

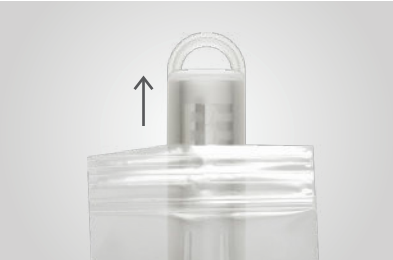




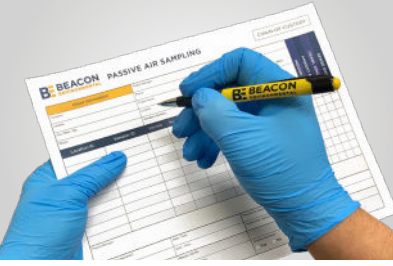




Following are instructions for the deployment and retrieval of Beacon **BESECURE** Plug in asphalt/concrete. Before going into the field, make sure you have everything you need by checking the enclosed Kit Inventory sheet. If at any time you have questions or need additional assistance please call us at **1-410-838-8780** or email [help@beacon-usa.com](mailto:help@beacon-usa.com).

## Sampler Deployment

<p>1</p>	<p>Drill a 1.5 inch or 40 mm diameter hole through the concrete surface and to a minimum depth of 6 inches (15 cm). Use a cloth or brush to clear the surface around the hole of any debris. If available, use a shop vacuum to keep the top of the sampling hole and work area clean.</p>	
<p>2</p>	<p>Place within reach a <b>BESECURE</b> Plug, spanner wrench, and torque screwdriver with a T40 Torx security bit. A torque wrench can also be used. Set the torque screwdriver or wrench to 50 in lb.</p>	
<p>3</p>	<p>Remove one of the Beacon Samplers (a glass vial containing two sets of hydrophobic absorbent cartridges) that is contained within a Plastic Holder from a Sampler Bag.</p>	
<p>4</p>	<p>Pull the Sampler slightly out of the Holder and replace the White Solid Cap on the Sampler with a Black Sampling Cap (a one-hole cap with a screen meshing insert). Place the white Solid Cap back into the Sampler Bag for storage.</p>	



<p><b>5</b></p>	<p>Insert the hook of the <b>BESECURE</b> Plug through the top loop of the Sampler Holder so the Sampler is suspended vertically</p>	
<p><b>6</b></p>	<p>Lower the Plug with the suspended Sampler into the hole. If necessary, slightly loosen the screw in the center of the plug to release tension on the gasket so the plug fits into the hole and the cover plate is resting flush on the concrete surface.</p>	
<p><b>7</b></p>	<p>Using a Spanner Wrench, if necessary, hold the cover plate in position while using the torque screwdriver or wrench to tighten the center screw until the target pressure is reached and you hear and/or feel the tool clicking.</p>	
<p><b>8</b></p>	<p>Record on the Chain-of-Custody: Sample location ID, date and time of deployment (to nearest minute) and any other relevant information.</p>	
<p><b>9</b></p>	<p>Move to next location. Repeat steps 1-9 until all Samplers are deployed.</p>	

## Sampler Retrieval

<p><b>1</b></p>	<p>Using a screwdriver or wrench with a T40 Torx security bit, loosen the center screw of the <b>BESECURE</b> Plug until the gasket tension is released. It is not necessary to completely remove the screw; however, if that occurs, the plug will remain in position. Note: the same tool can be used to loosen the screw, but the torque feature is not required during retrieval.</p>	
<p><b>2</b></p>	<p>Remove a Solid Cap from the Sampler Bag and place within reach.</p>	
<p><b>3</b></p>	<p>Using a flat blade scraper or putty knife, as needed, lift the plug straight out of the sampling hole keeping the sampler vertical.</p>	
<p><b>4</b></p>	<p>Remove the sampler from the plug's hook.</p>	
<p><b>5</b></p>	<p>Remove the Beacon Sampler from the Beacon Sampler Holder. Discard the holder.</p>	

<p><b>6</b></p>	<p>Remove the black Sampling Cap and replace it with a white Solid Cap. If there is any debris on the threads or at top of opening, use a clean cloth to wipe the threads clean.</p>	
<p><b>7</b></p>	<p>Use a ballpoint pen (not a Sharpie marker) to record the sample location ID on the cap's label. Place the sealed and labeled Sampler in a Sampler Bag. Use a ballpoint pen to also record the sample ID on the white block on the bag. Then place the individually bagged and labeled Sampler into the larger Return Shipment Bag</p>	
<p><b>8</b></p>	<p>On the Chain-of-Custody, record the date and time of retrieval (to the nearest minute) and any other relevant information.</p>	
<p><b>9</b></p>	<p>Repeat steps 1-8 until all Samplers have been collected.</p>	
<p><b>10</b></p>	<p>After all Samplers have been retrieved, verify that the solid caps on each sampler are sealed tightly and that the seals on the Sampler Bags are closed. Verify that all Samplers are stored in the Return Shipment Bag, which contains an adsorbent pak.</p>	

## Returning Samples to Beacon

<p><b>1</b></p>	<p>Sign and date the Chain-of-Custody. Scan or make a photocopy for your records.</p>	
<p><b>2</b></p>	<p>Package Samplers and the Chain-of-Custody in a sturdy cardboard box with bubble wrap for return shipment. Seal the box and return the samplers via Express delivery. Send to the address noted below:</p> <p><b>Beacon Environmental Attn: Sample Receiving 526 Underwood Lane Bel Air, Maryland 21014 USA 1-410-838-8780</b></p>	

**IMPORTANT! Do not use styrene peanuts, newspaper or other packing materials that may contaminate the samples. Avoid smoking while handling samples.**

**Please DO NOT return the Sampling Caps or Beacon Sampler Holders, as they could bias the Samplers. Return all extra Samplers to avoid replacement fees.**

Need additional assistance? Beacon's here to help.  
Call 1-410-838-8780 or email [help@beacon-usa.com](mailto:help@beacon-usa.com).