PES Environmental, Inc.
Engineering & Environmental Services

March 2, 2004

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Rockwood Atrium LLC
c/o Mr. Ken Dupee
TMG Partners
100 Bush Street, 26th Floor
San Francisco, California 94104

SUMMARY REPORT OF METHANE CHARACTERIZATION STUDY
THE ATRIUM AT EMERY BAY PLAZA
1650 65TH STREET
EMERYVILLE, CALIFORNIA

Dear Mr. Dupee:

PES Environmental, Inc. (PES) has completed a subsurface methane characterization study beneath the existing building located at the Atrium property within Emery Bay Plaza, 1650 65th Street, Emeryville, California (Plate 1; the Site). The Site contains one slab-on-grade, concrete tilt-up wall building with an approximate footprint of 120,000 square feet. The building features include a wood-frame roof, concrete and wood roof support piers, and wood interior shear walls (Plate 2).

Data collection for the study was conducted in two phases. Phase I was conducted on November 24 to 26 and December 11, 2003. Phase II was conducted on January 20 to 23, 2004. The objectives of the study were to: (1) characterize the soil horizons present beneath the concrete floor slab of the building; and (2) assess the lateral and vertical distribution of methane in soil beneath the building floor slab. This report summarizes the results of the study.

PROJECT PREPARATION

In preparation for the field work, PES prepared a site-specific Health and Safety Plan and arranged for Underground Service Alert (USA) to locate underground utilities at the Site. A private utility locating company was also retained to clear each of the sampling locations of subsurface utilities and other obstructions.

REVIEW OF HISTORICAL DATA

Prior to conducting field work, PES reviewed the results of previous methane-related studies conducted at the Site. Two studies were identified. These studies were conducted by LFR Levine-Fricke (LFR) on January 22, 2003 and March 13, 2003. The methane studies were prompted by earlier Phase I Environmental Site Assessments (ESAs) of the Site by Engineering Science, Inc. in 1989 and by Property Condition Assessments, LLC in 2002. These Phase I ESAs reported that the Site was constructed over a former municipal industrial landfill.

The results of the LFR studies indicated that methane gas was present in the subsurface at depths ranging from 1 to 4 feet below grade (bg). LFR methane sampling locations, which included locations inside and outside of the Atrium property building, are shown on Plate 3 (sample locations between 1 and 2 feet bg) and Plate 4 (sample locations between 3 and 4 feet bg). Table 1 summarizes the methane data reported in the LFR studies.

FIELD INVESTIGATION – PHASE I

PES mobilized to the site on November 24, 2003, and on November 24 through 26, 2003 we located and installed 21 temporary soil vapor probes inside the building and collected soil gas samples from each location. Each location was cleared by a private utility locating contractor prior to the drilling and installation of the probe.

At each Phase I probe location, a roto-hammer was used to drill a 1-inch diameter hole through the 6- to 8-inch thick concrete floor slab and down to the desired sampling depth. Most of the probes were installed to a depth of 4 feet bg. At selected locations (SG-17, SG-18, SG-19, and SG-21), 1 foot bg and 4 foot bg probes were co-located to provide information on the vertical distribution of methane. At each probe location, the roto-hammer was used to drive hollow-stemmed rods tipped with a threaded, screened, disposable drive tip to the total depth of the boring. A 0.375-inch inside diameter length of polyvinyl tubing with a threaded tip was dropped through the hollow-stemmed drive rods and threaded to the screened drive tip. The driller then purged the tubing of 2 to 3 tubing volumes of air. At two locations (SG-02 and SG-10), the probes were originally installed at 4 feet bg but were pulled back to 1.5 and 3.0 feet, respectively, due to the presence of air-impermeable soils at the 4.0 foot depth. The depth of each probe installed during Phase I is shown on Table 2, shallow probe locations (between 1 and 2 feet bg) are shown on Plate 3, and deep probe locations (between 3 and 4 feet bg) are shown on Plate 4.

After purging, the probes were allowed to equilibrate for a minimum of 20 minutes and then the probe was sampled for landfill gas (LFG) constituents (methane, carbon dioxide, oxygen and balance gas) with a Landtec GEM 500 LFG meter. The meter was run continuously at a

gas extraction rate of approximately 0.5 liters per minute (l/m) and LFG concentrations were recorded at 30 second to 1 minute intervals for a minimum of three sampling intervals. The soil gas at each probe location was also tested for volatile organic compounds (VOCs) with a Thermo 580B Organic Vapor Meter using a photo-ionization detector. The LFG data collected from each probe are shown on Table 2. No VOCs were detected in any of the probes.

Upon completion of the Phase I sampling, the probes were abandoned except for probes SG 17, SG-18, SG-19, and SG-21. These four probes were left in place for possible future use. The remaining probes were abandoned by unthreading the drive point, retrieving the drive rods and tubing, and backfilling the borehole with the roto-hammer cuttings and silica sand. The abandonment was completed to the surface with 3 to 5 inches of quick-set portland cement concrete.

PES returned to the site on December 11, 2003 to excavate two observation pits adjacent to two roof support columns inside the Atrium building. The locations of these pits are shown on Plates 3 and 4 (TP-1 and TP-2). The observation pits were installed by making an approximately 18-inch by 30-inch rectangular cut in the floor slab using a concrete saw. The cut sections of concrete were removed at each of the test pit locations, and the pits were excavated to a depth of approximately 2 to 3 feet bg using hand tools. After observing the soil profile in the pits and recording the observations, the pits were backfilled with the excavated material, compacted, and the concrete section of slab was replaced.

FIELD INVESTIGATION – PHASE II

Between January 20 and 23, 2004, PES located, installed, and sampled an additional 30 temporary soil vapor probes inside the building. Locations of the Phase II probes are shown on Plate 3. Similar to the Phase I investigation, each probe location was cleared by a private utility locating contractor prior to the drilling and installation of the probe.

At each Phase II probe location, a roto-hammer was used to drill a 1-inch diameter hole through the 6- to 8-inch thick concrete floor slab and down to a maximum of 3 to 4 inches below the bottom of the slab. A 0.375-inch inside-diameter length of polyvinyl tubing with perforations lining the bottom 2 to 3 inches of the tubing and a sealed end was placed in the hole and backfilled with silica sand to the bottom of the floor slab. The tubing was then sealed from the surface by filling the annulus of the hole around the tubing with a bentonite slurry.

After installation, the probes were sampled for LFG constituents with the GEM 500. Each probe was sampled at 30 second to 1 minute intervals for a minimum of three sampling intervals. During sampling, the pumping rate of the GEM 500 was approximately 0.5 liters of air per minute. Probes 1S through 18S were sampled on January 20 and resampled on

January 21 to confirm the earlier readings and to collect additional data on the recharge rate for methane at the probe locations. Probes with an A, B, or C suffix (i.e. 17A, 12B, 2C, etc.) were installed on January 22 to further define the extent of methane at locations with elevated methane levels as measured on January 20 and 21. The probes installed on January 22 were sampled on the same day.

Upon completion of the sampling effort, the probes from the Phase II effort were left in place for potential future testing.

RESULTS

As indicated above, the LFR data are summarized on Table 1. The data generated from the PES Phase I effort are summarized in Table 2. PES' Phase II data are summarized in Table 3. The distribution of methane in the shallow subsurface (1 to 2 feet bg) is shown on Plate 3 and the methane distribution at depth (3 to 4 feet bg) is shown on Plate 4.

Fifteen of the 35 shallow probe locations inside the building (including both LFR and PES data sets) contained methane in soil gas at concentrations that exceed 25 percent (%) of the lower explosive limit (LEL) for methane[1]. Twenty-five percent of the LEL is equivalent to 1.25% methane in air by volume. Of these 15 locations, 12 contained methane at concentrations that exceed the LEL. The inferred distribution of methane at concentrations exceeding 1.25% methane inside the building footprint is shown on Plate 3. Three of the eleven probe locations outside of the building footprint (LFR data; Table 1) contained methane at concentrations that exceed 1.25%.

Seventeen of 25 deep probe locations inside the building (again, including LFR and PES data sets) contained methane at concentrations that exceed 1.25%. Sixteen of the 17 probe locations had methane at levels that exceed the LEL. The inferred distribution of methane in these deeper probe locations is shown on Plate 4.

The two observation pits (TP-1 and TP-2) provided information regarding the existing concrete floor slab and underlying subsurface materials. The concrete floor slab at the two pit locations was observed to be approximately six inches in thickness and was reinforced with steel reinforcing bar. A thickened concrete structural section was also observed at the two pit locations that appeared to be centered beneath the roof support columns, indicating that the

[1] The flammable range of methane is approximately 5 to 15 percent (by volume) in air. The lower limit of 5 percent is referred to as the Lower Explosive Limit (LEL), and the upper limit of 15 percent is referred to as the Upper Explosive Limit (UEL). To provide for the protection of public health and safety and the environment, Title 27 of the California Code of Regulations stipulates that the concentration of methane gas must not exceed 1.25 percent by volume in air (25 percent of the LEL) within structures above landfills.

roof support column rests on top of a concrete section approximately 6 feet 7 inches square by at least 14 inches thick. The concrete floor slab was underlain by fill material consisting of clayey sand with some gravel. Aggregate base rock was not observed beneath the floor slab.

CONCLUSIONS AND RECOMMENDATIONS

The findings of the current study indicate that methane is present in soil beneath the building slab at concentrations that exceed 25% of the LEL and that many of the sampled locations contain methane at levels that exceed the LEL.

The distribution of methane at shallow (1 to 2 feet bg) depth is different than the distribution at deeper (3 to 4 feet bg) depth, suggesting that the migration pattern for methane from deeper depths to the shallow soils beneath the floor slab is non-uniform. The non-uniform distribution of methane at shallow depths may reflect the lack of a uniform sub-grade layer (i.e. base rock) beneath the floor slab.

Although elevated concentrations of methane have been detected in the subsurface beneath the Atrium building, the existing concrete floor slab appears to have acted as a barrier to methane intrusion into the building since the building was first constructed in the 1950s. However, additional action is appropriate to lessen the threat of methane intrusion and accumulation within the building given: (1) the presence of elevated levels of methane located immediately beneath the concrete floor slab; and (2) the uncertainty of the long-term viability of the concrete floor slab as a competent barrier in extraordinary circumstances (e.g., major seismic events, inadvertent perforation during construction activities, etc.). Therefore, design and installation of a methane collection, control and monitoring system is warranted for the Site.

If you have any questions or require additional information regarding the report, please do not hesitate to contact either of the undersigned at your convenience.

Very truly yours,

PES ENVIRONMENTAL, INC.

Alan J. Anselmo, P.E.
Associate Engineer

Robert S. Creps, P.E.
Principal Engineer

Attachments:
Table 1 - LFR Levine-Fricke Methane Study Data
Table 2 - Phase I Methane Data
Table 3 - Phase II Methane Data
Plate 1 - Site Location Map
Plate 2 - Site Plan
Plate 3 - Subsurface Methane Distribution - Shallow
Plate 4 - Subsurface Methane Distribution - Deep

TABLES

Table 1
LFR Levine-Fricke Methane Study Data
The Atrium at Emery Bay Plaza
Emeryville, California

Sample Location	Date Sampled	Depth Sampled (feet)	Methane (%)	Carbon Dioxide (%)	Oxygen (%)	Balance Gas (%)
			Laboratory (1)			
Shallow Probe Results (1.0 to 3.0 feet below grade)						
Probe SV-1	22-Jan-03	2.0	0.0011	NR	NR	NR
Probe SV-2	22-Jan-03	2.0	0.011	NR	NR	NR
Probe SV-3	22-Jan-03	2.0	0.68	NR	NR	NR
Probe SV-4	22-Jan-03	2.0	0.86	NR	NR	NR
Probe SV-5	22-Jan-03	2.0	0.62	NR	NR	NR
Probe SV-6	22-Jan-03	1.0	0.022	NR	NR	NR
Probe SV-7	22-Jan-03	2.0	14	NR	NR	NR
Probe SV-8	22-Jan-03	2.0	0.15	NR	NR	NR
Probe SV-9	22-Jan-03	2.0	0.019	NR	NR	NR
Probe SV-10	22-Jan-03	1.5	9.3	NR	NR	NR
Probe SV-27	13-Mar-03	2.0	4.3	NR	NR	NR
Deep Probe Results (3.0 to 4.0 feet below grade)						
Probe SV-1	22-Jan-03	4.0	0.24	NR	NR	NR
Probe SV-2	22-Jan-03	3.0	0.014	NR	NR	NR
Probe SV-3	22-Jan-03	4.0	1.3	NR	NR	NR
Probe SV-7	22-Jan-03	4.0	15	NR	NR	NR
Probe SV-8	22-Jan-03	4.0	<0.001	NR	NR	NR
Probe SV-9	22-Jan-03	4.0	0.12	NR	NR	NR
Probe SV-10	22-Jan-03	4.0	15	NR	NR	NR
Probe SV-16	13-Mar-03	4.0	0.12	NR	NR	NR
Probe SV-18	13-Mar-03	4.0	23	NR	NR	NR
Probe SV-19	13-Mar-03	4.0	28	NR	NR	NR
Probe SV-20	13-Mar-03	3.0	0.12	NR	NR	NR
Probe SV-21	13-Mar-03	4.0	0.0092	NR	NR	NR
Probe SV-22	13-Mar-03	4.0	0.00019	NR	NR	NR
Probe SV-23	12-Mar-03	4.0	7.2	NR	NR	NR
Probe SV-24	12-Mar-03	4.0	0.25	NR	NR	NR
Probe SV-25	13-Mar-03	4.0	0.12	NR	NR	NR
Probe SV-26	13-Mar-03	4.0	26	NR	NR	NR
Probe SV-28	12-Mar-03	4.0	2.9	NR	NR	NR

Notes:
NR = Not reported
(1) = Laboratory analysis by ASTM D-1946

Table 2
Phase I Methane Data
The Atrium at Emery Bay Plaza
Emeryville, California

Sample Location	Date Sampled	Depth Sampled (feet)	Elapsed Purge Time (seconds)	Approximate Purge Volume (liters)	Methane (%)	Methane (%)	Carbon Dioxide (%)	Oxygen (%)	Balance Gas (%)
					Laboratory (1)	Landtec GEM 500 Instrument			
Shallow Probe Results (1.0 to 2.0 feet below grade)									
Probe SG-2	24-Nov-03	1.5	60	0.5	NA	**0.0**	**0.0**	**16.2**	**83.8**
	24-Nov-03	1.5	120	1.0	NA	**0.0**	**0.1**	**16.2**	**83.7**
	24-Nov-03	1.5	180	1.5	NA	**0.0**	**0.1**	**16.2**	**83.7**
Probe SG-17	26-Nov-03	1.0	30	0.25	NA	**0.3**	**0.0**	**18.1**	**81.7**
	26-Nov-03	1.0	60	0.50	NA	**0.3**	**0.0**	**18.5**	**81.1**
	26-Nov-03	1.0	90	0.75	NA	**0.3**	**0.0**	**18.6**	**81.1**
	26-Nov-03	1.0	120	1.00	NA	**0.1**	**0.0**	**18.7**	**81.2**
	26-Nov-03	1.0	180	1.50	NA	**0.1**	**0.0**	**18.8**	**81.0**
Probe SG-18	26-Nov-03	1.0	30	0.25	NA	**2.3**	**0.1**	**11.1**	**84.0**
	26-Nov-03	1.0	60	0.50	NA	**2.8**	**0.2**	**12.9**	**83.9**
	26-Nov-03	1.0	90	0.75	NA	**3.9**	**0.2**	**12.3**	**82.7**
	26-Nov-03	1.0	120	1.00	NA	**4.6**	**0.4**	**12.3**	**82.7**
Probe SG-19	26-Nov-03	1.0	30	0.25	NA	**0.0**	**1.1**	**14.7**	**84.1**
	26-Nov-03	1.0	60	0.50	NA	**0.0**	**1.4**	**14.5**	**84.0**
	26-Nov-03	1.0	90	0.75	NA	**0.0**	**1.6**	**14.4**	**84.0**
	26-Nov-03	1.0	120	1.00	NA	**0.0**	**1.7**	**14.4**	**84.0**
	26-Nov-03	1.0	180	1.50	NA	**0.0**	**1.8**	**14.4**	**83.9**
Probe SG-21	26-Nov-03	1.0	30	0.25	NA	**0.0**	**0.5**	**8.5**	**90.0**
	26-Nov-03	1.0	60	0.50	NA	**0.0**	**1.5**	**8.5**	**89.8**
	26-Nov-03	1.0	90	0.75	NA	**0.0**	**2.6**	**8.3**	**89.1**
	26-Nov-03	1.0	120	1.00	NA	**0.0**	**3.1**	**8.2**	**88.7**
	26-Nov-03	1.0	180	1.50	NA	**0.0**	**3.5**	**8.0**	**88.5**

Table 2
Phase I Methane Data
The Atrium at Emery Bay Plaza
Emeryville, California

Sample Location	Date Sampled	Depth Sampled (feet)	Elapsed Purge Time (seconds)	Approximate Purge Volume (liters)	Methane (%)	Methane (%)	Carbon Dioxide (%)	Oxygen (%)	Balance Gas (%)
					Laboratory (1)	Landtec GEM 500 Instrument			
Deep Probe Results (3.0 to 4.0 feet below grade)									
Probe SG-1	24-Nov-03	4.0	60	0.5	NA	**11.9**	**8.9**	**0.4**	**78.9**
	24-Nov-03	4.0	120	1.0	NA	**12.0**	**8.9**	**0.1**	**78.8**
	24-Nov-03	4.0	180	1.5	NA	**11.9**	**9.0**	**0.0**	**79.2**
Probe SG-3	26-Nov-03	4.0	30	0.25	NA	**3.4**	**7.3**	**0.5**	**88.9**
	26-Nov-03	4.0	60	0.50	NA	**3.4**	**7.2**	**0.4**	**89.1**
	26-Nov-03	4.0	90	0.75	NA	**3.4**	**7.2**	**0.6**	**88.8**
	26-Nov-03	4.0	120	1.00	NA	**3.3**	**7.1**	**0.6**	**88.8**
	26-Nov-03	4.0	180	1.50	NA	**3.3**	**7.2**	**0.7**	**89.1**
Probe SG-4	26-Nov-03	4.0	30	0.25	NA	**11.9**	**5.7**	**0.8**	**81.8**
	26-Nov-03	4.0	60	0.50	NA	**12.1**	**5.7**	**0.2**	**82.2**
	26-Nov-03	4.0	90	0.75	NA	**12.0**	**5.7**	**0.0**	**82.3**
	26-Nov-03	4.0	120	1.00	NA	**12.0**	**5.7**	**0.0**	**82.5**
	26-Nov-03	4.0	180	1.50	NA	**12.0**	**5.7**	**0.0**	**82.4**
Probe SG-5	25-Nov-03	4.0	30	0.25	NA	**24.1**	**3.9**	**3.8**	**67.3**
	25-Nov-03	4.0	60	0.50	NA	**25.1**	**4.1**	**3.2**	**67.4**
	25-Nov-03	4.0	90	0.75	NA	**25.9**	**4.1**	**3.2**	**67.2**
	25-Nov-03	4.0	120	1.00	NA	**25.1**	**4.0**	**3.4**	**67.5**
	25-Nov-03	4.0	180	1.50	NA	**25.1**	**4.1**	**3.4**	**67.5**
Probe SG-6	25-Nov-03	4.0	30	0.25	NA	**27.2**	**4.5**	**7.3**	**62.6**
	25-Nov-03	4.0	60	0.50	NA	**22.8**	**4.1**	**8.2**	**66.8**
	25-Nov-03	4.0	90	0.75	NA	**16.2**	**3.6**	**8.1**	**72.8**
	25-Nov-03	4.0	120	1.00	NA	**13.9**	**3.4**	**8.1**	**75.2**
	25-Nov-03	4.0	180	1.50	NA	**10.0**	**3.0**	**8.1**	**79.1**

Table 2
Phase I Methane Data
The Atrium at Emery Bay Plaza
Emeryville, California

Sample Location	Date Sampled	Depth Sampled (feet)	Elapsed Purge Time (seconds)	Approximate Purge Volume (liters)	Methane (%)	Methane (%)	Carbon Dioxide (%)	Oxygen (%)	Balance Gas (%)
					Laboratory (1)	Landtec GEM 500 Instrument			
Probe SG-7	25-Nov-03	4.0	30	0.25	NA	**9.8**	**6.0**	**0.9**	**83.0**
	25-Nov-03	4.0	60	0.50	NA	**11.8**	**5.8**	**0.0**	**82.1**
	25-Nov-03	4.0	90	0.75	NA	**13.4**	**5.6**	**0.0**	**80.4**
	25-Nov-03	4.0	120	1.00	NA	**16.4**	**5.3**	**0.0**	**78.3**
	25-Nov-03	4.0	180	1.50	NA	**17.5**	**5.1**	**0.0**	**76.8**
Probe SG-8	25-Nov-03	4.0	30	0.25	NA	**0.0**	**6.2**	**11.0**	**82.9**
	25-Nov-03	4.0	60	0.50	NA	**0.0**	**6.2**	**10.7**	**83.1**
	25-Nov-03	4.0	90	0.75	NA	**0.0**	**6.3**	**10.6**	**83.2**
	25-Nov-03	4.0	120	1.00	NA	**0.0**	**6.2**	**10.5**	**83.3**
	25-Nov-03	4.0	180	1.50	**<0.01**	**0.0**	**6.2**	**10.5**	**83.4**
Probe SG-9	25-Nov-03	4.0	30	0.25	NA	**22.4**	**6.7**	**0.5**	**70.1**
	25-Nov-03	4.0	60	0.50	NA	**22.5**	**6.7**	**0.0**	**71.1**
	25-Nov-03	4.0	90	0.75	NA	**22.6**	**6.7**	**0.1**	**71.0**
	25-Nov-03	4.0	120	1.00	NA	**22.2**	**6.7**	**0.0**	**70.9**
	25-Nov-03	4.0	180	1.50	**29.0**	**22.4**	**6.7**	**0.0**	**70.9**
Probe SG-10	25-Nov-03	3.0	30	0.25	NA	**24.9**	**7.2**	**1.7**	**67.8**
	25-Nov-03	3.0	60	0.50	NA	**22.7**	**7.0**	**1.6**	**68.6**
	25-Nov-03	3.0	90	0.75	NA	**23.3**	**7.1**	**1.3**	**68.6**
	25-Nov-03	3.0	120	1.00	NA	**23.6**	**7.2**	**1.0**	**68.0**
	25-Nov-03	3.0	180	1.50	NA	**23.8**	**7.2**	**0.9**	**68.0**
Probe SG-11	25-Nov-03	4.0	30	0.25	NA	**20.0**	**2.9**	**0.9**	**76.4**
	25-Nov-03	4.0	60	0.50	NA	**19.7**	**2.9**	**0.5**	**77.0**
	25-Nov-03	4.0	90	0.75	NA	**19.4**	**3.0**	**0.4**	**77.3**
	25-Nov-03	4.0	120	1.00	NA	**19.3**	**3.0**	**0.3**	**77.3**
	25-Nov-03	4.0	180	1.50	NA	**19.6**	**3.1**	**0.3**	**76.8**

Table 2
Phase I Methane Data
The Atrium at Emery Bay Plaza
Emeryville, California

Sample Location	Date Sampled	Depth Sampled (feet)	Elapsed Purge Time (seconds)	Approximate Purge Volume (liters)	Methane (%)	Methane (%)	Carbon Dioxide (%)	Oxygen (%)	Balance Gas (%)
					Laboratory (1)	Landtec GEM 500 Instrument			
Probe SG-12	26-Nov-03	4.0	30	0.25	NA	**15.7**	**8.4**	**1.4**	**74.3**
	26-Nov-03	4.0	60	0.50	NA	**16.2**	**8.9**	**0.4**	**74.6**
	26-Nov-03	4.0	90	0.75	NA	**16.1**	**9.0**	**0.3**	**74.8**
	26-Nov-03	4.0	120	1.00	NA	**16.4**	**9.1**	**0.2**	**74.3**
	26-Nov-03	4.0	180	1.50	NA	**15.9**	**9.2**	**0.1**	**74.7**
Probe SG-13	25-Nov-03	4.0	30	0.25	NA	**23.1**	**5.9**	**0.6**	**70.5**
	25-Nov-03	4.0	60	0.50	NA	**23.0**	**5.8**	**0.2**	**71.0**
	25-Nov-03	4.0	90	0.75	NA	**23.0**	**5.8**	**0.1**	**71.3**
	25-Nov-03	4.0	120	1.00	NA	**22.6**	**5.9**	**0.1**	**71.3**
	25-Nov-03	4.0	180	1.50	NA	**22.6**	**6.0**	**0.0**	**71.5**
Probe SG-14	25-Nov-03	4.0	30	0.25	NA	**16.9**	**5.3**	**1.1**	**77.1**
	25-Nov-03	4.0	60	0.50	NA	**17.1**	**5.4**	**0.6**	**76.8**
	25-Nov-03	4.0	90	0.75	NA	**17.5**	**5.4**	**0.0**	**76.8**
	25-Nov-03	4.0	120	1.00	NA	**17.8**	**5.5**	**0.0**	**76.1**
	25-Nov-03	4.0	180	1.50	**22.00**	**17.7**	**5.5**	**0.0**	**76.9**
Probe SG-15	25-Nov-03	4.0	30	0.25	NA	**0.5**	**10.3**	**0.6**	**88.6**
	25-Nov-03	4.0	60	0.50	NA	**0.5**	**10.5**	**0.1**	**88.7**
	25-Nov-03	4.0	90	0.75	NA	**0.5**	**10.5**	**0.1**	**88.8**
	25-Nov-03	4.0	120	1.00	NA	**0.5**	**10.7**	**0.0**	**88.9**
	25-Nov-03	4.0	180	1.50	**1.20**	**0.5**	**10.5**	**0.1**	**88.7**
Probe SG-16	26-Nov-03	4.0	30	0.25	NA	**0.1**	**2.9**	**14.5**	**82.5**
	26-Nov-03	4.0	60	0.50	NA	**0.0**	**3.0**	**14.3**	**82.7**
	26-Nov-03	4.0	90	0.75	NA	**0.0**	**2.9**	**14.7**	**82.6**
	26-Nov-03	4.0	120	1.00	NA	**0.1**	**3.0**	**14.4**	**82.6**
	26-Nov-03	4.0	180	1.50	NA	**0.0**	**3.1**	**14.3**	**82.7**

Table 2
Phase I Methane Data
The Atrium at Emery Bay Plaza
Emeryville, California

Sample Location	Date Sampled	Depth Sampled (feet)	Elapsed Purge Time (seconds)	Approximate Purge Volume (liters)	Methane (%)	Methane (%)	Carbon Dioxide (%)	Oxygen (%)	Balance Gas (%)
					Laboratory (1)	Landtec GEM 500 Instrument			
Probe SG-17	26-Nov-03	4.0	30	0.25	NA	**16.0**	**7.0**	**0.6**	**76.4**
	26-Nov-03	4.0	60	0.50	NA	**16.1**	**7.1**	**0.2**	**76.5**
	26-Nov-03	4.0	90	0.75	NA	**16.1**	**7.2**	**0.0**	**76.7**
	26-Nov-03	4.0	120	1.00	NA	**16.2**	**7.3**	**0.0**	**76.5**
	26-Nov-03	4.0	180	1.50	NA	**16.1**	**7.2**	**0.0**	**76.7**
Probe SG-18	26-Nov-03	4.0	30	0.25	NA	**21.3**	**6.3**	**0.3**	**71.9**
	26-Nov-03	4.0	60	0.50	NA	**21.8**	**6.5**	**0.2**	**71.7**
	26-Nov-03	4.0	90	0.75	NA	**21.5**	**6.5**	**0.1**	**72.3**
	26-Nov-03	4.0	120	1.00	NA	**21.5**	**6.6**	**0.1**	**71.7**
	26-Nov-03	4.0	180	1.50	NA	**21.6**	**6.6**	**0.0**	**72.1**
Probe SG-19	26-Nov-03	4.0	30	0.25	NA	**16.2**	**7.0**	**0.5**	**76.3**
	26-Nov-03	4.0	60	0.50	NA	**16.4**	**7.2**	**0.3**	**76.2**
	26-Nov-03	4.0	90	0.75	NA	**16.1**	**7.3**	**0.1**	**76.2**
	26-Nov-03	4.0	120	1.00	NA	**16.1**	**7.3**	**0.1**	**76.4**
	26-Nov-03	4.0	180	1.50	NA	**16.4**	**7.5**	**0.2**	**76.0**
Probe SG-20	18-Dec-03	1.0-4.0	---	---	NA	**3.8**	**11.9**	**4.3**	**80.1**
Probe SG-21	26-Nov-03	4.0	30	0.25	NA	**0.5**	**11.0**	**0.7**	**87.4**
	26-Nov-03	4.0	60	0.50	NA	**0.6**	**12.0**	**0.3**	**87.1**
	26-Nov-03	4.0	90	0.75	NA	**0.6**	**12.3**	**0.3**	**87.7**
	26-Nov-03	4.0	120	1.00	NA	**0.6**	**12.3**	**0.2**	**86.8**
	26-Nov-03	4.0	180	1.50	NA	**0.6**	**12.5**	**0.1**	**86.8**

Table 2
Phase I Methane Data
The Atrium at Emery Bay Plaza
Emeryville, California

Sample Location	Date Sampled	Depth Sampled (feet)	Elapsed Purge Time (seconds)	Approximate Purge Volume (liters)	Methane (%)	Methane (%)	Carbon Dioxide (%)	Oxygen (%)	Balance Gas (%)
					Laboratory (1)	Landtec GEM 500 Instrument			
Probe SG-22	25-Nov-03	4.0	30	0.25	NA	**0.1**	**16.6**	**0.4**	**83.0**
	25-Nov-03	4.0	60	0.50	NA	**0.1**	**16.5**	**0.3**	**83.2**
	25-Nov-03	4.0	90	0.75	NA	**0.1**	**16.7**	**0.3**	**82.9**
	25-Nov-03	4.0	120	1.00	NA	**0.1**	**16.7**	**0.4**	**82.8**
	25-Nov-03	4.0	180	1.50	NA	**0.1**	**16.3**	**0.4**	**83.1**

Notes:
NM = Not measured
NA = Not analyzed
(1) = Laboratory analysis by EPA Method 8015 (modified)

Table 3
Phase II Methane Data
The Atrium at Emery Bay Plaza
Emeryville, California

Sample Location	Date Sampled	Depth Sampled (feet)	Elapsed Purge Time (seconds)	Approximate Purge Volume (liters)	Methane (%)	Carbon Dioxide (%)	Oxygen (%)	Balance Gas (%)
					Landtec GEM 500 Instrument			
Shallow Probe Results (1.0 feet below grade)								
Probe 1S	20-Jan-04	1.0	30	0.25	**0.0**	**1.9**	**15.1**	**83.1**
	20-Jan-04	1.0	60	0.50	**0.0**	**2.0**	**14.7**	**83.3**
	20-Jan-04	1.0	90	0.75	**0.0**	**2.0**	**14.7**	**83.3**
	21-Jan-04	1.0	30	0.25	**0.0**	**2.2**	**15.2**	**82.6**
	21-Jan-04	1.0	60	0.50	**0.0**	**2.3**	**14.9**	**82.8**
	21-Jan-04	1.0	90	0.75	**0.0**	**2.3**	**14.9**	**82.8**
Probe 2S	20-Jan-04	1.0	30	0.25	**25.4**	**4.8**	**2.6**	**67.2**
	20-Jan-04	1.0	60	0.50	**25.4**	**5.5**	**1.0**	**68.2**
	20-Jan-04	1.0	90	0.75	**25.4**	**6.0**	**0.7**	**67.9**
	21-Jan-04	1.0	30	0.25	**22.9**	**5.6**	**1.4**	**69.8**
	21-Jan-04	1.0	60	0.50	**23.7**	**6.5**	**0.4**	**69.2**
	21-Jan-04	1.0	90	0.75	**23.9**	**6.8**	**0.3**	**69.1**
	21-Jan-04	1.0	120	1.00	**24.2**	**6.9**	**0.3**	**68.6**
	21-Jan-04	1.0	150	1.25	**24.0**	**7.0**	**0.3**	**68.5**
	21-Jan-04	1.0	180	1.50	**24.0**	**7.0**	**0.3**	**68.6**
Probe 3S	20-Jan-04	1.0	30	0.25	**0.0**	**0.0**	**19.8**	**80.2**
	20-Jan-04	1.0	60	0.50	**0.0**	**0.0**	**19.8**	**80.2**
	20-Jan-04	1.0	90	0.75	**0.0**	**0.0**	**19.7**	**80.3**
	21-Jan-04	1.0	30	0.25	**0.0**	**0.0**	**20.0**	**80.0**
	21-Jan-04	1.0	60	0.50	**0.0**	**0.0**	**20.0**	**80.0**
	21-Jan-04	1.0	90	0.75	**0.0**	**0.0**	**20.0**	**80.0**

Table 3
Phase II Methane Data
The Atrium at Emery Bay Plaza
Emeryville, California

Sample Location	Date Sampled	Depth Sampled (feet)	Elapsed Purge Time (seconds)	Approximate Purge Volume (liters)	Methane (%)	Carbon Dioxide (%)	Oxygen (%)	Balance Gas (%)
					Landtec GEM 500 Instrument			
Probe 4S	20-Jan-04	1.0	30	0.25	**0.2**	**4.8**	**1.6**	**93.3**
	20-Jan-04	1.0	60	0.50	**0.2**	**5.7**	**0.8**	**93.4**
	20-Jan-04	1.0	90	0.75	**0.2**	**5.9**	**0.7**	**93.1**
	21-Jan-04	1.0	30	0.25	**0.0**	**4.9**	**3.3**	**91.9**
	21-Jan-04	1.0	60	0.50	**0.0**	**5.7**	**1.7**	**92.5**
	21-Jan-04	1.0	90	0.75	**0.0**	**6.1**	**1.3**	**92.5**
Probe 5S	20-Jan-04	1.0	30	0.25	**0.0**	**0.6**	**16.5**	**82.8**
	20-Jan-04	1.0	60	0.50	**0.0**	**0.9**	**16.4**	**82.7**
	20-Jan-04	1.0	90	0.75	**0.0**	**1.0**	**16.3**	**82.6**
	21-Jan-04	1.0	30	0.25	**0.0**	**1.1**	**16.9**	**82.1**
	21-Jan-04	1.0	60	0.50	**0.0**	**1.2**	**16.7**	**82.1**
	21-Jan-04	1.0	90	0.75	**0.0**	**1.4**	**16.6**	**82.0**
Probe 6S	20-Jan-04	1.0	30	0.25	**0.0**	**2.3**	**12.1**	**85.5**
	20-Jan-04	1.0	60	0.50	**0.0**	**2.5**	**12.1**	**85.4**
	20-Jan-04	1.0	90	0.75	**0.0**	**2.7**	**12.0**	**85.3**
	21-Jan-04	1.0	30	0.25	**0.0**	**2.7**	**13.5**	**83.8**
	21-Jan-04	1.0	60	0.50	**0.0**	**2.9**	**13.3**	**83.8**
	21-Jan-04	1.0	90	0.75	**0.0**	**3.0**	**13.1**	**83.8**
Probe 7S	20-Jan-04	1.0	30	0.25	**0.0**	**2.7**	**12.0**	**85.4**
	20-Jan-04	1.0	60	0.50	**0.0**	**3.0**	**11.8**	**85.2**
	20-Jan-04	1.0	90	0.75	**0.0**	**3.1**	**11.8**	**85.1**
	21-Jan-04	1.0	30	0.25	**0.0**	**3.3**	**12.4**	**84.4**
	21-Jan-04	1.0	60	0.50	**0.0**	**3.7**	**11.8**	**84.5**
	21-Jan-04	1.0	90	0.75	**0.0**	**3.7**	**11.8**	**84.5**

Table 3
Phase II Methane Data
The Atrium at Emery Bay Plaza
Emeryville, California

Sample Location	Date Sampled	Depth Sampled (feet)	Elapsed Purge Time (seconds)	Approximate Purge Volume (liters)	Methane (%)	Carbon Dioxide (%)	Oxygen (%)	Balance Gas (%)
					Landtec GEM 500 Instrument			
Probe 8S	20-Jan-04	1.0	30	0.25	**9.0**	**8.1**	**1.2**	**81.5**
	20-Jan-04	1.0	60	0.50	**9.0**	**9.2**	**0.3**	**81.4**
	20-Jan-04	1.0	90	0.75	**9.0**	**9.7**	**0.3**	**81.1**
	21-Jan-04	1.0	30	0.25	**4.8**	**8.7**	**3.4**	**83.1**
	21-Jan-04	1.0	60	0.50	**4.4**	**9.2**	**3.0**	**83.5**
	21-Jan-04	1.0	90	0.75	**4.1**	**9.4**	**2.9**	**83.5**
	21-Jan-04	1.0	120	1.00	**3.9**	**9.6**	**3.1**	**83.5**
	21-Jan-04	1.0	150	1.25	**3.7**	**9.6**	**3.0**	**83.7**
	21-Jan-04	1.0	180	1.50	**3.5**	**9.7**	**3.0**	**83.9**
	21-Jan-04	1.0	210	1.75	**3.4**	**9.7**	**3.0**	**83.9**
	21-Jan-04	1.0	240	2.00	**3.1**	**9.8**	**3.0**	**84.2**
Probe 9S	20-Jan-04	1.0	30	0.25	**18.9**	**0.4**	**1.3**	**79.0**
	20-Jan-04	1.0	60	0.50	**19.2**	**1.2**	**0.6**	**78.9**
	20-Jan-04	1.0	90	0.75	**19.2**	**1.6**	**0.5**	**78.7**
	21-Jan-04	1.0	30	0.25	**15.5**	**1.2**	**4.0**	**79.0**
	21-Jan-04	1.0	60	0.50	**16.4**	**1.7**	**2.9**	**78.9**
	21-Jan-04	1.0	90	0.75	**16.5**	**2.0**	**2.7**	**79.0**
	21-Jan-04	1.0	120	1.00	**16.3**	**2.2**	**2.8**	**78.7**
	21-Jan-04	1.0	150	1.25	**16.1**	**2.3**	**3.0**	**78.6**
	21-Jan-04	1.0	180	1.50	**15.9**	**2.4**	**3.0**	**78.5**
Probe 10S	20-Jan-04	1.0	30	0.25	**0.0**	**0.2**	**17.5**	**82.3**
	20-Jan-04	1.0	60	0.50	**0.0**	**0.3**	**17.5**	**82.2**
	20-Jan-04	1.0	90	0.75	**0.0**	**0.3**	**17.6**	**82.1**
	21-Jan-04	1.0	30	0.25	**0.0**	**0.4**	**18.0**	**81.6**
	21-Jan-04	1.0	60	0.50	**0.0**	**0.5**	**18.2**	**81.5**
	21-Jan-04	1.0	90	0.75	**0.0**	**0.5**	**18.2**	**81.3**

Table 3
Phase II Methane Data
The Atrium at Emery Bay Plaza
Emeryville, California

Sample Location	Date Sampled	Depth Sampled (feet)	Elapsed Purge Time (seconds)	Approximate Purge Volume (liters)	Methane (%)	Carbon Dioxide (%)	Oxygen (%)	Balance Gas (%)
					Landtec GEM 500 Instrument			
Probe 11S	20-Jan-04	1.0	30	0.25	**0.0**	**5.2**	**4.0**	**90.7**
	20-Jan-04	1.0	60	0.50	**0.0**	**6.4**	**3.7**	**89.9**
	20-Jan-04	1.0	90	0.75	**0.0**	**6.9**	**3.5**	**89.6**
	20-Jan-04	1.0	120	1.00	**0.0**	**7.3**	**3.5**	**89.1**
	20-Jan-04	1.0	180	1.25	**0.0**	**7.7**	**3.4**	**89.0**
	21-Jan-04	1.0	30	0.25	**0.0**	**6.0**	**8.3**	**85.8**
	21-Jan-04	1.0	60	0.50	**0.0**	**7.1**	**6.3**	**86.5**
	21-Jan-04	1.0	90	0.75	**0.0**	**7.6**	**5.5**	**87.0**
	21-Jan-04	1.0	120	1.00	**0.0**	**8.0**	**5.0**	**87.0**
	21-Jan-04	1.0	150	1.25	**0.0**	**8.2**	**4.8**	**87.0**
	21-Jan-04	1.0	180	1.50	**0.0**	**8.4**	**4.6**	**86.9**
Probe 12S	20-Jan-04	1.0	30	0.25	**23.0**	**1.8**	**0.7**	**74.6**
	20-Jan-04	1.0	60	0.50	**22.5**	**2.7**	**0.3**	**74.4**
	20-Jan-04	1.0	90	0.75	**21.8**	**3.3**	**0.2**	**74.6**
	20-Jan-04	1.0	120	1.00	**21.4**	**3.7**	**0.2**	**74.6**
	20-Jan-04	1.0	180	1.50	**21.4**	**4.1**	**0.2**	**74.3**
	20-Jan-04	1.0	210	1.75	**21.1**	**4.2**	**0.2**	**74.5**
	21-Jan-04	1.0	30	0.25	**22.0**	**3.9**	**0.9**	**73.0**
	21-Jan-04	1.0	60	0.50	**21.8**	**4.5**	**0.4**	**73.4**
	21-Jan-04	1.0	90	0.75	**21.4**	**4.8**	**0.4**	**73.4**
	21-Jan-04	1.0	120	1.00	**21.1**	**5.0**	**0.3**	**73.7**
	21-Jan-04	1.0	150	1.25	**20.9**	**5.1**	**0.4**	**73.7**
	21-Jan-04	1.0	180	1.50	**20.8**	**5.2**	**0.4**	**73.6**

Table 3
Phase II Methane Data
The Atrium at Emery Bay Plaza
Emeryville, California

Sample Location	Date Sampled	Depth Sampled (feet)	Elapsed Purge Time (seconds)	Approximate Purge Volume (liters)	Methane (%)	Carbon Dioxide (%)	Oxygen (%)	Balance Gas (%)
					Landtec GEM 500 Instrument			
Probe 13S	20-Jan-04	1.0	30	0.25	**0.0**	**0.0**	**19.3**	**80.7**
	20-Jan-04	1.0	60	0.50	**0.0**	**0.0**	**19.3**	**80.7**
	20-Jan-04	1.0	90	0.75	**0.0**	**0.0**	**19.2**	**80.8**
	20-Jan-04	1.0	120	1.00	**0.0**	**0.0**	**19.2**	**80.8**
	21-Jan-04	1.0	30	0.25	**0.0**	**0.0**	**19.4**	**80.6**
	21-Jan-04	1.0	60	0.50	**0.0**	**0.0**	**19.4**	**80.6**
	21-Jan-04	1.0	90	0.75	**0.0**	**0.0**	**19.4**	**80.6**
Probe 14S	20-Jan-04	1.0	30	0.25	**0.0**	**1.1**	**10.9**	**87.8**
	20-Jan-04	1.0	60	0.50	**0.0**	**2.0**	**10.8**	**87.1**
	20-Jan-04	1.0	90	0.75	**0.0**	**2.6**	**10.9**	**86.5**
	20-Jan-04	1.0	120	1.00	**0.0**	**2.9**	**11.2**	**85.9**
	20-Jan-04	1.0	180	1.50	**0.0**	**3.2**	**11.4**	**85.4**
	20-Jan-04	1.0	210	1.75	**0.0**	**3.4**	**11.5**	**85.1**
	21-Jan-04	1.0	30	0.25	**0.0**	**1.4**	**13.2**	**85.3**
	21-Jan-04	1.0	60	0.50	**0.0**	**2.2**	**12.6**	**85.2**
	21-Jan-04	1.0	90	0.75	**0.0**	**2.6**	**12.6**	**84.8**
	21-Jan-04	1.0	120	1.00	**0.0**	**2.7**	**12.7**	**84.6**
Probe 15S	20-Jan-04	1.0	30	0.25	**0.0**	**0.3**	**19.3**	**80.4**
	20-Jan-04	1.0	60	0.50	**0.0**	**0.5**	**19.0**	**80.5**
	20-Jan-04	1.0	90	0.75	**0.0**	**0.7**	**19.0**	**80.3**
	20-Jan-04	1.0	120	1.00	**0.0**	**0.8**	**18.9**	**80.2**
	21-Jan-04	1.0	30	0.25	**0.0**	**0.4**	**19.9**	**79.7**
	21-Jan-04	1.0	60	0.50	**0.0**	**0.7**	**19.7**	**79.6**
	21-Jan-04	1.0	90	0.75	**0.0**	**0.8**	**19.6**	**79.6**

Table 3
Phase II Methane Data
The Atrium at Emery Bay Plaza
Emeryville, California

Sample Location	Date Sampled	Depth Sampled (feet)	Elapsed Purge Time (seconds)	Approximate Purge Volume (liters)	Methane (%)	Carbon Dioxide (%)	Oxygen (%)	Balance Gas (%)
					Landtec GEM 500 Instrument			
Probe 16S	20-Jan-04	1.0	30	0.25	**0.0**	**0.3**	**19.2**	**80.5**
	20-Jan-04	1.0	60	0.50	**0.0**	**0.5**	**19.1**	**80.4**
	20-Jan-04	1.0	90	0.75	**0.0**	**0.6**	**19.0**	**80.4**
	21-Jan-04	1.0	30	0.25	**0.0**	**0.3**	**19.5**	**80.2**
	21-Jan-04	1.0	60	0.50	**0.0**	**0.4**	**19.6**	**80.0**
	21-Jan-04	1.0	90	0.75	**0.0**	**0.5**	**19.5**	**80.0**
Probe 17S	20-Jan-04	1.0	30	0.25	**11.5**	**4.8**	**0.8**	**82.7**
	20-Jan-04	1.0	60	0.50	**11.5**	**5.2**	**0.5**	**82.6**
	20-Jan-04	1.0	90	0.75	**11.6**	**5.5**	**0.4**	**82.3**
	20-Jan-04	1.0	120	1.00	**11.9**	**5.5**	**0.3**	**82.5**
	20-Jan-04	1.0	180	1.50	**12.0**	**5.6**	**0.3**	**82.1**
	20-Jan-04	1.0	240	2.00	**11.8**	**5.7**	**0.3**	**82.2**
	21-Jan-04	1.0	30	0.25	**7.4**	**3.2**	**4.0**	**85.0**
	21-Jan-04	1.0	60	0.50	**8.8**	**4.0**	**1.8**	**85.3**
	21-Jan-04	1.0	90	0.75	**9.1**	**4.3**	**1.1**	**85.3**
	21-Jan-04	1.0	120	1.00	**9.4**	**4.5**	**0.9**	**84.9**
	21-Jan-04	1.0	150	1.25	**9.7**	**4.7**	**0.7**	**84.7**
	21-Jan-04	1.0	180	1.50	**9.8**	**4.9**	**0.6**	**84.6**
	21-Jan-04	1.0	210	1.75	**10.1**	**5.0**	**0.6**	**84.4**
	21-Jan-04	1.0	240	2.00	**10.1**	**5.0**	**0.4**	**84.6**
	21-Jan-04	1.0	270	2.25	**10.3**	**5.1**	**0.4**	**84.9**
	21-Jan-04	1.0	300	2.50	**10.5**	**5.2**	**0.3**	**84.0**

Table 3
Phase II Methane Data
The Atrium at Emery Bay Plaza
Emeryville, California

Sample Location	Date Sampled	Depth Sampled (feet)	Elapsed Purge Time (seconds)	Approximate Purge Volume (liters)	Methane (%)	Carbon Dioxide (%)	Oxygen (%)	Balance Gas (%)
					Landtec GEM 500 Instrument			
Probe 18S	20-Jan-04	1.0	30	0.25	**0.0**	**0.4**	**17.6**	**82.0**
	20-Jan-04	1.0	60	0.50	**0.0**	**0.7**	**17.5**	**81.9**
	20-Jan-04	1.0	90	0.75	**0.0**	**0.8**	**17.5**	**81.7**
	20-Jan-04	1.0	120	1.00	**0.0**	**0.8**	**17.6**	**81.7**
	20-Jan-04	1.0	180	1.50	**0.0**	**0.9**	**17.4**	**81.7**
	20-Jan-04	1.0	240	2.00	**0.0**	**0.9**	**17.5**	**81.6**
	21-Jan-04	1.0	30	0.25	**0.0**	**0.6**	**17.7**	**81.7**
	21-Jan-04	1.0	60	0.50	**0.0**	**0.8**	**17.7**	**81.5**
	21-Jan-04	1.0	90	0.75	**0.0**	**0.9**	**17.5**	**81.6**
	21-Jan-04	1.0	120	1.00	**0.0**	**0.9**	**17.6**	**81.5**
Probe 2A	22-Jan-04	1.0	30	0.25	**0.0**	**0.3**	**19.1**	**80.6**
	22-Jan-04	1.0	60	0.50	**0.0**	**0.4**	**19.0**	**80.6**
	22-Jan-04	1.0	90	0.75	**0.0**	**0.4**	**19.1**	**80.6**
Probe 2B	22-Jan-04	1.0	30	0.25	**3.4**	**6.5**	**1.0**	**89.1**
	22-Jan-04	1.0	60	0.50	**3.4**	**7.2**	**0.3**	**89.1**
	22-Jan-04	1.0	90	0.75	**3.4**	**7.6**	**0.1**	**88.6**
	22-Jan-04	1.0	120	1.00	**3.4**	**8.0**	**0.2**	**88.4**
Probe 2C	22-Jan-04	1.0	30	0.25	**33.2**	**5.7**	**0.7**	**60.3**
	22-Jan-04	1.0	60	0.50	**33.4**	**6.1**	**0.2**	**60.3**
	22-Jan-04	1.0	90	0.75	**33.1**	**6.2**	**0.2**	**60.4**
	22-Jan-04	1.0	120	1.00	**33.3**	**6.3**	**0.2**	**60.2**
	22-Jan-04	1.0	150	1.25	**32.9**	**6.3**	**0.1**	**60.3**
	22-Jan-04	1.0	180	1.50	**33.0**	**6.5**	**0.1**	**60.4**

Table 3
Phase II Methane Data
The Atrium at Emery Bay Plaza
Emeryville, California

Sample Location	Date Sampled	Depth Sampled (feet)	Elapsed Purge Time (seconds)	Approximate Purge Volume (liters)	Methane (%)	Carbon Dioxide (%)	Oxygen (%)	Balance Gas (%)
					Landtec GEM 500 Instrument			
Probe 9A	22-Jan-04	1.0	30	0.25	**28.5**	**0.7**	**0.9**	**71.4**
	22-Jan-04	1.0	60	0.50	**23.3**	**1.1**	**0.5**	**75.5**
	22-Jan-04	1.0	90	0.75	**20.4**	**1.4**	**0.4**	**78.2**
	22-Jan-04	1.0	120	1.00	**18.8**	**1.7**	**0.3**	**79.2**
	22-Jan-04	1.0	180	1.25	**19.0**	**1.9**	**0.3**	**78.8**
	22-Jan-04	1.0	150	1.50	**19.1**	**2.0**	**0.3**	**78.0**
	22-Jan-04	1.0	210	1.75	**20.7**	**2.2**	**0.3**	**77.0**
Probe 9B	22-Jan-04	1.0	30	0.25	**23.7**	**1.8**	**0.9**	**73.5**
	22-Jan-04	1.0	60	0.50	**28.1**	**2.8**	**0.3**	**68.8**
	22-Jan-04	1.0	90	0.75	**28.2**	**3.2**	**0.3**	**68.5**
	22-Jan-04	1.0	120	1.00	**28.3**	**3.5**	**0.2**	**68.0**
Probe 9C	22-Jan-04	1.0	30	0.25	**10.7**	**1.2**	**0.9**	**87.1**
	22-Jan-04	1.0	60	0.50	**10.6**	**2.4**	**0.2**	**86.8**
	22-Jan-04	1.0	90	0.75	**10.6**	**3.0**	**0.2**	**86.2**
	22-Jan-04	1.0	120	1.00	**10.6**	**3.4**	**0.1**	**86.0**
Probe 12A	22-Jan-04	1.0	30	0.25	**1.1**	**7.1**	**1.7**	**90.0**
	22-Jan-04	1.0	60	0.50	**1.8**	**7.9**	**0.9**	**89.1**
	22-Jan-04	1.0	90	0.75	**2.1**	**8.2**	**0.9**	**88.6**
	22-Jan-04	1.0	120	1.00	**2.4**	**8.5**	**0.9**	**88.3**
	22-Jan-04	1.0	150	1.25	**2.4**	**8.5**	**0.9**	**88.2**
	22-Jan-04	1.0	180	1.50	**2.5**	**8.6**	**0.9**	**88.0**
	22-Jan-04	1.0	210	1.75	**2.4**	**8.7**	**0.9**	**88.0**

Table 3
Phase II Methane Data
The Atrium at Emery Bay Plaza
Emeryville, California

Sample Location	Date Sampled	Depth Sampled (feet)	Elapsed Purge Time (seconds)	Approximate Purge Volume (liters)	Methane (%)	Carbon Dioxide (%)	Oxygen (%)	Balance Gas (%)
					Landtec GEM 500 Instrument			
Probe 12B	22-Jan-04	1.0	30	0.25	**17.7**	**1.4**	**0.2**	**79.7**
	22-Jan-04	1.0	60	0.50	**16.0**	**2.8**	**0.3**	**81.0**
	22-Jan-04	1.0	90	0.75	**14.2**	**3.2**	**0.0**	**82.6**
	22-Jan-04	1.0	120	1.00	**13.0**	**3.4**	**0.0**	**84.0**
	22-Jan-04	1.0	150	1.25	**11.8**	**3.5**	**0.0**	**84.7**
	22-Jan-04	1.0	180	1.50	**11.3**	**3.5**	**0.0**	**85.5**
Probe 12C	22-Jan-04	1.0	30	0.25	**4.5**	**5.6**	**1.5**	**88.3**
	22-Jan-04	1.0	60	0.50	**5.7**	**6.1**	**0.8**	**87.2**
	22-Jan-04	1.0	90	0.75	**6.5**	**6.4**	**0.7**	**86.4**
	22-Jan-04	1.0	120	1.00	**7.1**	**6.5**	**0.7**	**85.3**
	22-Jan-04	1.0	150	1.25	**7.9**	**6.6**	**0.6**	**84.7**
	22-Jan-04	1.0	180	1.50	**8.3**	**6.7**	**0.6**	**84.2**
	22-Jan-04	1.0	210	1.75	**8.3**	**6.8**	**0.6**	**84.1**
	22-Jan-04	1.0	240	2.00	**8.8**	**6.8**	**0.6**	**83.8**
	22-Jan-04	1.0	270	2.25	**8.9**	**6.9**	**0.6**	**83.0**
	22-Jan-04	1.0	290	2.50	**3.4**	**6.9**	**0.5**	**89.6**
	22-Jan-04	1.0	330	2.70	**9.2**	**7.0**	**0.5**	**83.3**
Probe 17A	22-Jan-04	1.0	30	0.25	**13.1**	**0.8**	**1.0**	**84.9**
	22-Jan-04	1.0	60	0.50	**13.2**	**2.0**	**0.3**	**84.3**
	22-Jan-04	1.0	90	0.75	**13.6**	**2.8**	**0.2**	**83.6**
	22-Jan-04	1.0	120	1.00	**13.5**	**3.2**	**0.2**	**82.6**
Probe 17B	22-Jan-04	1.0	30	0.25	**1.0**	**0.0**	**1.9**	**97.6**
	22-Jan-04	1.0	60	0.50	**1.1**	**0.4**	**0.7**	**97.8**
	22-Jan-04	1.0	90	0.75	**1.1**	**1.5**	**0.6**	**96.8**
	22-Jan-04	1.0	120	1.00	**0.8**	**1.9**	**0.4**	**97.1**

Table 3
Phase II Methane Data
The Atrium at Emery Bay Plaza
Emeryville, California

Sample Location	Date Sampled	Depth Sampled (feet)	Elapsed Purge Time (seconds)	Approximate Purge Volume (liters)	Methane (%)	Carbon Dioxide (%)	Oxygen (%)	Balance Gas (%)
					Landtec GEM 500 Instrument			
Probe 17C	22-Jan-04	1.0	30	0.25	**0.0**	**0.0**	**19.9**	**80.1**
	22-Jan-04	1.0	60	0.50	**0.0**	**0.0**	**19.9**	**80.1**
	22-Jan-04	1.0	90	0.75	**0.0**	**0.0**	**20.0**	**80.0**

Notes:
NM = Not measured
NA = Not analyzed

PLATES

U.S.G.S. Topo Map - Oakland West, California, 7.5-minute quadrangle. Map version1997; current as of 1993

PES Environmental, Inc.
Engineering & Environmental Services

Site Location Map
1650 65th Street
Emeryville, California

FIGURE
1

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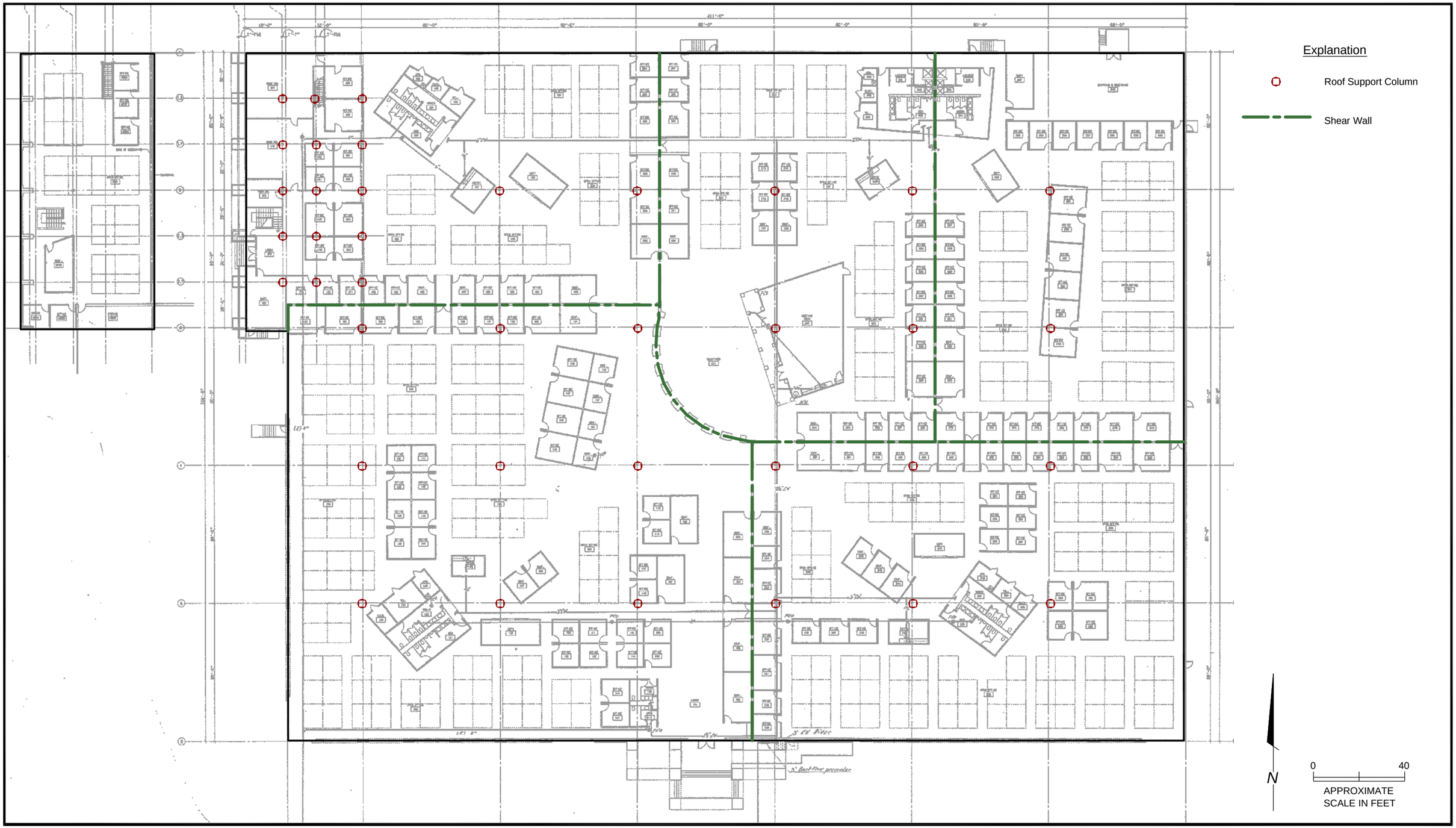
JOB NUMBER	DRAWING NUMBER	REVIEWED BY	DATE

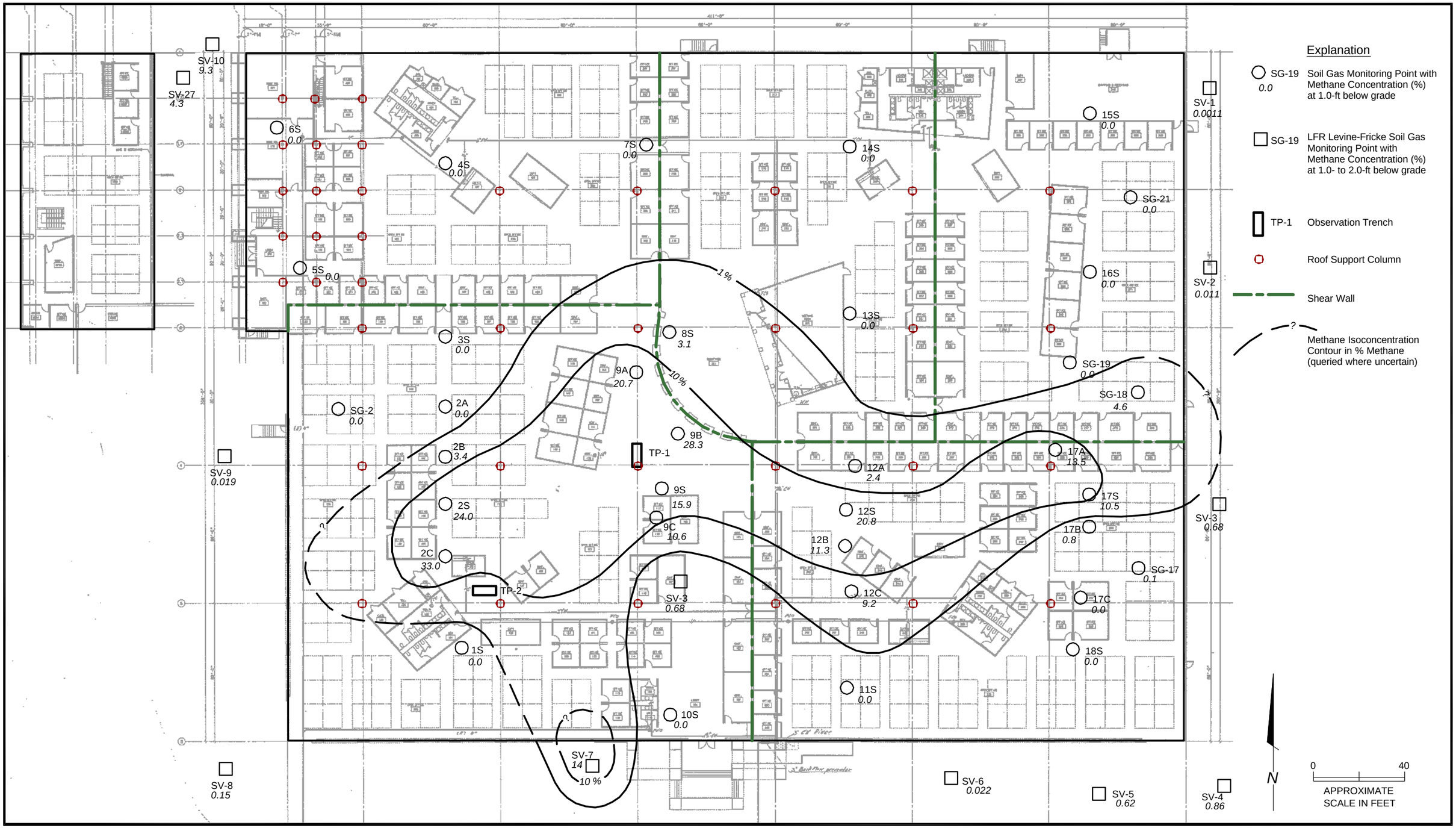


PES Environmental, Inc.
Engineering & Environmental Services

Site Plan
1650 65th Street
Emeryville, California

PLATE
2

241.054.01.001	241-054_1203-02	*AJA*	2/04
JOB NUMBER	DRAWING NUMBER	REVIEWED BY	DATE



PES Environmental, Inc.
Engineering & Environmental Services

Subsurface Methane Distribution - Shallow
1650 65th Street
Emeryville, California

PLATE 3

241.054.01.001	241-054_1203-02	AJA	2/04
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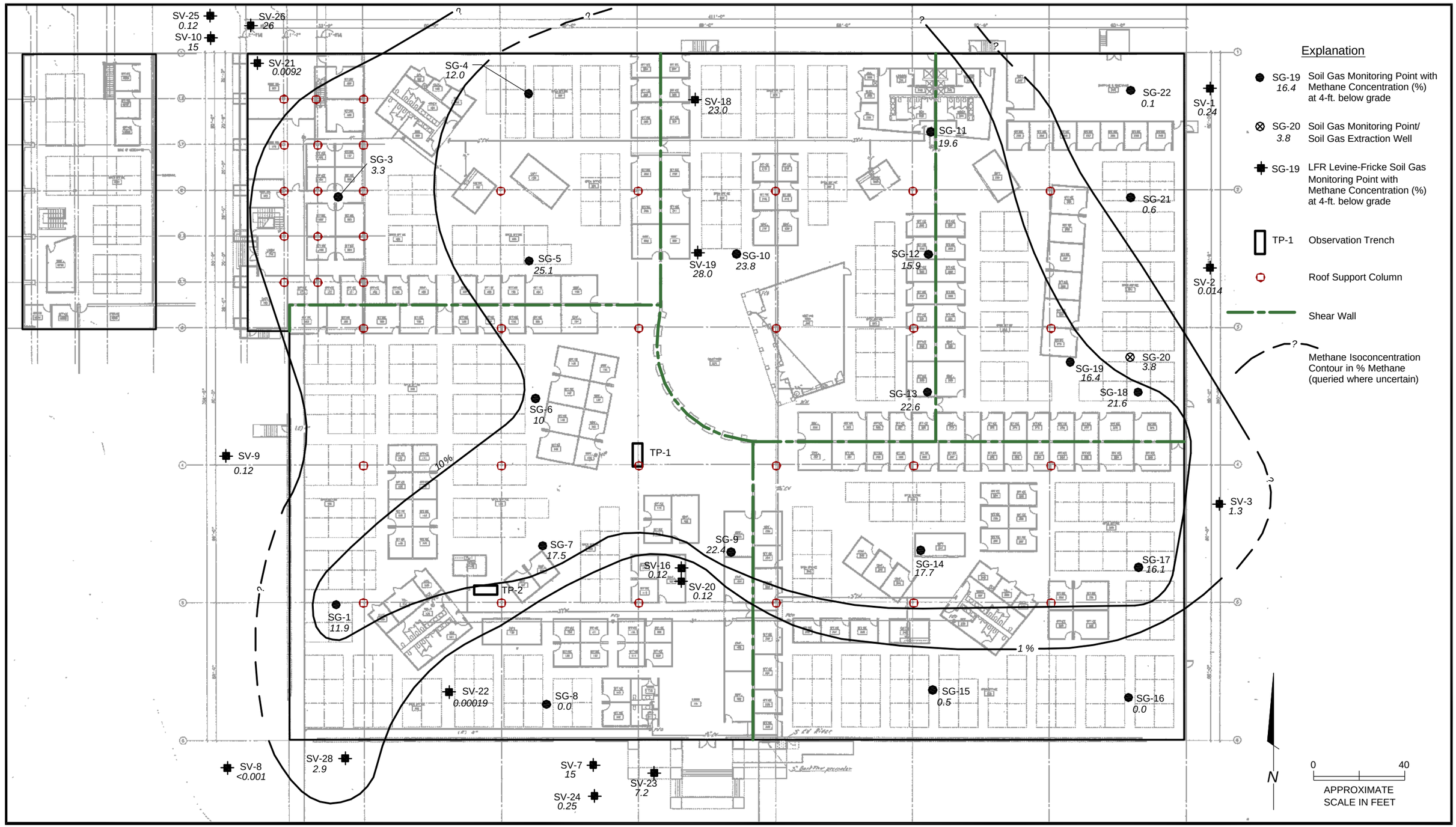

PES Environmental, Inc.
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Subsurface Methane Distribution - Deep
1650 65th Street
Emeryville, California

PLATE 4

241.054.01.001	241-054_1203-02	AJA	2/04
JOB NUMBER	DRAWING NUMBER	REVIEWED BY	DATE