ClearPath RD

clearpathrd.com

Functional Specification Document

Document Version	1.0 — MVP
Status	Draft — For Review
Date	February 2026
Prepared By	ClearPath RD Product Team
Domain	clearpathrd.com
Classification	Confidential

This document defines the functional requirements, user flows, and feature specifications for the ClearPath RD MVP. It is intended to guide development, inform partner conversations, and serve as the source of truth for product decisions. Architecture decisions are made with future white-label, API-first, and partnership capabilities in mind.

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1. Executive Summary

ClearPath RD is a consumer-facing web application that guides Canadian homeowners through the complete radon management journey — from initial risk awareness through test kit selection, guided testing, results interpretation, contractor connection, and verified certificate generation. The platform is built API-first to support future white-label partnerships, third-party integrations, and managed monitoring services.

The MVP scope focuses on delivering a complete, demonstrable end-to-end user journey that validates product-market fit, establishes the ClearPath RD brand as the authoritative consumer radon platform in Canada, and provides the architectural foundation for subsequent product layers including continuous monitoring subscriptions, real estate certificate products, and partner API access.

> *Design principle: Every MVP decision is made with the question — does this constrain or enable the partnership and scale architecture we need in Phase 2 and beyond? If it constrains, we do it differently.*

1.1 Product Vision

To become the default radon platform for Canadian homeowners — the place where radon becomes a solved problem rather than an ongoing anxiety. ClearPath RD occupies the experience layer that currently does not exist: between fragmented government information and contractor websites, and before the hardware ecosystems of Airthings and Ecosense.

1.2 Business Objectives — MVP

- Validate the guided user journey from risk assessment to kit purchase to results
- Establish the ClearPath Certificate as a credible, verifiable product
- Seed a minimum viable contractor network in 8 high-radon Canadian markets
- Generate first-party user and home data to support partnership conversations
- Demonstrate commercial viability through kit margin and contractor referral revenue

1.3 MVP Scope Summary

IN SCOPE — MVP	OUT OF SCOPE — Future Phases

2. Users and Personas

ClearPath RD serves three distinct user types in the MVP. Each has different motivations, urgency levels, and expected journeys through the platform.

2.1 Primary User — The Homeowner

Existing Homeowner	Real Estate Buyer/Seller
Demographics: 30-60, owns home 2+ years, has basement, health-conscious	Demographics: Active in a home transaction, working with a real estate agent, time-constrained.
Motivation: Heard about radon, wants to do the right thing but doesn't know where to start. Low urgency, high friction.	Motivation: Due diligence or listing differentiation. High urgency, willing to pay for speed and credibility.
Journey: Risk assessment → long-term kit → 91-day test → results → certificate or contractor	Journey: Real estate pathway → short-term test → expedited results → ClearPath Certificate for transaction

2.2 Secondary User — The Real Estate Agent

Agents are not direct end users of the testing journey but are a critical distribution channel and indirect user of the platform. In the MVP they access ClearPath as a referral source — pointing clients to the platform. The agent-facing experience in MVP is limited to a landing page explaining the ClearPath Certificate and a shareable referral link. A full agent portal is a Phase 2 feature.

2.3 Administrative User

Internal ClearPath team member with access to the admin dashboard. Responsible for contractor directory management, test session monitoring, certificate issuance oversight, and platform analytics. Single admin role in MVP; role-based access control is a Phase 2 feature.

3. User Journey Overview

The ClearPath RD user journey is designed as a linear guided flow with branching at two key decision points: test type selection (long-term vs. real estate short-term) and post-result action (certificate generation vs. contractor referral vs. both). The journey is designed to be completable across multiple sessions with progress saved at each step.

Primary Journey — Existing Homeowner (Long-Term Test)

1

Landing & Awareness
User arrives at clearpathrd.com. Value proposition presented. Clear CTA to begin the guided assessment.
User

2

Account Creation
Email + password or magic link. Social login via Google. Minimal friction — only email required to proceed.
User / System

3

Home Profile Setup
Postal code, home age range, foundation type (basement/slab/crawl), basement use (living space, storage, unfinished). Takes under 2 minutes.
User

4

Risk Assessment
System calculates risk context from postal code (Health Canada zone data), home profile, and basement occupancy. Presents plain-language result with regional prevalence data.
System

5

Test Type Selection
System recommends long-term alpha track test for standard residential use. User confirms. Real estate pathway available as alternative.
User / System

6

Kit Purchase
User selects kit quantity, reviews pricing. Checkout via Stripe. Order fulfilled by lab partner. Confirmation email sent with activation instructions.
User / System

7

Test Session Activation
User enters kit serial number from package. Guided placement instructions presented. Test session created in system. 91-day countdown begins.
User / System

8

Placement Guidance
Step-by-step interactive guide: location selection, height, distance from walls/windows. Photo checklist optional. Confirmation recorded.
User

9

Active Test Period
91-day countdown displayed in dashboard. Automated emails at Day 1, Day 30, Day 60, Day 80 (mail reminder), Day 91. Educational content surfaced progressively.
System

10

Kit Retrieval & Mailing
System sends retrieval reminder at Day 80 and Day 88. Instructions for packaging and mailing kit to lab.
Tracking confirmation optional.
User / System

11

Results Entry
Lab emails results to user. User enters result in Bq/m³ into ClearPath dashboard. System validates entry
format.
User

12

Results Interpretation
System renders plain-language interpretation in one of three zones: Below Guideline, Caution Zone, or
Action Required. Context, next steps, and relevant grants displayed.
System

13

Post-Result Action
Below guideline: certificate offered + re-test scheduling. Caution zone: guidance + optional certificate. Action
required: contractor referral prioritized + certificate available.
User / System

14

Certificate Generation
User requests ClearPath Certificate. System generates PDF with unique UUID, verifiable URL, result,
validity period, and lab accreditation reference.
System

15

Contractor Referral
If result is elevated, certified C-NRPP contractors surfaced by postal code. Contact details, certifications,
and service area displayed.
System

Branching Journey — Real Estate Pathway

RE-1

Real Estate Entry
User selects 'Buying or Selling a Home' at test type selection. Alternative entry via real estate agent referral
link.
User

RE-2

Transaction Context
User indicates buyer or seller role. Conditional period or listing timeline captured to set urgency context.
User

RE-3

Short-Term Kit
Short-term 48-96 hour test kit recommended and purchased. Closed-house conditions protocol explained.
Higher price point than long-term kit.
User / System

RE-4

Expedited Process
Accelerated activation, 48-96 hour test period, expedited lab analysis. Results delivered within 5-7 business
days of lab receipt.
User / System

RE-5

Transaction Certificate

ClearPath Real Estate Certificate generated — same format as standard certificate but marked as transaction-grade with closed-house conditions noted.
System

4. Feature Specifications

4.1 Risk Assessment Engine

The risk assessment engine is the first substantive interaction a user has with ClearPath RD. It must deliver a credible, personalized context that motivates action without triggering anxiety. The output is not a radon reading — it is a risk context informed by public data.

4.1.1 Inputs

- Postal code (first 3 characters / FSA used for zone mapping)
- Home age range: Pre-1980 / 1980-2000 / 2000-2010 / Post-2010
- Foundation type: Full basement / Partial basement / Crawl space / Slab on grade / Unknown
- Basement occupancy: Primary living space / Occasional use / Storage only / No basement

4.1.2 Processing

- FSA mapped to Health Canada radon potential zone (Low / Moderate / High / Very High)
- Regional prevalence percentage sourced from 2024 Cross-Canada Radon Survey data
- Home profile modifiers applied: newer airtight homes flagged as higher risk, basement living space increases urgency score
- Output: risk context tier (Awareness / Elevated Awareness / Recommended Action) + plain-language summary

4.1.3 Display Requirements

- Result presented as a card with colour-coded tier indicator
- Regional stat displayed: e.g., 'In your area, approximately 1 in 5 homes tests above the Health Canada guideline'
- No absolute prediction made — system never states 'your home has radon'
- CTA: 'Find out what's actually in your home — test takes 91 days and costs under $60'

> *Partnership note: The risk assessment data layer (FSA-to-zone mapping, regional prevalence) must be stored as a versioned dataset in the database — not hardcoded — so it can be updated as new survey data is released and shared with data partners via API.*

4.2 Home Profile

The home profile is the core persistent record for each property. It is separate from the user account — a user can have multiple homes, and a home can have multiple test sessions over time. This separation is foundational for the real estate certificate product and future multi-property management.

4.2.1 Home Profile Fields

HP-01
Civic address (street, city, province, postal code)
Must

MVP
HP-02
Home nickname for multi-home disambiguation (e.g., 'Main Residence')
Should
MVP
HP-03
Home age range selection
Must
MVP
HP-04
Foundation type selection
Must
MVP
HP-05
Basement occupancy level
Must
MVP
HP-06
Rough-in mitigation system present (yes/no/unknown)
Should
MVP
HP-07
Previous radon test history (self-reported, optional)
Could
MVP
HP-08
Home square footage range
Could
Phase 2
HP-09
HVAC type (for future ventilation guidance)
Could
Phase 2

4.3 Test Kit Recommendation and Purchase

The kit purchase flow is the first transactional moment in the user journey. It must be simple, trustworthy, and clearly explain what the user is getting and why the recommendation makes sense for their situation.

4.3.1 Recommendation Logic

- Default recommendation: Long-term alpha track kit (91+ days) for existing homeowners
- Real estate recommendation: Short-term kit (48-96 hours) when user indicates transaction context
- Recommendation rationale displayed in plain language alongside the recommendation card
- User may override recommendation with acknowledgement prompt

4.3.2 Kit Product Catalog

ClearPath Standard Kit
91-180 days
Residential — existing homeowners
$54.99 incl. shipping + lab

ClearPath Real Estate Kit
48-96 hours
Home transactions — buyers and sellers
$89.99 incl. expedited analysis
ClearPath Twin Pack
91-180 days
Multi-level homes (basement + main)
$94.99 incl. shipping + lab

4.3.3 Checkout Requirements

KP-01
Stripe payment integration — card only for MVP
Must
MVP

KP-02
Order confirmation email with kit activation instructions
Must
MVP

KP-03
Shipping address capture and validation
Must
MVP

KP-04
Lab partner fulfillment webhook — order transmitted on payment success
Must
MVP

KP-05
Kit serial number issued by lab included in shipment for activation
Must
MVP

KP-06
HST/GST calculation by province
Must
MVP

KP-07
Agent referral code capture at checkout for attribution
Should
MVP

KP-08
Buy now pay later (Afterpay/Klarna)
Could
Phase 2

4.4 Test Session Management

The test session is the core operational record of a radon test in progress. It links a kit serial number to a home profile, tracks the test lifecycle from activation through results entry, and drives all automated communications during the 91-day window.

4.4.1 Session Lifecycle States

ORDERED
Kit purchased, awaiting activation by user
Successful payment
ACTIVE
Kit placed in home, countdown running
Serial number entry + placement confirmation
RETRIEVAL_DUE
Approaching end of test window
Day 80 of test period
MAILED
User confirms kit sent to lab
User action in dashboard
RESULTS_PENDING
Kit at lab, awaiting analysis
Automatic after mailing confirmation
COMPLETE
Results entered, interpretation rendered
User enters result in Bq/m³
EXPIRED
Test window exceeded without completion
Day 365 without completion
CANCELLED
Test cancelled by user
User action

4.4.2 Automated Email Schedule

EM-01
Order confirmation — kit purchased, activation instructions
Must
MVP
EM-02
Activation confirmation — test session started, placement tips
Must
MVP
EM-03
Day 30 check-in — educational content, radon context for their region
Should
MVP
EM-04
Day 60 mid-point — reminder kit is in place, estimated completion date
Should
MVP
EM-05
Day 80 retrieval warning — instructions for packaging and mailing kit
Must
MVP
EM-06
Day 88 final reminder — urgent retrieval and mailing reminder

Must
MVP
EM-07
Results entry prompt — sent when lab turnaround window has passed
Should
MVP
EM-08
Certificate ready — notification when certificate generated
Must
MVP

4.5 Placement Guidance

Correct kit placement is essential for accurate results. The placement guidance module must be simple enough for a non-technical homeowner to follow correctly without professional assistance, while capturing enough confirmation data to support a credible certificate.

4.5.1 Placement Rules (Displayed to User)

- Place in the lowest level of the home that is regularly occupied
- Keep at least 50cm (20 inches) from exterior walls, doors, and windows
- Keep at least 50cm from exterior ground level if in a basement
- Do not place in kitchen, bathroom, laundry room, or storage-only spaces
- Do not place near heating vents, fans, or air conditioners
- Optimal height: between 50cm and 2 metres from the floor
- Do not move the detector once placed — record the location

4.5.2 Placement Confirmation Record

User confirms placement by selecting from a room type list and describing the location in plain text (e.g., 'Northeast corner of finished basement, desk height'). This confirmation is stored on the TestSession record and referenced in the Certificate.

4.6 Results Interpretation

The results interpretation module converts a raw Bq/m³ number into a meaningful, actionable response. It is the most consequential interaction in the ClearPath journey — the moment where the product either earns trust or loses it.

4.6.1 Interpretation Zones

Below Guideline
< 100 Bq/m³
Well below both Health Canada (200) and WHO (100) guidelines. Your home's radon level is low.
Generate certificate. Re-test in 5 years or after major renovation.
Caution Zone
100–200 Bq/m³
Below the Health Canada action level but above the WHO guideline. Worth monitoring and considering mitigation.
Consider mitigation consultation. Certificate available. Re-test recommended in 2 years.
Action Required

200–600 Bq/m³
Above the Health Canada guideline of 200 Bq/m³. Health Canada recommends remediation within 2 years.
Contractor referral prioritized. Certificate documents current state. Mitigation within 24 months.
Urgent Action
> 600 Bq/m³
Significantly above guideline. Health Canada recommends remediation within 12 months.
Immediate contractor referral. Certificate issued. Mitigation within 12 months strongly advised.

4.6.2 Supplementary Content at Results

- Relevant government grant programs surfaced by province
- Link to Health Canada radon resources
- Plain-language explanation of what mitigation involves and average cost
- ClearPath Certificate CTA displayed regardless of zone

4.7 ClearPath Certificate

The ClearPath Certificate is the most strategically important feature in the MVP. It transforms a radon test result into a portable, verifiable, shareable document that creates real value in real estate transactions and positions ClearPath RD as the documentation standard for residential radon in Canada.

4.7.1 Certificate Contents

CERT-01
ClearPath RD branding, certificate ID (UUID), and version number
Must
MVP

CERT-02
Property civic address and home profile summary
Must
MVP

CERT-03
Test type (long-term residential / real estate short-term)
Must
MVP

CERT-04
Test period: activation date, completion date, duration in days
Must
MVP

CERT-05
Placement location description as recorded during activation
Must
MVP

CERT-06
Result in Bq/m³ with interpretation zone label
Must
MVP

CERT-07
Lab accreditation reference (C-NRPP lab name and accreditation number)
Must
MVP

CERT-08
Certificate validity period (5 years from test date or next major renovation)
Must
MVP

CERT-09
Verifiable URL: clearpathrd.com/verify/[UUID]
Must
MVP

CERT-10
QR code linking to verification URL
Must
MVP

CERT-11
Disclaimer: certificate is for informational purposes; not a substitute for professional assessment
Must
MVP

CERT-12
Certificate delivered as downloadable PDF and shareable link
Must
MVP

CERT-13

Certificate status: Valid / Expired / Superseded
Must
MVP

4.7.2 Verification Page

The public verification page at clearpathrd.com/verify/[UUID] must be accessible without login and display the certificate status, property address (partial — street number masked for privacy), test date, result zone, and a confirmation that the certificate record has not been modified. This page is what agents, lawyers, and buyers use to validate a certificate presented during a transaction.

> *Partnership readiness: The certificate UUID and verification endpoint are the integration points for future MLS platform, real estate board, and transaction management platform integrations. The endpoint must be documented in the API spec as a public endpoint from day one.*

4.8 Contractor Directory

The contractor directory is the primary revenue-generating referral feature of the MVP. It surfaces C-NRPP certified mitigation professionals to users whose results indicate elevated radon levels. In the MVP the directory is seeded and manually maintained; a self-serve contractor portal is a Phase 2 feature.

4.8.1 Contractor Record

CON-01
Business name, contact name, phone, email, website
Must
MVP

CON-02
C-NRPP certification number and certification expiry date
Must
MVP

CON-03
Service area: provinces and postal code prefix list
Must
MVP

CON-04
Services offered: measurement / mitigation / both
Must
MVP

CON-05
Contractor status: Active / Inactive / Pending
Must
MVP

CON-06
Featured flag for prioritized display (partnership/paid listing)
Should
MVP

CON-07
User review score (aggregate, displayed when sufficient reviews exist)
Could
Phase 2

4.8.2 Directory Display Logic

- Contractors filtered by user's postal code against contractor service area
- Results sorted by: Featured first, then certification status, then alphabetical
- Maximum 5 contractors displayed per search result in MVP
- Certification expiry warning: contractors within 60 days of expiry flagged in admin
- Lead referral tracked: click-to-contact events logged for reporting

4.8.3 MVP Seed Markets

The contractor directory must be seeded with a minimum of 3 active contractors in each of the following markets prior to launch: Calgary AB, Edmonton AB, Winnipeg MB, Halifax NS, Moncton NB, Ottawa ON, Saskatoon SK, Regina SK. Source: C-NRPP public directory.

4.9 User Dashboard

The user dashboard is the persistent home base for a ClearPath RD account holder. It provides at-a-glance status of active tests, access to completed records and certificates, and navigation to all platform features.

4.9.1 Dashboard Components

- Active Test Session card: kit status, days remaining, next action prompt
- Home Profile summary with edit access
- Test History: list of all completed test sessions for the home with results and certificate links
- Certificate vault: all generated certificates with download and share links
- Notifications panel: unread reminders and system messages
- Re-test scheduling: prompt at 5-year mark or post-renovation flag

4.10 Admin Dashboard

The admin dashboard provides internal ClearPath team visibility into platform operations. It is not user-facing and requires authenticated admin login. Role-based access control is a Phase 2 feature; MVP has a single admin role.

4.10.1 Admin Capabilities

ADM-01
View all users, homes, and test sessions with full record detail
Must
MVP

ADM-02
Manage contractor directory: add, edit, deactivate contractor records
Must
MVP

ADM-03
Certificate management: view all issued certificates, mark as superseded
Must
MVP

ADM-04
Platform metrics: active sessions, kits ordered, results entered, certificates issued
Must
MVP

ADM-05
Email log: sent email history by user and session
Should
MVP

ADM-06
Contractor certification expiry alerts
Should
MVP

ADM-07
Referral code tracking and attribution reporting
Should
MVP

5. Non-Functional Requirements

5.1 API-First Architecture

All platform functionality must be exposed through a documented REST API. The frontend is a consumer of the API — no direct database calls from the frontend layer. This enables white-label deployments, partner integrations, and future mobile applications without architectural rework.

API-01
All endpoints documented in OpenAPI 3.0 specification
Must
MVP

API-02
API versioning from day one — all endpoints under /api/v1/
Must
MVP

API-03
JWT authentication on all protected endpoints
Must
MVP

API-04
Public verification endpoint for certificate lookup (no auth required)
Must
MVP

API-05
Partner API key authentication layer stubbed (not active in MVP)
Should
MVP

API-06
Rate limiting on all endpoints
Must
MVP

API-07
Standardized error response format across all endpoints
Must
MVP

API-08
Request/response logging for all API calls
Must
MVP

5.2 Data and Privacy

DAT-01
PIPEDA compliance — Canadian privacy law governs all personal data handling
Must
MVP

DAT-02
Data residency — all personal data stored in Canadian data centres
Must
MVP

DAT-03
Result records are immutable once a certificate is issued against them
Must
MVP

DAT-04
User data deletion capability — full account and data removal on request
Must
MVP
DAT-05
Aggregate anonymized postal-code-level data model designed for future licensing
Should
MVP
DAT-06
Consent capture for marketing communications at account creation
Must
MVP

5.3 Performance and Reliability

PRF-01
Page load time under 2 seconds on standard broadband connection
Must
MVP
PRF-02
Certificate PDF generation under 5 seconds
Must
MVP
PRF-03
Transactional email delivery within 60 seconds of trigger event
Must
MVP
PRF-04
99.5% uptime SLA target for MVP
Should
MVP
PRF-05
Mobile-responsive across iOS Safari, Android Chrome, desktop Chrome/Firefox/Edge
Must
MVP

5.4 Security

SEC-01
HTTPS enforced on all routes
Must
MVP
SEC-02
Passwords hashed with bcrypt (min 12 rounds)
Must
MVP
SEC-03
Certificate UUIDs are non-sequential and non-guessable (UUID v4)
Must
MVP
SEC-04
Stripe PCI compliance — no card data stored on ClearPath infrastructure
Must
MVP
SEC-05
Input validation and sanitization on all form fields

Must

MVP

SEC-06

Admin dashboard restricted to authenticated admin users only

Must

MVP

6. Technology Stack

Stack decisions are made to optimize for: speed of MVP development, API-first extensibility, Canadian data residency, and ease of future team onboarding. All choices avoid vendor lock-in at the application layer.

Frontend
React + Vite
Component-based, cleanly separated from API. Fast build tooling. Wide ecosystem.

Styling
Tailwind CSS
Utility-first, white-label friendly, no CSS-in-JS overhead.

Backend
Node.js + Fastify
API-first, high performance, excellent TypeScript support. OpenAPI plugin built-in.

Database
PostgreSQL
Relational model suits entity relationships. Robust JSON support for future flexible fields.

ORM
Prisma
Type-safe schema management, clean migrations, excellent developer experience.

Authentication
Supabase Auth
Handles JWT, magic links, social login. Avoids building auth from scratch.

Payments
Stripe
Industry standard. PCI compliant. Webhook-driven order flow.

Email
Resend
Reliable transactional email. Developer-friendly API. React Email templates.

PDF Generation
Puppeteer / PDFKit
Certificate generation. Server-side rendering for tamper-proof output.

Hosting
Railway (MVP)
Fast deployment, managed PostgreSQL, easy scaling. Migrate to AWS/GCP at scale.

File Storage
Supabase Storage
Certificate PDFs and future document storage. Canadian region available.

Monitoring
Sentry + Logtail
Error tracking and log management from day one.

7. Integration Requirements

7.1 Lab Partner Integration

The lab partner fulfillment integration is critical path for MVP. ClearPath RD must be able to transmit kit orders to the lab upon payment confirmation and receive kit serial numbers for user activation.

LAB-01
Order transmission to lab on Stripe payment.success webhook
Must
MVP

LAB-02
Kit serial number returned by lab and stored against order record
Must
MVP

LAB-03
Lab accreditation details stored in system for certificate generation
Must
MVP

LAB-04
Integration built as adapter pattern — lab partner swappable without core changes
Must
MVP

LAB-05
Fallback: manual serial number entry by admin if automated flow fails
Must
MVP

7.2 Third-Party Integrations — Phase 2 Stubs

The following integrations are out of scope for MVP but the architecture must accommodate them. Stub interfaces should be defined in the codebase so integration can be added without structural changes.

- Airthings API — continuous monitor data ingestion for monitoring subscription tier
- Ecosense API — alternative continuous monitor integration
- C-NRPP directory API — automated contractor certification verification
- Canada Post address validation — shipping address verification at checkout
- Partner white-label API — authenticated partner access to user journey and data
- MLS / CREA data integration — real estate listing radon disclosure layer

8. Phase Roadmap

The MVP is Phase 1 of a three-phase product roadmap. Each phase builds on the API-first foundation and adds revenue streams, stickiness, and partnership value.

Phase 1
MVP — The Guide
Risk assessment, kit purchase, test session management, results interpretation, contractor directory, ClearPath Certificate

Kit margin, contractor referral fees, certificate sales
Phase 2
The Monitor
Continuous monitor integration (Airthings/Ecosense), monitoring subscription tier, multi-home management, agent portal, contractor CRM
Monthly subscription ($8-12/mo), hardware referral margin, premium contractor listings
Phase 3
The Record
MLS/CREA integration, real estate board white-label, partner API, community aggregate data dashboard, mandatory disclosure readiness
Partner API licensing, white-label SaaS fees, data licensing, transaction certificate volume

9. Success Metrics

The following metrics define MVP success and form the basis of reporting for partnership conversations. Targets are indicative for the first 6 months post-launch.

Activated Users
Users who created an account and completed home profile setup
500

Kit Conversion Rate
% of activated users who purchase a test kit
35%

Test Session Completion Rate
% of kits purchased that result in a completed test session
65%

Results Entry Rate
% of completed sessions where user enters a result
70%

Certificate Issuance
Total certificates generated
150

High Result Rate
% of results above 200 Bq/m³ (contractor referral pipeline)
~18% (national avg)

Contractor Referral Clicks
Click-to-contact events on contractor directory
75

Real Estate Kit %
% of kit purchases via real estate pathway
20%

Contractor Network Size
Active certified contractors in directory
40+

NPS Score
Net Promoter Score from post-result survey
>50

10. Open Questions and Decisions Required

> *The following items require resolution before or during development. They are documented here to ensure they are not deferred silently.*

OQ-01
Lab partner selection and contract: Radonova Canada vs SRC (Lung Sask) vs other C-NRPP accredited lab. Affects kit pricing, fulfillment API, and certificate accreditation reference.
Must
Pre-build

OQ-02
Legal review: Terms of service and disclaimer language for certificate product. Particularly the 'informational purposes only' framing and liability scope.
Must
Pre-build

OQ-03

PIPEDA compliance review: Data residency confirmation with hosting provider, consent management approach, and data retention policy.

Must

Pre-build

OQ-04

Pricing finalization: Kit prices, certificate fee (included vs separate), real estate kit premium pricing.

Must

Pre-build

OQ-05

Health Canada FSA-to-radon-zone dataset: Confirm data source, licensing, and update cadence for the risk assessment engine.

Must

Sprint 1

OQ-06

Short-term test protocol: Confirm closed-house conditions requirements and whether the real estate kit and protocol meet C-NRPP standards for transaction-grade use.

Must

Sprint 1

OQ-07

Certificate validity: Confirm 5-year validity period is appropriate given Health Canada re-test recommendations and real estate industry expectations.

Should

Sprint 1

OQ-08

Agent referral program structure: Commission model vs flat fee vs none for MVP. Affects checkout flow and attribution tracking.

Should

Sprint 2

— End of Document —
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