LAB ID and/or LABORATORY NAME:		
ASSESSOR NAME:	DATE:	
ALDUA TDAOK	-	
ALPHA TRACK		
Method Number: ELAP method number 7035		
SOP Number:		
Revision Number:		
SOP Date:		
Personnel / Data Records observed:		

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Question	Υ	N	NA	Codes	Comments
RADON IN AIR	_		100	00000	- Comments
Are both of the following EPA publications available at the lab:					
a. Protocols for Radon and Radon Decay Product Measurements in Homes? (EPA 402-R92-003)				N002	
b. Indoor Radon and Radon Decay Product Measurement Device Protocols? (EPA 402-R92-004)				N003	
2. Is a written standard operating procedure (SOP) available? (Duplication of the protocols will not suffice.)				N005	
a. Does the analyst follow the manufacturer's instructions, the US EPA protocols and the lab's SOP?				N072	
3. Is a written quality assurance project plan (QAPP) appropriate to each device available?				N006	
4. Does the data collection log include:					
a. Date and time of deployment?				N007	
b. Date and time of removal?				N008	
c. Condition of the devices?	Ì			N009	Ì
d. Exact location of device (i.e., building, room and sampling position) within the property being monitored?				N011	
e. Serial number, model number, and manufacturer of the detector?				N012	
f. Unique identifier of client and client's address (if different from testing location)?				N013	
5. Are monitoring devices deployed and retrieved by trained employees of the radon laboratory?			X	N015	These are long term testing devices (3 month to 1 year). Homeowners or
6. When monitoring devices are set out and picked up by different persons, is this noted in the record?			X	N016	occupants would most likely deploy and retrieve the detectors.
7. Is a qualifying statement used if the lab does not control the monitoring process (i.e., placed and/or retrieved by persons other than trained lab personnel)?				N017	
8. Is the technical director of the laboratory aware of the device's Lower Limit of Detection (LLD), and has the background level been determined? (1 pCi/L routine; 0.2 pCi/L-month additional counting)				N019	
EQUIPMENT					

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Question Question	Y	_	NA	Codes	Comments	
		14	IVA	Codes	Comments	
Are alpha track (AT) detectors in sealed containers? (Short term 90 days; Long term 1 year)				N075		
2. Are appropriate monting fixtures available?				N076		
3. Is an instruction sheet provided to the client?				N077		
4. Is a data collection log available?				N078		
QUALITY CONTROL						
Laboratory Control	ol De	etec	tors			
Is the operation of the analysis instruments checked daily?				N080		
2. Is a written log of this check available?				N081		
3. Has the background level for each batch of AT detectors been established by the supplier?				N081A		
4. Is a record of the net background readings for each batch of AT detectors available?				N081B		
Field Control Detectors						
1. Are field control detectors kept in a low radon (less than 0.2 pCi/L)						
area?				N083		
(field control detectors = field blanks)						
2. Are field control detectors deployed at at the rate of 5% of deployed detectors each month with a maximum of 25 per month?				N084		
3. Are field blanks labeled as real samples and returned to the supplier for analysis?				N085		
4. Are the results of field blanks tabulated?				N086		
5. Are acceptance limits indicated on the tabulation of field blanks?				N086A		
6. Is the tabulation of field blanks up to date?				N089		
7. If the acceptance limits are exceeded, is the source of the						
problem determined and corrected?				N087		
(In general, a value > 1 pci/L should be investigated.)						
8. Is the average result of the field blanks less than the LLD?				N088		
a. If the average field blank result is greater than the LLD, is						

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Question Question	Υ		NA		Comments	
	<u> </u>	14			Comments	
the field blank result subtracted from the exposure result?				N088A		
Duplicate Collocated Detectors						
1. Are duplicate detectors installed in homes at the rate of 10% of				N091		
deployed detectors each month or 50, whichever is smaller?						
2. Are the duplicates systematically distributed throughout the				N092		
workload?						
3. Are the duplicates handled identically to the samples?				N093		
4. Are the duplicates not identified as such to the analyzing				N094		
laboratory (i.e., submitted blindly)?						
5. Is the precision of the duplicate data from radon levels measured						
at 4 pCi/L or above within 10% Relative Standard Deviation (RSD: for				N095		
a long-term series of duplicate measurements), or 14% Relative Percent Difference (RPD: for a single pair of duplicates)?						
6. Are the data from duplicates available (e.g., control charts)?				N096		
7. Are the acceptance limits for duplicates determined?				N097		
Spiked Samples (Detectors)						
Are spiked samples (detectors) with known radon exposures	Ì		<u> </u>			
submitted at the rate of 3 per 100 measurements, with a minimum of				N101		
3 per year and a maximum of 6 per month?						
2. Are spiked samples (detectors) labeled as routine samples?				N102		
3. Are the results of spiked samples (detectors) kept as part of the						
record (e.g., control charts)?				N103		
4. If the acceptance limits are exceeded, is the source of the						
problem determined?				N106		
SYSTEM CALIBRATION						
1. Has either the manufacturer or the user calibrated the complete				N108		
system (detectors and readers) in a Radon Chamber yearly?				IN IUO		
2. Has a minimum of 10 detectors been exposed at a minimum of 3				N109		
different concentrations?				11103		
3. Is the exposure period sufficient to allow the detector to achieve				N110		
equilibrium with the chamber atmosphere?						

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NYSDOH Environmental Laboratory App	1 -				on Checklist
Question	Y	N	NA	Codes	Comments
 4. Has a calibration factor been determined for each batch or sheet of detection material? (The factor may be extended to similar sheets with pre-established tolerance limits) 				N112	
4. If the manufacturer is performing the calibration, does the lab utilize the correct calibration coefficient?				N111	
RECORD KEEPING					
1. Are the following record(s) kept for 5 years by the measurement or	gan	izati	ion:		
a. A copy of the final report including measurement results and the statement outlining any recommendations concerning retesting or mitigation provided to the building occupant or agent?				N237	
b. The address of the building monitored including zip code?				N238	
c. The exact locations of all deployed measurement devices? (Examples: room sketches, detailed written description)				N239	
d. Exact start and stop dates and times of the measurement period required for analysis?				N240	
e. A description of the device used including the device identification number and serial number, if applicable?				N241	
f. A description of the condition of any permanent vents?				N242	
g. The name of the service organization used for calibrations and the certificates of calibration?				N243	
h. The name of the individual who conducted the test along with their associated training records?				N244	
i. A description of any variations from or uncertainties about standard measurement procedures, closed building conditions, or other factors that may affect the measurement result?				N245	
j. A description of any non-interference controls and copies of signed non-interference agreements?				N246	
k. A record of any quality control measurements associated with the test?				N247	
I. The written authorization from the client enabling the lab to report results to a third party (if applicable)?				N254	

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7 11							
Question	Y	N	NA	Codes	Comments		
REPORTING							
1. Does the lab report the result with an uncertainty or error factor, if one is provided by the manufacturer?				N249			
2. Does the report contain the advisory of 10 NYCRR 16.130 for properties tested within New York State having measured radon gas levels >20 pCi/L or 0.1 working level?				N257			
3. For labs within NYS, does the laboratory report all of its radon monitoring data to the State according to 10 NYCRR 16.13?				N258			
4. Are results calculated correctly?				N262			
5. Are field duplicate readings, if available, reported in an acceptable manner? (See EPA 402R92-003).				N259			

When any radon screening or long term testing result exceeds 20 pCi/L or 0.1 working level as defined in section 16.2(a)(145), the customer, if a resident of New York State, is advised to contact the New York State Department of Health, Bureau of Environmental Radiation Protection, for further technical advice and assistance.

New York State Radon Office Phone (518) 402-7556 Toll Free (800) 458-1158

Website: http://www.health.state.ny.us/environmental/radiological/radon

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