



Groundwater Assessment and Remediation[®]

A LORAX **ANIMATED INFORMATION SYSTEM**[™]

Edition 2, 2015

User Guide



Groundwater Assessment and Remediation[®]

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Edition 2, 2015

For a follow along video demonstration visit our website

www.lorax.biz

Click on the



link



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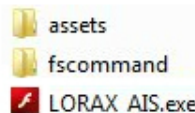
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CD Instructions

For optimal performance copy the contents
of the CD (shown below) to a folder on your hard drive

Copy to
single folder {





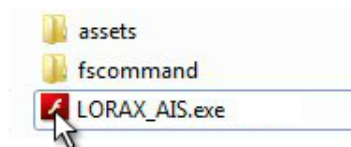
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Launch Instructions

Double click on the
LORAX_AIS.exe/PC
to launch the presentation





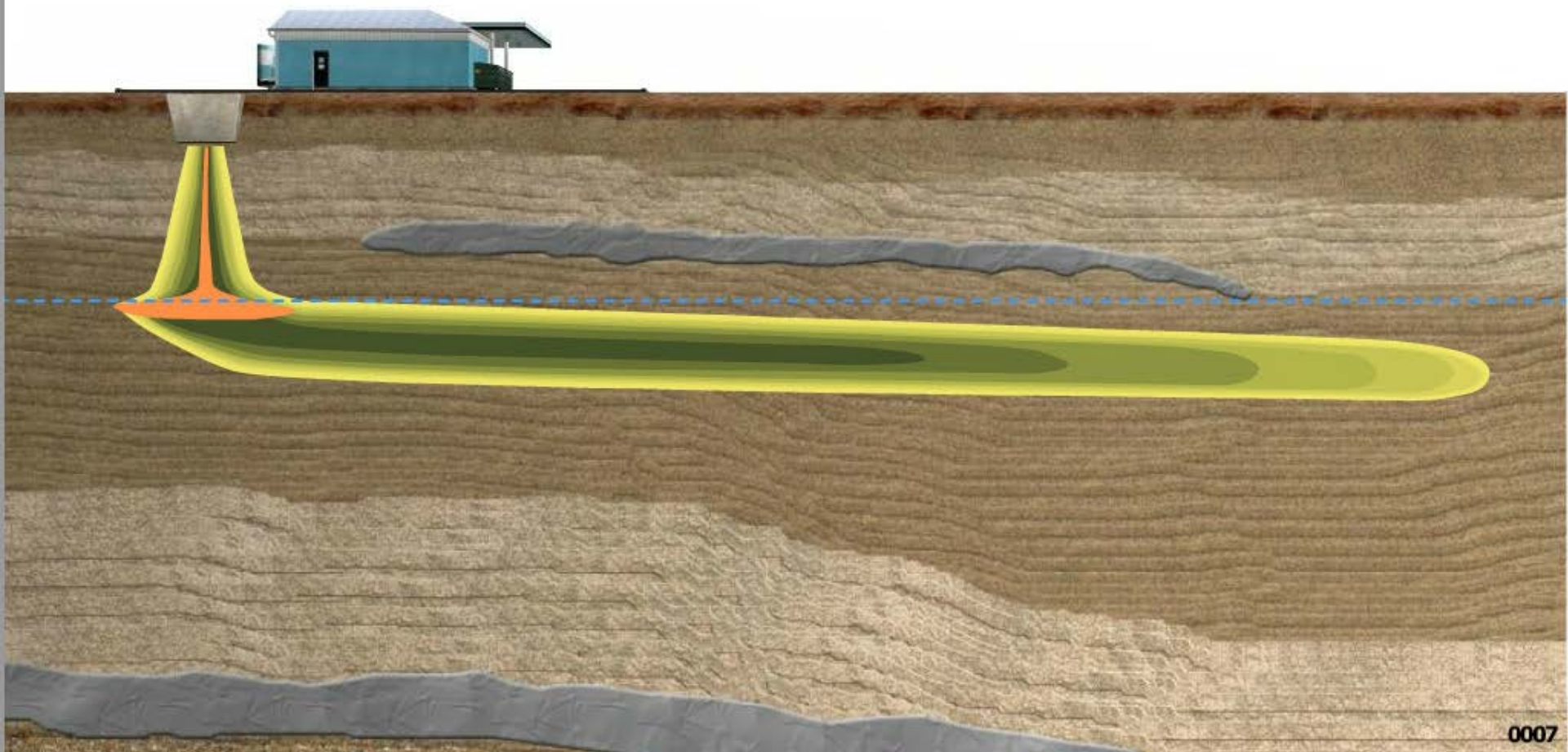
Drop-down menu for each module



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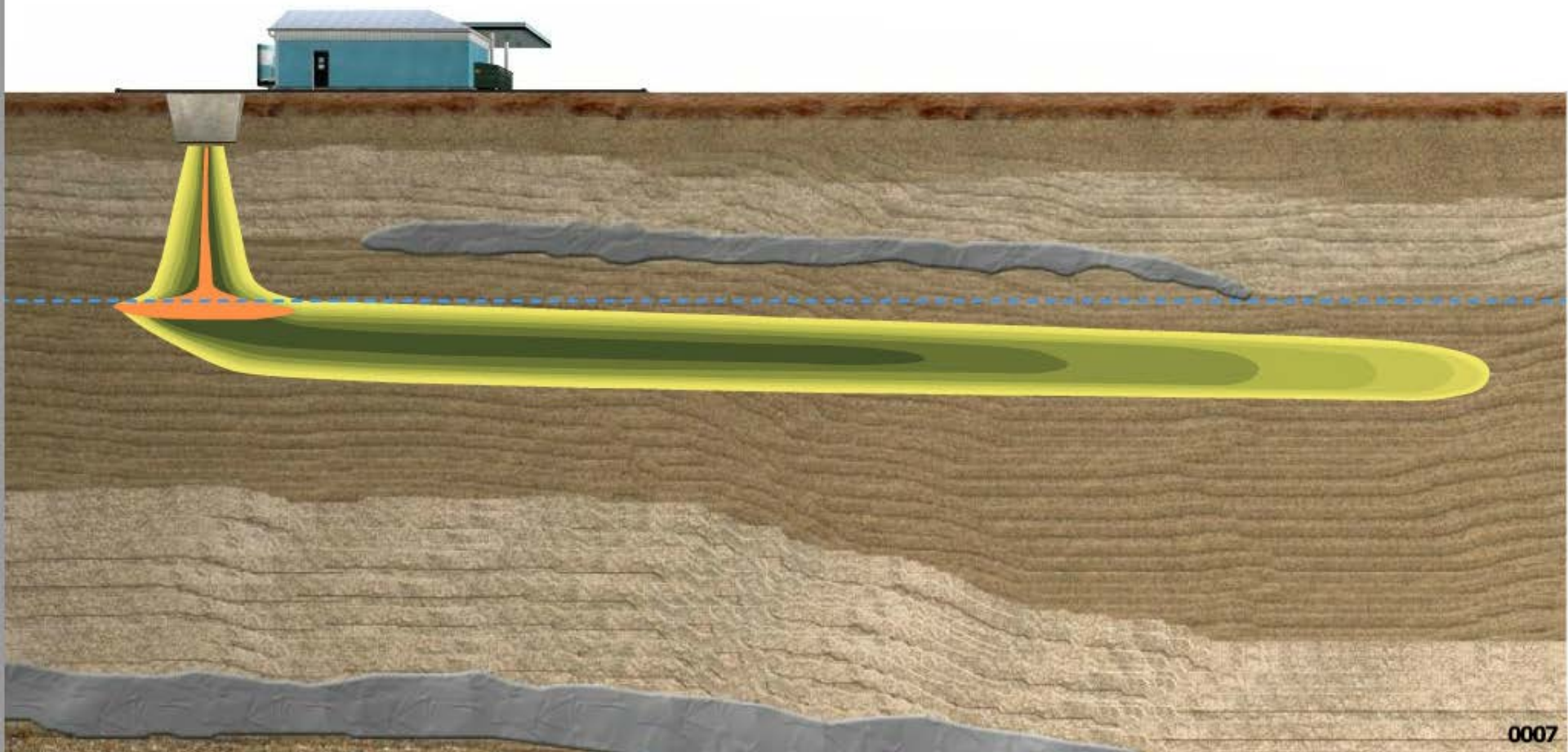
Toggles Guide showing hidden controls

A X

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LORAX

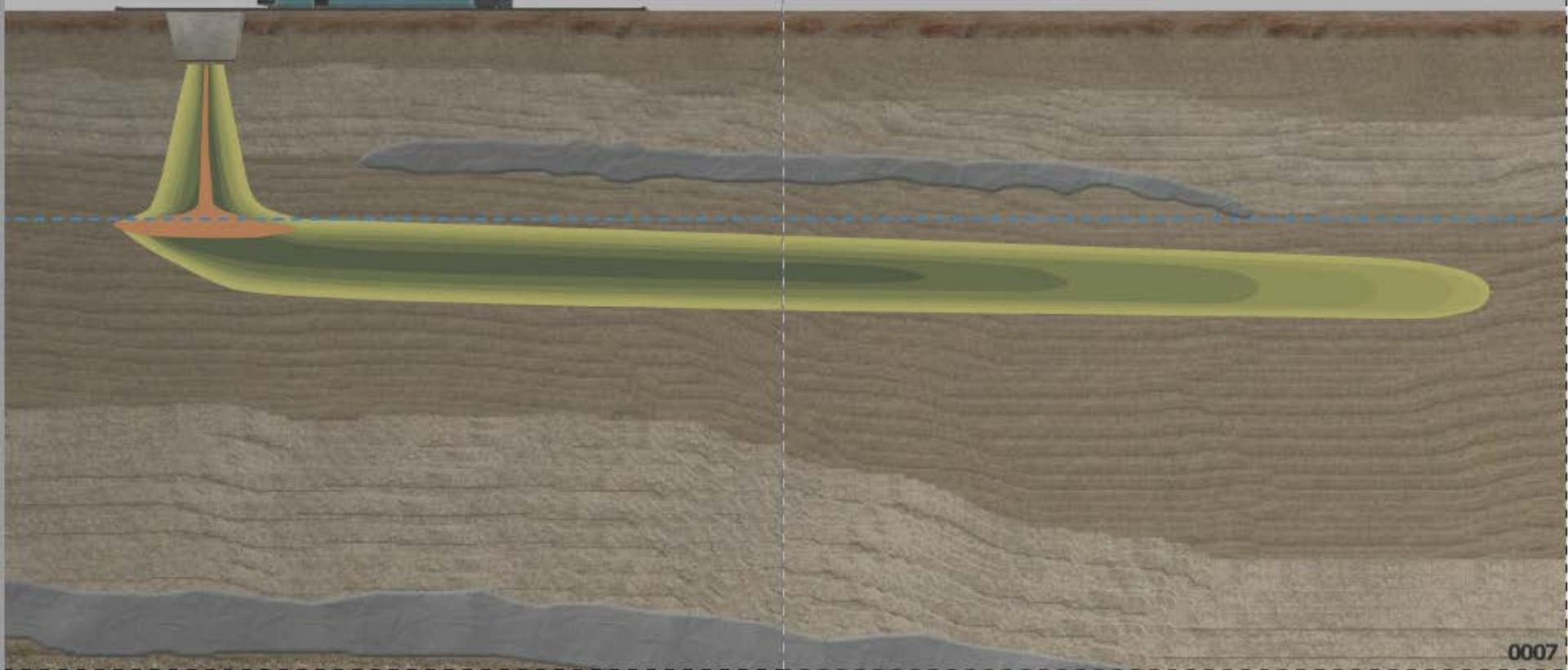
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When the Guide is active, the screen will dim and text will appear indicating hidden controls





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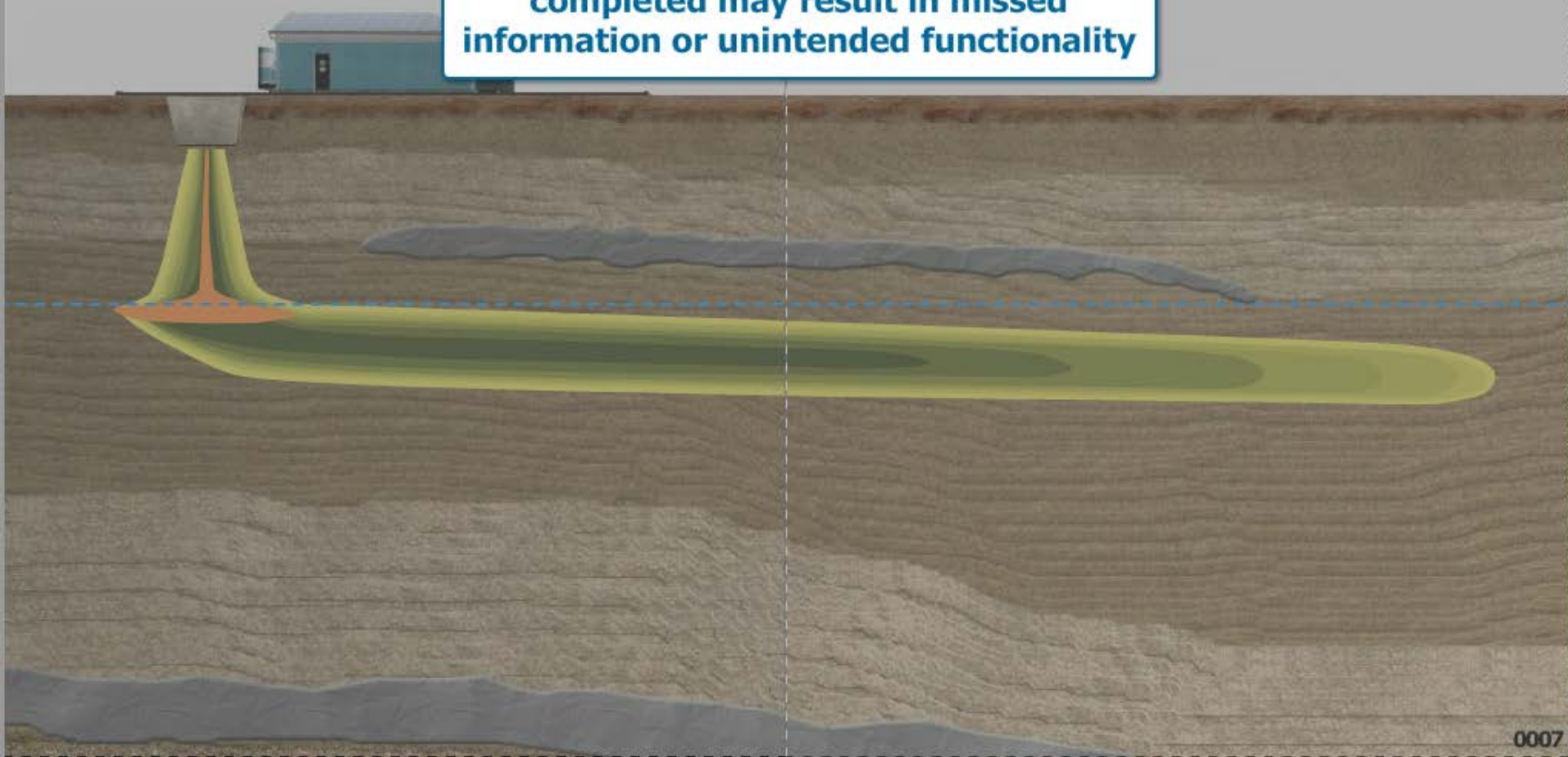
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Clicking before animations have completed may result in missed information or unintended functionality





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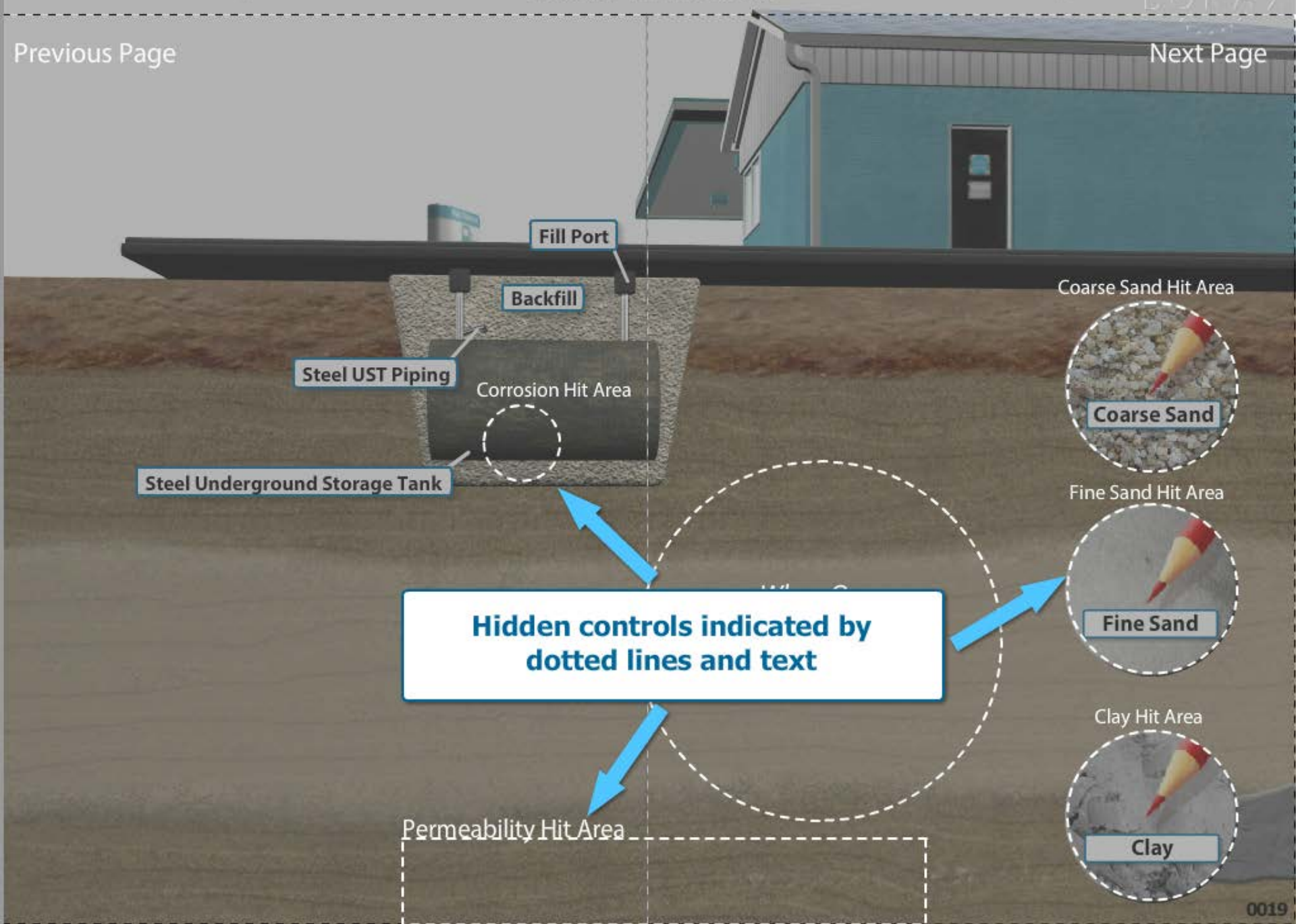
Clicking to previous page should
reset animations

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If the presentation freezes:
Hit **ESCAPE** key, close the application,
and navigate to
LORAX_AIS.exe/PC
to restart applicaiton







Steel UST Piping

Fill Port

Backfill

Corrosion Hit Area

Steel Underground Storage Tank

**Hidden functions may
require multiple clicks**

When Open
Corrosion Mag Glass
Hit Area
to Close or Advance Glass

Permeability Hit Area

Coarse Sand Hit Area



Coarse Sand

Fine Sand Hit Area



Fine Sand

Clay Hit Area



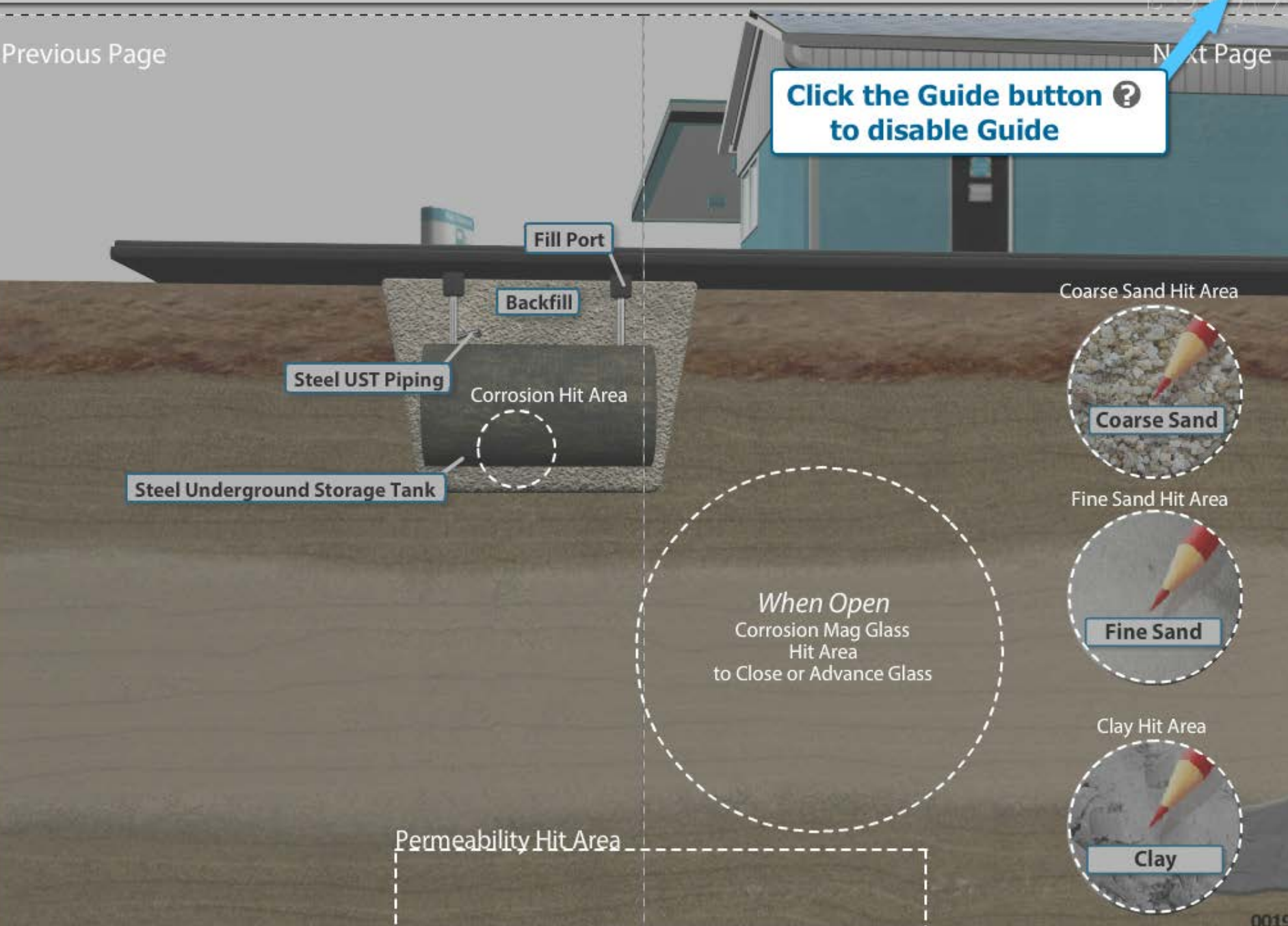
Clay



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Click the Guide button ? to disable Guide



Coarse Sand Hit Area



Coarse Sand

Fine Sand Hit Area



Fine Sand

Clay Hit Area



Clay

Corrosion Hit Area

When Open
Corrosion Mag Glass
Hit Area
to Close or Advance Glass

Permeability Hit Area

Steel UST Piping

Backfill

Fill Port

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A list of hidden controls follows

70's Era Gasoline Service Station



Frame numbers for hidden controls can be found here



GUIDE TO HIDDEN CONTROLS

Module	Frame #	Hidden Controls	Secondary Controls	Forward/ Back*
Hydrogeology				
Old Retail Site		No hidden controls		Yes
USTs	16-19	Corrosion	Mag glass	Yes
Soil Properties	17-19	Coarse Sand		No
	17-19	Permeability	Compare	No
			Permeability Definition	No
			Remove	No
			Hydraulic Conductivity	Yes
			Porosity	Yes
Groundwater	18-19	Fine Sand		No
	19	Clay		No
	30	Capillary Fringe Example	Close Capillary Mag Glass	No
	30	Aquifer Well Example	Unconfined Well Example Confined Well Example	No No
Site Investigation	32-34	Perched Groundwater	Close Perched Mag Glass	No
	35	Drag Triangle to Activate Scratch		No
	39-45	Monitoring Well Example		Yes
	41-45	Gradient Lines (toggle on/off)		No
	41-45	Groundwater Velocity	Hydraulic Conductivity	Yes
			Hydraulic Gradient	Yes
			Effective Porosity	Yes
	41-45	Chemical Transport		Yes
	47	Monitoring Well Example		Yes
	47	Nested Well Example		Yes
Drilling Logistics		No hidden controls		Yes
		Underground Utilities		Yes
Concepts				
Processes	1-10	Solubility	Click on "Solubility" for details	Yes
	1-10	Volatilization	Click on "Volatilization" for details	Yes
	1-10	Adsorption	Click on "Adsorption" for details	Yes
	1-10	Biodegradation	Click on "Biodegradation" for details	Yes
	10	Biodegradation	Click left side of magnified area for additional magnification	No
MTBE vs. Benzene		No hidden controls		Yes
Mass Flux	10-20	Pool Analogy		Yes
Diving Plumes		No hidden controls		Yes
Plume in Perched Zone		No hidden controls		Yes
NAPL Considerations		No hidden controls		Yes



GUIDE TO HIDDEN CONTROLS

Module	Frame #	Hidden Controls	Secondary Controls	Forward/ Back*
<i>Vulnerability</i>				
	1-2	Capillary Fringe Example		No
	1-2	Unconfined Well Example		No
	1-2	Confined Well Example		No
	2	Rock Types		Yes
	8-14	Rollover (Groundwater Flow)		No
	9-14	Sewer Design		Yes
	9-14	TDS		Yes
	12-14	Federal Regulations		Yes
	13	Mounding Mag Glass	Additional click for animation	No
	14	Confined Well Example	Additional click for animation	No
	16	Plume (Extended)		No
	16	Plume		No
	20-21	Hydrologic Cycle		No
	20	Confined Well Example		No
<i>Remediation</i>				
Spill Response		No hidden controls		Yes
Risk-Based / Sustainable		No hidden controls		Yes
Landfarming	1	OSRRT Pilot PDF		No
	23	Reclaimed Soil Images		Yes
Excavation		No hidden controls		Yes
Soil Vapor Extraction	3-4	Vapor Extraction Well		No
	3-4	Vapor Treatment Unit		No
Air Sparging	1-4	Vapor Extraction Well		No
	1-4	Vapor Treatment Unit		No
	3-4	Sparge Well		No
Natural Attenuation	3-7	Concentration Graphs		Yes
	7	Trend Analysis		No
Oxygen Injection	3-6	Microbe Magnification		No
Pump and Treat	9	Air Stripper		No
	9	Carbon Vessels Example		No
Sustainable Remediation		No hidden controls		Yes
		Underground Utilities		Yes
<i>Tanks</i>				
Tank Diagrams		No hidden controls		No
Pressure System Tab		Click Introduction	Click Play for video	No
		Click Overview	Click Play for video	No
		Click Pipes	Rollover Compare	No
		Click Dispenser	Click X-ray	No
		Click Fill Point	Click X-ray	No
		Click Vent Stack	Click X-ray	No
		Click Tank Sump	Click X-ray	No
Suction System Tab		Click Introduction	Click Play for video	No
		Click Overview	Click Play for video	No
		Click Pipes	Rollover Compare	No
		Click Dispenser	Click X-ray	No
		Click Fill Point	Click X-ray	No
		Click Vent Stack	Click X-ray	No
		Click Tank Sump	Click X-ray	No



GUIDE TO HIDDEN CONTROLS

Module	Frame #	Hidden Controls	Secondary Controls	Forward/ Back*
Shortcuts				
Monitoring Well		No hidden controls		Yes
Nested Monitoring Well		No hidden controls		Yes
Vapor Extraction Well		No hidden controls		Yes
Sparge Well		No hidden controls		Yes
Permeability		Compare Permeability Definition Hydraulic Conductivity Porosity	Remove Definition	No No Yes Yes
Groundwater Velocity		Hydraulic Conductivity Hydraulic Gradient Effective Porosity		Yes Yes Yes
Chemical Transport		No hidden controls		Yes
About				
About LORAX		No hidden controls		No
Introduction		No hidden controls		No
Quick Overview		No hidden controls		No
Detailed Overview		No hidden controls		No
Hydrogeology Tutorial		No hidden controls		No
PDF of User Guide		No hidden controls		No
Registration		No hidden controls		No

* For additional detail, click on the right side of the screen to go to the next page. Click on the left side of the screen to go back