



MEMORANDUM

TO: Steve Renninger, USEPA REF. NO.: 6351-11

FROM: Pete Schwarz DATE: August 9, 2004

C.C.: Dion Novak, USEPA
Michelle Simon, USEPA
John Sherrard, TetraTech
John Vanover, TetraTech
Jyl Lapachin, Ohio EPA
Scott Glum, Ohio EPA
Mark Case, MCCHD
John Thompson, Dayton FD
Dan Alig, Riverside FD
Emilee George, VNCC
Henry Cole, TAG consultant
Peter Townsend, TAG consultant
VLSG Distribution

RE: **Progress Update #303**
North Sanitary Landfill, Dayton, Ohio

- A. During the period of August 2, 2004 through August 8, 2004 the following activities were performed in accordance with the AOC:
1. Continued weekly LNAPL monitoring within well NSL-55L;
 2. Continued operation and monitoring of the ISVE treatment system and treatment of Group 1, subgroups 1A and 1B;
 3. Began installation of remaining passive and extraction wells for Group 2 of the ISVE system;
 4. Conducted a successful test of the site emergency air horn at noon on Monday, August 2nd; and
 5. Continued landfill gas system operation and maintenance (see attachment).
- B. During the period of August 9, 2004 through August 15, 2004 the following activities are scheduled in accordance with the AOC:
1. Continue weekly LNAPL monitoring within well NSL-55L;

2. Continue operation and monitoring of the ISVE treatment system and treatment of Group 1, subgroups 1A and 1B;
3. Complete installation of remaining passive and extraction wells for Group 2 of the ISVE system;
4. Conduct post-treatment sampling of the three grids (L15, KL16, KL17) associated with subgroup 1A of the ISVE treatment system; and
5. Continue landfill gas operation and maintenance.

C. The next site meeting is scheduled for August 18, 2004.

*Attachment: Landfill gas monitoring results
LNAPL removal log*

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FACSIMILE COVER PAGE

To: Mike Samples *demaximis* <Msamples@demaximis.com>

Pages: **5**

Gary Saylor SCS <gsaylor@scsengineers.com>

Pete Schwarz CRA <pschwarz@craworld.com>

From: Mike Broyles <rmbcom@woh.rr.com>

Date: 8/9/2004

Subject: LFG Monitoring Summary Week of 08/02/04 - 08/08/04

All CPs remained in compliance this week.

There was one flare failure due to low methane levels.

Flare operating cycles were 240 minutes On and 240 minutes Off.

Weekly Gas Vent, Extraction & Supplemental Well monitoring was performed August 7, 2004 between 8:00 AM - 11:30 AM, with temperatures of 56 to 73° F and partly cloudy to clear conditions.

System vacuum readings were taken Sunday, August 8, 2004 between 7:00 and 8:00 PM

Valves were open to Legs 1, 1b, 2, 3A, 3B, 4 and 5

Wells open were NW 1, 2, 3, 4, 5, 6 & 7, WC 1, SW 1 & 2, EW 1, 2, 3, 4, 7, 8, 10, 11 & 12

Flare Operating Hours:

Date	AM				PM				"ON" Hours
	on	off	on	off	on	off	on	off	
8/2/2004	0:00	4:00	8:00	12:00	--	--	4:00+	8:00	12.0
8/3/2004	0:00	4:00	8:00	12:00	--	--	5:00+	9:00	12.0
8/4/2004	1:00	5:00	9:00	--	--	1:00	8:00+	12:00	12.0
8/5/2004	4:00	8:00	--	--	--	--	6:00	12:00	10.0
8/6/2004	4:00#	--	11:00	--	--	5:00	9:00+	12:00	9.0
8/7/2004	0:00	3:00	7:00	--	--	1:00	--	--	9.0
8/8/2004	0:00+	4:00	8:00	12:00	--	--	6:30+	10:00	11.5
Total Hrs. =									75.5

Note: # = Flare shut down during operation.

* = Flare reset to operate full time with propane. @ Flare reset to operate full time with methane. + Other reason

Times represent Flare Clock which is currently EDT minus approximately 56 minutes.

Flow rate was 175 - 195 scfm. Temperature range (middle thermocouple) 1520 - 1570° F.

Daily/Weekly monitoring

Date	Probes/Wells Monitored	Sampling Period	Readings	Barometric Pressure	Trend
8/2/2004	--	--	--	--	--
8/3/2004	--	--	--	--	--
8/4/2004	--	--	--	--	--
8/5/2004	--	--	--	--	--
8/6/2004	--	--	--	--	--
8/7/2004	CPs 1-5, TGP/GP, GV, E&SW	8:00A - 4:00P	0.0	30.13 - 30.09	F
8/8/2004	--	--	--	--	--

Notes: CP/s = Compliance Probe/s; S&EW=Supplemental and Extraction Wells; 1, 1b, 2, 3A, 3B, 4 & 5 = Leg numbers.

Readings in **BOLD** represent Compliance Probe (CP) readings greater than 5.0%

Barometric Pressure represents pressure and range during Sampling Period. Trend: R = rising, F = falling, S = steady

CONFIDENTIALITY NOTE: THIS MESSAGE IS INTENDED ONLY FOR THE INDIVIDUAL/S OR ENTITY/IES TO WHICH IT IS ADDRESSED AND MAY CONTAIN INFORMATION THAT IS PRIVILEGED, CONFIDENTIAL AND EXEMPT FROM DISCLOSURE UNDER APPLICABLE LAW. IF THE READER OF THIS MESSAGE IS NOT THE INTENDED RECIPIENT/S, OR THE EMPLOYEE OR AGENT RESPONSIBLE FOR DELIVERING THE MESSAGE TO THE INTENDED RECIPIENT/S. YOU ARE HEREBY NOTIFIED THAT ANY DISSEMINATION, DISTRIBUTION OR COPYING OF THIS COMMUNICATION IS STRICTLY PROHIBITED. IF YOU HAVE RECEIVED THIS COMMUNICATION IN ERROR, PLEASE NOTIFY R. M. BROYLES COMPANY, L. L. C. IMMEDIATELY BY TELEPHONE AT (937) 890-6985, AND RETURN THE ORIGINAL MESSAGE TO R. M. BROYLES COMPANY, L. L. C. AT THE ABOVE ADDRESS VIA THE U. S. POSTAL SERVICE.

VALLEYCREST COMPLIANCE PROBE REPORT
(% Methane by Volume)

Compliance Probes	2-Aug	3-Aug	4-Aug	5-Aug	6-Aug	7-Aug	8-Aug
CP1-1R	--	--	--	--	--	0.0	--
CP1-2	--	--	--	--	--	0.0	--
CP1-3	--	--	--	--	--	0.0	--
CP1-4	--	--	--	--	--	0.0	--
CP1-5	--	--	--	--	--	0.0	--
CP1-7	--	--	--	--	--	0.0	--
CP1-9	--	--	--	--	--	0.0	--
CP1-11	--	--	--	--	--	0.0	--
CP1-13	--	--	--	--	--	0.0	--
GP-01 (for CP1-14)	--	--	--	--	--	0.0	--
GP-02 (for CP1b-1R)	--	--	--	--	--	0.0	--
CP1b-2R	--	--	--	--	--	0.0	--
CP1b-4R	--	--	--	--	--	0.0	--
CP1b-6R	--	--	--	--	--	0.0	--
TGP1b-E	--	--	--	--	--	0.0	--
TGP1b-A	--	--	--	--	--	0.0	--
TGP1b-F	--	--	--	--	--	0.0	--
TGP1b-B	--	--	--	--	--	0.0	--
TGP1b-G	--	--	--	--	--	0.0	--
TGP1b-C	--	--	--	--	--	0.0	--
TGP1b-H	--	--	--	--	--	0.0	--
TGP1b-D	--	--	--	--	--	0.0	--
GP-03	--	--	--	--	--	0.0	--
TGP-82	--	--	--	--	--	0.0	--
GP-04	--	--	--	--	--	0.0	--
TGP-83	--	--	--	--	--	0.0	--
CP2-1	--	--	--	--	--	0.0	--
CP2-2	--	--	--	--	--	0.0	--
CP2-4R	--	--	--	--	--	0.0	--
CP2-5R	--	--	--	--	--	0.0	--
CP-6R	--	--	--	--	--	0.0	--
CP2-7	--	--	--	--	--	0.0	--
CP2-9	--	--	--	--	--	0.0	--
TGP-06	--	--	--	--	--	0.0	--
TGP-East	--	--	--	--	--	0.0	--
TGP-Dads	--	--	--	--	--	0.0	--
CP3-1RR	--	--	--	--	--	0.0	--
CP3-2R	--	--	--	--	--	0.0	--
CP3-4R	--	--	--	--	--	0.0	--
CP3-5R	--	--	--	--	--	0.0	--
CP3-7R	--	--	--	--	--	0.0	--
CP3-8R	--	--	--	--	--	0.0	--
CP3-9	--	--	--	--	--	0.0	--
CP3-10R	--	--	--	--	--	0.0	--
CP3-12R	--	--	--	--	--	0.0	--
CP3-13R	--	--	--	--	--	0.0	--
CP3-14R	--	--	--	--	--	0.0	--
CP3-15R	--	--	--	--	--	0.0	--
TGP-89	--	--	--	--	--	0.0	--
CP4-A	--	--	--	--	--	0.0	--
CP4-B	--	--	--	--	--	0.0	--
CP4-C	--	--	--	--	--	0.0	--
CP4-1	--	--	--	--	--	0.0	--
CP4-2	--	--	--	--	--	0.0	--
CP4-3	--	--	--	--	--	0.0	--
CP4-4	--	--	--	--	--	0.0	--
CP4-6	--	--	--	--	--	0.0	--
CP5-1R	--	--	--	--	--	0.0	--
CP5-3R	--	--	--	--	--	0.0	--
CP5-4R	--	--	--	--	--	0.0	--
CP5-6	--	--	--	--	--	0.0	--
CP5-8	--	--	--	--	--	0.0	--

Notes: 1) Underline reading assumed to be abbartent based on historical bhavior of the monitoring location; 2) NR = Value not recorded.
3) NS = Not sampled due to instrument failure; 4) Values in **Bold** Face Type exceed applicable concentration ceilings of 5% methane by volume
5) Sampling instrument used is a Landtec GA 90, calibrated to a standard at 15% CH4, 15% CO2 & 4% O2 by volume
6) Probes highlighted and **Bold** denote compliance probes installed the week of October 13, 2003 as part of the 2003 O&M Plan.

VALLEYCREST COMPLIANCE PROBE REPORT
(% Methane by Volume)

Compliance Probes	2-Aug	3-Aug	4-Aug	5-Aug	6-Aug	7-Aug	8-Aug
TGP-76	--	--	--	--	--	0.0	--
TGP-63	--	--	--	--	--	0.0	--
TGP-57	--	--	--	--	--	0.0	--
TGP-62	--	--	--	--	--	0.0	--
GP-12	--	--	--	--	--	0.0	--
TGP-60	--	--	--	--	--	0.0	--
TGP-65	--	--	--	--	--	0.0	--
TGP-66	--	--	--	--	--	0.0	--
TGP-67	--	--	--	--	--	0.0	--
TGP-68	--	--	--	--	--	0.0	--
TGP-53	--	--	--	--	--	0.0	--
TGP-59	--	--	--	--	--	0.0	--
TGP-58	--	--	--	--	--	0.0	--
GP-14	--	--	--	--	--	0.0	--
TGP-87	--	--	--	--	--	0.0	--
TGP-88	--	--	--	--	--	0.0	--
TGP-69	--	--	--	--	--	0.0	--
TGP-90	--	--	--	--	--	0.0	--
GP-17	--	--	--	--	--	0.0	--
TGP-91	--	--	--	--	--	0.0	--
GP-18	--	--	--	--	--	0.0	--
TGP-73	--	--	--	--	--	0.0	--
TGP-74	--	--	--	--	--	0.0	--
TGP-84	--	--	--	--	--	0.0	--
TGP-75	--	--	--	--	--	0.0	--
TGP-85	--	--	--	--	--	0.0	--
TGP-72	--	--	--	--	--	0.0	--
TGP-86	--	--	--	--	--	0.0	--
TGP-32	--	--	--	--	--	0.0	--

Notes: 1) Underline reading assumed to be abbartent based on historical bhavior of the monitoring location; 2) NR = Value not recorded.
3) NS = Not sampled due to instrument failure; 4) Values in **Bold** Face Type exceed applicable concentration ceilings of 5% methane by volume
5) Sampling instrument used is a Landtec GA 90, calibrated to a standard at 15% CH4, 15% CO2 & 4% O2 by volume
6) Probes highlighted and **Bold** denote compliance probes installed the week of October 13, 2003 as part of the 2003 O&M Plan.

VALLEYCREST GAS VENT AND WELL REPORT
(% Gas by Volume)

Week Of:	Jul 26 - Aug 01, 2004						Week Of:	Aug 02 - Aug 08, 2004					
Wellhead ID	Vacuum	Temp	CH4	O2	CO2	Bal	Wellhead ID	Vacuum	Temp	CH4	O2	CO2	Bal
LEG 1	--	--	--	--	--	--	LEG 1	-0.90	--	--	--	--	--
GV1-1	--	76	9.5	0.0	28	63	GV1-1	--	--	5.6	0.0	24	70
GV1-2	--	70	26.8	0.0	34	39	GV1-2	--	68	17.4	0.0	27	56
GV1-3	--	78	23.7	0.0	33	43	GV1-3	--	64	43.2	0.0	25	32
GV1-4	--	78	38.2	0.0	34	28	GV1-4	--	68	31.8	0.0	31	37
GV1-5	--	78	27.1	0.0	34	39	GV1-5	--	72	22.1	0.0	27	51
GV1-6	--	72	21.2	0.0	32	47	GV1-6	--	68	13.9	0.0	27	59
GV1-7	--	76	9.1	0.0	29	62	GV1-7	--	74	2.6	0.0	19	78
GV1-8	--	78	8.4	0.0	28	64	GV1-8	--	64	6.7	0.0	23	70
GV1-9	--	80	4.5	0.0	26	70	GV1-9	--	76	2.8	2.8	18	76
GV1-10X	--	80	2.3	9.1	3.8	85	GV1-10X	--	72	5.1	0.0	24	71
GV1-11	--	72	18.4	0.0	34	48	GV1-11	--	70	11.9	0.0	29	59
GV1-12	--	78	21.6	0.0	32	46	GV1-12	--	72	19.5	0.0	29	52
GV1-13	--	78	23.2	0.0	30	47	GV1-13	--	70	2.3	0.0	17	81
LEG 1b	--	--	--	--	--	--	LEG 1b	-0.60	--	--	--	--	--
GV1b-1	--	--	0.5	6.5	15	78	GV1b-1	--	--	1.5	7.2	13	78
GV1b-2	--	78	4.6	13.0	5.7	77	GV1b-2	--	70	5.8	16.1	6.2	72
GV1b-3	--	78	10.3	0.0	15	75	GV1b-3	--	62	7.2	1.4	19	72
GV1b-4	--	78	0.0	6.3	11	83	GV1b-4	--	80	0.2	13.2	6.9	80
GV1b-5	--	76	8.1	2.2	20	70	GV1b-5	--	70	9.7	2.7	19	69
LEG 2	--	--	--	--	--	--	LEG 2	-0.10	--	--	--	--	--
GV2-1	--	80	17.9	4.8	19	58	GV2-1	--	--	17.2	8.6	15	59
GV2-2	--	80	8.1	5.3	13	74	GV2-2	--	80	0.6	13.4	6.9	79
GV2-3	--	90	0.0	4.2	12	84	GV2-3	--	86	0.0	8.0	12	80
GV2-4	--	100	0.4	5.4	12	82	GV2-4	--	92	1.5	6.1	13	79
LEG 3	--	--	--	--	--	--	LEG 3	-0.10	--	--	--	--	--
GV3-1	--	--	49.2	0.0	34	17	GV3-1	--	--	45.8	0.0	29	25
GV3-2	--	84	4.8	10.1	8.7	76	GV3-2	--	86	13.2	8.6	14	64
GV3-3	--	80	0.0	15.7	2.3	82	GV3-3	--	88	0.0	18.6	2.1	79
GV3-4	--	70	0.1	11.8	4.6	84	GV3-4	--	82	0.6	14.1	5.5	80
GV3-5	--	80	1.0	6.2	8.7	84	GV3-5	--	92	3.5	8.2	11	77
GV3-6	--	80	4.8	1.1	18	76	GV3-6	--	84	6.5	1.3	18	74
GV3-7	--	68	0.4	0.0	18	82	GV3-7	--	62	0.8	0.2	16	83
GV3-8	--	80	7.2	0.0	20	73	GV3-8	--	82	8.2	0.0	17	75
GV3-9	--	80	23.2	0.0	18	59	GV3-9	--	80	24.0	0.3	17	59
GV3-10 X	--	80	0.0	5.8	12	82	GV3-10 X	--	88	0.6	5.4	11	83
GV3-11	--	82	1.3	7.8	8.5	82	GV3-11	--	80	2.8	10.8	7.7	79
GV3-12	--	70	1.1	4.7	12	82	GV3-12	--	70	2.2	7.1	11	80
GV3-13	--	80	11.1	0.5	21	67	GV3-13	--	84	11.3	2.5	18	68
GV3-14	--	88	20.3	4.1	20	56	GV3-14	--	84	18.8	4.3	18	59
LEG 3	--	--	--	--	--	--	LEG 3	-0.10	--	--	--	--	--
LEG 4	--	--	--	--	--	--	LEG 4	-0.20	--	--	--	--	--
GV4-C X	--	84	0.5	0.1	18	81	GV4-C X	--	74	1.1	1.7	16	81
GV4-B	--	70	0.4	0.6	13	86	GV4-B	--	72	0.8	3.7	13	83
GV4-A	--	82	0.6	6.9	12	81	GV4-A	--	72	2.8	3.9	13	80
GV4-1	--	80	8.5	0.0	20	72	GV4-1	--	72	10.4	0.2	19	70
GV4-2	--	74	14.2	0.0	27	59	GV4-2	--	74	17.1	0.2	23	60
GV4-3	--	80	6.7	0.0	29	64	GV4-3	--	72	2.2	7.1	12	79
GV4-4 X	--	84	0.0	10.4	5.3	84	GV4-4 X	--	82	0.1	14.8	3.9	81
GV4-5	--	84	16.6	1.2	26	56	GV4-5	--	80	18.1	1.7	22	58
GV4-6	--	86	7.3	3.2	20	70	GV4-6	--	84	6.7	4.1	17	72
GV4-7	--	82	30.0	2.5	29	39	GV4-7	--	82	34.2	0.4	30	35
LEG 5	--	--	--	--	--	--	LEG 5	-0.20	--	--	--	--	--
GV5-1	--	78	51.5	0.0	35	14	GV5-1	--	74	52.7	0.4	33	14
GV5-2	--	90	44.8	0.0	32	23	GV5-2	--	102	39.3	0.0	29	32
GV5-3	--	86	47.3	0.0	35	18	GV5-3	--	92	43.8	1.0	29	26
GV5-4	--	88	32.4	0.0	30	38	GV5-4	--	102	0.3	14.0	6.7	79
GV5-5	--	82	25.3	0.0	30	45	GV5-5	--	102	28.3	0.0	29	43
GV5-6	--	86	18.2	0.0	26	56	GV5-6	--	100	32.1	0.7	28	39
GV5-7	--	84	8.9	3.4	19	69	GV5-7	--	90	31.0	0.0	28	41
GV5-8	--	80	6.1	5.1	17	72	GV5-8	--	90	11.9	3.8	18	66
GV5-9	--	100	21.2	0.0	26	53	GV5-9	--	112	27.4	0.0	25	48

Notes: 1) Underline reading assumed to be aberrant based on historical behavior of the monitoring location; 2) NR = Value not recorded (WC1&4 within current Exclusion Zone);
3) NS = Not sampled due to instrument failure; 4) Sampling instrument used is a CES Landtec GA 90 calibrated to 15% CH4, 15% CO2 & 4% O2 by volume.
5) Temperature readings recorded from well head thermometers. 6) NAM = Not Accessible for Monitoring; 7) Wellheads in **BOLD** with **X** have been disconnected or valve closed.
8) Bal (Nitrogen) levels are the estimated balance gas remaining after deducting for CH4 (methane), O2 (oxygen), and CO2 (carbon dioxide).

VALLEYCREST GAS VENT AND WELL REPORT
(% Gas by Volume)

Week Of:	Jul 26 - Aug 01, 2004						Week Of:	Aug 02 - Aug 08, 2004					
Suppliment/ Extraction Well	Valve Notch	Vacuum	CH4	O2	CO2	Bal	Suppliment/ Extraction Well	Valve Notch	Vacuum	CH4	O2	CO2	Bal
EW-1	13	--	18.4	0.0	17	65	EW-1	13	-0.40	15.3	6.9	19	59
EW-2	13	--	24.2	0.0	24	52	EW-2	13	-0.30	8.6	4.3	15	72
EW-3	13	--	39.7	0.0	30	30	EW-3	13	-0.10	34.1	1.3	24	41
EW-4	13	--	39.5	0.1	34	26	EW-4	13	0.00	21.1	0.0	24	55
EW-5	0	--	24.5	0.4	25	50	EW-5	0	0.00	37.3	0.0	29	34
EW-6	0	--	39.9	0.0	35	25	EW-6	0	0.00	40.1	0.0	28	32
EW-7	27	--	32.1	0.0	31	37	EW-7	27	0.00	32.4	0.0	27	41
EW-8	27	--	34.2	0.0	32	34	EW-8	27	0.00	34.1	0.2	23	43
EW-9	0	--	49.7	0.0	40	10	EW-9	0	0.00	50.2	0.0	31	19
EW-10	4	--	8.7	4.1	15	72	EW-10	4	-0.20	4.6	5.1	11	79
EW-11	4	--	10.2	2.4	18	69	EW-11	4	-0.50	7.8	8.1	14	70
EW-12	4	--	5.0	6.1	16	73	EW-12	4	-0.30	12.3	0.0	19	69
SW1	13	--	18.3	6.3	17	58	SW1	13	0.00	47.2	0.0	34	19
SW2	13	--	24.5	4.2	21	50	SW2	13	0.00	44.7	0.0	31	24
SW3	0	--	--	--	--	--	SW3	0	0.00	--	--	--	--
NW1	13	--	14.3	0.0	32	54	NW1	13	0.00	12.1	0.0	24	64
NW2	13	--	47.8	0.0	40	12	NW2	13	0.00	34.1	0.0	30	36
NW3	13	--	51.1	0.0	43	6	NW3	13	0.00	39.6	0.0	31	29
NW4	7	--	37.0	0.0	33	30	NW4	13	0.00	28.1	0.0	24	48
NW5	13	--	17.0	0.0	28	55	NW5	13	0.00	13.9	0.0	30	56
NW6	13	--	47.4	0.0	42	11	NW6	13	0.00	35.4	0.0	33	32
NW7	13	--	59.4	0.0	39	2	NW7	13	0.00	53.4	0.0	34	13
NW8	7	--	32.6	0.0	36	31	NW8	0	0.00	25.2	0.8	31	43
WC1	--	--	--	--	--	--	WC1	--	--	--	--	--	--
WC4	--	--	--	--	--	--	WC4	--	--	--	--	--	--
FLARE 90	--	-1.90	--	--	--	--	FLARE 90	--	-2.00	--	--	--	--

Notes: 1) Underline reading assumed to be aberrant based on historical behavior of the monitoring location; 2) NR = Value not recorded (WC1&4 within current Exclusion Zone);
3) NS = Not sampled due to instrument failure; 4) Sampling instrument used is a CES Landtec GA 90 calibrated to 15% CH4, 15% CO2 & 4% O2 by volume.
5) Temperature readings recorded from well head thermometers. 6) NAM = Not Accessable for monitoring; 7) Wellheads in **BOLD** with **X** have been disconnected or valve closed.
8) Bal (Nitrogen) levels are the estimated balance gas remaining after deducting for CH4 (methane), O2 (oxygen), and CO2 (carbon dioxide).

LNAPL REMOVAL FROM NSL-55L
Valleycrest Site

Date	Measurement prior to Removal			After LNAPL Removal (if required)		
	Depth to LNAPL (ft)	Depth to Water (ft)	LNAPL Thickness (ft)	Depth to LNAPL (ft)	Depth to Water (ft)	LNAPL Thickness (ft)
19-May-03	16.35	18.53	2.18	16.54	16.74	0.20
20-May	16.53	17.08	0.55	16.58	16.71	0.13
21-May	16.59	16.85	0.26	np	np	np
22-May	16.53	16.78	0.25	16.55	16.61	0.06
27-May	16.82	17.17	0.35	np	np	np
28-May	16.81	17.13	0.32	np	np	np
4-Jun	17.36	17.78	0.42	np	np	np
12-Jun	17.45	17.89	0.44	np	np	np
20-Jun	16.38	16.86	0.48	np	np	np
27-Jun	16.77	17.36	0.59	np	np	np
3-Jul	16.93	17.54	0.61	np	np	np
11-Jul	17.22	17.88	0.66	np	np	np
25-Jul	17.07	17.77	0.70	np	np	np
31-Jul	16.78	17.47	0.69	np	np	np
8-Aug	16.91	17.70	0.79	np	np	np
15-Aug	17.10	17.90	0.80	np	np	np
22-Aug	17.78	18.53	0.75	np	np	np
29-Aug	17.98	18.72	0.74	np	np	np
5-Sep	17.46	18.25	0.79	np	np	np
12-Sep	17.33	18.19	0.86	np	np	np
19-Sep	17.63	18.53	0.90	np	np	np
26-Sep	18.09	18.99	0.90	np	np	np
3-Oct	18.23	19.14	0.91	np	np	np
10-Oct	18.29	19.17	0.88	np	np	np
17-Oct	18.36	19.23	0.87	np	np	np
24-Oct	18.49	19.40	0.91	np	np	np
27-Oct	18.49	19.40	0.91	np	np	np
7-Nov	18.74	19.65	0.91	np	np	np
14-Nov	18.67	19.59	0.92	np	np	np
21-Nov	18.75	19.72	0.97	18.95	19.03	0.08
3-Dec	18.91	19.28	0.37	np	np	np
11-Dec	18.68	19.03	0.35	np	np	np
15-Dec	18.41	18.74	0.33	np	np	np
30-Dec	18.76	19.17	0.41	np	np	np
9-Jan-04	17.64	18.04	0.40	np	np	np
14-Jan-04	16.85	17.30	0.45	np	np	np
23-Jan-04	17.15	17.75	0.60	np	np	np
29-Jan-04	17.43	18.03	0.60	np	np	np
5-Feb-04	17.45	17.93	0.48	np	np	np
11-Feb-04	17.25	17.86	0.61	np	np	np
18-Feb-04	17.28	18.00	0.72	np	np	np
26-Feb-04	17.37	18.07	0.70	np	np	np
5-Mar-04	17.75	18.47	0.72	np	np	np
8-Mar-04	17.75	18.47	0.72	np	np	np
16-Mar-04	18.10	18.75	0.65	np	np	np
22-Mar-04	18.27	18.97	0.70	np	np	np

LNAPL REMOVAL FROM NSL-55L
Valleycrest Site

Date	Measurement prior to Removal			After LNAPL Removal (if required)		
	Depth to LNAPL (ft)	Depth to Water (ft)	LNAPL Thickness (ft)	Depth to LNAPL (ft)	Depth to Water (ft)	LNAPL Thickness (ft)
29-Mar-04	18.43	19.13	0.70	np	np	np
5-Apr-04	18.25	19.07	0.82	np	np	np
13-Apr-04	18.20	19.02	0.82	np	np	np
20-Apr-04	18.23	19.03	0.80	np	np	np
23-Apr-04 ⁽¹⁾	18.44	19.16	0.72	18.54	18.56	0.02
30-Apr-04	18.15	18.64	0.49	np	np	np
3-May-04	18.13	18.74	0.61	np	np	np
10-May-04	18.05	18.62	0.57	np	np	np
17-May-04	18.25	18.86	0.61	np	np	np
24-May-04	18.25	18.96	0.71	np	np	np
1-Jun-04	17.95	18.55	0.60	np	np	np
11-Jun-04	17.14	17.88	0.74	np	np	np
15-Jun-04	16.83	17.58	0.75	np	np	np
21-Jun-04	16.65	17.37	0.72	np	np	np
28-Jun-04	16.93	17.72	0.79	np	np	np
7-Jul-04	17.30	18.12	0.82	np	np	np
16-Jul-04	17.63	18.36	0.73	np	np	np
19-Jul-04	17.88	18.63	0.75	np	np	np
26-Jul-04	18.03	18.85	0.82	np	np	np
2-Aug-04	18.15	18.85	0.70	np	np	np

Cumulative volume of LNAPL removed to date: 5 gal

Notes:

np LNAPL removal was not performed.

(1) LNAPL removal was also performed at piezometer NSL-55A.