



Airport Professional Park
2374 Post Road, Suite 102
Warwick, Rhode Island 02886
Telephone: 401-736-3440
Fax: 401-736-3423
www.eaest.com

EA Engineering, Science, and Technology, Inc.

6 June 2011

Mr. Joseph T. Martella II, Senior Engineer
Site Remediation Program
Office of Waste Management
RI Department of Environmental Management
235 Promenade Street
Providence, RI 02908

RE: *Quarterly O&M Status Report No. 15*
Alvarez High School, 333 Adelaide Avenue, Providence, Rhode Island
Case No. 2005-029
EA Project No. 14687.01.0002

Dear Mr. Martella:

On behalf of the City of Providence School Department (City), EA Engineering, Science, and Technology, Inc. (EA) is providing this Quarterly Operations and Maintenance (O&M) Status Report in accordance with Provision 6(f) of the Order of Approval and amendments (Amended OA) for the referenced Alvarez High School site (the Site, formerly Adelaide Avenue High School).

This O&M Report summarizes recently-completed Site activities related to compliance subslab vapor and indoor air sampling for the period between March 2011 and May 2011.

If you have any questions or require additional information, please contact me at (401) 736-3440, Ext. 203.

Sincerely,

EA ENGINEERING, SCIENCE,
AND TECHNOLOGY, INC.

Frank B. Postma, LSP, LEP, PG
Project Manager

cc: C. Jones, Prov. Dept. of Public Schools
T. Deller, Prov. Redevelopment Agency
J. Padwa, City of Prov. Law Department
R. Dorr, Neighborhood Resident
Rep. Scott Slater
Knight Memorial Library Repository
A. Sepe, Prov. Dept. of Public Property
S. Fischbach, RI Legal Services
J. Ryan, Partridge, Snow, & Hahn
J. Pichardo, Senator
Principal Torchon, Alvarez High School



Quarterly O&M Status Report No. 15

Summarizing Subslab Depressurization and Indoor Air Monitoring and Sampling Activities

Alvarez High School Site (Formerly Adelaide Avenue High School) Providence, Rhode Island

Prepared for

City of Providence School Department
797 Westminister Street
Providence, Rhode Island 02903

Prepared by

EA Engineering, Science, and Technology, Inc.
2374 Post Road, Suite 102
Warwick, Rhode Island 02886
(401) 736-3440

EA Project No. 14687.01.0002
June 2011

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1. INTRODUCTION AND BACKGROUND

On behalf of the City of Providence School Department (the City), EA Engineering, Science, and Technology, Inc. (EA) has prepared this Quarterly Operations and Maintenance (O&M) Status Report No. 15 for the Parcel B area of the former Gorham Manufacturing site in Providence, Rhode Island, formerly referred to as the Adelaide Avenue High School and now referred to as the Alvarez High School site (the Site). A Site Location Map is provided as Figure 1. This report has been prepared to satisfy provision 6(f) of the Rhode Island Department of Environmental Management (RIDEM) Order of Approval (OA) issued in June 2006, as amended in February 2007, July 2007, and July 2009. For the purposes of this report, the original and the amended OA will collectively be referred to as the Amended OA.

The Amended OA specifies the details of the approved remedy for the Site including, but not limited to, the installation of a subslab depressurization (SSD) system, installation of a continuous indoor air methane monitoring system, and implementation of an associated periodic monitoring and sampling program. In August 2007, the RIDEM-approved remedy for the Site was completed and a Remedial Action Closure Report (RACR) was submitted to RIDEM. In July 2009, the periodic indoor air and subslab vapor sampling schedule was reduced to quarterly sampling from previously required monthly sampling.

This report summarizes the O&M, monitoring, and sampling activities completed at the Site for the 3-month period from March 2011 through May 2011 (Quarterly Reporting Period No. 15) and also includes an overall evaluation of volatile organic compound (VOC) concentrations within soil gas as they pertain to a potential rebound effect at the Site. Please refer to Quarterly O&M Status Reports No. 1 through No. 14 for information regarding monitoring and sampling at the Site during the previous quarters. The RACR and previously-submitted monthly correspondence contain details regarding the results of the monitoring and sampling program for the period between March and August 2007.

2. SUMMARY OF SSD SYSTEM AND INDOOR METHANE MONITORING SYSTEM PERFORMANCE

2.1 SSD SYSTEM

The following SSD System performance parameters were inspected and/or monitored at the frequencies indicated below in accordance with the Amended OA to evaluate system performance:

- Monthly subslab vacuum monitoring at 11 monitoring locations, as illustrated on the As-Built Subslab Monitoring and Sampling Plan provided as Figure 3.
- Monthly inspections and monitoring of rooftop fans (air velocity and vacuum) to verify proper operation.
- Continuous electronic monitoring (with automatic alarm notification via audible signal and phone notification) at each of three SSD System extraction fans to ensure continuous operation.

All vacuum measurements taken at each interior and perimeter subslab monitoring/sampling locations were between 0.00 and greater than -0.25 in. of water column. These zero vacuum measurements were observed at MP-7 in April 2011 and MP-1 in May 2011. EA assumed that water within the subslab vapor measuring point was blocking the air stream and thereby preventing an accurate vacuum measurement. Review of precipitation records for the area indicate there were approximately 0.68 and 2.14 in. of rainfall in the week prior to the April and May 2011 monitoring events, respectively. To confirm that the SSD system was operating effectively, EA returned to the school on 27 May 2011 to measure the vacuum at these two subslab vacuum monitoring points. The vacuum readings from MP-1 and MP-7 were 0.07 and 0.05 in. of water column, respectively. Based on the information above, continuous negative pressure has been maintained beneath the building slab.

Inspections and monitoring of all other system equipment revealed proper system operation, and no equipment shutdowns, failures, alarms, or interruptions of any type occurred during this reporting period. The continuous, verified zone of negative pressure beneath the school's concrete slab, along with the monthly inspections and continuous monitoring of both the indoor air monitoring system and the subslab depressurization system, confirms proper operation of the SSD System during this reporting period.

Copies of O&M field forms summarizing SSD System monitoring data collected during this reporting period are provided in Appendix A.

2.2 INDOOR METHANE MONITORING SYSTEM

Indoor methane concentrations were continuously monitored by an indoor methane monitoring system (equipped with automatic alarm notification via audible signal and phone notification) within the school at eight RIDEM-approved locations (refer to the Indoor Air Sampling and Methane Monitoring System Diagram provided as Figure 2) during this reporting period. In addition, the methane monitoring system was inspected and filters were replaced on a regular basis. The indoor methane monitoring system operated continuously throughout this reporting period with no equipment shutdowns, failures, alarms, or interruptions of any type, and no methane was detected during any of the supplemental monthly indoor methane monitoring events.

In April 2011, filter discs at each of the eight continuous methane sensors were replaced in accordance with a quarterly frequency schedule. The next filter replacement is scheduled for July 2011.

No other maintenance or repairs to the methane monitoring system or components were performed or required during this reporting period.

2.3 AMBIENT OUTDOOR AND INDOOR AIR SAMPLING

One outdoor ambient air sample and eight indoor air samples within the school at RIDEM-approved sampling locations were collected and analyzed for VOCs via Method TO-15 SIM (Selective Ion Monitoring) on 27 April 2011. The outdoor ambient sample was collected from the southwest side of the school (upwind) to ensure that system effluent was not captured in the sample. The sampling frequency has been reduced to quarterly sampling, per OA Addendum 3 prepared by RIDEM and dated 19 July 2009. Sampling locations are shown on the Indoor Air Sampling and Methane Monitoring System Diagram provided as Figure 2. The indoor air sampling results were compared to the State of Connecticut's Draft Proposed Indoor Residential Targeted Air Concentrations (CT RTACs) in accordance with the Amended OA. The laboratory reporting limits (RLs) for several VOCs reported via TO-15 analysis, even though analyzed via the SIM procedure, were greater than the respective CT RTACs. In accordance with the Amended OA, EA contacted the laboratory prior to sample analysis to verify that the RLs provided would be the lowest currently achievable limits. An RL verification letter from Alpha Analytical Laboratory is provided in Appendix E. A data summary table and copies of the laboratory data reports associated with this sampling event are provided in Appendix B.

EA routinely measures the vacuum at 11 soil vapor monitoring points throughout the school using a Magnahelic vacuum gauge capable of measuring to 0.01 in. of water. The results indicate that a vacuum is being maintained by the SSD system at each sampling point. Therefore, controlled prevention of the soil vapors from entering the school is being maintained.

Carbon tetrachloride, a documented background ambient compound present at the Site, has consistently been detected in ambient outdoor air and inside the school during every sampling event completed at the Site at concentrations ranging between 0.19 and 0.77 $\mu\text{g}/\text{m}^3$. Similarly,

during this reporting period the ambient outdoor and indoor air concentrations of carbon tetrachloride ranged between 0.352 and 0.408 $\mu\text{g}/\text{m}^3$. Discussions and guidance provided by the Rhode Island Department of Health, RIDEM Office of Waste Management, and RIDEM Office of Air Resources resulted in an understanding that these carbon tetrachloride results do not constitute Indoor Air Action Level exceedances for the Site since they are consistent with documented background concentrations.

2.4 SUBSLAB VAPOR SAMPLING AND EVALUATION OF POTENTIAL VOC REBOUND EFFECT

A total of 11 RIDEM-approved subsurface sampling locations are installed at the Site. Six subsurface vapor samples were collected in accordance with a RIDEM-approved (Amended OA) rotating sampling schedule and analyzed for VOCs via Method TO-15 SIM on 27 April 2011 in accordance with the Amended OA. The subsurface data is summarized in Appendix C, along with copies of the laboratory data reports associated with these sampling events.

Quarterly Report No. 13 indicated that "*VOC rebound may be occurring. Historical maximum concentrations of tetrachloroethene have been identified in 7 of 11 of the subsurface vapor points in the most recent sampling of the respective sampling point (July or October 2010).*" Quarterly Report No. 14 states "*Review of analytical data from the subsurface vapor sampling and analysis indicate greatly reduced concentrations of tetrachloroethene. The maximum concentration observed this sampling event (8.3 $\mu\text{g}/\text{m}^3$ at IMP-2 [in January 2011]) is less than the minimum value observed in the previous sampling round (October 2010).*" Review of data from the April 2011 sampling event indicates a continuance of the decreasing trend observed in the prior quarter. The maximum concentration observed this sampling event is 7.22 $\mu\text{g}/\text{m}^3$ at MP-5. Based on the data provided above, a VOC rebound within the subsurface is not occurring.

2.5 SUMMARY OF ROOFTOP VOC EMISSIONS

The Amended OA requires that rooftop VOC sampling be completed on an annual basis. The latest rooftop VOC sampling event was completed in July 2010 and was summarized in correspondence submitted to RIDEM in October 2010. Please refer to the previously-submitted Quarterly Status Report No. 12 (dated October 2010) for more details regarding the rooftop VOC data. The 2011 annual rooftop effluent VOC sampling event is scheduled for June 2011 to accommodate the revised quarterly sampling schedule.

Previous rooftop effluent sampling rounds conducted in March 2007 (immediately after SSD system startup), June 2007, June 2008, September 2009, and July 2010 indicated compliance with all Air Pollution Control Permit Applicability Thresholds. In general, the VOC concentrations in the rooftop effluent associated with the July 2010 sampling round indicate continuance of the decreasing trend of VOC concentrations in subsurface soils and do not exceed the Air Pollution Control Permit Applicability Thresholds. Tabulation of the data and the rooftop sampling analytical report is provided as Appendix D.

2.6 CONCLUSIONS

The following conclusions are made based upon the completed inspections, monitoring, and sampling performed during this reporting period:

- The consistent negative pressure maintained below the floor slab indicates that soil vapor intrusion into the Alvarez High School is not occurring. Although two readings of zero vacuum were observed at subsurface monitoring, it is assumed that these readings were resultant of water within the piping blocking the air flow. Subsequent measurements of each of these measuring points indicate sufficient vacuum.
- Subslab vapor rebound is not occurring at the school, based on analytical data from this and the previous sampling event.
- The continuous operation of the SSD System, with no equipment malfunctions or alarm conditions, and confirmation of continuous subslab vacuum beneath the school illustrates ongoing, effective operation of the SSD System. No soil vapor intrusion pathway exists at the school while the SSD System is operational.
- No SSD System modifications or other actions to address current site conditions are warranted or proposed at this time.

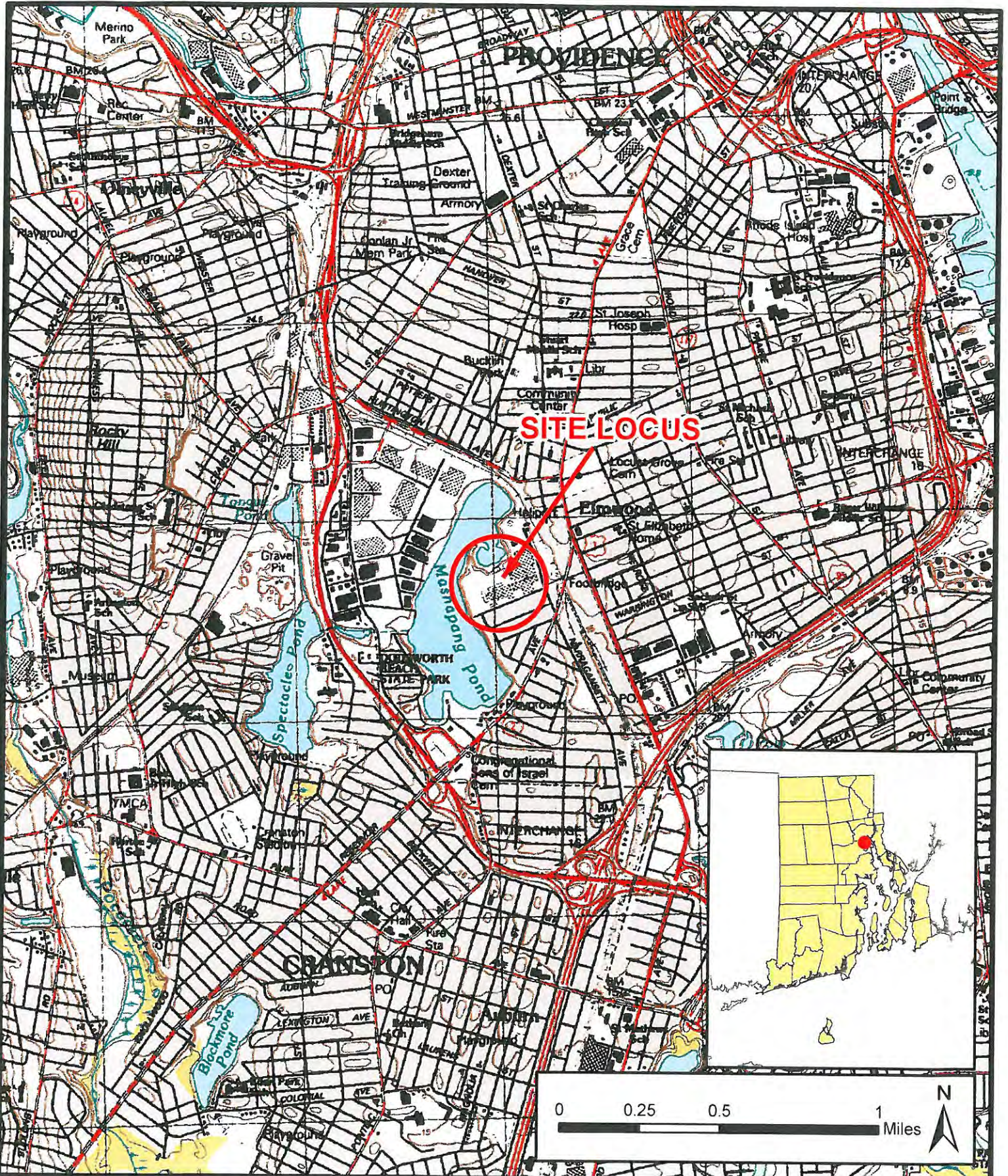
3. FUTURE ACTIVITIES AND NEXT QUARTERLY SUMMARY REPORT

The following activities will be completed in accordance with the Amended OA during the next quarterly status reporting period ending 31 August 2011:

- Continuous monitoring of the operational status of the three rooftop fans
- Monthly site inspections and monitoring using a photoionization detector with part-per-billion sensitivity
- Collection of air samples from eight indoor locations, one ambient location, six subslab monitoring points, and three roof top fans in July 2011.

These activities will be summarized in the next status report (Quarterly Status Report No. 16), expected to be submitted by the end of September 2011.

FIGURES



ALVAREZ HIGH SCHOOL
 333 ADELAIDE AVENUE
 PROVIDENCE, RHODE ISLAND

FIGURE 1
 SITE LOCUS

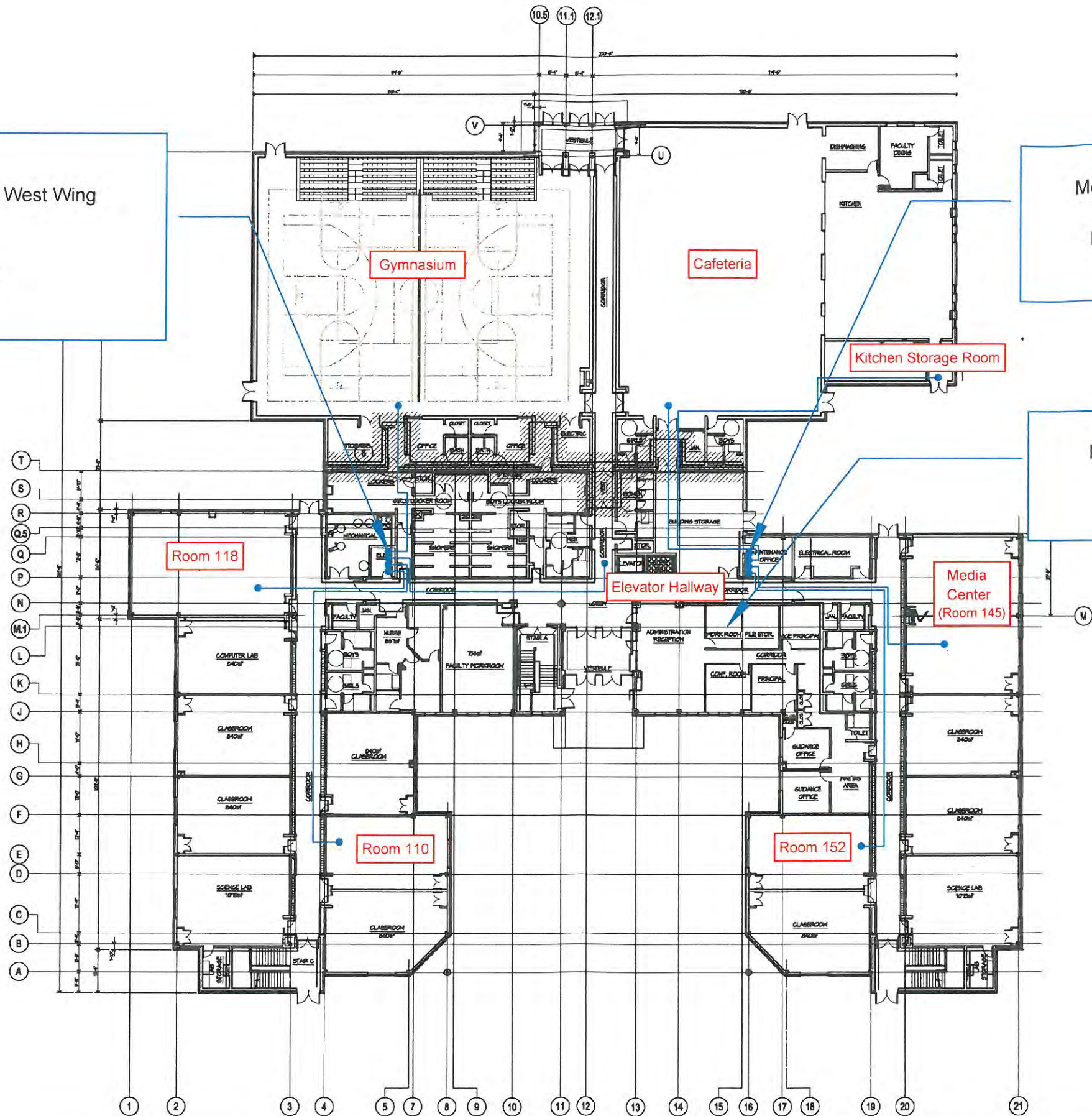
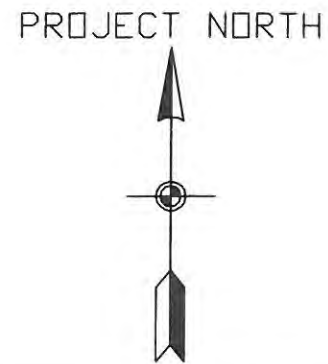
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FP	PT	PT	FP	1:24,000	FEBRUARY 2010	14687.01	SITE_LOCUS.MXD

Methane Sensor Location in West Wing
Electrical Room Area

Methane Sensor Location in East Wing
Electrical Room/Maintenance Office Area.

Methane System Controller Location
Administration Work Room

NOTE: NOT TO SCALE






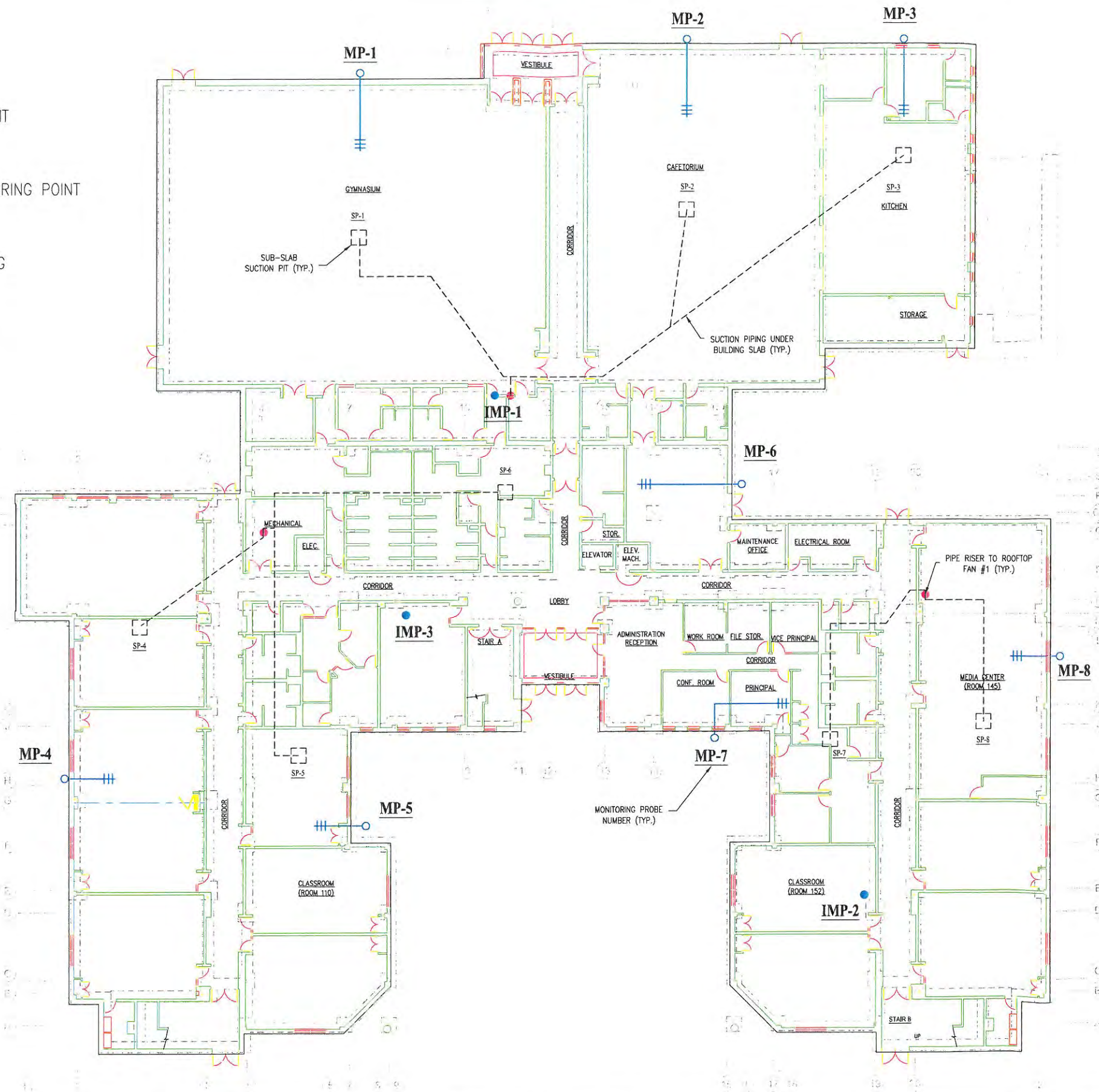
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CHECKED BY PMG	PROJECT MGR. PMG	SCALE NTS	DRAWING NO. -	FIGURE N/A

INDOOR AIR SAMPLING AND METHANE MONITORING
SYSTEM DIAGRAM - GORHAM HIGH SCHOOL
PROVIDENCE, RHODE ISLAND

QUARTERLY STATUS REPORT
FIGURE 2

LEGEND :

- MP-1** SUB-SLAB MONITORING POINT
- IMP-1** INTERIOR SUB-SLAB MONITORING POINT
-  SLOTTED 1 INCH PVC PIPING
-  SSD SYSTEM SUCTION PIT
-  SOLID 4 INCH PVC PIPING



DESIGNED BY PMG	DRAWN BY DMA	DATE AUG 27 2007	PROJECT NO. 14687.01	FILE NAME FIG 3
CHECKED BY PMG	PROJECT MGR. PMG	SCALE NTS	DRAWING NO. N/A	FIGURE 3

AS-BUILT
SUB SLAB MONITORING AND SAMPLING LOCATIONS
ALVAREZ HIGH SCHOOL
PROVIDENCE, RHODE ISLAND

QUARTERLY STATUS REPORT
FIGURE 3

APPENDIX A

O&M Field Forms

Alvarez High School - SSD & Interior Methane Monitoring System O&M Form

Date of O&M: 3/31/2011 Performed by: P. Theroux
 PID/Methane Calibration? US Environmental (yes/no)
 Date of last Methane Sensor Filter Replacement: 10-Nov Replaced this O&M Visit? no (yes/no)

General Status of SSD System: online and operational
 General Status of Methane Monitoring System: online and operational

Eng. Cap/Fence Inspection Performed/Notes: observed in good condition

Monitoring/ Sampling Location	Sub-slab or gauge vacuum	Air Velocity (fpm)	VOC Monitoring PID (ppb)	Indoor Sensor (ppm)	Methane Monitoring		Air/Vapor Sample Collection				Comments/Notes (Ambient weather conditions, status of HVAC, possible monitoring/sampling interferences, etc ... continue on separate sheet if needed)	
					(% Gas)	(% LEL)*	Summa Can ID	Controller ID	Start Time (inches Hg)	Start Vac (inches Hg)		End Time
Gymnasium	NA	NA	70	0	0	0	--	--	--	--	--	
Cafeteria	NA	NA	317	0	0	0	--	--	--	--	--	
Kitchen Storage Room	NA	NA	2	0	0	0	--	--	--	--	--	
Elevator Hallway	NA	NA	90	0	0	0	--	--	--	--	--	
Room 145	NA	NA	7	0	0	0	--	--	--	--	--	
Room 152	NA	NA	0	0	0	0	--	--	--	--	--	
Room 118	NA	NA	201	0	0	0	--	--	--	--	--	
Room 110	NA	NA	112	0	0	0	--	--	--	--	--	
MP-1	0.02	NA	199	NA	0	0	--	--	--	--	--	
MP-2	0.05	NA	186	NA	0	0	--	--	--	--	--	
MP-3	0.04	NA	2944	NA	0	0	--	--	--	--	--	
MP-4	0.04	NA	188	NA	0	0	--	--	--	--	--	
MP-5	0.06	NA	193	NA	0	0	--	--	--	--	--	
MP-6	0.06	NA	937	NA	0	0	--	--	--	--	--	
MP-7	0.09	NA	200	NA	0	0	--	--	--	--	--	
MP-8	0.09	NA	318	NA	0	0	--	--	--	--	--	
IMP-1	0.02	NA	646	NA	0	0	--	--	--	--	--	
IMP-2	0.03	NA	420	NA	0	0	--	--	--	--	--	
IMP-3	0.01	NA	616	NA	0	0	--	--	--	--	--	
Roof-Top Fan 1	2	2737	66.65 ppm	NA	0	0	--	--	--	--	--	
Roof-Top Fan 2	1.9	2110	487 ppm	NA	0	0	--	--	--	--	--	
Roof-Top Fan 3	2.5	2213	252	NA	0	0	--	--	--	--	--	
Ambient Outdoor Air	NA	NA	0	NA	0	0	--	--	--	--	--	

NA: not applicable.
 NM: not monitored on this date.
 NS: not sampled on this date.
 * RIDEM Action Level for methane %LEL beneath the building is 10% and within the building is 1%. If these methane levels are exceeded, immediately notify EA Project Manager to initiate response protocol.

Alvarez High School - SSD & Interior Methane Monitoring System O&M Form

Date of O&M: 4/27/2011 Performed by: P. Theroux & M. Travers

PID/Methane Calibration? Us Environmental (yes/no)

Date of last Methane Sensor Filter Replacement: Nov-10 Replaced this O&M Visit? yes (yes/no)

General Status of SSD System: online and operational

General Status of Methane Monitoring System: online and operational

Eng. Cap/Fence Inspection Performed/Notes: observed in good condition

Monitoring/ Sampling Location	Sub-slab or gauge vacuum	Air Velocity (fpm)	VOC Monitoring PID (ppb)	Methane Monitoring		Summa Can ID	Air Vapor Sample Collection				Comments/Notes (Ambient weather conditions, status of HVAC, possible monitoring/sampling interferences, etc ... continue on separate sheet if needed)	
				Indoor Sensor (ppm)	(% Gas)		(% LEL)*	Controller ID	Start Time	Start Vac (Inches Hg)		End Time
Gymnasium	NA	NA	450	0	0	742	0076	0728	-29.51	0801	-3.93	slight odor observed
Cafeteria	NA	NA	92	0	0	1705	0099	0725	-29.42	0755	-3.67	
Kitchen Storage Room	NA	NA	0	0	0	1712	0371	0726	-29.50	0756	-9.85	
Elevator Hallway	NA	NA	100	0	0	637	0399	0729	-29.86	0803	-11.71	
Room 145	NA	NA	5	0	0	904	0014	0717	-29.42	0748	-5.47	
Room 152	NA	NA	0	0	0	918	0408	0719	-29.66	749	-5.74	
Room 118	NA	NA	39	0	0	1521	0272	0721	-29.38	0751	-1.81	
Room 110	NA	NA	6	0	0	995	0271	0722	-29.06	0752	0.0	
MP-1	0.01	NA	1372	NA	0	--	--	--	--	--	--	
MP-2	0.06	NA	223	NA	0	514	0449	1022	-29.54	1052	-5.61	
MP-3	0.01	NA	10220	NA	0	--	--	--	--	--	--	
MP-4	0.05	NA	221	NA	0	--	--	--	--	--	--	
MP-5	0.07	NA	290	NA	0	1717	0090	1044	-30.02	1116	-2.14	
MP-6	0.04	NA	1057	NA	0	--	--	--	--	--	--	
MP-7	0	NA	200	NA	0	482	0301	1037	-29.25	1106	-6.23	
MP-8	0.13	NA	219	NA	0	529	0224	1030	-29.25	1100	-1.65	
IMP-1	0.04	NA	355	NA	0	1729	0429	0900	-29.81	0933	0.0	
IMP-2	0.02	NA	421	NA	0	--	--	--	--	--	--	
IMP-3	0.01	NA	363	NA	0	474	0424	0905	-29.65	0935	-1.73	
Roof-Top Fan 1	2	2966	56	NA	0	--	--	--	--	--	--	
Roof-Top Fan 2	2	2293	86	NA	0	--	--	--	--	--	--	
Roof-Top Fan 3	2.3	2421	195	NA	0	--	--	--	--	--	--	
Ambient Outdoor Air	NA	NA	0	NA	0	638	0023	1019	-29.83	1049	-3.94	

NA: not applicable.

NM: not monitored on this date.

NS: not sampled on this date.

* RIDEM Action Level for methane %LEL beneath the building is 10% and within the building is 1%. If these methane levels are exceeded, immediately notify EA Project Manager to initiate response protocol.

Alvarez High School - SSD & Interior Methane Monitoring System O&M Form

Date of O&M: 5/20/2011

Performed by: P. Theroux

PID/Methane Calibration? US Environmental (yes/no)

Date of last Methane Sensor Filter Replacement: 4/27/2011

Replaced this O&M Visit? no (yes/no)

General Status of SSD System: online and operational

General Status of Methane Monitoring System: online and operational

Eng. Cap/Fence Inspection Performed/Notes: observed in good condition

Monitoring/ Sampling Location	Sub-slab or gauge vacuum	Air Velocity (fpm)	VOC Monitoring PID (ppb)	Indoor Sensor (ppm)	Methane Monitoring		Air/Vapor Sample Collection				Comments/Notes (Ambient weather conditions, status of HVAC, possible monitoring/sampling interferences, etc continue on separate sheet if needed)	
					% Gas	% LEL*	Summa Can ID	Controller ID	Start Time (inches Hg)	Start Vac (inches Hg)		End Time
Gymnasium	NA	NA	0	0	0	0	---	---	---	---	---	
Cafeteria	NA	NA	0	0	0	0	---	---	---	---	---	
Kitchen Storage Room	NA	NA	0	0	0	0	---	---	---	---	---	
Elevator Hallway	NA	NA	22	0	0	0	---	---	---	---	---	
Room 145	NA	NA	0	0	0	0	---	---	---	---	---	
Room 152	NA	NA	0	0	0	0	---	---	---	---	---	
Room 118	NA	NA	0	0	0	0	---	---	---	---	---	
Room 110	NA	NA	7	0	0	0	---	---	---	---	---	
MP-1	0	NA	749	NA	0	0	---	---	---	---	---	
MP-2	0.07	NA	683	NA	0	0	---	---	---	---	---	
MP-3	0.03	NA	8423	NA	0	0	---	---	---	---	---	
MP-4	0.05	NA	150	NA	0	0	---	---	---	---	---	
MP-5	0.07	NA	143	NA	0	0	---	---	---	---	---	
MP-6	0.04	NA	3472	NA	0	0	---	---	---	---	---	
MP-7	0.25+	NA	40	NA	0	0	---	---	---	---	---	
MP-8	0.08	NA	117	NA	0	0	---	---	---	---	---	
IMP-1	0.01	NA	95	NA	0	0	---	---	---	---	---	
IMP-2	0.02	NA	227	NA	0	0	---	---	---	---	---	
IMP-3	0.01	NA	84	NA	0	0	---	---	---	---	---	
Roof-Top Fan 1	2.0	2924	14	NA	0	0	---	---	---	---	---	
Roof-Top Fan 2	2.0	2143	29	NA	0	0	---	---	---	---	---	
Roof-Top Fan 3	2.4	2469	22	NA	0	0	---	---	---	---	---	
Ambient Outdoor Air	NA	NA	0	NA	0	0	---	---	---	---	---	

NA: not applicable.
 NM: not monitored on this date.
 NS : not sampled on this date.

* RIDEEM Action Level for methane %LEL beneath the building is 10% and within the building is 1%. If these methane levels are exceeded, immediately notify EA Project Manager to initiate response protocol.

