHs , Aliphatic and Cyclic Hydrocabons ranging from 10 - 5,000 ug/L.

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LABORATORY REPORT

EPA METHOD 8260 WATER MATRIX

CLIENT: Heindel and Noyes
PROJECT NAME: Stratton/Sun Bowl - Comp.
REPORT DATE: December 2, 1997
DATE SAMPLED: November 19, 1997
DATE RECEIVED: November 24, 1997
ANALYSIS DATE: November 29, 1997

PROJECT CODE: HNST1513
REF.#: 113,676
STATION: Trip Blank
TIME SAMPLED: 12:45
SAMPLER: Brian Beaudoin

Parameter	Detection Limit (ug/L)	Result (ug/L)	Parameter	Detection Limit (ug/L)	Result (ug/L)
Benzene	1	ND[1]	1,3-Dichloropropane	1	ND
Bromobenzene	1	ND	2,2-Dichloropropane	1	ND
Bromochloromethane	2	ND	1,1-Dichloropropene	1	ND
Bromodichloromethane	1	ND	cis-1,3-Dichloropropene	1	ND
Bromoform	1	ND	trans-1,3-Dichloropropene	1	ND
Bromomethane	5	ND	Ethylbenzene	1	ND
n-Butylbenzene	1	ND	Hexachlorobutadiene	5	ND
sec-Butylbenzene	1	ND	Isopropylbenzene	1	ND
tert-Butylbenzene	1	ND	p-Isopropyltoluene	1	ND
Carbon Tetrachloride	1	ND	Methylene Chloride	5	ND
Chlorobenzene	1	ND	Naphthalene	5	ND
Chloroethane	5	ND	n-Propylbenzene	1	ND
Chloroform	1	ND	Styrene	2	ND
Chloromethane	10	ND	1,1,1,2-Tetrachloroethane	2	ND
2&4-Chlorotoluene	2	ND	1,1,2,2-Tetrachloroethane	2	ND
Dibromochloromethane	1	ND	Tetrachloroethene	1	ND
1,2-Dibromo-3-Chloropropane	2	ND	Toluene	1	ND
1,2-Dibromoethane	2	ND	1,2,3-Trichlorobenzene	2	ND
Dibromomethane	2	ND	1,2,4-Trichlorobenzene	2	ND
1,2-Dichlorobenzene	1	ND	1,1,1-Trichloroethane	1	ND
1,3-Dichlorobenzene	1	ND	1,1,2-Trichloroethane	1	ND
1,4-Dichlorobenzene	1	ND	Trichloroethene	1	ND
Dichlorodifluoromethane	10	ND	Trichlorofluoromethane	2	ND
1,1-Dichloroethane	1	ND	1,2,3-Trichloropropane	1	ND
1,2-Dichloroethane	1	ND	1,2,4-Trimethylbenzene	1	ND
1,1-Dichloroethene	1	ND	1,3,5-Trimethylbenzene	1	ND
cis-1,2-Dichloroethene	1	ND	Vinyl Chloride	5	ND
trans-1,2-Dichloroethene	1	ND	Total Xylenes	2	ND
1,2-Dichloropropane	1	ND	MTBE	2	ND

NUMBER OF UNIDENTIFIED PEAKS FOUND: 0

ANALYTICAL SURROGATE RECOVERY:
Dibromofluoromethane : 105.%
Toluene-d8 : 116.%
4-Bromofluorobenzene : 98.%

NOTES:
1 None detected

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CHAIN-OF-CUSTODY RECORD

22961

Project Name: Site Location: Stratton/Sun Bowl - Comp	Reporting Address: H&N	Billing Address: 97122
Endyne Project Number: HNST1513	Company: H&N Contact Name/Phone #: Steve Larosa 658-0820	Sampler Name: Brian Beaudoin Phone #: 658-0820

Lab #	Sample Location	Matrix	GRAB	COMP	Date/Time 11/19/97	Sample Containers No.	Sample Containers Type/Size	Field Results/Remarks	Analysis Required	Sample Preservation	Rush
113674	Condensate discharge	H_2O	X		2:38	3	40ml		30	HCl	
113675	Cnev Sump	"	"		2:50	"	"		"	"	
113676	TRIP BLANK	"	"		12:45	"	"		"	"	

Relinquished by: Signature	Received by: Signature Jason Woodard	Date/Time 11/24/97 9:17 A.M.
Relinquished by: Signature	Received by: Signature	Date/Time

New York State Project: Yes ____ No X

Requested Analyses

1	pH	6	TKN	11	Total Solids	16	Metals (Specify)	21	EPA 624	26	EPA 8270 B/N or Acid
2	Chloride	7	Total P	12	TSS	17	Coliform (Specify)	22	EPA 625 B/N or A	27	EPA 8010/8020
3	Ammonia N	8	Total Diss. P	13	TDS	18	COD	23	EPA 418.1	28	EPA 8080 Pest/PCB
4	Nitrite N	9	BOD_5	14	Turbidity	19	BTEX	24	EPA 608 Pest/PCB		
5	Nitrate N	10	Alkalinity	15	Conductivity	20	EPA 601/602	25	EPA 8240		
29	TCLP (Specify: volatiles, semi-volatiles, metals, pesticides, herbicides)										
30	Other (Specify): 8260, mod 8100, mod 8015										

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REPORT OF LABORATORY ANALYSIS

CLIENT: Heindel and Noyes
PROJECT NAME: Stratton/Sun Bowl-Comp
DATE REPORTED: December 9, 1997
DATE SAMPLED: November 19, 1997

PROJECT CODE: HNST1518
REF. #: 113,707 - 113,718

Enclosed please find the results of the analyses performed for the samples referenced on the attached chain of custody record.

Chain of custody indicated sample preservation with HCl.

All samples were prepared and analyzed by requirements outlined in the referenced methods and within the specified holding times.

All instrumentation was calibrated with the appropriate frequency and verified by the requirements outlined in the referenced methods.

Blank contamination was not observed at levels affecting the analytical results.

Analytical method precision and accuracy were monitored by laboratory control standards which included matrix spike, duplicate and quality control analyses. These standards were determined to be within established laboratory method acceptance limits.

Reviewed by,

Harry B. Locker, Ph.D.
Laboratory Director

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(802) 879-4333
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LABORATORY REPORT

TOTAL PETROLEUM HYDROCARBONS (TPH) BY MODIFIED EPA METHOD 8100

DATE: December 9, 1997
CLIENT: Heindel and Noyes
PROJECT: Stratton/Sun Bowl Comp.
PROJECT CODE: HNST1518
COLLECTED BY: Brian Beaudoin
DATE SAMPLED: November 19, 1997
DATE RECEIVED: November 24, 1997

Reference #	Sample ID	Concentration (mg/L)[1]
113,707	SBC-1; 1:15	ND
113,708	SBC-2; 1:08	7.17
113,709	SBC-3; 12:55	ND
113,710	SBC-4; 1:42	ND
113,711	SBC-5; 1:24	ND
113,712	SBC-6; 1:57	ND
113,713	SBC-7; 1:50	ND
113,714	SBC-8; 2:15	ND
113,715	SBC-9; 2:25	ND
113,716	SBC-10; 2:02	ND
113,717	Stream; 2:30	ND
113,718	Duplicate SBC-8; 2:16	ND

Notes:

1 Method detection limit is 0.8 mg/L.
2 None detected

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REPORT OF LABORATORY ANALYSIS

CLIENT: Heindel and Noyes
PROJECT NAME: Stratton/Sun Bowl-Comp./#97122
DATE REPORTED: December 2, 1997
DATE SAMPLED: November 19, 1997

PROJECT CODE: HNST1517
REF. #: 113,695 - 113,706

Enclosed please find the results of the analyses performed for the samples referenced on the attached chain of custody record.

Chain of custody indicated sample preservation with HCl.

All samples were prepared and analyzed by requirements outlined in the referenced methods and within the specified holding times.

All instrumentation was calibrated with the appropriate frequency and verified by the requirements outlined in the referenced methods.

Blank contamination was not observed at levels affecting the analytical results.

Analytical method precision and accuracy were monitored by laboratory control standards which included matrix spike, duplicate and quality control analyses. These standards were determined to be within established laboratory method acceptance limits.

Individual sample performance was monitored by the addition of surrogate analytes to each sample. All surrogate data was determined to be within Laboratory QA/QC guidelines unless otherwise noted.

Reviewed by,

Harry B. Locker, Ph.D.
Laboratory Director

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LABORATORY REPORT

TOTAL PETROLEUM HYDROCARBONS (TPH) BY MODIFIED EPA METHOD 8015

DATE: December 2, 1997
CLIENT: Heindel and Noyes
PROJECT: Stratton/Sun Bowl-Comp./#97122
PROJECT CODE: HNST1517
COLLECTED BY: Brian Beaudoin
DATE SAMPLED: November 19, 1997
DATE RECEIVED: November 24, 1997

Reference #	Sample ID	Concentration (mg/L)[1]
113,695	SBC-1; 1:15	0.15
113,696	SBC-2; 1:08	TBQ[2]
113,697	SBC-3; 12:55	ND[3]
113,698	SBC-4; 1:42	TBQ
113,699	SBC-5; 1:24	ND
113,700	SBC-6; 1:57	ND
113,701	SBC-7; 1:50	ND
113,702	SBC-8; 2:15	ND
113,703	SBC-9; 2:25	ND
113,704	SBC-10; 2:02	ND
113,705	Stream; 2:30	ND
113,706	Duplicate SBC-8; 2:16	ND

Notes:

1 Method detection limit is 0.1 mg/L.
2 Trace below quantitation limit
3 None detected

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REPORT OF LABORATORY ANALYSIS

CLIENT: Heindel and Noyes
PROJECT NAME: Stratton/Sun Bowl - Comp.
REPORT DATE: December 1, 1997
DATE SAMPLED: November 19, 1997

PROJECT CODE: HNST1516
REF. #: 113,683 - 113,694

Enclosed please find the results of the analyses performed for the samples referenced on the attached chain of custody.

Chain of custody indicated sample preservation with HCl.

All samples were prepared and analyzed by requirements outlined in the referenced method and within the specified holding times.

All instrumentation was calibrated with the appropriate frequency and verified by the requirements outlined in the referenced method.

Blank contamination was not observed at levels affecting the analytical results.

Analytical method precision and accuracy was monitored by laboratory control standards which included matrix spike, duplicate and quality control analyses. These standards were determined to be within established laboratory method acceptance limits.

Individual sample performance was monitored by the addition of surrogate analytes to each sample. All surrogate recovery data was determined to be within Laboratory QA/QC guidelines unless otherwise noted.

Reviewed by,

Harry B. Locker, Ph.D.
Laboratory Director

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LABORATORY REPORT

EPA METHOD 8260 WATER MATRIX

CLIENT: Heindel and Noyes
PROJECT NAME: Stratton/Sun Bowl - Comp.
REPORT DATE: December 1, 1997
DATE SAMPLED: November 19, 1997
DATE RECEIVED: November 24, 1997
ANALYSIS DATE: November 29, 1997

PROJECT CODE: HNST1516
REF.#: 113,683
STATION: SBC - 1
TIME SAMPLED: 1:15
SAMPLER: Brian Beaudoin

Parameter	Detection Limit (ug/L)	Result (ug/L)	Parameter	Detection Limit (ug/L)	Result (ug/L)
Benzene	1	ND[1]	1,3-Dichloropropane	1	ND
Bromobenzene	1	ND	2,2-Dichloropropane	1	ND
Bromochloromethane	2	ND	1,1-Dichloropropene	1	ND
Bromodichloromethane	1	ND	cis-1,3-Dichloropropene	1	ND
Bromoform	1	ND	trans-1,3-Dichloropropene	1	ND
Bromomethane	5	ND	Ethylbenzene	1	ND
n-Butylbenzene	1	ND	Hexachlorobutadiene	5	ND
sec-Butylbenzene	1	ND	Isopropylbenzene	1	ND
tert-Butylbenzene	1	ND	p-Isopropyltoluene	1	TBQ[2]
Carbon Tetrachloride	1	ND	Methylene Chloride	5	ND
Chlorobenzene	1	ND	Naphthalene	5	ND
Chloroethane	5	ND	n-Propylbenzene	1	ND
Chloroform	1	ND	Styrene	2	ND
Chloromethane	10	ND	1,1,1,2-Tetrachloroethane	2	ND
2&4-Chlorotoluene	2	ND	1,1,2,2-Tetrachloroethane	2	ND
Dibromochloromethane	1	ND	Tetrachloroethene	1	ND
1,2-Dibromo-3-Chloropropane	2	ND	Toluene	1	ND
1,2-Dibromoethane	2	ND	1,2,3-Trichlorobenzene	2	ND
Dibromomethane	2	ND	1,2,4-Trichlorobenzene	2	ND
1,2-Dichlorobenzene	1	ND	1,1,1-Trichloroethane	1	ND
1,3-Dichlorobenzene	1	ND	1,1,2-Trichloroethane	1	ND
1,4-Dichlorobenzene	1	ND	Trichloroethene	1	ND
Dichlorodifluoromethane	10	ND	Trichlorofluoromethane	2	ND
1,1-Dichloroethane	1	ND	1,2,3-Trichloropropane	1	ND
1,2-Dichloroethane	1	ND	1,2,4-Trimethylbenzene	1	2.9
1,1-Dichloroethene	1	ND	1,3,5-Trimethylbenzene	1	TBQ
cis-1,2-Dichloroethene	1	ND	Vinyl Chloride	5	ND
trans-1,2-Dichloroethene	1	ND	Total Xylenes	2	ND
1,2-Dichloropropane	1	ND	MTBE	2	ND

NUMBER OF UNIDENTIFIED PEAKS FOUND: >10[3]

ANALYTICAL SURROGATE RECOVERY:
Dibromofluoromethane : 110.%
Toluene-d8 : 115.%
4-Bromofluorobenzene : 94.%

NOTES:
1 None detected
2 Trace below quantitation limit
3 Unidentified peaks in this sample are Alkylated Benzenes at trace levels.

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LABORATORY REPORT

EPA METHOD 8260 WATER MATRIX

CLIENT: Heindel and Noyes
PROJECT NAME: Stratton/Sun Bowl - Comp.
REPORT DATE: December 1, 1997
DATE SAMPLED: November 19, 1997
DATE RECEIVED: November 24, 1997
ANALYSIS DATE: November 29, 1997

PROJECT CODE: HNST1516
REF.#: 113,684
STATION: SBC - 2
TIME SAMPLED: 1:08
SAMPLER: Brian Beaudoin

Parameter	Detection Limit (ug/L)	Result (ug/L)	Parameter	Detection Limit (ug/L)	Result (ug/L)
Benzene	1	ND[1]	1,3-Dichloropropane	1	ND
Bromobenzene	1	ND	2,2-Dichloropropane	1	ND
Bromochloromethane	2	ND	1,1-Dichloropropene	1	ND
Bromodichloromethane	1	ND	cis-1,3-Dichloropropene	1	ND
Bromoform	1	ND	trans-1,3-Dichloropropene	1	ND
Bromomethane	5	ND	Ethylbenzene	1	ND
n-Butylbenzene	1	ND	Hexachlorobutadiene	5	ND
sec-Butylbenzene	1	ND	Isopropylbenzene	1	ND
tert-Butylbenzene	1	ND	p-Isopropyltoluene	1	TBQ[2]
Carbon Tetrachloride	1	ND	Methylene Chloride	5	ND
Chlorobenzene	1	ND	Naphthalene	5	ND
Chloroethane	5	ND	n-Propylbenzene	1	ND
Chloroform	1	ND	Styrene	2	ND
Chloromethane	10	ND	1,1,1,2-Tetrachloroethane	2	ND
2&4-Chlorotoluene	2	ND	1,1,2,2-Tetrachloroethane	2	ND
Dibromochloromethane	1	ND	Tetrachloroethene	1	ND
1,2-Dibromo-3-Chloropropane	2	ND	Toluene	1	14.4
1,2-Dibromoethane	2	ND	1,2,3-Trichlorobenzene	2	ND
Dibromomethane	2	ND	1,2,4-Trichlorobenzene	2	ND
1,2-Dichlorobenzene	1	ND	1,1,1-Trichloroethane	1	ND
1,3-Dichlorobenzene	1	ND	1,1,2-Trichloroethane	1	ND
1,4-Dichlorobenzene	1	ND	Trichloroethene	1	ND
Dichlorodifluoromethane	10	ND	Trichlorofluoromethane	2	ND
1,1-Dichloroethane	1	ND	1,2,3-Trichloropropane	1	ND
1,2-Dichloroethane	1	ND	1,2,4-Trimethylbenzene	1	ND
1,1-Dichloroethene	1	ND	1,3,5-Trimethylbenzene	1	ND
cis-1,2-Dichloroethene	1	ND	Vinyl Chloride	5	ND
trans-1,2-Dichloroethene	1	ND	Total Xylenes	2	ND
1,2-Dichloropropane	1	ND	MTBE	2	ND

NUMBER OF UNIDENTIFIED PEAKS FOUND: >10[3]

ANALYTICAL SURROGATE RECOVERY:

Dibromofluoromethane : 101.%
Toluene-d8 : 115.%
4-Bromofluorobenzene : 96.%

NOTES:

1 None detected
2 Trace below quantitation limit
3 Unidentified peaks in this sample are Alkylated Benzenes and Aliphatic Hydrocarbons at trace levels.

ENDYNE, INC.

Laboratory Services

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FAX 879-7103

LABORATORY REPORT

EPA METHOD 8260 WATER MATRIX

CLIENT: Heindel and Noyes
PROJECT NAME: Stratton/Sun Bowl - Comp.
REPORT DATE: December 1, 1997
DATE SAMPLED: November 19, 1997
DATE RECEIVED: November 24, 1997
ANALYSIS DATE: November 29, 1997

PROJECT CODE: HNST1516
REF.#: 113,685
STATION: SBC - 3
TIME SAMPLED: 12:55
SAMPLER: Brian Beaudoin

Parameter	Detection Limit (ug/L)	Result (ug/L)	Parameter	Detection Limit (ug/L)	Result (ug/L)
Benzene	1	ND[1]	1,3-Dichloropropane	1	ND
Bromobenzene	1	ND	2,2-Dichloropropane	1	ND
Bromochloromethane	2	ND	1,1-Dichloropropene	1	ND
Bromodichloromethane	1	ND	cis-1,3-Dichloropropene	1	ND
Bromoform	1	ND	trans-1,3-Dichloropropene	1	ND
Bromomethane	5	ND	Ethylbenzene	1	ND
n-Butylbenzene	1	ND	Hexachlorobutadiene	5	ND
sec-Butylbenzene	1	ND	Isopropylbenzene	1	ND
tert-Butylbenzene	1	ND	p-Isopropyltoluene	1	ND
Carbon Tetrachloride	1	ND	Methylene Chloride	5	ND
Chlorobenzene	1	ND	Naphthalene	5	ND
Chloroethane	5	ND	n-Propylbenzene	1	ND
Chloroform	1	ND	Styrene	2	ND
Chloromethane	10	ND	1,1,1,2-Tetrachloroethane	2	ND
2&4-Chlorotoluene	2	ND	1,1,2,2-Tetrachloroethane	2	ND
Dibromochloromethane	1	ND	Tetrachloroethene	1	ND
1,2-Dibromo-3-Chloropropane	2	ND	Toluene	1	ND
1,2-Dibromoethane	2	ND	1,2,3-Trichlorobenzene	2	ND
Dibromomethane	2	ND	1,2,4-Trichlorobenzene	2	ND
1,2-Dichlorobenzene	1	ND	1,1,1-Trichloroethane	1	ND
1,3-Dichlorobenzene	1	ND	1,1,2-Trichloroethane	1	ND
1,4-Dichlorobenzene	1	ND	Trichloroethene	1	ND
Dichlorodifluoromethane	10	ND	Trichlorofluoromethane	2	ND
1,1-Dichloroethane	1	ND	1,2,3-Trichloropropane	1	ND
1,2-Dichloroethane	1	ND	1,2,4-Trimethylbenzene	1	ND
1,1-Dichloroethene	1	ND	1,3,5-Trimethylbenzene	1	ND
cis-1,2-Dichloroethene	1	ND	Vinyl Chloride	5	ND
trans-1,2-Dichloroethene	1	ND	Total Xylenes	2	ND
1,2-Dichloropropane	1	ND	MTBE	2	ND

NUMBER OF UNIDENTIFIED PEAKS FOUND: 0

ANALYTICAL SURROGATE RECOVERY:

Dibromofluoromethane : 105.%
Toluene-d8 : 79.%
4-Bromofluorobenzene : 97.%

NOTES:
1 None detected

ENDYNE, INC.

Laboratory Services

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LABORATORY REPORT

EPA METHOD 8260 WATER MATRIX

CLIENT: Heindel and Noyes
PROJECT NAME: Stratton/Sun Bowl - Comp.
REPORT DATE: December 1, 1997
DATE SAMPLED: November 19, 1997
DATE RECEIVED: November 24, 1997
ANALYSIS DATE: November 29, 1997

PROJECT CODE: HNST1516
REF.#: 113,686
STATION: SBC - 4
TIME SAMPLED: 1:42
SAMPLER: Brian Beaudoin

Parameter	Detection Limit (ug/L)	Result (ug/L)	Parameter	Detection Limit (ug/L)	Result (ug/L)
Benzene	1	ND[1]	1,3-Dichloropropane	1	ND
Bromobenzene	1	ND	2,2-Dichloropropane	1	ND
Bromochloromethane	2	ND	1,1-Dichloropropene	1	ND
Bromodichloromethane	1	ND	cis-1,3-Dichloropropene	1	ND
Bromoform	1	ND	trans-1,3-Dichloropropene	1	ND
Bromomethane	5	ND	Ethylbenzene	1	ND
n-Butylbenzene	1	ND	Hexachlorobutadiene	5	ND
sec-Butylbenzene	1	ND	Isopropylbenzene	1	ND
tert-Butylbenzene	1	ND	p-Isopropyltoluene	1	ND
Carbon Tetrachloride	1	ND	Methylene Chloride	5	ND
Chlorobenzene	1	ND	Naphthalene	5	ND
Chloroethane	5	ND	n-Propylbenzene	1	ND
Chloroform	1	ND	Styrene	2	ND
Chloromethane	10	ND	1,1,1,2-Tetrachloroethane	2	ND
2&4-Chlorotoluene	2	ND	1,1,2,2-Tetrachloroethane	2	ND
Dibromochloromethane	1	ND	Tetrachloroethene	1	ND
1,2-Dibromo-3-Chloropropane	2	ND	Toluene	1	ND
1,2-Dibromoethane	2	ND	1,2,3-Trichlorobenzene	2	ND
Dibromomethane	2	ND	1,2,4-Trichlorobenzene	2	ND
1,2-Dichlorobenzene	1	ND	1,1,1-Trichloroethane	1	ND
1,3-Dichlorobenzene	1	ND	1,1,2-Trichloroethane	1	ND
1,4-Dichlorobenzene	1	ND	Trichloroethene	1	ND
Dichlorodifluoromethane	10	ND	Trichlorofluoromethane	2	ND
1,1-Dichloroethane	1	ND	1,2,3-Trichloropropane	1	ND
1,2-Dichloroethane	1	ND	1,2,4-Trimethylbenzene	1	ND
1,1-Dichloroethene	1	ND	1,3,5-Trimethylbenzene	1	ND
cis-1,2-Dichloroethene	1	ND	Vinyl Chloride	5	ND
trans-1,2-Dichloroethene	1	ND	Total Xylenes	2	ND
1,2-Dichloropropane	1	ND	MTBE	2	ND

NUMBER OF UNIDENTIFIED PEAKS FOUND: 2[2]

ANALYTICAL SURROGATE RECOVERY:
Dibromofluoromethane : 104.%
Toluene-d8 : 115.%
4-Bromofluorobenzene : 98.%

NOTES:
1 None detected
2 Unidentified peaks in this sample are Aliphatic Hydrocarbons at approximately 10 ug/L.

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LABORATORY REPORT

EPA METHOD 8260 WATER MATRIX

CLIENT: Heindel and Noyes
PROJECT NAME: Stratton/Sun Bowl - Comp.
REPORT DATE: December 1, 1997
DATE SAMPLED: November 19, 1997
DATE RECEIVED: November 24, 1997
ANALYSIS DATE: November 29, 1997

PROJECT CODE: HNST1516
REF.#: 113,687
STATION: SBC - 5
TIME SAMPLED: 1:24
SAMPLER: Brian Beaudoin

Parameter	Detection Limit (ug/L)	Result (ug/L)	Parameter	Detection Limit (ug/L)	Result (ug/L)
Benzene	1	ND[1]	1,3-Dichloropropane	1	ND
Bromobenzene	1	ND	2,2-Dichloropropane	1	ND
Bromochloromethane	2	ND	1,1-Dichloropropene	1	ND
Bromodichloromethane	1	ND	cis-1,3-Dichloropropene	1	ND
Bromoform	1	ND	trans-1,3-Dichloropropene	1	ND
Bromomethane	5	ND	Ethylbenzene	1	ND
n-Butylbenzene	1	ND	Hexachlorobutadiene	5	ND
sec-Butylbenzene	1	ND	Isopropylbenzene	1	ND
tert-Butylbenzene	1	ND	p-Isopropyltoluene	1	ND
Carbon Tetrachloride	1	ND	Methylene Chloride	5	ND
Chlorobenzene	1	ND	Naphthalene	5	ND
Chloroethane	5	ND	n-Propylbenzene	1	ND
Chloroform	1	ND	Styrene	2	ND
Chloromethane	10	ND	1,1,1,2-Tetrachloroethane	2	ND
2&4-Chlorotoluene	2	ND	1,1,2,2-Tetrachloroethane	2	ND
Dibromochloromethane	1	ND	Tetrachloroethene	1	ND
1,2-Dibromo-3-Chloropropane	2	ND	Toluene	1	ND
1,2-Dibromoethane	2	ND	1,2,3-Trichlorobenzene	2	ND
Dibromomethane	2	ND	1,2,4-Trichlorobenzene	2	ND
1,2-Dichlorobenzene	1	ND	1,1,1-Trichloroethane	1	ND
1,3-Dichlorobenzene	1	ND	1,1,2-Trichloroethane	1	ND
1,4-Dichlorobenzene	1	ND	Trichloroethene	1	ND
Dichlorodifluoromethane	10	ND	Trichlorofluoromethane	2	ND
1,1-Dichloroethane	1	ND	1,2,3-Trichloropropane	1	ND
1,2-Dichloroethane	1	ND	1,2,4-Trimethylbenzene	1	ND
1,1-Dichloroethene	1	ND	1,3,5-Trimethylbenzene	1	ND
cis-1,2-Dichloroethene	1	ND	Vinyl Chloride	5	ND
trans-1,2-Dichloroethene	1	ND	Total Xylenes	2	ND
1,2-Dichloropropane	1	ND	MTBE	2	ND

NUMBER OF UNIDENTIFIED PEAKS FOUND: 0

ANALYTICAL SURROGATE RECOVERY:
Dibromofluoromethane : 103.%
Toluene-d8 : 114.%
4-Bromofluorobenzene : 97.%

NOTES:
1 None detected

ENDYNE, INC.

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LABORATORY REPORT

EPA METHOD 8260 WATER MATRIX

CLIENT: Heindel and Noyes
PROJECT NAME: Stratton/Sun Bowl - Comp.
REPORT DATE: December 1, 1997
DATE SAMPLED: November 19, 1997
DATE RECEIVED: November 24, 1997
ANALYSIS DATE: November 29, 1997

PROJECT CODE: HNST1516
REF.#: 113,688
STATION: SBC - 6
TIME SAMPLED: 1:57
SAMPLER: Brian Beaudoin

Parameter	Detection Limit (ug/L)	Result (ug/L)	Parameter	Detection Limit (ug/L)	Result (ug/L)
Benzene	1	ND[1]	1,3-Dichloropropane	1	ND
Bromobenzene	1	ND	2,2-Dichloropropane	1	ND
Bromochloromethane	2	ND	1,1-Dichloropropene	1	ND
Bromodichloromethane	1	ND	cis-1,3-Dichloropropene	1	ND
Bromoform	1	ND	trans-1,3-Dichloropropene	1	ND
Bromomethane	5	ND	Ethylbenzene	1	ND
n-Butylbenzene	1	ND	Hexachlorobutadiene	5	ND
sec-Butylbenzene	1	ND	Isopropylbenzene	1	ND
tert-Butylbenzene	1	ND	p-Isopropyltoluene	1	ND
Carbon Tetrachloride	1	ND	Methylene Chloride	5	ND
Chlorobenzene	1	ND	Naphthalene	5	ND
Chloroethane	5	ND	n-Propylbenzene	1	ND
Chloroform	1	ND	Styrene	2	ND
Chloromethane	10	ND	1,1,1,2-Tetrachloroethane	2	ND
2&4-Chlorotoluene	2	ND	1,1,2,2-Tetrachloroethane	2	ND
Dibromochloromethane	1	ND	Tetrachloroethene	1	ND
1,2-Dibromo-3-Chloropropane	2	ND	Toluene	1	ND
1,2-Dibromoethane	2	ND	1,2,3-Trichlorobenzene	2	ND
Dibromomethane	2	ND	1,2,4-Trichlorobenzene	2	ND
1,2-Dichlorobenzene	1	ND	1,1,1-Trichloroethane	1	ND
1,3-Dichlorobenzene	1	ND	1,1,2-Trichloroethane	1	ND
1,4-Dichlorobenzene	1	ND	Trichloroethene	1	ND
Dichlorodifluoromethane	10	ND	Trichlorofluoromethane	2	ND
1,1-Dichloroethane	1	ND	1,2,3-Trichloropropane	1	ND
1,2-Dichloroethane	1	ND	1,2,4-Trimethylbenzene	1	ND
1,1-Dichloroethene	1	ND	1,3,5-Trimethylbenzene	1	ND
cis-1,2-Dichloroethene	1	ND	Vinyl Chloride	5	ND
trans-1,2-Dichloroethene	1	ND	Total Xylenes	2	ND
1,2-Dichloropropane	1	ND	MTBE	2	ND

NUMBER OF UNIDENTIFIED PEAKS FOUND: 0

ANALYTICAL SURROGATE RECOVERY:
Dibromofluoromethane : 94.%
Toluene-d8 : 114.%
4-Bromofluorobenzene : 89.%

NOTES:
1 None detected

ENDYNE, INC.

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LABORATORY REPORT

EPA METHOD 8260 WATER MATRIX

CLIENT: Heindel and Noyes
PROJECT NAME: Stratton/Sun Bowl - Comp.
REPORT DATE: December 1, 1997
DATE SAMPLED: November 19, 1997
DATE RECEIVED: November 24, 1997
ANALYSIS DATE: November 29, 1997

PROJECT CODE: HNST1516
REF.#: 113,689
STATION: SBC - 7
TIME SAMPLED: 1:50
SAMPLER: Brian Beaudoin

Parameter	Detection Limit (ug/L)	Result (ug/L)	Parameter	Detection Limit (ug/L)	Result (ug/L)
Benzene	1	ND[1]	1,3-Dichloropropane	1	ND
Bromobenzene	1	ND	2,2-Dichloropropane	1	ND
Bromochloromethane	2	ND	1,1-Dichloropropene	1	ND
Bromodichloromethane	1	ND	cis-1,3-Dichloropropene	1	ND
Bromoform	1	ND	trans-1,3-Dichloropropene	1	ND
Bromomethane	5	ND	Ethylbenzene	1	ND
n-Butylbenzene	1	ND	Hexachlorobutadiene	5	ND
sec-Butylbenzene	1	ND	Isopropylbenzene	1	ND
tert-Butylbenzene	1	ND	p-Isopropyltoluene	1	ND
Carbon Tetrachloride	1	ND	Methylene Chloride	5	ND
Chlorobenzene	1	ND	Naphthalene	5	ND
Chloroethane	5	ND	n-Propylbenzene	1	ND
Chloroform	1	ND	Styrene	2	ND
Chloromethane	10	ND	1,1,1,2-Tetrachloroethane	2	ND
2&4-Chlorotoluene	2	ND	1,1,2,2-Tetrachloroethane	2	ND
Dibromochloromethane	1	ND	Tetrachloroethene	1	ND
1,2-Dibromo-3-Chloropropane	2	ND	Toluene	1	ND
1,2-Dibromoethane	2	ND	1,2,3-Trichlorobenzene	2	ND
Dibromomethane	2	ND	1,2,4-Trichlorobenzene	2	ND
1,2-Dichlorobenzene	1	ND	1,1,1-Trichloroethane	1	ND
1,3-Dichlorobenzene	1	ND	1,1,2-Trichloroethane	1	ND
1,4-Dichlorobenzene	1	ND	Trichloroethene	1	ND
Dichlorodifluoromethane	10	ND	Trichlorofluoromethane	2	ND
1,1-Dichloroethane	1	ND	1,2,3-Trichloropropane	1	ND
1,2-Dichloroethane	1	ND	1,2,4-Trimethylbenzene	1	ND
1,1-Dichloroethene	1	ND	1,3,5-Trimethylbenzene	1	ND
cis-1,2-Dichloroethene	1	ND	Vinyl Chloride	5	ND
trans-1,2-Dichloroethene	1	ND	Total Xylenes	2	ND
1,2-Dichloropropane	1	ND	MTBE	2	ND

NUMBER OF UNIDENTIFIED PEAKS FOUND: 0

ANALYTICAL SURROGATE RECOVERY:
Dibromofluoromethane : 103.%
Toluene-d8 : 115.%
4-Bromofluorobenzene : 98.%

NOTES:
1 None detected

ENDYNE, INC.

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LABORATORY REPORT

EPA METHOD 8260 WATER MATRIX

CLIENT: Heindel and Noyes
PROJECT NAME: Stratton/Sun Bowl - Comp.
REPORT DATE: December 1, 1997
DATE SAMPLED: November 19, 1997
DATE RECEIVED: November 24, 1997
ANALYSIS DATE: November 29, 1997

PROJECT CODE: HNST1516
REF.#: 113,690
STATION: SBC - 8
TIME SAMPLED: 2:15
SAMPLER: Brian Beaudoin

Parameter	Detection Limit (ug/L)	Result (ug/L)	Parameter	Detection Limit (ug/L)	Result (ug/L)
Benzene	1	ND[1]	1,3-Dichloropropane	1	ND
Bromobenzene	1	ND	2,2-Dichloropropane	1	ND
Bromochloromethane	2	ND	1,1-Dichloropropene	1	ND
Bromodichloromethane	1	ND	cis-1,3-Dichloropropene	1	ND
Bromoform	1	ND	trans-1,3-Dichloropropene	1	ND
Bromomethane	5	ND	Ethylbenzene	1	ND
n-Butylbenzene	1	ND	Hexachlorobutadiene	5	ND
sec-Butylbenzene	1	ND	Isopropylbenzene	1	ND
tert-Butylbenzene	1	ND	p-Isopropyltoluene	1	ND
Carbon Tetrachloride	1	ND	Methylene Chloride	5	ND
Chlorobenzene	1	ND	Naphthalene	5	ND
Chloroethane	5	ND	n-Propylbenzene	1	ND
Chloroform	1	ND	Styrene	2	ND
Chloromethane	10	ND	1,1,1,2-Tetrachloroethane	2	ND
2&4-Chlorotoluene	2	ND	1,1,2,2-Tetrachloroethane	2	ND
Dibromochloromethane	1	ND	Tetrachloroethene	1	ND
1,2-Dibromo-3-Chloropropane	2	ND	Toluene	1	ND
1,2-Dibromoethane	2	ND	1,2,3-Trichlorobenzene	2	ND
Dibromomethane	2	ND	1,2,4-Trichlorobenzene	2	ND
1,2-Dichlorobenzene	1	ND	1,1,1-Trichloroethane	1	ND
1,3-Dichlorobenzene	1	ND	1,1,2-Trichloroethane	1	ND
1,4-Dichlorobenzene	1	ND	Trichloroethene	1	ND
Dichlorodifluoromethane	10	ND	Trichlorofluoromethane	2	ND
1,1-Dichloroethane	1	ND	1,2,3-Trichloropropane	1	ND
1,2-Dichloroethane	1	ND	1,2,4-Trimethylbenzene	1	ND
1,1-Dichloroethene	1	ND	1,3,5-Trimethylbenzene	1	ND
cis-1,2-Dichloroethene	1	ND	Vinyl Chloride	5	ND
trans-1,2-Dichloroethene	1	ND	Total Xylenes	2	ND
1,2-Dichloropropane	1	ND	MTBE	2	ND

NUMBER OF UNIDENTIFIED PEAKS FOUND: 0

ANALYTICAL SURROGATE RECOVERY:
Dibromofluoromethane : 106.%
Toluene-d8 : 115.%
4-Bromofluorobenzene : 96.%

NOTES:
1 None detected

ENDYNE, INC.

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LABORATORY REPORT

EPA METHOD 8260 WATER MATRIX

CLIENT: Heindel and Noyes
PROJECT NAME: Stratton/Sun Bowl - Comp.
REPORT DATE: December 1, 1997
DATE SAMPLED: November 19, 1997
DATE RECEIVED: November 24, 1997
ANALYSIS DATE: November 29, 1997

PROJECT CODE: HNST1516
REF.#: 113,691
STATION: SBC - 9
TIME SAMPLED: 2:25
SAMPLER: Brian Beaudoin

Parameter	Detection Limit (ug/L)	Result (ug/L)	Parameter	Detection Limit (ug/L)	Result (ug/L)
Benzene	1	ND[1]	1,3-Dichloropropane	1	ND
Bromobenzene	1	ND	2,2-Dichloropropane	1	ND
Bromochloromethane	2	ND	1,1-Dichloropropene	1	ND
Bromodichloromethane	1	ND	cis-1,3-Dichloropropene	1	ND
Bromoform	1	ND	trans-1,3-Dichloropropene	1	ND
Bromomethane	5	ND	Ethylbenzene	1	ND
n-Butylbenzene	1	ND	Hexachlorobutadiene	5	ND
sec-Butylbenzene	1	ND	Isopropylbenzene	1	ND
tert-Butylbenzene	1	ND	p-Isopropyltoluene	1	ND
Carbon Tetrachloride	1	ND	Methylene Chloride	5	ND
Chlorobenzene	1	ND	Naphthalene	5	ND
Chloroethane	5	ND	n-Propylbenzene	1	ND
Chloroform	1	ND	Styrene	2	ND
Chloromethane	10	ND	1,1,1,2-Tetrachloroethane	2	ND
2&4-Chlorotoluene	2	ND	1,1,2,2-Tetrachloroethane	2	ND
Dibromochloromethane	1	ND	Tetrachloroethene	1	ND
1,2-Dibromo-3-Chloropropane	2	ND	Toluene	1	ND
1,2-Dibromoethane	2	ND	1,2,3-Trichlorobenzene	2	ND
Dibromomethane	2	ND	1,2,4-Trichlorobenzene	2	ND
1,2-Dichlorobenzene	1	ND	1,1,1-Trichloroethane	1	ND
1,3-Dichlorobenzene	1	ND	1,1,2-Trichloroethane	1	ND
1,4-Dichlorobenzene	1	ND	Trichloroethene	1	ND
Dichlorodifluoromethane	10	ND	Trichlorofluoromethane	2	ND
1,1-Dichloroethane	1	ND	1,2,3-Trichloropropane	1	ND
1,2-Dichloroethane	1	ND	1,2,4-Trimethylbenzene	1	ND
1,1-Dichloroethene	1	ND	1,3,5-Trimethylbenzene	1	ND
cis-1,2-Dichloroethene	1	ND	Vinyl Chloride	5	ND
trans-1,2-Dichloroethene	1	ND	Total Xylenes	2	ND
1,2-Dichloropropane	1	ND	MTBE	2	ND

NUMBER OF UNIDENTIFIED PEAKS FOUND: 0

ANALYTICAL SURROGATE RECOVERY:
Dibromofluoromethane : 103.%
Toluene-d8 : 114.%
4-Bromofluorobenzene : 96.%

NOTES:
1 None detected

ENDYNE, INC.

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LABORATORY REPORT

EPA METHOD 8260 WATER MATRIX

CLIENT: Heindel and Noyes
PROJECT NAME: Stratton/Sun Bowl - Comp.
REPORT DATE: December 1, 1997
DATE SAMPLED: November 19, 1997
DATE RECEIVED: November 24, 1997
ANALYSIS DATE: November 29, 1997

PROJECT CODE: HNST1516
REF.#: 113,692
STATION: SBC - 10
TIME SAMPLED: 2:02
SAMPLER: Brian Beaudoin

Parameter	Detection Limit (ug/L)	Result (ug/L)	Parameter	Detection Limit (ug/L)	Result (ug/L)
Benzene	1	ND[1]	1,3-Dichloropropane	1	ND
Bromobenzene	1	ND	2,2-Dichloropropane	1	ND
Bromochloromethane	2	ND	1,1-Dichloropropene	1	ND
Bromodichloromethane	1	ND	cis-1,3-Dichloropropene	1	ND
Bromoform	1	ND	trans-1,3-Dichloropropene	1	ND
Bromomethane	5	ND	Ethylbenzene	1	ND
n-Butylbenzene	1	ND	Hexachlorobutadiene	5	ND
sec-Butylbenzene	1	ND	Isopropylbenzene	1	ND
tert-Butylbenzene	1	ND	p-Isopropyltoluene	1	ND
Carbon Tetrachloride	1	ND	Methylene Chloride	5	ND
Chlorobenzene	1	ND	Naphthalene	5	ND
Chloroethane	5	ND	n-Propylbenzene	1	ND
Chloroform	1	ND	Styrene	2	ND
Chloromethane	10	ND	1,1,1,2-Tetrachloroethane	2	ND
2&4-Chlorotoluene	2	ND	1,1,2,2-Tetrachloroethane	2	ND
Dibromochloromethane	1	ND	Tetrachloroethene	1	ND
1,2-Dibromo-3-Chloropropane	2	ND	Toluene	1	ND
1,2-Dibromoethane	2	ND	1,2,3-Trichlorobenzene	2	ND
Dibromomethane	2	ND	1,2,4-Trichlorobenzene	2	ND
1,2-Dichlorobenzene	1	ND	1,1,1-Trichloroethane	1	ND
1,3-Dichlorobenzene	1	ND	1,1,2-Trichloroethane	1	ND
1,4-Dichlorobenzene	1	ND	Trichloroethene	1	ND
Dichlorodifluoromethane	10	ND	Trichlorofluoromethane	2	ND
1,1-Dichloroethane	1	ND	1,2,3-Trichloropropane	1	ND
1,2-Dichloroethane	1	ND	1,2,4-Trimethylbenzene	1	ND
1,1-Dichloroethene	1	ND	1,3,5-Trimethylbenzene	1	ND
cis-1,2-Dichloroethene	1	ND	Vinyl Chloride	5	ND
trans-1,2-Dichloroethene	1	ND	Total Xylenes	2	ND
1,2-Dichloropropane	1	ND	MTBE	2	ND

NUMBER OF UNIDENTIFIED PEAKS FOUND: 0

ANALYTICAL SURROGATE RECOVERY:

Dibromofluoromethane : 101.%
Toluene-d8 : 115.%
4-Bromofluorobenzene : 99.%

NOTES:
1 None detected

ENDYNE, INC.

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LABORATORY REPORT

EPA METHOD 8260 WATER MATRIX

CLIENT: Heindel and Noyes
PROJECT NAME: Stratton/Sun Bowl - Comp.
REPORT DATE: December 1, 1997
DATE SAMPLED: November 19, 1997
DATE RECEIVED: November 24, 1997
ANALYSIS DATE: November 29, 1997

PROJECT CODE: HNST1516
REF.#: 113,693
STATION: Stream
TIME SAMPLED: 2:30
SAMPLER: Brian Beaudoin

Parameter	Detection Limit (ug/L)	Result (ug/L)	Parameter	Detection Limit (ug/L)	Result (ug/L)
Benzene	1	ND[1]	1,3-Dichloropropane	1	ND
Bromobenzene	1	ND	2,2-Dichloropropane	1	ND
Bromochloromethane	2	ND	1,1-Dichloropropene	1	ND
Bromodichloromethane	1	ND	cis-1,3-Dichloropropene	1	ND
Bromoform	1	ND	trans-1,3-Dichloropropene	1	ND
Bromomethane	5	ND	Ethylbenzene	1	ND
n-Butylbenzene	1	ND	Hexachlorobutadiene	5	ND
sec-Butylbenzene	1	ND	Isopropylbenzene	1	ND
tert-Butylbenzene	1	ND	p-Isopropyltoluene	1	ND
Carbon Tetrachloride	1	ND	Methylene Chloride	5	ND
Chlorobenzene	1	ND	Naphthalene	5	ND
Chloroethane	5	ND	n-Propylbenzene	1	ND
Chloroform	1	ND	Styrene	2	ND
Chloromethane	10	ND	1,1,1,2-Tetrachloroethane	2	ND
2&4-Chlorotoluene	2	ND	1,1,2,2-Tetrachloroethane	2	ND
Dibromochloromethane	1	ND	Tetrachloroethene	1	ND
1,2-Dibromo-3-Chloropropane	2	ND	Toluene	1	ND
1,2-Dibromoethane	2	ND	1,2,3-Trichlorobenzene	2	ND
Dibromomethane	2	ND	1,2,4-Trichlorobenzene	2	ND
1,2-Dichlorobenzene	1	ND	1,1,1-Trichloroethane	1	ND
1,3-Dichlorobenzene	1	ND	1,1,2-Trichloroethane	1	ND
1,4-Dichlorobenzene	1	ND	Trichloroethene	1	ND
Dichlorodifluoromethane	10	ND	Trichlorofluoromethane	2	ND
1,1-Dichloroethane	1	ND	1,2,3-Trichloropropane	1	ND
1,2-Dichloroethane	1	ND	1,2,4-Trimethylbenzene	1	ND
1,1-Dichloroethene	1	ND	1,3,5-Trimethylbenzene	1	ND
cis-1,2-Dichloroethene	1	ND	Vinyl Chloride	5	ND
trans-1,2-Dichloroethene	1	ND	Total Xylenes	2	ND
1,2-Dichloropropane	1	ND	MTBE	2	ND

NUMBER OF UNIDENTIFIED PEAKS FOUND: 0

ANALYTICAL SURROGATE RECOVERY:

Dibromofluoromethane : 102.%
Toluene-d8 : 114.%
4-Bromofluorobenzene : 103.%

NOTES:
1 None detected

ENDYNE, INC.

Laboratory Services

32 James Brown Drive
Williston, Vermont 05495
(802) 879-4333
FAX 879-7103

LABORATORY REPORT

EPA METHOD 8260 WATER MATRIX

CLIENT: Heindel and Noyes
PROJECT NAME: Stratton/Sun Bowl - Comp.
REPORT DATE: December 1, 1997
DATE SAMPLED: November 19, 1997
DATE RECEIVED: November 24, 1997
ANALYSIS DATE: November 29, 1997

PROJECT CODE: HNST1516
REF.#: 113,694
STATION: Duplicate SBC - 8
TIME SAMPLED: 2:16
SAMPLER: Brian Beaudoin

Parameter	Detection Limit (ug/L)	Result (ug/L)	Parameter	Detection Limit (ug/L)	Result (ug/L)
Benzene	1	ND[1]	1,3-Dichloropropane	1	ND
Bromobenzene	1	ND	2,2-Dichloropropane	1	ND
Bromochloromethane	2	ND	1,1-Dichloropropene	1	ND
Bromodichloromethane	1	ND	cis-1,3-Dichloropropene	1	ND
Bromoform	1	ND	trans-1,3-Dichloropropene	1	ND
Bromomethane	5	ND	Ethylbenzene	1	ND
n-Butylbenzene	1	ND	Hexachlorobutadiene	5	ND
sec-Butylbenzene	1	ND	Isopropylbenzene	1	ND
tert-Butylbenzene	1	ND	p-Isopropyltoluene	1	ND
Carbon Tetrachloride	1	ND	Methylene Chloride	5	ND
Chlorobenzene	1	ND	Naphthalene	5	ND
Chloroethane	5	ND	n-Propylbenzene	1	ND
Chloroform	1	ND	Styrene	2	ND
Chloromethane	10	ND	1,1,1,2-Tetrachloroethane	2	ND
2&4-Chlorotoluene	2	ND	1,1,2,2-Tetrachloroethane	2	ND
Dibromochloromethane	1	ND	Tetrachloroethene	1	ND
1,2-Dibromo-3-Chloropropane	2	ND	Toluene	1	ND
1,2-Dibromoethane	2	ND	1,2,3-Trichlorobenzene	2	ND
Dibromomethane	2	ND	1,2,4-Trichlorobenzene	2	ND
1,2-Dichlorobenzene	1	ND	1,1,1-Trichloroethane	1	ND
1,3-Dichlorobenzene	1	ND	1,1,2-Trichloroethane	1	ND
1,4-Dichlorobenzene	1	ND	Trichloroethene	1	ND
Dichlorodifluoromethane	10	ND	Trichlorofluoromethane	2	ND
1,1-Dichloroethane	1	ND	1,2,3-Trichloropropane	1	ND
1,2-Dichloroethane	1	ND	1,2,4-Trimethylbenzene	1	ND
1,1-Dichloroethene	1	ND	1,3,5-Trimethylbenzene	1	ND
cis-1,2-Dichloroethene	1	ND	Vinyl Chloride	5	ND
trans-1,2-Dichloroethene	1	ND	Total Xylenes	2	ND
1,2-Dichloropropane	1	ND	MTBE	2	ND

NUMBER OF UNIDENTIFIED PEAKS FOUND: 0

ANALYTICAL SURROGATE RECOVERY:
Dibromofluoromethane : 98.%
Toluene-d8 : 116.%
4-Bromofluorobenzene : 91.%

NOTES:
1 None detected

ENDYNE, INC.
32 James Brown Drive
Williston, Vermont 05495
(802) 879-4333

CHAIN-OF-CUSTODY RECORD

22960

Project Name: Site Location: STRATTON/SUN Bowl - Comp	Reporting Address: H&A	Billing Address: 97122
Endyne Project Number: HNST1516	Company: H&A Contact Name/Phone #: Steve Larocca 658-080	Sampler Name: Brian Beaudoin Phone #: 658-0820

Lab #	Sample Location	Matrix	GRAB	COMP	Date/Time 11/19/97	Sample Containers No.	Sample Containers Type/Size	Field Results/Remarks	Analysis Required	Sample Preservation	Rush
113683	SBC-1	H_2O	X		1:15	3	40ml		30	HCl	
113684	2				1:08						
113685	3				12:55						
113686	4				1:12						
113687	5				1:24						
113688	6				1:57						
113689	7				1:50						
113690	8				2:15						
113691	9				2:25						
113692	10				2:02						
113693	STREAM				2:30						
113694	Duplicate - SBC8				2:16						

Relinquished by: Signature [signature]	Received by: Signature Jason Woodard	Date/Time 11/24/97 9:18 A.M.
Relinquished by: Signature	Received by: Signature	Date/Time

New York State Project: Yes ____ No ✓

Requested Analyses

1	pH	6	TKN	11	Total Solids	16	Metals (Specify)	21	EPA 624	26	EPA 8270 B/N or Acid
2	Chloride	7	Total P	12	TSS	17	Coliform (Specify)	22	EPA 625 B/N or A	27	EPA 8010/8020
3	Ammonia N	8	Total Diss. P	13	TDS	18	COD	23	EPA 418.1	28	EPA 8080 Pest/PCB
4	Nitrite N	9	BOD_5	14	Turbidity	19	BTEX	24	EPA 608 Pest/PCB		
5	Nitrate N	10	Alkalinity	15	Conductivity	20	EPA 601/602	25	EPA 8240		
29	TCLP (Specify: volatiles, semi-volatiles, metals, pesticides, herbicides)										
30	Other (Specify): 8260, mod 8100, mod 8015										