Engineer DITL Video CC Text

Text to Display	Timecode
[Narrator] Welcome to NRCS.	End: 00:00:04:00
	Begin: 00:00:02:00
We will be a second and a second a second and a second an	5.1.00.00.40.00
We protect, conserve, and restore America's natural resources.	End: 00:00:10:00
naturar resources.	Begin: 00:00:06:00
We help people help the land.	End: 00:00:18:00
	Begin: 00:00:16:00
There are many people who work together on a	End: 00:00:25:00
conservation team.	Begin: 00:00:22:00
Take some time to discover a day in the life of an	End: 00:00:29:00
NRCS Engineer.	Begin: 00:00:26:00
[NRCS Engineer] Hi! My name is Andrea and I'm an	End: 00:00:36:00
NRCS engineer.	Begin: 00:00:33:00
Wice engineer.	Degiii. 00.00.33.00
I'm glad you can join me to see what a day in the	End: 00:00:40:00
life of an NRCS engineer can be like,	Begin: 00:00:37:00
but one thing to remember is that no two days are	End: 00:00:44:00
really ever the same.	Begin: 00:00:41:00
Our days are accorded as the management will be	Fr. d. 00:00:47:00
Our days are as varied as the resources we work to	End: 00:00:47:00
conserve.	Begin: 00:00:45:00
A typical day might include site evaluations, design	End: 00:00:53:00
work, surveys, or construction inspection.	Begin: 00:00:48:00
But today we'll be going out to survey an	End: 00:00:57:00
agricultural waste facility.	Begin: 00:00:54:00
agricultural waste facility.	Degiii. 00.00.34.00
And before that, I'll be working on a fish passage	End: 00:01:00:00
design.	Begin: 00:00:58:00
[NRCS Engineer] As I mentioned, today I'm	End: 00:01:05:00
working on a fish passage design.	Begin: 00:01:02:00
	-

Text to Display	Timecode
I've already surveyed and collected all the data I	End: 00:01:08:00
need for this design	Begin: 00:01:06:00
and have downloaded it here at my computer	End: 00:01:13:00
using my engineering design software.	Begin: 00:01:09:00
This software allows me to create three-	End: 00:01:19:00
dimensional models as well as create my eventual	Begin: 00:01:14:00
construction drawings.	
[NRCS Engineer] This design also requires the use	End: 00:01:26:00
of hydraulic computer modeling software.	Begin: 00:01:22:00
Today I'll be using HEC-RAS, but there are other	End: 00:01:30:00
models as well.	Begin: 00:01:27:00
This model allows me to calculate velocities and	End: 00:01:35:00
flow capacities of the proposed alternatives.	Begin: 00:01:31:00
[NRCS Engineer] Many days are spent designing	End: 00:01:44:00
solutions to complex resource concerns utilizing	Begin: 00:01:37:00
our engineering skills and innovative thinking,	5
as well as drawing on the vast technical knowledge	End: 00:01:50:00
available to us in specialized engineering staff.	Begin: 00:01:45:00
, , ,	
Our designs are a culmination of many objectives	End: 00:01:55:00
and goals.	Begin: 00:01:51:00
As the engineer, we must know and understand	End: 00:02:03:00
our resource concerns, our physical parameters,	Begin: 00:01:56:00
and our project goals.	258 00.02.00.00
This allows us to design solutions that are	End: 00:02:10:00
technically sound while meeting all applicable	Begin: 00:02:04:00
standards and specifications	_
as well as meeting the goals and objectives of our	End: 00:02:15:00
landowners and conservation partners.	Begin: 00:02:11:00
[NRCS Engineer] Hi, Greg!	End: 00:02:18:00
[NRCS Soil Conservationist] Hi, Andrea!	Begin: 00:02:16:00
[NRCS Engineer] Hi, Matt!	
[Landowner] Hi, Andrea!	
[NRCS Soil Conservationist] Well, we're here	End: 00:02:22:00
today to conduct a survey for your waste storage facility.	Begin: 00:02:19:00
[Landowner] Great! Spraying manure on my fields	End: 00:02:26:00
daily has been difficult during certain times of the	Begin: 00:02:23:00
year.	
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I'll be very happy when the storage facility is installed. INRCS Soil Conservationist] I'm glad we're able to help you with your resource concerns. Begin: 00:02:29:00 INRCS Engineer] Now, the last time I was here to conduct your inventory and evaluation of this site, we discussed your animal numbers and location. I used that information to determine how much storage you would need and, therefore, how big your storage facility would need to be. Once we survey your site, I can determine what dimensions would work best here while providing you with the required storage volume. Individual time the work of	Text to Display	Timecode
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[NRCS Engineer] Great! Begin: 00:03:31:00	[NRCS Soil Conservationist] Sounds good.	End: 00:03:32:00
	[NRCS Engineer] Great!	Begin: 00:03:31:00

Text to Display	Timecode
[NRCS Engineer] With the total station and data	End: 00:03:39:00
collector, I'm collecting horizontal position and	Begin: 00:03:33:00
vertical elevation	
to record the topography of this site as well as	End: 00:03:45:00
capture existing features such as the barn corners	Begin: 00:03:40:00
and pit.	
[NRCS Engineer] I think one more corner shot will	End: 00:03:57:00
get it for us, Greg.	Begin: 00:03:53:00
[NRCS Engineer] An on-site, preconstruction	End: 00:04:06:00
meeting is held before any construction begins.	Begin: 00:04:01:00
At this meeting, I review my designs with the	End: 00:04:14:00
landowner and contractor and answer any	Begin: 00:04:07:00
questions that they may have.	
I also review the construction specifications and	End: 00:04:23:00
inform them of items in need of inspection by	Begin: 00:04:15:00
NRCS staff during the construction process.	
Clear communication between NRCS, the	End: 00:04:31:00
landowner, and the contractor is critical during the	Begin: 00:04:24:00
preconstruction meeting	
and throughout the construction process to ensure	End: 00:04:38:00
that the project is installed to meet all standards	Begin: 00:04:32:00
and specifications.	
[NRCS Engineer] I hope you enjoyed seeing what a	End: 00:04:43:00
day of an NRCS Engineer can be like.	Begin: 00:04:39:00
Every day, including those spent at the computer	End: 00:04:50:00
or in the field, play a part in the big picture of	Begin: 00:04:44:00
resource conservation.	
However, the real satisfaction comes from seeing	End: 00:04:57:00
my designs installed and functioning to conserve	Begin: 00:04:51:00
our natural resources.	- 1 00 07 04 00
The health of our soil, water, air, plants, animals,	End: 00:05:04:00
and people all depend on good stewardship.	Begin: 00:04:58:00
I'm proud to be a part of the Natural Resources	End: 00:05:11:00
·	
•	End: 00:05:17:00
•	
	End: 00:05:24:00
and I'm a Civil Engineer with the Natural Resources	Begin: 00:05:19:00
Conservation Service.	
Conservation Service, helping people help the land, and transforming ideas into real-life changes that conserve the natural resources upon which we all depend. [NRCS Engineer] My name is Andrea Palladino, and I'm a Civil Engineer with the Natural Resources	Begin: 00:05:05:00 End: 00:05:17:00 Begin: 00:05:12:00 End: 00:05:24:00

Text to Display	Timecode
The thing I like most about my job is knowing that	End: 00:05:32:00
the work that I do helps to preserve and conserve	Begin: 00:05:25:00
the quality of our fresh water.	
[Narrator] For more information, please visit our	End: 00:05:40:00
Web site at nrcs.usda.gov.	Begin: 00:05:35:00
NRCS is an equal opportunity provider and	End: 00:05:46:00
employer.	Begin: 00:05:42:00