



## SITE CERTIFICATION SUMMARY

This site certification summary provides information about the **Colonie, New York, Site**. The U.S. Department of Energy Office of Legacy Management is responsible for long-term stewardship of the site under the **Formerly Utilized Sites Remedial Action Program**.

### Site Description and History

The Colonie, New York, Site is an 11.2-acre, federally owned property located at 1130 Central Avenue (New York State Route 5) in the town of Colonie in Albany County, New York. Industrial operations began at the site in 1923 when Embossing Company built a facility for making wood products and toys. In 1927, Magnus Metal Company converted the facility to a brass foundry for making railroad components.

In 1937, National Lead Industries bought the facility for electroplating operations. NL also bought an adjacent lot that included part of Patroon Lake. In 1958, NL began making items from uranium and thorium under licenses issued by the U.S. Atomic Energy Commission and the state of New York. The plant handled enriched uranium from 1960 to 1972.

The AEC contract ended in 1968, and afterwards the plant made shielding components, aircraft counterweights, and artillery projectiles from depleted uranium. The New York State Supreme Court shut down the NL plant in 1984 because of environmental concerns. Management of the property was transferred to the U.S. Department of Energy.

Industrial operations at the Colonie site led to residual radiological contamination mixed with metals in soil at parts of the site and affected site groundwater and neighboring privately owned properties known as vicinity properties, or VPs. Depleted uranium from the plant's exhaust stacks spread to site buildings, parts of the grounds, and 56 commercial and residential VPs. NL also disposed of contaminated casting sand in the former Patroon Lake.

DOE managed the site and cleanup under the Formerly Utilized Sites Remedial Action Program from 1984 to 1997. During this time, DOE investigated VPs, on-site structures, groundwater, and surface and subsurface soil; developed a plan to remove radiologically affected soil; cleaned up 53 of 56 VPs; removed the on-site buildings; and stored the waste materials generated during these actions.

### Site Remediation Timeline

**February 1984:** The Secretary of Energy accepted an offer from NL to donate the land, buildings, and equipment to DOE to help expedite the cleanup.

**1985:** DOE acquired a portion of the Niagara Mohawk property bordering the site on the north and northwest and subsequently designated it as part of the site.

**1984-1988:** DOE remediated 53 VPs.

**1992-1996:** DOE demolished the remaining NL buildings.

**October 13, 1997:** Congress transferred responsibility to administer and clean up FUSRAP sites from DOE to the U.S. Army Corps of Engineers.

**1997:** USACE began assessing site status and formulating plans for conducting remedial actions at the three operable units, or OUs, at the site (Groundwater OU, Main Site Soils OU, and Vicinity Properties OU).

**1999-2007:** USACE completed soil removal at the main site, which included the adjacent town of Colonie VP.

**2005-2008:** USACE completed cleanup of the CSX VP.

**2010:** USACE performed a review of the 53 VPs DOE remediated to ensure residual concentrations met current guidance. USACE concluded two VPs, 50 Yardboro Avenue and 1118 Central Avenue, needed additional work.

**April 9, 2010:** USACE issued the Colonie Groundwater OU Record of Decision that specified a monitored natural attenuation and long-term groundwater monitoring remedy.

**October 2013:** CSX Railroad and 50 Yardboro Avenue Vicinity Property Closure Report issued.

**March 26, 2015:** USACE signed the Main Site Soils OU ROD, which included provisions for land use controls, or LUCs, through an environmental easement.

**September 20, 2017:** USACE signed the Vicinity Property OU ROD, which declared “no action” for dust and “no further action” for soil and other elements at VPs.

**September 30, 2019:** USACE transferred the Colonie site to the DOE Office of Legacy Management for long-term stewardship.



*Colonie NL Industries Plant, 1983.*

## Remedial Action

DOE conducted remedial actions at 53 of 56 VPs between 1984 and 1988:

- In 1984, DOE remediated 11 VPs.
- In 1985, DOE remediated 24 VPs.
- In 1988, DOE remediated 16 VPs and identified two additional contaminated properties that DOE then remediated, bringing the total to 18 remediated VPs.

USACE investigated and remediated the remaining three VPs, which bordered the main site, during the removal action at the main site.

In 1997, USACE began planning remedial action for the three OUs. At the Groundwater OU, they chose to monitor natural attenuation with land use controls. This remedy’s major components included: (1) a two- to five-year enhanced data-collection period to assess the natural reduction rate; (2) long-term monitoring until meeting compliance with target cleanup goals; and (3) temporary LUCs to limit potential on-site residential exposure to groundwater contaminants.

At the Main Site Soils OU, they dug up contaminated soil to meet residential-use standards and used LUCs to restrict soil excavation in three discrete inaccessible locations. The remedy at the Vicinity Property OU for soil media was “no further action” and “no action” for dust media.

Target groundwater cleanup goals were 1,800 micro-grams per liter, or  $\mu\text{g/L}$ , for cis-1,2-dichloroethene, 5.5  $\mu\text{g/L}$  for

tetrachloroethene, 18  $\mu\text{g/L}$  for trichloroethene, and 1.4  $\mu\text{g/L}$  for vinyl chloride. See Table 7 in the [Data Summary Worksheet](#) on pages 5-28. Soil cleanup criteria were 35 picocuries per gram for uranium-238, 2.8 pCi/g for thorium-232, 450 milligrams per kilogram for lead, 1,912 mg/kg for copper, and 7.4 mg/kg for arsenic. See Tables 4 and 12a through 12bb in the [Data Summary Worksheet](#).

See [Fact Sheet](#) or [Site Closeout Report](#) for remedial action details.

## Post-Remediation Sampling

### Groundwater

The groundwater remedial investigation conducted between 1999 and 2002 collected and analyzed groundwater samples from temporary sample points and from permanent monitoring wells. A human health risk assessment identified two potential residential exposure pathways: (1) groundwater consumption through domestic use and (2) vapor intrusion of volatile organic compounds into buildings. The domestic groundwater consumption pathway was not applicable either on- or off-site. The vapor intrusion pathway did not exist on-site but could exist in the future if the site is ever declared suitable for residential use. The potential for vapor intrusion into off-site residences was evaluated and modeled after multiple rounds of indoor air samples were collected. The ROD states that exposure to contaminants of concern in the groundwater, under a hypothetical, future on-site urban resident scenario via the vapor intrusion pathway, may result in unacceptable risks (i.e., greater than the  $10^{-4}$  and  $10^{-6}$  risk range deemed protective).

### Main Site Soils

USACE removed all radioactively contaminated soil that exceeded cleanup criteria regardless of depth and dug up all accessible metals-contaminated soil that exceeded criteria to a maximum depth of nine feet below original grade. USACE also removed VOC-contaminated soil, which significantly reduced VOC concentrations in the underlying groundwater.

USACE did not dig up soil in locations with physical obstructions, so some soil contained metals contamination after cleanup.

After removing the soil, USACE conducted a final status survey and split the main site into 27 survey units. Residual radionuclides soil concentrations satisfied cleanup criteria for unrestricted use of the property. All average residual concentrations for individual metal constituents also satisfied cleanup criteria from zero to nine feet below ground surface. Four individual soil sample results from locations up to nine feet bgs exceeded the metals cleanup criteria as follows:

- SU 104 (1.82-foot depth): arsenic at 85.4 mg/kg. This sample was located between active power poles.
- SU 124 (5.3-foot depth): copper at 2,450 mg/kg. The sample was located adjacent to an active power pole.

- North Lawn (3.9-foot depth): copper at 4,340 mg/kg. The sample was adjacent to the main fire hydrant for commercial and residential properties along Central Avenue.
- SU 109 (2.4-foot depth): arsenic at 10.5 mg/kg and lead at 630 mg/kg. The sample was located on the property boundary adjacent to an active rail line. This unit is not an environmental easement area because there is no unacceptable risk associated with the remaining contamination.

Soil sample results for six locations in deeper subsurface soil (shallowest is 12 feet bgs) exceeded the metals cleanup goals. This deep subsurface soil was not removed because there is no complete exposure pathway to the soil.

### Town of Colonie Vicinity Property

USACE remediated the town of Colonie VP as part of the main site excavation. Parts of three FSS units (101, East Culvert, and West Culvert) were on the property. USACE completed remediation with no contamination remaining above cleanup levels.

### Niagara Mohawk Vicinity Property

In 1998, USACE investigated the Niagara Mohawk substation to assess the presence of radiological contamination. Radiological results at the substation were less than the cleanup levels of 35 pCi/g for U-238 and 5 pCi/g for Th-232 in surface soil in the top six inches and 15 pCi/g in soil below the top six inches. USACE and the New York State Department of Environmental Conservation agreed that no further action under FUSRAP was required.

### CSX Vicinity Property

USACE conducted a soil removal action on the 6.5-acre CSX VP and disposed of soil off-site, which did not affect the high-speed rail line or utility rail spur. USACE did not remove soil from underneath the utility rail spur because the spur was inaccessible and part of the active rail line. Three discrete locations along the rail spur had U-238 concentrations that exceeded the risk-based cleanup criterion of 96 pCi/g. The post-excavation average residual concentration for the VP was 14.1 pCi/g, which meets cleanup criterion.

### Unnamed Tributary, Patroon Creek, and Three Mile Reservoir

USACE conducted a site investigation in 2003 for the unnamed tributary, Patroon Creek, and Three Mile Reservoir. Results from 32 sediment sample locations were less than the radiological cleanup criteria for U-238 and Th-232, so required no further action.

### 50 Yardboro Avenue and 1118 Central Avenue Vicinity Properties

Based on a review of cleanup results for the 53 VPs DOE remediated, USACE identified two VPs that had insufficient data to document compliance with the cleanup level. USACE investigated further at 50 Yardboro Avenue and 1118 Central Avenue.

### 50 Yardboro Avenue

The soil investigation assessed residual radioactivity concentrations at the location of the former drainage line outfall to determine if it met the cleanup criterion of 35 pCi/g for U-238. USAVE removed 11 cubic yards of soil and collected 22 confirmation soil samples. Four of the samples had U-238 concentrations greater than 35 pCi/g. Based on these results, USACE concluded that this VP was not eligible for unrestricted release and required further remediation. In June 2013, USACE removed an additional 10 cubic yards of soil and installed a new drainage line at the base of the rail bed slope. All confirmation soil samples met cleanup goals, and USACE determined that the VP was eligible for unrestricted use.

### 1118 Central Avenue

The investigation objectives were to confirm: (1) DOE's finding that the source of elevated radioactivity in the asphalt surface surrounding the building was natural radioactivity in bedding materials and (2) the property was suitable for release for unrestricted use. USACE collected samples from the asphalt/roadbed and soil beneath. The analytical results for the asphalt/roadbed indicated that the uranium was naturally occurring. The results also showed that site uranium likely affected soil; however, levels were below cleanup criteria. USACE determined the VP was eligible for unrestricted release.

### VP Dust Sampling

In 2011, USACE investigated four VPs for "household dust" to verify a 2009 independent study's findings. The 2009 independent study indicated residual depleted uranium concentrations ranged from non-detectable to 1,065 mg/kg (i.e., 426 pCi/g total uranium) in samples collected from basements, attics, and garages. USACE dust sampling data confirmed that some VPs had low radiologically impacted dust in non-living areas. In 2014 and 2015, USACE further evaluated depleted uranium levels in dust at representative residential and commercial VPs. Table 5 in the [Data Summary Worksheet](#) lists the VPs USACE sampled during this effort. USACE observed the highest concentrations in non-living areas. A baseline risk assessment concluded that the uranium concentrations do not pose an unacceptable risk for human exposure. USACE recommended no action for dust at all VPs.

For a more detailed map of the site and sampling locations, see the [Site Overview Map](#) on page 29.

## Current Site Conditions

All radioactive materials that were above cleanup levels are cleaned up on the main site, VPs, and in groundwater. No further action is required to address soil contamination. However, metals contamination remains in subsurface soil in three environmental easement areas near utility infrastructure. A site management plan forbids digging up the soil without prior planning and approval, thus, controlling these easement areas. The groundwater response action is also complete with a monitored natural attenuation remedy in place. Long-term groundwater monitoring will continue until target cleanup



goals are achieved for the single remaining VOC (PCE), which remains in two on-site wells. Review groundwater data for 2010 through 2017 in Table 7 in the [Data Summary Worksheet](#) and on LM's Geospatial Environmental Mapping System website: <https://gems.lm.doe.gov/>.

Because of the USACE cleanup, the site is suitable for either commercial or residential use.



*Colonie, New York, Site, 2018.*

On September 30, 2019, USACE transferred long-term stewardship for the Colonie site to LM. Review stewardship requirements and protocols in the Long-Term Surveillance and Maintenance Plan for the Colonie, New York, FUSRAP Site, available on LM's website: [www.energy.gov/lm/colonie-new-york-site](http://www.energy.gov/lm/colonie-new-york-site).

DOE made the site available for redevelopment to benefit the community in 2022. The site sold at public auction, and the act of sale took place in January 2023.

LM long-term stewardship responsibilities include monitoring groundwater, managing site records, conducting long-term periodic reviews, and responding to stakeholder inquiries.



## ADDITIONAL INFORMATION

Documents related to FUSRAP activities at the Colonie, New York, Site are available at: [lmpublicsearch.lm.doe.gov/SitePages/default.aspx?sitename=Colonie](http://lmpublicsearch.lm.doe.gov/SitePages/default.aspx?sitename=Colonie).

For more information on site history or current long-term stewardship activities, please contact us at:

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**2597 Legacy Way**  
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# Colonie, New York, Site Certification Data Summary Worksheet

10 tables in the "Post-Remedial Action Report - 1984" provide evidence used to certify the site as clean.

24 tables in the "Post-Remedial Action Report - 1985" provide evidence used to certify the site as clean.

5 tables in the "Post-Remedial Action Report - 1988" provide evidence used to certify the site as clean.

When the tables refer to the "Post-Remedial Action Report - 1984," that is the "Post-Remedial Action Report for the Colonie Interim Storage Site Vicinity Properties - 1984, Colonie, New York" (dated March 1986).

When the tables refer to the "Post-Remedial Action Report - 1985," that is the "Post-Remedial Action Report for the Colonie Interim Storage Site Vicinity Properties - 1985, Colonie, New York" (dated March 1988).

When the tables refer to the "Post-Remedial Action Report - 1988," that is the "Post-Remedial Action Report for the Colonie Interim Storage Site Vicinity Properties - 1988, Colonie, New York" (dated June 1989).

Post-Remedial Action Sampling Results			
1114 Central Ave			
Table 2 in the Post-Remedial Action Report - 1984			
Sample No.	Concentrations (pCi/g) of Uranium-238		
1	2.0 ± 0.2		
2	3.0 ± 0.3		
3	3.0 ± 0.3		
4	5.0 ± 0.4		
Surface Contamination Survey			
Survey Location	Number of Measurements*	Average (mrad/h)	Range (mrad/h)
Roof (Area C)	330	0.1	0.1 - 0.1
Scabbled asphalt on side of dwelling (Area A)	156	0.1	0.1 - 0.3
Scabbled asphalt (Area B)	120	0.1	0.1 - 0.2
*Measurements were taken at each intersection of a 1-m grid.			

# Colonie, New York, Site Certification Data Summary Worksheet

Post-Remedial Action Sampling Results			
1144/1144A Central Ave			
Table 3 in the Post-Remedial Action Report - 1984			
Sample No.	Concentrations (pCi/g) of Uranium-238		
1	<2.0		
2	<2.0		
3	2.2 ± 1.0		
4	<2.0		
5	<5.0		
6	<1.4		
7	<5.0		
8	<1.4		
9	2.0 ± 0.8		
10	<2.0		
11	1.0 ± 0.2		
12	3.0 ± 0.3		
13	1.2 ± 0.6		
14	13.3 ± 1.0		
15	<5.0		
16	<1.4		
17	1.5 ± 0.7		
18	<1.5		
19	2.5 ± 0.7		
20	<2.0		
21	<5.0		
22	<1.4		
23	2.4 ± 0.6		
24	<1.4		
25	3.0 ± 0.8		
26	6.1 ± 0.7		
27	<5.0		
28	<5.0		
29	<1.6		
30	<1.2		
31	<2.0		
32	<1.34		
33	2.3 ± 0.7		
34	<5.0		
35	<5.0		
36	4.0 ± 1.0		
37	8.0 ± 1.4		
38	<1.6		
39	1.7 ± 1.2		
40	<1.7		
41	1.0 ± 0.7		
42	<1.4		
43	6.0 ± 1.4		
44	5.3 ± 0.7		
45	16.3 ± 1.4		
46	13.0 ± 1.0		
47	11.1 ± 0.6		
48	12.2 ± 0.4		
49	8.4 ± 1.0		
50	3.0 ± 1.0		
51	<2.0		
52	0.4 ± 1.0		
53	2.0 ± 0.7		
54	<1.2		
55	<2.0		
56	<1.4		
57	<2.0		
58	2.0 ± 0.4		
59	<5.0		
60	<5.0		
61	1.1 ± 0.6		
62	<5.0		
63	3.0 ± 0.4		
64	3.0 ± 1.0		
65	2.3 ± 0.3		
66	3.1 ± 0.3		
67	<2.0		
68	2.4 ± 0.6		
69	5.0 ± 0.8		
70	8.3 ± 1.2		
71	16 ± 1.3		
72	<5.0		
73	3.0 ± 1.0		
74	<5.0		
75	<5.0		
76	3.0 ± 0.8		
77	1.5 ± 0.3		
78	2.2 ± 0.3		
79	<2.0		
80	7.2 ± 0.8		
81	2.2 ± 1.0		
82	<2.0		
83	2.0 ± 0.8		
84	<2.0		
85	2.0 ± 0.7		
86	3.2 ± 0.0		
87	1.5 ± 1.0		
88	<5.0		
89	<2.0		
90	<1.4		
91	2.4 ± 0.7		
92	2.0 ± 0.7		
93	<5.0		
94	<5.0		
95	1.4 ± 0.6		
96	<5.0		
97	2.3 ± 0.3		
98	15.0 ± 0.4		
99	<5.0		
100	9.0 ± 1.3		
101	9.0 ± 1.0		
102	4.1 ± 0.7		
103	3.2 ± 0.3		
104	5.4 ± 0.3		
105	5.1 ± 0.4		
Surface Contamination Survey			
Survey Location	Number of Measurements*	Average (mrad/h)	Range (mrad/h)
Scabbled asphalt (Area B)	50	0.2	0.1 - 0.4

\*Measurements were taken at each intersection of a 1m grid.

Post-Remedial Action Sampling Results	
1159 Central Ave	
Table 4 in the Post-Remedial Action Report - 1984	
Sample No.	Concentrations (pCi/g) of Uranium-238
1	<5.0
2	<5.0
3	<2.5
4	<1.4
5	<2.0
6	6.3 ± 0.6
7	4.5 ± 0.9
8	3.0 ± 0.6
9	2.3 ± 0.7
10	<1.6
11	<2.0
12	2.3 ± 0.5
13	<1.6
14	14.7 ± 1.1
15	<2.0
16	5.1 ± 0.9
17	2.3 ± 0.8
18	2.0 ± 0.6
19	<5.0
20	<5.0
21	<5.0
22	<2.0
23	3.0 ± 0.7
24	<2.0
25	<5.0
26	<2.0
27	1.5 ± 1.0
28	<2.0

Post-Remedial Action Sampling Results	
33 Palmer Ave	
Table 5 in the Post-Remedial Action Report - 1984	
Sample No.	Concentrations (pCi/g) of Uranium-238
1	4.0 ± 0.7
2	8.2 ± 0.8
3	5.3 ± 0.9
4	5.2 ± 0.7
5	5.0 ± 0.9
6	<2.0
7	3.1 ± 0.8
8	2.2 ± 0.7

# Colonie, New York, Site Certification Data Summary Worksheet

Post-Remedial Action Sampling Results	
27/29 Yardboro Ave	
Table 6 in the Post-Remedial Action Report - 1984	
Sample No.	Concentrations (pCi/g) of Uranium-238
1	2.0 ± 0.6
2	5.0 ± 1.0
3	4.0 ± 0.3
4	2.5 ± 0.3
5	14.0 ± 1.0
6	4.0 ± 0.9
7	10.0 ± 1.2
8	1.4 ± 0.7
9	6.0 ± 0.5
10	13.2 ± 1.2
11	1.0 ± 1.0

Post-Remedial Action Sampling Results	
52 Yardboro Ave	
Table 7 in the Post-Remedial Action Report - 1984	
Sample No.	Concentrations (pCi/g) of Uranium-238
1	3.0 ± 0.3
2	3.6 ± 0.3
3	6.2 ± 0.4
4	1.7 ± 0.2
5	5.3 ± 1.0
6	1.5 ± 0.3
7	3.5 ± 0.6
8	2.6 ± 0.6
9	3.6 ± 0.3
10	4.9 ± 0.3
11	8.7 ± 1.0
12	3.3 ± 0.6
13	3.1 ± 0.7
14	4.2 ± 0.7
15	7.1 ± 0.9
16	<5.0
17	2.3 ± 1.0
18	4.0 ± 0.7
19	<5.0
20	<1.7
21	1.1 ± 0.6
22	5.2 ± 0.7
23	3.4 ± 0.8
24	5.0 ± 0.6

Post-Remedial Action Sampling Results	
68 Yardboro Ave	
Table 8 in the Post-Remedial Action Report - 1984	
Sample No.	Concentrations (pCi/g) of Uranium-238
1	<5.0
2	0.9 ± 0.5
3	4.3 ± 0.5
4	1.2 ± 0.6
5	1.4 ± 0.7
6	<5.0
7	1.4 ± 0.3
8	5.0 ± 0.3
9	3.3 ± 0.7
10	<1.7
11	<2.0
12	<1.5
13	1.7 ± 0.7
14	3.0 ± 0.6
15	2.5 ± 0.8
16	<1.7

Post-Remedial Action Sampling Results	
74 Yardboro Ave	
Table 9 in the Post-Remedial Action Report - 1984	
Sample No.	Concentrations (pCi/g) of Uranium-238
1	0.7 ± 0.3
2	6.0 ± 0.4
3	3.0 ± 0.4
4	3.3 ± 0.3
5	1.0 ± 0.3
6	2.5 ± 0.3
7	7.5 ± 1.2
8	2.5 ± 0.6
9	5.1 ± 1.4
10	15.0 ± 0.4
11	6.0 ± 0.4
12	6.2 ± 0.3
13	5.3 ± 0.3

Post-Remedial Action Sampling Results	
78 Yardboro Ave	
Table 10 in the Post-Remedial Action Report - 1984	
Sample No.	Concentrations (pCi/g) of Uranium-238
1	0.5 ± 0.1
2	1.4 ± 0.4
3	3.1 ± 0.3
4	3.0 ± 0.2
5	1.4 ± 0.3
6	3.0 ± 0.3
7	<1.5
8	0.7 ± 0.2

Post-Remedial Action Sampling Results	
80 Yardboro Ave	
Table 11 in the Post-Remedial Action Report - 1984	
Sample No.	Concentrations (pCi/g) of Uranium-238
1	1.0 ± 0.4
2	5.4 ± 0.3
3	2.2 ± 0.3
4	2.0 ± 0.3
5	11.0 ± 0.3
6	9.1 ± 0.6
7	6.0 ± 0.3
8	1.0 ± 0.2

Post-Remedial Action Sampling Results	
1100 Central Ave	
Table 2 in the Post-Remedial Action Report - 1985	
Sample No.	Concentrations (pCi/g) of Uranium-238
1	13.3 ± 5.0
2	22.1 ± 1.7
3	16.0 ± 1.4
4	32.6 ± 5.1
5	3.3 ± 0.5

Post-Remedial Action Sampling Results	
1104 Central Ave	
Table 3 in the Post-Remedial Action Report - 1985	
Sample No.	Concentrations (pCi/g) of Uranium-238
1	2.2 ± 0.6
2	2.4 ± 2.2
3	15.0 ± 3.0
4	11.1 ± 4.9
5	5.3 ± 1.4
6	26.7 ± 1.3
7	38.3 ± 0.7*
8	27.7 ± 5.5
9	3.3 ± 0.5
10	3.0 ± 0.6

\*Sample meets 35-pCi/g guideline when averaged over a 100-m2 area.

# Colonie, New York, Site Certification Data Summary Worksheet

Post-Remedial Action Sampling Results			
1118 Central Ave			
Table 4 in the Post-Remedial Action Report - 1985			
Sample No.	Concentrations (pCi/g) of Uranium-238		
1	20.0 ± 4.0		
2	2.9 ± 1.7		
3	2.6 ± 0.3		
4	1.7 ± 0.9		
5	3.8 ± 1.1		
6	29.6 ± 4.1		
7	2.2 ± 0.2		
8	<1.5		
9	3.8 ± 2.5		
Surface Contamination Monitoring			
Type of Surface	Number of Measurements*	Average (mrad/h)	Range (mrad/h)
Asphalt	305	0.09	0.04 - 0.13

\*The measurements were based on a 1-m grid with measurements taken on contact at the four corners and in the center of the grid block. The measurements were taken in the areas where the asphalt was remediated.

Post-Remedial Action Sampling Results	
1152 Central Ave	
Table 10 in the Post-Remedial Action Report - 1985	
Sample No.	Concentrations (pCi/g) of Uranium-238
1	12.6 ± 4.2
2	20.8 ± 4.9
3	9.4 ± 2.6
4	13.1 ± 4.5
5	16.8 ± 6.5
6	15.7 ± 5.4
7	33.3 ± 8.0
8	2.2 ± 1.1
9	1.3 ± 0.9
10	11.3 ± 3.7
11	1.5 ± 0.2

Post-Remedial Action Sampling Results	
1129 Central Ave	
Table 5 in the Post-Remedial Action Report - 1985	
Sample No.	Concentrations (pCi/g) of Uranium-238
1	11 ± 0.8
2	0.5 ± 1.0
3	<0.9
4	<1.2

Post-Remedial Action Sampling Results	
1148 Central Ave	
Table 8 in the Post-Remedial Action Report - 1985	
Sample No.	Concentrations (pCi/g) of Uranium-238
1	11.5 ± 1.6
2	11.6 ± 4.5
3	23.6 ± 4.4
4	20.2 ± 5.5
5	14.3 ± 1.5
6	20.2 ± 6.4
7	15.5 ± 7.8
8	15.3 ± 3.2
9	7.8 ± 3.7
10	2.1 ± 0.3
11	13.6 ± 3.0
12	17.2 ± 3.9

Post-Remedial Action Sampling Results	
1160 (AL021) Central Ave	
Table 11 in the Post-Remedial Action Report - 1985	
Sample No.	Concentrations (pCi/g) of Uranium-238
1	8.7 ± 0.1
2	4.1 ± 1.7
3	18.5 ± 0.2
4	5.0 ± 1.0

Post-Remedial Action Sampling Results	
1146 Central Ave	
Table 6 in the Post-Remedial Action Report - 1985	
Sample No.	Concentrations (pCi/g) of Uranium-238
1	5.7 ± 2.2
2	11.5 ± 1.6
3	5.5 ± 1.4
4	7.0 ± 0.2
5	7.1 ± 1.1
6	10.2 ± 4.2
7	19.6 ± 4.5

Post-Remedial Action Sampling Results	
1150 Central Ave	
Table 9 in the Post-Remedial Action Report - 1985	
Sample No.	Concentrations (pCi/g) of Uranium-238
1	1.7 ± 1.7
2	2.8 ± 0.1
3	3.8 ± 1.3
4	12.6 ± 4.2
5	20.8 ± 4.9
6	5.9 ± 1.2
7	17.7 ± 7.8
8	2.5 ± 2.8

Post-Remedial Action Sampling Results	
1161 Central Ave	
Table 12 in the Post-Remedial Action Report - 1985	
Sample No.	Concentrations (pCi/g) of Uranium-238
1	<1.7
2	2.0 ± 0.7
3	1.4 ± 0.3
4	11.2 ± 1.2
5	6.3 ± 0.3
6	21.3 ± 3.2
7	2.8 ± 0.9
8	5.5 ± 1.3
9	1.1 ± 0.9
10	1.3 ± 0.8
11	1.0 ± 0.8

Post-Remedial Action Sampling Results	
1147 Central Ave	
Table 7 in the Post-Remedial Action Report - 1985	
Sample No.	Concentrations (pCi/g) of Uranium-238
1	2.0 ± 0.3
2	2.7 ± 0.7
3	1.0 ± 0.5
4	3.1 ± 0.1
5	2.8 ± 1.1



# Colonie, New York, Site Certification Data Summary Worksheet

Post-Remedial Action Sampling Results			
1160/1162 (AL020) Central Ave			
Table 13 in the Post-Remedial Action Report - 1985			
Sample No.	Concentrations (pCi/g) of Uranium-238		
1	13.2 ± 5.0		
2	17.8 ± 6.3		
3	13.2 ± 2.3		
4	3.6 ± 1.2		
5	17.5 ± 6.6		
6	12.8 ± 0.9		
7	14.2 ± 0.3		
Surface Contamination Monitoring			
Type of Surface	Number of Measurements*	Average (mrad/h)	Range (mrad/h)
Asphalt	315	0.07	0.04 - 0.12

\*The measurements were based on a 1-m grid with measurements taken on contact at the four corners and in the center of the grid block. The measurements were taken in the areas where the asphalt was remediated.

Post-Remedial Action Sampling Results	
1185 Central Ave	
Table 18 in the Post-Remedial Action Report - 1985	
Sample No.	Concentrations (pCi/g) of Uranium-238
1	1.0 ± 0.7
2	<1.3
3	1.6 ± 1.1
4	1.4 ± 0.4
5	2.2 ± 1.1

Post-Remedial Action Sampling Results	
1195 Central Ave	
Table 19 in the Post-Remedial Action Report - 1985	
Sample No.	Concentrations (pCi/g) of Uranium-238
1	<1.3
2	<2.2 ± 0.7
3	0.8 ± 0.8
4	7.8 ± 0.1

Post-Remedial Action Sampling Results	
1166 Central Ave	
Table 14 in the Post-Remedial Action Report - 1985	
Sample No.	Concentrations (pCi/g) of Uranium-238
1	1.5 ± 0.9
2	2.1 ± 0.1
3	6.8 ± 1.7
4	7.0 ± 1.4
5	4.6 ± 0.5
6	8.9 ± 5.1
7	2.8 ± 1.2
8	12.1 ± 2.2
9	12.1 ± 5.7
10	28.5 ± 8.3
11	9.8 ± 3.5

Post-Remedial Action Sampling Results	
1168 Central Ave	
Table 16 in the Post-Remedial Action Report - 1985	
Sample No.	Concentrations (pCi/g) of Uranium-238
1	14.7 ± 0.9
2	1.4 ± 1.1
3	13.7 ± 4.2
4	1.4 ± 0.9
5	8.2 ± 2.2
6	5.1 ± 1.7
7	4.7 ± 1.7
8	4.9 ± 1.1
9	2.6 ± 1.3
10	8.0 ± 3.5
11	10.1 ± 5.7
12	2.3 ± 0.9
13	6.8 ± 3.3

Post-Remedial Action Sampling Results	
10 Garden Lane	
Table 20 in the Post-Remedial Action Report - 1985	
Sample No.	Concentrations (pCi/g) of Uranium-238
1	4.7 ± 0.3
2	11.7 ± 0.4
3	2.1 ± 0.1
4	16.3 ± 1.6
5	8.0 ± 1.5
6	26.8 ± 1.7
7	1.2 ± 0.4
8	1.4 ± 0.7

Post-Remedial Action Sampling Results	
1167 Central Ave	
Table 15 in the Post-Remedial Action Report - 1985	
Sample No.	Concentrations (pCi/g) of Uranium-238
1	2.6 ± 1.1
2	1.8 ± 1.2
3	4.4 ± 1.2
4	4.4 ± 0.2
5	3.0 ± 1.1

Post-Remedial Action Sampling Results	
1170 Central Ave	
Table 17 in the Post-Remedial Action Report - 1985	
Sample No.	Concentrations (pCi/g) of Uranium-238
1	3.2 ± 0.2
2	15.4 ± 1.5
3	5.9 ± 0.1
4	1.6 ± 0.4
5	2.9 ± 1.2
6	5.0 ± 0.7
7	3.4 ± 0.9
8	8.7 ± 0.2
9	5.0 ± 0.1

Post-Remedial Action Sampling Results	
7 Palmer Avenue	
Table 21 in the Post-Remedial Action Report - 1985	
Sample No.	Concentrations (pCi/g) of Uranium-238
1	1.8 ± 0.6
2	9.0 ± 4.5
3	6.7 ± 1.5
4	2.7 ± 2.2

Post-Remedial Action Sampling Results	
5 Yardboro Avenue	
Table 22 in the Post-Remedial Action Report - 1985	
Sample No.	Concentrations (pCi/g) of Uranium-238
1	2.2 ± 2.0
2	2.5 ± 1.3
3	2.0 ± 0.8
4	1.1 ± 0.9

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Post-Remedial Action Sampling Results	
24 Yardboro Avenue	
Table 23 in the Post-Remedial Action Report - 1985	
Sample No.	Concentrations (pCi/g) of Uranium-238
1	15.2 ± 6.7
2	9.9 ± 3.0
3	7.4 ± 0.9
4	2.4 ± 0.2

Post-Remedial Action Sampling Results	
25/27 Yardboro Avenue	
Table 24 in the Post-Remedial Action Report - 1985	
Sample No.	Concentrations (pCi/g) of Uranium-238
1	3.8 ± 0.6
2	3.2 ± 0.7
3	5.7 ± 0.5

Post-Remedial Action Sampling Results	
50 Yardboro Avenue	
Table 25 in the Post-Remedial Action Report - 1985	
Sample No.	Concentrations (pCi/g) of Uranium-238
1	2.4 ± 1.1
2	1.6 ± 1.6
3	3.6 ± 0.7
4	7.8 ± 2.0
5	3.3 ± 0.2
6	1.6 ± 0.1
7	1.3 ± 0.8
8	2.0 ± 0.8

Post-Remedial Action Sampling Results for Exit 4, I-90 Right-of-Way Property (AL212)		
Table 2 in the Post-Remedial Action Report - 1988		
Sample No.	Uranium-238 Concentration (pCi/g)	
Area I	1	12
	2	16
	3	10
	4	16
	5	19
	6	25
	7	22
	8	19
	9	15
	10	22
Area II	1	9.0
Area III	1	28
Area IV	1	15

Post-Remedial Action Sampling Results for the Crannell Property, Railroad Avenue (AL217)		
Table 5 in the Post-Remedial Action Report - 1988		
Sample No.	Uranium-238 Concentration (pCi/g)	
Area I	1	17
	2	12
	3	12
	4	13
	5	17
	6	12
	7	17
Area II	1	9.0
Area III	1	19
	2	23
	3	19

Post-Remedial Action Sampling Results for 1101 Central Avenue (AL084)	
Table 3 in the Post-Remedial Action Report - 1988	
Sample No.	Uranium-238 Concentration (pCi/g)
1	14
2	8.0
3	11
4	9.0
5	18

Post-Remedial Action Sampling Results for 10/14 Kraft Avenue (AL148)	
Table 4 in the Post-Remedial Action Report - 1988	
Sample No.	Uranium-238 Concentration (pCi/g)
1	8.0
2	3.0
3	4.0
4	5.0
5	3.0

Post-Remedial Action Sampling Results for 80-110 Yardboro Avenue (AL151)	
Table 6 in the Post-Remedial Action Report - 1988	
Sample No.	Uranium-238 Concentration (pCi/g)
1	14
2	7.0
3	5.0
4	13
5	17
6	18

# Colonie, New York, Site Certification Data Summary Worksheet

32 tables in the "Final Site Closeout Report" provide evidence used to certify the site as clean.

NOTE: These data tables were reproduced directly from the Final Site Closeout Report, and any errors or inconsistencies contained within them have not been revised for this Data Summary Worksheet.

When the tables refer to the "Final Site Closeout Report," that is the "Final Site Closeout Report for the Colonie FUSRAP Site, Colonie, New York" (dated April 2018).

Summary of DOE Vicinity Property Remediation, Colonie FUSRAP Site						
Table 1 in the Final Site Closeout Report						
Vicinity Property ID	Property	Remedial Actions	Approximate Area Remediated (m <sup>2</sup> )	*Max Uranium Concentration (pCi/g) or Avg Dose Rate (mrad/h)	No. of Samples/Measurements	Sample Density (m <sup>2</sup> /Sample)
AL084	1100 Central Avenue	Crushed stone removed (3-inch depth) and replaced	25.35	32.6 pCi/g	5	5.07
	1101 Central Avenue	Grass/gravel removed and replaced	85.54	18.0	5	17.10
	1104 Central Avenue	Crushed stone removed and replaced	119.86	"38.3 pCi/g" (next highest 277 ± 5.5) <sup>1</sup>	10	11.99
Grass removed (3-in depth) and replaced		13.86	N/A	None	N/A	
AL215	1110 Central Avenue	N/A	N/A	N/A	N/A	N/A
		Asphalt scabbled	17.95	0.1 mrad/h	156 *	0.12
	1114 Central Avenue	Rocks/dirt on top of asphalt excavated - asphalt scabbled	28.90	0.1 mrad/h	120 *	0.24
		Tar paper roof removed	77.96	0.1 mrad/h	330 *	0.24
		Small grass strip removed (3-in depth) and replaced	3.73	5.0 pCi/g	4	0.93
	1118 Central Avenue	Grass removed (3-in depth) and replaced	111.75	N/A	None	N/A
		Crushed Stone removed and replaced	86.99			
		Asphalt scabbled	51.18	0.09 mrad/h	305 *	0.17
1129 Central Avenue	Grass removed (3-in depth) and replaced	41.86	11 pCi/g	4	10.46	
AL098	1143 Central Avenue	N/A	N/A	N/A	N/A	N/A
	1144/1144A Central Avenue	Blacktop scabbled	33.03	0.2 mrad/h	50 *	0.66
Grass/gravel removed and replaced		1983.01		105	18.89	
AL100	1145 Central Avenue	N/A	N/A	N/A	N/A	N/A
	1146 Central Avenue	Crushed stone/grass removed and replaced	88.15	19.6 pCi/g	7	12.59
	1147 Central Avenue	Grass removed and replaced	35.09	3.1 pCi/g	5	7.02
	1148 Central Avenue	Grass removed and replaced	181.67	23.6 pCi/g	12	15.14
AL102	1149 Central Avenue	N/A	N/A	N/A	N/A	N/A
	1150 Central Avenue	Grass/gravel removed and replaced	163.69	20.8 pCi/g	8	20.46
	1152 Central Avenue	Grass/gravel removed and replaced	243.86	33.3 pCi/g	11	22.17
	1159 Central Avenue	Grass removed (3-in depth) and replaced	185.71	14.7 pCi/g	28	6.63
AL021	1160 Central Avenue	Grass removed (3-in depth) and replaced	45.01	18.5 pCi/g	4	11.25
	1161 Central Avenue	Grass/gravel removed and replaced	85.65	21.3 pCi/g	11	7.79
AL020	1160/1162 Central Avenue	Grass/gravel removed and replaced	157.27	17.8 pCi/g	7	22.47
		Asphalt scabbled	58.59	0.07 mrad/h	315	0.19
	1166 Central Avenue	Grass removed and replaced	163.13	28.5 pCi/g	11	14.83
	1167 Central Avenue	Grass removed (3-in depth) and replaced	42.15	4.4 pCi/g	5	8.43
	1168 Central Avenue	Grass removed and replaced	257.42	14.7pCi/g	13	19.80
AL130	1170 Central Avenue	Grass/gravel removed (3-in depth) and replaced	84.08	15.4 pCi/g	9	9.34
AL105	1177 Central Avenue	N/A	N/A	N/A	N/A	N/A
	1178 Central Avenue					
AL106	1185 Central Avenue	Grass removed (3-in depth) and replaced	43.30	2.2 pCi/g	5	8.66
	1195 Central Avenue	Grass removed (3-in depth) and replaced	20.81	7.8 pCi/g	4	5.20
AL106	1200 Central Avenue	N/A	N/A	N/A	N/A	N/A
AL217	"Crannell Property, Railroad Avenue"	N/A	N/A	N/A	N/A	N/A
AL068	"10 N. Elmhurst Avenue"	N/A	N/A	N/A	N/A	N/A
AL212	"Exit 4, 190 Right of Way Property"	N/A	N/A	N/A	N/A	N/A
	10 Garden Lane	Crushed stone removed and replaced	199.08	26.1 pCi/g	8	24.89
AL148	10/14 Kraft Avenue	N/A	N/A	N/A	N/A	N/A
AL143	4 Maplewood Avenue	N/A	N/A	N/A	N/A	N/A
AL218	Niagara Mohawk (NIMo) Property, Railroad Avenue	N/A	N/A	N/A	N/A	N/A
	7 Palmer Avenue	Grass removed (3-in depth) and replaced	26.07	9.0 pCi/g	4	6.52
AL218	33 Palmer Avenue	Grass removed (3-in depth) and replaced	150.90	8.2 pCi/g	8	18.86
AL033	1 Reynolds Avenue	N/A	N/A	N/A	N/A	N/A
	5 Yardboro Avenue	Grass removed (3-in depth) and replaced	2.91	2.5 pCi/g	4	0.73
AL137	16 Yardboro Avenue	N/A	N/A	N/A	N/A	N/A
	20 Yardboro Avenue	N/A	N/A	N/A	N/A	N/A
AL136	24 Yardboro Avenue	Grass removed (3-in depth) and replaced	3.23	15.2 pCi/g	4	0.81
	"25/27 Yardboro Avenue"	Grass removed (3-in depth) and replaced	5.40	5.7 pCi/g	3	1.80
	27/29 Yardboro Avenue	Grass removed (3-in depth) and replaced	132.38	14.0pCi/g	11	12.03
	50 Yardboro Avenue	Grass removed and replaced	45.19	7.8 pCi/g	8	5.65
	52 Yardboro Avenue	Grass removed (3-in depth) and replaced	217.62	8.7 pCi/g	24	9.07
	68 Yardboro Avenue	Grass removed (3-in depth) and replaced	313.78	5.0 pCi/g	16	19.61
	74 Yardboro Avenue	Grass/gravel removed (3-in depth) and replaced	44.29	15.0 pCi/g	13	3.41
	78 Yardboro Avenue	Grass removed (3-in depth) and replaced	11.54	3.1 pCi/g	4	2.89
		Stone driveway removed, replaced with concrete	43.31	3.0 pCi/g	4	10.83
	80 Yardboro Avenue	Grass removed (3-in depth) and replaced	111.34	11.0 pCi/g	8	13.92
AL151	80-110 Yardboro Avenue	N/A	N/A	N/A	N/A	N/A

**Notes**  
<sup>1</sup>Measurements taken at a minimum of each intersection of a 1-m grid up to measurements taken at the four corners and in the center of the grid block.  
<sup>2</sup>Samples met 35-pCi/g guideline when averaged over a 100 m<sup>2</sup> area.  
 Avg = average; m<sup>2</sup> = square meters; N/A = not applicable; Max = maximum; mrad/h = millirad per hour; pCi/g = picocuries per gram

Main Site Soils Cleanup Criteria, Colonie FUSRAP Site	
Table 4 in the Final Site Closeout Report	
Contaminant	Cleanup Criteria <sup>1</sup>
238Uranium	35 pCi/g <sup>2</sup>
232Thorium	2.8 pCi/g <sup>2</sup>
Lead, total <sup>3</sup>	450 mg/kg
Copper, total <sup>3</sup>	1,912 mg/kg
Arsenic, total <sup>3</sup>	7.4 mg/kg

**Notes**  
<sup>1</sup>The cleanup criteria are based on urban residential use.  
<sup>2</sup>Cleanup goal represents value in excess of background.  
<sup>3</sup>Metals excavated to a maximum depth of 9 feet below ground surface.  
**Key**  
 pCi/g = picocuries per gram  
 mg/kg = milligrams per kilogram

# Colonie, New York, Site Certification Data Summary Worksheet

Summary of Dust Data at Vicinity Properties, Colonie FUSRAP Site

Table 5 in the Final Site Closeout Report

Volumetric Sample ID	Property ID	Property Type*	Area Type**	Description	Total Combined Concentration (pCi/g)			
					U-234	U-235	U-238	U-Total
6081-003	1144 Central Avenue	R	L	Attic	N/A			23.8
6081-004	1144 Central Avenue	R	L	Attic	N/A			9.9
6081-005	1144 Central Avenue	R	L	Attic	N/A			15.3
6081-006	1144 Central Avenue	R	L	Attic	N/A			9.3
6081-007	1144 Central Avenue	R	L	Attic	N/A			8.6
6081-008	1144A Central Avenue	R	L	Attic	N/A			88.7
6081-009	1144A Central Avenue	R	L	1st Floor Ceiling	N/A			8.4
6081-010	1144A Central Avenue	R	L	1st Floor Ceiling	N/A			221
6081-011	1144A Central Avenue	R	L	Garage	N/A			79.0
6081-012	1144A Central Avenue	R	L	Garage	N/A			145.2
6081-013	1148 Central Avenue	R	L	Basement	N/A			9.2
6081-014	1148 Central Avenue	R	L	Attic Crawl Space	N/A			6.4
6081-015	1148 Central Avenue	R	L	Garage	N/A			477.4
6081-016	1148 Central Avenue	R	L	Garage	N/A			237.6
6081-017	1148 Central Avenue	R	L	Garage	N/A			631.3
CDUS-1214-041	1161 Central Avenue	R	H	Living Room	0.82	0.11	3.26	4.2
CDUS-1214-042	1161 Central Avenue	R	H	2nd Floor bedroom	0.62	0.06	1.96	2.6
CDUS-1214-043	1161 Central Avenue	R	H	Kitchen	0.40	0.05	0.64	1.1
CDUS-1214-044	1161 Central Avenue	R	H	2nd Floor bedroom	0.70	0.11	2.96	3.8
CDUS-1214-045	1161 Central Avenue	R	L	Basement near stairway	0.60	0.03	0.71	1.3
CDUS-1214-046	1161 Central Avenue	R	L	Basement floor and shelves	0.50	0.05	0.86	1.4
CDUS-1214-047	1161 Central Avenue	R	L	Basement floor and shelves	0.56	0.06	0.68	1.3
CDUS-1214-048	1161 Central Avenue	R	L	Basement cement floor, carpet, horizontal surfaces	0.49	0.04	0.64	1.2
CDUS-1214-009	1200 Central Avenue	R	H	Owner office occupied during most working hours	0.35	0.04	0.52	0.9
CDUS-1214-012	1200 Central Avenue	R	H	Viewing room, large area for visitors	0.32	0.00	0.42	0.7
CDUS-1214-014	1200 Central Avenue	R	H	Northwest sitting room	0.58	0.03	0.69	1.3
CDUS-1214-016	1200 Central Avenue	R	H	Upstairs office, potential future bedroom	0.29	0.03	0.68	1.0
CDUS-1214-010	1200 Central Avenue	R	L	Attic above garage (8 hours per year occupancy)	0.78	0.08	3.67	4.5
CDUS-1214-011	1200 Central Avenue	R	L	Walkway down to service entry, concrete edge	0.47	0.03	0.86	1.4
CDUS-1214-013	1200 Central Avenue	R	L	Attic above house area	1.64	0.15	9.10	10.9
CDUS-1214-015	1200 Central Avenue	R	L	*Storage room, occasional shop area (2 hours per year)*	0.42	0.04	0.76	1.2
CDUS-0518-066	24 Yarbboro Avenue	R	H	2nd Floor front apt child's bedroom	0.31	0.05	0.44	0.8
CDUS-0518-068	24 Yarbboro Avenue	R	H	2nd Floor back apt living room - most frequently used room	0.78	0.08	1.36	2.2
CDUS-0518-070	24 Yarbboro Avenue	R	H	2nd Floor back apt bedroom	0.56	0.01	0.74	1.3
CDUS-0518-072	24 Yarbboro Avenue	R	H	Top floor bedroom, partial finished	0.70	0.12	2.16	3.0
CDUS-0518-065	24 Yarbboro Avenue	R	L	Basement shop area	0.59	0.07	0.95	1.6
CDUS-0518-067	24 Yarbboro Avenue	R	L	Basement stove area	0.84	0.09	2.97	3.9
CDUS-0518-069	24 Yarbboro Avenue	R	L	Back crawl space	1.38	0.20	7.41	9.0
CDUS-0518-071	24 Yarbboro Avenue	R	L	Top floor eave on east side	1.48	0.14	5.25	6.9
CDUS-1214-057	33 Palmer Avenue	R	H	Living room	0.41	0.05	0.85	1.3
CDUS-1214-060	33 Palmer Avenue	R	H	Kitchen (carpet and hard floors)	0.35	0.04	0.96	1.4
CDUS-1214-063	33 Palmer Avenue	R	H	2nd Floor bedroom	0.53	0.08	1.36	2.0
CDUS-1214-064	33 Palmer Avenue	R	H	2nd Floor bedroom (periodically occupied by grandchildren)	0.99	0.05	1.73	2.8
CDUS-1214-058	33 Palmer Avenue	R	L	Basement carpeted area	0.41	0.03	0.70	1.1
CDUS-1214-059	33 Palmer Avenue	R	L	Basement cement floor	0.68	0.03	1.07	1.8
CDUS-1214-061	33 Palmer Avenue	R	L	Basement cement floor	0.61	0.03	0.67	1.3
CDUS-1214-062	33 Palmer Avenue	R	L	Basement floor	0.76	0.06	1.00	1.8
CDUS-1214-049	4 Kraft Avenue	R	H	Living room	0.34	0.02	1.02	1.4
CDUS-1214-052	4 Kraft Avenue	R	H	2nd Floor child's bedroom	1.47	0.07	1.92	3.5
CDUS-1214-055	4 Kraft Avenue	R	H	2nd Floor bedroom	0.96	0.07	2.04	3.1
CDUS-1214-056	4 Kraft Avenue	R	H	Kitchen	0.58	0.03	1.40	2.0
CDUS-1214-050	4 Kraft Avenue	R	L	Attic floor	2.61	0.25	14.61	17.5

Volumetric Sample ID	Property ID	Property Type*	Area Type**	Description	Total Combined Concentration (pCi/g)			
					U-234	U-235	U-238	U-Total
CDUS-1214-051	4 Kraft Avenue	R	L	Attic floor	2.33	0.29	11.82	14.4
CDUS-1214-053	4 Kraft Avenue	R	L	Basement floor	0.58	0.09	1.01	1.7
CDUS-1214-054	4 Kraft Avenue	R	L	Basement floor	0.59	0.03	0.87	1.5
CDUS-1214-017	5 Yarbboro Avenue	R	H	Living room area, most frequently used room	0.42	0.04	1.23	1.7
CDUS-1214-019	5 Yarbboro Avenue	R	H	Office area on 1st floor	0.52	0.04	1.48	2.0
CDUS-1214-021	5 Yarbboro Avenue	R	H	Kitchen area, second most frequently used room	0.4	0.0	1.7	2.1
CDUS-1214-023	5 Yarbboro Avenue	R	H	Child's room	0.42	0.04	1.77	2.2
CDUS-1214-018	5 Yarbboro Avenue	R	L	Basement	0.90	0.10	3.40	4.4
CDUS-1214-020	5 Yarbboro Avenue	R	L	Basement	1.04	0.09	3.83	4.9
CDUS-1214-022	5 Yarbboro Avenue	R	L	Attic	2.61	0.34	10.87	13.8
CDUS-1214-024	5 Yarbboro Avenue	R	L	Attic	5.77	0.74	31.37	37.9
6081-018	78 Yarbboro Avenue	R	L	Basement	N/A	N/A	N/A	21.2
6081-019	78 Yarbboro Avenue	R	L	Attic	N/A			70.7
6081-020	78 Yarbboro Avenue	R	L	Attic	N/A			10.6
6081-021	78 Yarbboro Avenue	R	L	Attic	N/A			12.3
6081-022	78 Yarbboro Avenue	R	L	Attic	N/A			7.1
CDUS-1214-033	1118 Central Avenue	C	H	Backroom of bar area	0.28	0.01	0.36	0.7
CDUS-1214-036	1118 Central Avenue	C	H	Kitchen area	0.73	0.05	1.38	2.1
CDUS-1214-038	1118 Central Avenue	C	H	Restaurant entrance area	0.25	0.04	0.31	0.6
CDUS-1214-040	1118 Central Avenue	C	H	Upstairs office	0.34	0.02	0.72	1.1
CDUS-1214-034	1118 Central Avenue	C	L	Basement storage area	0.54	0.05	0.95	1.5
CDUS-1214-035	1118 Central Avenue	C	L	Basement storage area	0.26	0.00	0.24	0.5
CDUS-1214-037	1118 Central Avenue	C	L	Basement storage area	0.76	0.06	2.10	2.9
CDUS-1214-039	1118 Central Avenue	C	L	Basement storage area	0.81	0.13	1.32	2.3
CDUS-1214-025	1160 Central Avenue	C	H	Behind cash register	0.31	0.04	0.99	1.3
CDUS-1214-027	1160 Central Avenue	C	H	Arcade area	0.38	0.02	0.65	1.0
CDUS-1214-029	1160 Central Avenue	C	H	General public area	0.33	0.02	0.51	0.9
CDUS-1214-031	1160 Central Avenue	C	H	Behind other cash register area	0.29	0.01	0.63	0.9
CDUS-1214-026	1160 Central Avenue	C	L	Attic area above shop	0.47	0.04	1.06	1.6
CDUS-1214-028	1160 Central Avenue	C	L	Pinset machine in new section	0.42	0.02	0.80	1.2
CDUS-1214-030	1160 Central Avenue	C	L	Pinset machine in old section	0.20	0.00	0.72	0.9
CDUS-1214-032	1160 Central Avenue	C	L	Basement storage area beneath lounge	1.02	0.09	4.30	5.4
CDUS-1214-001	1177 Central Avenue	C	H	Front desk area worker side; occupied most working hours	0.51	0.02	0.59	1.1
CDUS-1214-003	1177 Central Avenue	C	H	Auto shop garage area, occupied most working hours	0.51	0.05	0.54	1.1
CDUS-1214-005	1177 Central Avenue	C	H	Customer waiting area	0.50	0.03	0.54	1.1
CDUS-1214-007	1177 Central Avenue	C	H	Rear of garage work area	0.67	0.06	0.70	1.4
CDUS-1214-002	1177 Central Avenue	C	L	Attic storage near top of stairs	0.81	0.08	3.51	4.4
CDUS-1214-004	1177 Central Avenue	C	L	Attic heavy dust loading near eave	0.83	0.06	3.22	4.1
CDUS-1214-006	1177 Central Avenue	C	L	Storage area/walkway between garage bays	0.37	0.01	0.53	0.9
CDUS-1214-008	1177 Central Avenue	C	L	Attic heavily loaded support beam	0.91	0.09	4.21	5.2
CDUS-0518-073	Background Sample	R	H	Living room - most frequently used room	0.32	0.12	0.33	0.8
CDUS-0518-075	Background Sample	R	H	Office/den	0.38	0.12	0.34	0.8
CDUS-0518-078	Background Sample	R	H	Basement game room	0.28	0.03	0.24	0.5
CDUS-0518-080	Background Sample	R	H	2nd floor child's bedroom	0.34	0.01	0.30	0.6
CDUS-0518-074	Background Sample	R	L	Basement workshop/utility room	0.41	0.04	0.30	0.8
CDUS-0518-076	Background Sample	R	L	Garage floor front half	0.32	0.02	0.39	0.7
CDUS-0518-077	Background Sample	R	L	Basement under stairs and around furnace	0.22	0.03	0.16	0.4
CDUS-0518-079	Background Sample	R	L	Garage floor rear half	0.40	0.06	0.40	0.9

Notes  
 \*Property Types: R = Residential or C = Commercial  
 \*\*Area Types: L = Limited or H = High Use  
 The high concentration of total uranium at 1148 Central Avenue was used as the "worst case" for estimating risk to non-living spaces.  
 Key  
 N/A = not applicable  
 pCi/g = picocuries per gram

# Colonie, New York, Site Certification Data Summary Worksheet

Groundwater Post-ROD Contaminant of Concern Results and Current Compliance Status <sup>(1)</sup> , Colonie FUSRAP Site							
Table 7 in the Final Site Closeout Report							
Monitoring Well	Contaminant of Concern	Target Cleanup Goals <sup>(2)</sup> (µg/L)	Minimum Concentration <sup>(3)</sup> (µg/L)	Maximum Concentration <sup>(3)</sup> (µg/L)	Latest Sample Result <sup>(4)</sup> (µg/L)	Target Cleanup Goal Status	Monitoring Well Active Status
MW-08S	Cis-1,2-DCE	1,800	1.0 U	1.0 U	1.0 U	In Compliance	Active (Current Network Well)
	PCE	5.5	1.0 U	1.0 U	1.0 U		
	TCE	18	1.0 U	1.0 U	1.0 U		
	VC	1.4	1.0 U	1.0 U	1.0 U		
MW-10S	Cis-1,2-DCE	1,800	1.0 U	1.0 U	1.0 U	In Compliance (prior to decommissioning)	Decommissioned (August 2015)
	PCE	5.5	1.0 U	1.0 U	1.0 U		
	TCE	18	1.0 U	1.0 U	1.0 U		
	VC	1.4	1.0 U	1.0 U	1.0 U		
MW-21S	Cis-1,2-DCE	1,800	1.0 U	<b>1.4<sup>(5)</sup></b>	1.0 U	In Compliance (prior to decommissioning)	Decommissioned (August 2015)
	PCE	5.5	<b>0.24 J</b>	<b>1.1</b>	<b>0.24 J</b>		
	TCE	18	1.0 U	<b>0.56 J</b>	1.0 U		
	VC	1.4	1.0 U	1.0 U	1.0 U		
MW-30S	Cis-1,2-DCE	1,800	1.0 U	<b>2.3</b>	1.0 U	In Compliance	Active (Current Network Well)
	PCE	5.5	<b>1.5</b>	<b>6<sup>(6)</sup></b>	<b>3.1</b>		
	TCE	18	1.0 U	<b>2.4</b>	1.0 U		
	VC	1.4	1.0 U	1.0 U	1.0 U		
MW-32S	Cis-1,2-DCE	1,800	1.0 U	<b>1.1</b>	<b>2.3</b>	In Compliance	Inactive (Existing Well Excluded from Well Network 08/2016)
	PCE	5.5	<b>2.4</b>	<b>50</b>	<b>2.4</b>		
	TCE	18	<b>1.1</b>	<b>19</b>	<b>1.6</b>		
	VC	1.4	1.0 U	<b>0.55 J</b>	1.0 U		
MW-34S	Cis-1,2-DCE	1,800	<b>0.79 J</b>	<b>1.6</b>	1.2	In Compliance	Active (Current Network Well)
	PCE	5.5	<b>0.45 J</b>	<b>0.96 J</b>	0.75 J		
	TCE	18	1.0 U	<b>0.29 J</b>	0.29 J		
	VC	1.4	<b>1.1</b>	<b>3.4</b>	1.1		
MW-35S	Cis-1,2-DCE	1,800	1.0 U	1.0 U	1.0 U	In Compliance (prior to decommissioning)	Decommissioned (August 2015)
	PCE	5.5	1.0 U	1.0 U	1.0 U		
	TCE	18	1.0 U	1.0 U	1.0 U		
	VC	1.4	1.0 U	1.0 U	1.0 U		
MW-36S	Cis-1,2-DCE	1,800	1.0 U	1.0 U	1.0 U	In Compliance (prior to decommissioning)	Decommissioned (August 2015)
	PCE	5.5	1.0 U	1.0 U	1.0 U		
	TCE	18	1.0 U	1.0 U	1.0 U		
	VC	1.4	1.0 U	1.0 U	1.0 U		
MW-37S	Cis-1,2-DCE	1,800	<b>1.7</b>	<b>5.2</b>	<b>4.9</b>	In Compliance	Active (Current Network Well)
	PCE	5.5	1.0 U	<b>0.61 J</b>	<b>0.50 J</b>		
	TCE	18	<b>0.28 J</b>	<b>0.79 J</b>	<b>0.42 J</b>		
	VC	1.4	<b>0.35 J</b>	<b>0.91 J</b>	<b>0.65 J</b>		
MW-38S	Cis-1,2-DCE	1,800	1.0 U	1.0 U	1.0 U	In Compliance (prior to decommissioning)	Decommissioned (August 2015)
	PCE	5.5	1.0 U	1.0 U	1.0 U		
	TCE	18	1.0 U	1.0 U	1.0 U		
	VC	1.4	1.0 U	1.0 U	1.0 U		
MW-39S	Cis-1,2-DCE	1,800	1.0 U	1.0 U	1.0 U	In Compliance (prior to decommissioning)	Decommissioned (August 2015)
	PCE	5.5	1.0 U	1.0 U	1.0 U		
	TCE	18	1.0 U	1.0 U	1.0 U		
	VC	1.4	1.0 U	1.0 U	1.0 U		
MW-40S	Cis-1,2-DCE	1,800	1.0 U	1.0 U	1.0 U	In Compliance (prior to decommissioning)	Decommissioned (August 2015)
	PCE	5.5	1.0 U	1.0 U	1.0 U		
	TCE	18	1.0 U	1.0 U	1.0 U		
	VC	1.4	1.0 U	1.0 U	1.0 U		
MW-41S	Cis-1,2-DCE	1,800	<b>6.8</b>	<b>3.5</b>	<b>4.8</b>	In Compliance	Active (Current Network Well)
	PCE	5.5	<b>14</b>	<b>39</b>	<b>24</b>	Out of Compliance – PCE	
	TCE	18	<b>4.5</b>	<b>11</b>	<b>5.1</b>	In Compliance	
	VC	1.4	<b>0.53 J</b>	<b>1.2</b>	<b>0.58 J</b>	In Compliance	
MW-42S	Cis-1,2-DCE	1,800	<b>3.4</b>	<b>1.3</b>	<b>7.6</b>	In Compliance	Active (Current Network Well)
	PCE	5.5	1.0 U	<b>0.43 J</b>	<b>0.34 J</b>		
	TCE	18	<b>0.44 J</b>	<b>1.3</b>	<b>0.75 J</b>		
	VC	1.4	1.0 U	<b>0.34 J</b>	1.0 U		
MW-43S	Cis-1,2-DCE	1,800	1.0 U	1.0 U	1.0 U	In Compliance (prior to decommissioning)	Decommissioned (August 2015)
	PCE	5.5	1.0 U	<b>0.23 J</b>	<b>0.23 J</b>		
	TCE	18	1.0 U	1.0 U	1.0 U		
	VC	1.4	1.0 U	1.0 U	1.0 U		
MW-44S	Cis-1,2-DCE	1,800	<b>2.8</b>	<b>3.5</b>	<b>3.3</b>	In Compliance	Active (Current Network Well installed July 2015)
	PCE	5.5	<b>3.1</b>	<b>18</b>	<b>18</b>	Out of Compliance – PCE	
	TCE	18	<b>4.0</b>	<b>9.9</b>	<b>9.9</b>	In Compliance	
	VC	1.4	1.0 U	1.0 U	1.0 U	In Compliance	

**Notes**

- (1)The Period of Record for data presented in this table is November 2010 through April 2017.
- (2)Target Cleanup Goals as per Colonie Groundwater ROD, April 2010.
- (3)Minimum and maximum concentrations are for the period of record from November 2010 through April 2017.
- (4)Latest sample for current network wells collected April 2017 and latest sample for decommissioned wells collected August 2012.
- (5)Results in boldface text are laboratory detections.
- (6)Shaded entry indicates that the value exceeds the Target Cleanup Goal.



# Colonie, New York, Site Certification Data Summary Worksheet

Colonie FUSRAP Site, FSS Unit #101													
Table 12a in Appendix B of the Final Site Closeout Report													
Sample ID	Date Collected	FIDLER Static Count	44-10 Spa Static Counts	On-Site Gamma Spec Uranium-238	Off-Site Alpha Spec Uranium-238	On-Site Gamma Spec Thorium-232	Off-Site Alpha Spec Thorium-232	On-Site Metals (XRF)		Off-site TAL Metals			Notes
		cpm	cpm	pCi/g	pCi/g	pCi/g	pCi/g	Copper	Lead	Arsenic	Copper	Lead	
								(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	
CFS-101-001	7/9/2002	8,760	9,323	17.0	11.0	2.3	0.384	550	<b>706</b>	6.8	630	<b>623</b>	CFS-101-Duplicate; Surveyed depth 2.58 ft. below original grade.
CFS-101-002	7/9/2002	8,492	9,100	14.3	21.6	0.8	0.702	249	230	5.1	281	268	Surveyed depth 4.78 ft. below original grade.
CFS-101-003	7/9/2002	8,347	9,176	4.7	2.53	1.0	0.904	<140	52.2	4.4	19	16.6	NYSDEC and USACE Split; Surveyed depth 6.0 ft. below original grade.
CFS-101-004	7/9/2002	7,882	8,703	6.6	0.94	0.7	0.895	<120	<29	1.5	4.2	3.1	Surveyed depth 7.36 ft. below original grade.
CFS-101-005	7/9/2002	9,850	10,003	13.0	24.9	0.6	0.696	197	297	4.2	272	226	USACE Split Sample; Surveyed depth 0.6 ft. below original grade.
CFS-101-006	7/9/2002	8,294	9,288	5.7	1.05	0.6	0.764	<130	34	1.9	11.5	12.9	USACE Split Sample; Surveyed depth 4.2 ft. below original grade.
CFS-101-007	7/9/2002	7,724	8,872	9.2	4.14	0.7	0.422	279	209	<b>8.7</b>	231	221	Surveyed depth 5.35 ft. below original grade.
CFS-101-008	7/9/2002	8,372	9,132	7.1	1.37	1.0	0.414	<130	49.3	4.0	32.6	24.7	NYSDEC and USACE Split; Surveyed depth 15.88 ft. below original grade.
CFS-101-009	7/9/2002	8,462	9,489	14.9	8.38	1.1	0.603	400	287	<b>8.2</b>	303	271	Surveyed depth 10.90 ft. below original grade.
CFS-101-010	7/9/2002	8,153	8,671	7.2	12.1	0.7	0.853	236	259	5.7	603	405	USACE Split Sample; Surveyed depth 15.30 ft. below original grade.
CFS-101-Dup	7/9/2002	8,799	9,483	19.0	24.6	1.0	0.586	NR	NR	7.4	667	644	Duplicate of CFS-101-001; Surveyed depth 2.58 ft. below original grade.
ANALYTICAL DATA SUMMARY													
Fidler Static Counts		8434						318.5	235.9	5.1	238.7	2071	Average values
44-10 Spa Static Counts			9176					550.0	706.0	8.7	630.0	623.0	Maximum Value
Uranium 238				10.0	8.8			197.0	34.0	1.5	4.2	3.1	Minimum Value
Thorium 232						1.0	0.7	132.8	205.5	2.4	233.4	202.6	Std Deviation
								264.0	230.0	4.8	251.5	223.5	Median Value
								1912	1912	7.4	1912	450	Cleanup Objectives
Notes													
1) Duplicate data was not used in averages													
2) Bold data indicates value above recommended soil cleanup goals.													
3) NR - Not Recorded													

Colonie FUSRAP Site, FSS Unit #102														
Table 12b in Appendix B of the Final Site Closeout Report														
Sample ID	Date Collected	FIDLER Static Count	44-10 Spa Static Counts	On-Site HPGe Uranium-238	Alpha Spec Uranium-238	On-Site HPGe Thorium-232	Alpha Spec Thorium-232	On-Site Metals (XRF)		Off-site TAL Metals			Notes	
		cpm	cpm	pCi/g	pCi/g	pCi/g	pCi/g	Copper	Lead	Arsenic	Copper	Lead		
								(ppm)	(ppm)	(ppm)	(ppm)	(ppm)		
CFS-102-001	7/9/2002	9,261	NA	4.5	0.569	1.0	0.382	248	133	4.0	26.8	14.0	NYDEC Split sample; Surveyed depth 13.7 ft. below original grade.	
CFS-102-002	7/9/2002	8,943	NA	7.4	1.2	0.9	0.375	246	150	2.5	691	208	Surveyed depth 7.25 ft. below original grade.	
CFS-102-003	7/9/2002	9,562	NA	9.5	2.83	1	0.544	615	<b>549</b>	4.5	1010	<b>544</b>	Surveyed depth 5.5 ft. below original grade.	
CFS-102-004	7/9/2002	9,287	NA	7.8	1.34	0.7	0.755	160	92.8	3.3	77.7	51.4	Surveyed depth 101 ft. below original grade.	
CFS-102-005	7/9/2002	8,027	NA	8.8	3.47	0.9	0.500	750	<b>552</b>	11.7	649	<b>490</b>	NYSDEC and USACE Split; Surveyed depth 4.05 ft. below original grade.	
CFS-102-006	7/9/2002	8,864	NA	5.0	1.27	0.7	0.792	196	108	2.4	126	61.3	Surveyed depth 8.62 ft. below original grade.	
CFS-102-007	7/9/2002	8,850	NA	5.1	1.23	0.7	0.711	150	59.2	2.9	39.6	271	Surveyed depth 6.87 ft. below original grade.	
CFS-102-008	7/9/2002	9,874	NA	4.7	0.929	0.8	0.966	150	49.8	4.9	56.7	30.5	Surveyed depth 6.94 ft. below original grade.	
CFS-102-009	7/9/2002	8,886	NA	4.6	1.47	0.9	0.451	190	195	3.2	150	106	CFS-102-Duplicate; Surveyed depth 12.62 ft. below original grade.	
CFS-102-010	7/9/2002	10,337	NA	5.5	0.720	1.2	0.961	140	67.2	5.3	52.7	28.2	Surveyed depth 8.2 ft. below original grade.	
CFS-102-Dup	7/9/2002	8,752	NA	5.3	1.55	0.9	0.288	271	186	3.8	233	160	Duplicate of CFS-102-009; Surveyed depth 12.62 ft. below original grade.	
ANALYTICAL DATA SUMMARY														
FIDLER Static Counts		9189						284.5	195.6	4.5	288.0	156.1	Average values	
44-10 Spa 3 Static Counts			NA					750.0	552.0	11.7	1,010.0	544.0	Maximum Value	
Uranium - 238				6.3	1.503			140.0	49.8	2.4	26.8	14.0	Minimum Value	
Thorium - 232						0.880	0.644	215.5	192.2	2.7	356.3	198.9	Std Deviation	
						<b>0.9</b>	<b>STNDEV</b>	<b>0.2</b>	193.0	120.5	3.7	101.9	56.4	Median Value
								1912	450	7.4	1912	450	AM Criteria	
Notes														
1) Duplicate data was not used in averages.														
2) Bold data indicates value above recommended soil cleanup goals.														
3) Data from 5 USACE and 2 NYSDEC split samples are not yet available.														

# Colonie, New York, Site Certification Data Summary Worksheet

Colonie FUSRAP Site, FSS Unit #103														
Table 12c in Appendix B of the Final Site Closeout Report														
Sample ID	Date Collected	"FIDLER Static Count"	"44-10 Spa Static Counts"	On-Site HPGe U-238	Off-site Alpha Spec U-238	On-Site HPGe Th-232	Off-site Alpha Spec Th-232	On-Site Metals (XRF)		Off-site TAL Metals			Notes	
								Copper	Lead	Arsenic	Copper	Lead		
		cpm	cpm	pCi/g	pCi/g	pCi/g	pCi/g	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)		
CFS-103-001	8/20/2002	8,882	NA	8.5	0.569	0.7	0.714	140	52.3	4.4	77.7	42.8	Surveyed depth 9.65 ft. below original grade.	
CFS-103-002	8/20/2002	9,400	NA	7.1	0.788	1.0	0.807	140	33	6.9	19.5	6.3	Surveyed depth 9.88 ft. below original grade.	
CFS-103-003	8/20/2002	11,089	NA	26.8	24	1.0	0.682	140	64.5	4.3	68.4	30.2	Surveyed depth 7.96 ft. below original grade.	
CFS-103-004	8/20/2002	9,584	NA	6.3	1.08	1.1	0.629	150	50.2	6.0	52.5	31.1	Surveyed depth 7.86 ft. below original grade.	
CFS-103-005	8/20/2002	8,543	NA	9.5	1.57	0.8	0.353	120	<29	2.2	6.2	3.0	Surveyed depth 3.09 ft. below original grade.	
CFS-103-006	8/20/2002	9,586	NA	7.3	0.733	0.7	0.522	217	221	3.8	396	238	NYSDEC split sample; Blind Duplicate (CFS-103-Duplicate); Surveyed depth 10.6 ft. below original grade.	
CFS-103-007	8/20/2002	9,039	NA	8.4	1.2	0.8	0.545	160	83.2	4.1	186	89.9	Surveyed depth 11.35 ft. below original grade.	
CFS-103-008	8/20/2002	8,525	NA	5.1	0.5	0.9	0.35	130	30	4.4	16.3	5.2	USACE split sample	
CFS-103-009	8/20/2002	8,234	NA	6.7	3.09	1.1	0.583	1410	<b>1320</b>	5.2	<b>3340</b>	<b>1310</b>	NYSDEC split sample; Additional excavation completed and location resampled; Surveyed depth 5.2 ft. below original grade.	
CFS-103-009R	8/28/2002		NA	3.6	0.706	0.8	0.331	<150	53	2.6	207	74.7	Resample from CFS-103-009 after excavation; Surveyed depth 6.8 ft. below original grade.	
CFS-103-010	8/20/2002	9,326	NA	5.8	1.1	0.8	0.637	150	55.6	5.5	34.9	16.4	Surveyed depth 4.25 ft. below original grade.	
CFS-103-Dup	8/20/2002		NA	6.0	1.05	1.1	0.503			4.3	358	186	Duplicate of CFS-103-006; Surveyed depth 10.6 ft. below original grade.	
DATA SUMMARY / AVERAGE VALUES														
FIDLER Static Counts		9330						149.7	71.4	4.4	106.5	53.8	Average values	
44-10 Spa Static Counts			NA					217.0	221.0	6.9	396.0	238.0	Maximum Value	
Uranium 238				8.84	3.22			120.0	30.0	2.2	6.2	3.0	Minimum Value	
Thorium 232						0.86	0.56	27.8	58.3	1.4	123.1	71.1	Std Deviation	
						<b>7.3</b>	<b>stndev</b>	<b>0.2</b>	140.0	53.0	4.4	60.5	30.7	Median Value
								1912	450	7.4	1912	450	AM Criteria	
Notes														
1) Duplicate data was not used in averages; samples taken 20 August 02.														
2) Bold data indicates individual value above recommended soil cleanup goals; see notes column.														
3) Data from USACE and NYSDEC split samples are not yet available.														
4) Sodium Iodide 2'2 not applicable to this unit; no historical Thorium observed in this Unit.														
5) CFS location 009 was re-excavated and re-sampled on 22 August 02.														
6) Resampling results are calculated in the above averages.														

Colonie FUSRAP Site, FSS Unit #104														
Table 12d in Appendix B of the Final Site Closeout Report														
Sample ID	Date Collected	"FIDLER Static Count"	"44-10 Spa Static Counts"	On-Site HPGe U-238	Off-site Alpha Spec U-238	On-Site HPGe Th-232	Off-site Alpha Spec Th-232	On-Site Metals (XRF)		Off-site TAL Metals			Notes	
								Copper	Lead	Arsenic	Copper	Lead		
		cpm	cpm	pCi/g	pCi/g	pCi/g	pCi/g	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)		
CFS-104-001	9/4/2002	8,835	9,105	8.2	3.78	0.6	0.911	<130	82.4	2.5	277	48.3	NYSDEC QA split sample; Surveyed depth 2.55 ft. below original	
CFS-104-002	9/4/2002	9,761	9,724	23.1	31.2	0.9	0.549	274	254	<b>85.4</b>	234	232	Surveyed depth 1.82 ft. below original grade.	
CFS-104-003	9/4/2002	8,602	8,791	5.9	2.95	0.8	0.766	<140	91.1	2.1	32.3	16.2	Surveyed depth 2.3 ft. below original grade.	
CFS-104-004	9/4/2002	8,603	8,855	6.6	4.35	0.6	0.508	<140	87.1	2.3	57.1	46.5	Surveyed depth 2.1 ft. below original grade.	
CFS-104-005	9/4/2002	8,357	8,470	6.0	5.14	0.6	0.498	<140	71	1.7	41.7	22.6	Surveyed depth 2.4 ft. below original grade.	
CFS-104-006	9/4/2002	8,821	8,932	5.1	7.99	0.7	0.068	<150	43	2.3	48.6	79	Surveyed depth 2.59 ft. below original grade.	
CFS-104-007	9/4/2002	8,654	9,018	8.1	11.6	0.4	0.987	168	203	2.2	199	148	NYSDEC QA split sample; Surveyed depth 7.95 ft. below original	
CFS-104-008	9/4/2002	8,333	8,543	8.0	6.54	0.6	0.664	308	310	2.6	248	180	USACE QA split sample; Surveyed depth 12.67 ft. below original	
CFS-104-009	9/4/2002	7,388	7,309	10.7	11.4	0.9	0.655	<b>10200</b>	<b>8170</b>	<b>243</b>	<b>6490</b>	<b>5270</b>	Surveyed depth 13.3 ft. below original grade.	
CFS-104-Dup	9/4/2002	8,763	8,966	11.0	12.0	0.9	0.7	<b>9520</b>	<b>8540</b>	<b>241</b>	<b>5630</b>	<b>4470</b>	Duplicate of CFS-104-009	
DATA SUMMARY														
FIDLER Static Counts		8612						250.0	1785.2	58.5	1300.8	1051.3	Average values	
44-10 Spa 3 Static Counts			8771					10200.0	8540.0	243.0	6490.0	5270.0	Maximum Value	
Uranium - 238				9.08	9.44			168.0	43.0	1.7	27.7	16.2	Minimum Value	
Thorium - 232						0.68	0.62	73.0	98.9	100.1	2517.9	2022.7	Std Deviation	
						<b>9.3</b>	<b>stndev</b>	<b>0.3</b>	274.0	89.1	2.3	52.9	63.7	Median Value
								1912	450	7.4	1912	450	AM Criteria	
Notes														
1) Duplicate data was not used in averages.														
2) Bold data indicates individual sample/value above recommended soil cleanup goals; see notes column.														
3) Data from USACE and NYSDEC split samples are not yet available.														
4) Action Memo inorganics criteria do not apply at depths below nine feet from original grade.														
5) Individual and Average values of the On-Site data for samples above nine ft level is fully compliant.														

# Colonie, New York, Site Certification Data Summary Worksheet

Colonie FUSRAP Site, FSS Unit #105													
Table 12e in Appendix B of the Final Site Closeout Report													
Sample ID	Date Collected	"FIDLER Static Count"	"44-10 Spa Static Counts"	On-Site HPGe U-238	Off-Site Alpha Spec U-238	On-Site HPGe Th-232	Off-Site Alpha Spec Th-232	On-Site Metals (XRF)		Off-site TAL Metals			Notes
		cpm	cpm	pCi/g	pCi/g	pCi/g	pCi/g	Copper (ppm)	Lead (ppm)	Arsenic (ppm)	Copper (ppm)	Lead (ppm)	
CFS-105-001	9/10/2002	4,601	5,982	9.5	1.65	0.9	0.559	<b>87,400</b>	<b>59,000</b>	<b>18.1</b>	<b>46000</b>	<b>41300</b>	Surveyed depth 11.75 ft. below original grade.
CFS-105-001R	9/13/2002	7,425	7,596	4.8	2.48	0.7	0.429	1,630	<b>1,160</b>	6.1	<b>2060</b>	<b>1780</b>	Surveyed depth 13.35 ft. below original grade after re-excavation per USACE direction.
CFS-105-002	9/10/2002	7,908	8,397	6.4	3.44	1.4	0.225	506	291	2.1	157	121	Surveyed depth 10.52 ft. below original grade.
CFS-105-003	9/10/2002	7,996	8,434	9.5	3.35	0.6	0.31	234	122	2.7	167	105	CFS-105-Duplicate; Surveyed depth 5.4 ft. below original grade.
CFS-105-004	9/10/2002	8,701	8,755	8.5	2.82	1.2	0.281	181	137	2.3	137	79.7	USACE QA Split Sample; Surveyed depth 3.2 ft. below original grade.
CFS-105-005	9/10/2002	8,796	8,964	7.6	3.15	0.6	0.346	<140	891	2.2	103	38.9	Surveyed depth 2.65 ft. below original grade.
CFS-105-006	9/10/2002	7,458	NA	5.8	0.687	0.9	0.284	<130	<31	2.4	13.5	6.2	Surveyed depth 2.72 ft. below original grade.
CFS-105-007	9/10/2002	7,672	NA	7.2	2.39	0.6	0.37	<140	59.2	2.6	43.6	27	NYSDEC QA split sample; Surveyed depth 2.58 ft. below original grade.
CFS-105-008	9/10/2002	10,673	NA	28.5	30.2	0.9	0.255	784	<b>474</b>	7.3	631	420	Surveyed depth 2.6 ft. below original grade.
CFS-105-009	9/10/2002	7,800	NA	9.6	1.18	0.8	0.275	<130	<34	2.4	20.5	11.1	Surveyed depth 2.4 ft. below original grade.
CFS-105-Dup	9/10/2002	4,556	6,019	8.8	2.3	1.1	0.234	321	197	2.4	128	108	Duplicate of CFS-105-003
DATA SUMMARY													
FIDLER Static Counts		8270						667.0	333.2	3.3	370.3	2877	Average values
44-10 Spa 3 Static Counts			8429					1630.0	1160.0	7.3	2060.0	1780.0	Maximum Value
Uranium - 238				9.77	5.52			181.0	59.2	2.1	13.5	6.2	Minimum Value
Thorium - 232						0.86	0.31	589.6	392.2	1.9	660.7	573.9	Std Deviation
								506.0	137.0	2.4	137.0	79.7	Median Value
								1912	450	7.4	1912	450	AM Criteria
Notes													
1) Statistical information excludes data from CFS-105-Duplicate and CFS-105-001.													
2) Bold data indicates individual value above recommended soil cleanup goals; see notes column.													
3) Data from USACE and NYSDEC split samples are not yet available.													
4) Sodium Iodide 2*2 applicable below NI600; no historical Thorium observed above this Northing.													

Colonie FUSRAP Site, FSS Unit #106													
Table 12f in Appendix B of the Final Site Closeout Report													
Sample ID	Date Collected	"FIDLER Static Count"	"Spa 3 2*2 Static Count"	On-Site HPGe Result U-238	Off-Site Alpha Result Th-232	On-Site Alpha Spec U-238	Off-Site Alpha Spec Th-232	On-Site Metals (XRF)		Off-site TAL Metals			Notes
		cpm	cpm	pCi/g	pCi/g	pCi/g	pCi/g	Copper (ppm)	Lead (ppm)	Arsenic (ppm)	Copper (ppm)	Lead (ppm)	
CFS-106-001	9/20/2002	4,823	NA this unit	6.3	0.8	1.77	0.564	<b>37,600</b>	<b>28,500</b>	<b>9.1</b>	<b>58,000</b>	<b>6,100</b>	Depth below orig. grade = 11.5'
CFS-106-001 R	9/26/2002	6,854	NA this unit	7.1	0.7			<b>2,690</b>	<b>1,280</b>	3.3	1,340	<b>1,430</b>	NYSDEC QA Split; Depth below orig. grade = 12.5'
CFS-106-002	9/20/2002	7,848	NA this unit	14.5	0.8	21	0.982	<b>9,280</b>	<b>8,170</b>	4.9	<b>6,370</b>	<b>510</b>	Depth below orig. grade = 12.3'; USACE QA Split
CFS-106-002 R	9/26/2002	6,879	NA this unit	12.7	1.0			<b>1,930</b>	227	6.4	132	94.9	NYSDEC Split; Depth below orig. grade = 14.0'
CFS-106-003	9/20/2002	4,619	NA this unit	5.3	0.6	2.01	0.65	<b>46,900</b>	<b>32,100</b>	<b>12.1</b>	<b>33,200</b>	<b>6,470</b>	Depth below orig. grade = 14.0'
CFS-106-003 R	9/26/2002	6,356	NA this unit	7.8	0.8			<b>11,200</b>	<b>5,980</b>	3.8	<b>5,840</b>	<b>5,440</b>	USACE and NYSDEC Split; Depth below orig. grade = 14.0'
CFS-106-004	9/20/2002	8,092	NA this unit	7.4	0.5	3.52	0.728	534	216	1.1	45.3	41.3	Depth below orig. grade = 10.5'; NYSDEC QA Split
CFS-106-004 R	9/26/2002	7,870	NA this unit	6.8	0.6			<b>3,780</b>	<120	5.6	54.7	41.1	Depth below orig. grade = 12.1'
CFS-106-005	9/20/2002	7,727	NA this unit	9.5	0.8	20.4	0.863	<b>2,210</b>	<b>1,800</b>	3.4	<b>3,190</b>	<b>4,600</b>	Depth below orig. grade = 10.8'
CFS-106-005 R	9/26/2002	7,889	NA this unit	5.0	1.1			313	189	1.6	12.9	19.6	Depth below orig. grade = 12.2'
CFS-106-006	9/20/2002	9,628	NA this unit	10.6	1.1	14.4	0.827	639	<b>586</b>	3.6	833	<b>491</b>	Depth below orig. grade = 8.0'
CFS-106-006 R	9/26/2002	8,240	NA this unit	6.5	1.0			<240	129	2.7	66.2	59.3	Depth below orig. grade = 8.2'
CFS-106-007	9/20/2002	9,056	NA this unit	11.1	0.8	17.5	0.776	962	<b>862</b>	1.7	772	<b>597</b>	"Depth below orig. grade = 8.1' NYSDEC QA Split"
CFS-106-007 R	9/26/2002	7,876	NA this unit	6.5	0.7			<230	<88	2.5	14.0	5.5	Depth below orig. grade = 9.1'
CFS-106-008	9/20/2002	9,603	NA this unit	15.2	0.6	25.6	0.566	325	144	2.3	63.7	61.3	Depth below orig. grade = 4.1'
CFS-106-009	9/20/2002	9,238	NA this unit	9.6	0.6	16.9	0.723	249	164	1.4	100	81.5	Depth below orig. grade = 3.3'
CFS-106-010	9/20/2002	9,728	NA this unit	14.3	1.0	<b>38.8</b>	0.852	394	268	2.3	338	231	Depth below orig. grade = 4.3'
CFS-106-Dup (010)	9/20/2002	9,575	NA this unit	NA	NA	<b>40.4</b>	0.95	375	321	2.1	250	203	Duplicate of CFS-106-010; Depth below orig. grade = 4.3'
DATA SUMMARY													
Average values				9.19	0.79	16.19	0.75	7,934	5,374	4	6,492	1,546	Average values
Maximum Value				15.20	1.10	38.80	0.98	46,900	32,100	12	58,000	6,470	Maximum Value
Minimum Value				5.00	0.50	1.77	0.56	249	129	1	13	6	Minimum Value
Std Deviation				3.35	0.19	11.62	0.13	14,425	10,413	3	15,487	2,401	Std Deviation
Median Value				7.80	0.80	17.20	0.75	1,930	586	3	338	231	Median Value
AM Criteria				<35	<2.8	<35	<2.8	1,912	450	450	450	450	AM Criteria
Notes													
1) Duplicate data was not used in averages.													
2) Bold data indicates individual value above recommended soil cleanup goals; see notes column.													
3) Data from USACE and NYSDEC split samples are not yet available.													
4) No historical Thorium observed in this unit.													

# Colonie, New York, Site Certification Data Summary Worksheet

Colonie FUSRAP Site, FSS Unit #107													
Table 12g in Appendix B of the Final Site Closeout Report													
Sample ID	Date Collected	FIDLER Static Count	Spa 3 2*2 Static Count	On-Site HPGe Result U-238	On-Site HPGe Result Th-232	Off-site Alpha Spec U-238	Off-Site Alpha Spec Th-232	On-Site Metals (XRF)		Off-site TAL Metals			Notes
		cpm	cpm	pCi/g	pCi/g	pCi/g	pCi/g	Copper	Lead	Arsenic	Copper	Lead	
								(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	
CFS-107-001	10/29/2002	8,357	N/A	6.9	0.9	0.614	0.574	<160	156	5.7	122	115	Surveyed depth 13.3 ft. below original grade.
CFS-107-002	10/29/2002	7,732	N/A	6.6	1.7	0.264	0.583	<120	66	1.7	33.9	18.5	Surveyed depth 9.48 ft. below original grade.
CFS-107-003	10/29/2002	10,771	N/A	7.7	1.1	2.29	0.462	273	228	5.7	144	106	USACE Split Sample; Surveyed depth 8.19 ft. below original grade.
CFS-107-004	10/29/2002	10,478	N/A	7.0	1.0	0.469	0.385	<160	<45	5.2	47.7	23.5	Surveyed depth 7.91 ft. below original grade.
CFS-107-005	10/29/2002	8,229	N/A	5.7	1.0	0.58	0.276	1,560	<b>1,340</b>	5.0	<b>2,820</b>	<b>1,920</b>	Re-excavated and re-sampled on 11/11/02; Surveyed depth 7.14 ft. below original grade.
CFS-107-005R	11/11/2002	9,644	NA this unit	4.8	0.7	0.541	0.488	<160	50	3.5	10.2	6.9	Resample of CFS-107-005.
CFS-107-006	10/29/2002	9,949	N/A	5.5	1.0	1.21	0.57	<140	56	4.9	44	20.5	Surveyed depth 13.49 ft. below original grade.
CFS-107-007	10/29/2002	9,346	N/A	6.8	1.0	1.94	0.418	838	<b>682</b>	6.3	705	280	Surveyed depth 6.30 ft. below original grade.
CFS-107-008	10/29/2002	8,986	N/A	14.1	0.8	11.2	0.437	<180	199	4.1	154	107	Surveyed depth 1.47 ft. below original grade.
CFS-107-009	10/29/2002	8,497	N/A	8.5	0.7	2.84	0.367	<150	174	3.0	634	<b>463</b>	NYSDEC Split Sample; Surveyed depth 6.92 ft. below original grade.
CFS-107-010	10/29/2002	9,918	N/A	13.7	0.8	6.54	0.669	599	<b>462</b>	<b>15.3</b>	584	354	NYSDEC Split Sample; Surveyed depth 1.42 ft. below original grade.
CFS-107-Dup	10/29/2002	8,299	N/A	5.6	1.2	0.67	0.413	<150	<41	5.2	47.9	20.7	Duplicate of sample CFS-107-006; Surveyed depth 13.49 ft. below original grade.
DATA SUMMARY													
		Average values		7.94	0.97	2.59	0.48	818	341	5	482	310	
		Maximum Value		14.10	1.70	11.20	0.67	1,560	1,340	15	2,820	1,920	
		Minimum Value		4.80	0.70	0.26	0.28	273	50	2	10	7	
		Std Deviation		3.12	0.28	3.38	0.12	546	404	4	819	555	
		Median Value		6.90	1.00	1.21	0.46	719	187	5	144	107	
		AM Criteria		<35	<2.8	<35	<2.8	1,912	450	7.4	1,912	450	
Notes													
1) Duplicate data was not used in averages.													
2) Bold data indicates individual value above recommended soil cleanup goals; see notes column.													
3) Data from USACE and NYSDEC split samples are not yet available.													
4) No historical Thorium observed in this unit.													

Colonie FUSRAP Site, FSS Unit #108													
Table 12h in Appendix B of the Final Site Closeout Report													
Sample ID	Date Collected	"FIDLER Static Count"	"Spa 3 2*2 Static Count"	On-Site HPGe Result U-238	On-Site HPGe Result Th-232	Off-site Alpha Spec U-238	Off-Site Alpha Spec Th-232	On-Site Metals (XRF)		Off-site TAL Metals			Notes
		cpm	cpm	pCi/g	pCi/g	pCi/g	pCi/g	Copper	Lead	Arsenic	Copper	Lead	
								(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	
CFS-108-001	11/14/2002	7,444	NA	6.1	0.8	1.35	0.27	110	137	2.0	249	233	Surveyed depth below grade 8.8 ft.
CFS-108-002	11/14/2002	8,334	NA	10.2	0.5	4.70	0.21	150	140	2.7	185	152	Surveyed depth below grade 14.3 ft.
CFS-108-003	11/14/2002	7,247	NA	4.6	0.7	0.38	0.22	150	38	3.4	12.5	15.0	Surveyed depth below grade 11.0 ft.
CFS-108-004	11/14/2002	7,858	NA	4.8	1.2	0.69	0.36	150	245	2.9	225	219	Surveyed depth below grade 11.3 ft.
CFS-108-005	11/14/2002	6,291	NA	5.2	0.6	0.52	0.26	<b>10,600</b>	<b>12,300</b>	<b>9.3</b>	<b>7,910</b>	<b>8,020</b>	USACE QA Split Sample; NYSDEC QA Split Sample; Surveyed depth below grade 17.0 ft.
CFS-108-006	11/14/2002	7,582	NA	5.4	0.7	0.26	0.22	213	262	2.8	219	174	Surveyed depth below grade 12.4 ft.
CFS-108-007	11/14/2002	8,268	NA	9.0	0.9	4.40	0.18	140	36	1.6	13.7	6.0	CFS-108-Duplicate; Surveyed depth below grade 6.5 ft.
CFS-108-008	11/14/2002	9,222	NA	18.4	0.6	24.30	0.12	194	250	1.8	236	191	NYSDEC QA Split Sample; Surveyed depth below grade 4.8 ft.
CFS-108-009	11/14/2002	8,075	NA	7.7	0.6	0.52	0.14	150	56.6	2.0	34.4	25.6	Surveyed depth below grade 9.3 ft.
CFS-108-010	11/14/2002	8,523	NA	6.8	1.1	2.40	0.18	140	47.4	1.9	31.6	171	Surveyed depth below grade 3.6 ft.
CFS-108-Dup	11/14/2002	7,569	NA	8.0	0.8	1.13	0.24	130	50.5	2.1	14.2	6.3	CFS-108-007; Surveyed depth below grade 6.5 ft.
DATA SUMMARY													
		Average values		7.82	0.77	3.95	0.22	1199.7	1351.2	3.0	911.6	905.3	
		Maximum Value		18.40	1.20	24.30	0.36	10600.0	12300.0	9.3	7910.0	8020.0	
		Minimum Value		4.60	0.50	0.26	0.12	110.0	36.0	1.6	12.5	6.0	
		Std Deviation		4.15	0.23	7.34	0.07	3303.1	3848.1	2.3	2461.0	2501.5	
		Median Value		6.45	0.70	1.02	0.21	150.0	138.5	2.4	202.0	163.0	
		AM Criteria		<35	<2.8	<35	<2.8	1912	450	7.4	1912	450	
Notes													
1) Duplicate data was not used in averages.													
2) Bold data indicates individual value above recommended soil cleanup goals; see notes column.													
3) Data from USACE and NYSDEC split samples are not yet available.													
4) No historical Thorium observed in this unit.													

# Colonie, New York, Site Certification Data Summary Worksheet

Colonie FUSRAP Site, FSS Unit #109														
Table 12i in Appendix B of the Final Site Closeout Report														
Sample ID	Date Collected	FIDLER Static Count	Spa 3 2*2 Static Count	On-Site HPGe Result U-238	On-Site HPGe Result Th-232	Off-site Alpha Spec U-238	Off-Site Alpha Spec Th-232	On-Site Metals (XRF)		Off-site TAL Metals			Notes	
		cpm	cpm	pCi/g	pCi/g	pCi/g	pCi/g	Copper (ppm)	Lead (ppm)	Arsenic (ppm)	Copper (ppm)	Lead (ppm)		
CFS-109-001	8/13/2003	8,622	N/A	6.2	1.1	0.86	0.09	<190	66	1.4	94	70	Elev.~220.6; Depth = 6.3'	
CFS-109-002	8/13/2003	8,186	N/A	5.3	0.5	1.7	0.07	<160	<40	1.2	8.2	3.6	Elev.~220.4; Depth = 5.6'	
CFS-109-003	8/13/2003	9,736	N/A	9.5	1.7	2.35	0.11	366	347	3.5	356	264	Elev.~217.5; Depth = 8.6'; USACE Split	
CFS-109-004	8/13/2003	10,665	N/A	12.2	1.2	7.72	0.06	<140	89	3.4	319	254	Elev.~212.4; Depth = 16.3'; NYSDEC Split	
CFS-109-005	8/13/2003	8,740	N/A	6.0	1.0	0.96	0.02	<160	<37	2.4	34	21	Elev.~213.0; Depth = 14.8'	
CFS-109-006	8/13/2003	4,965	N/A	8.9	0.9	0.38	0.20	<b>18,900</b>	<b>21,300</b>	7.3	<b>23,400</b>	<b>23,000</b>	Elev.~212.4; Depth = 14.2'	
CFS-109-007	8/13/2003	10,671	N/A	6.8	1.2	0.65	0.18	1,770	<b>1,640</b>	6.4	<b>2,410</b>	<b>1,260</b>	Elev.~215.1; Depth = 8.6'	
CFS-109-007R	8/20/2003	9,780	N/A	5.8	1.0	0.23	0.05	<180	<36	4.1	43.8	40.7	Elev.~216.2; Depth = 13.7'	
CFS-109-008	8/13/2003	8,955	N/A	6.8	0.8	1.1	0.14	<150	103	2.1	163	88	Elev.~218.3; Depth = 8.3'; USACE Split	
CFS-109-009	8/13/2003	9,744	N/A	17.8	1.4	16.9	0.22	659	606	<b>10.5</b>	895	630	Elev.~221.0; Depth = 2.4'; NYSDEC Split	
CFS-109-010	8/13/2003	9,396	N/A	7.4	1.2	5.7	0.16	<140	<36	2.6	125	84	Elev.~215.3; Depth = 8.2'	
CFS-109-Dup	8/13/2003	5,022	N/A	5.6	0.7	1.25	0.29	<b>29,400</b>	<b>32,500</b>	7.7	<b>25,400</b>	<b>22,200</b>	Duplicate of CFS-109-006	
DATA SUMMARY														
				Average values	8.59	1.08	3.79	0.11	< 2,264	< 2,426	3.9	2,544	2,445	
				Maximum Value	17.8	1.7	16.9	0.22	18,900	21,300	11	23,400	23,000	
				Minimum Value	5.30	0.50	0.23	0.02	< 140	< 36	1.2	8.2	3.6	
				Std Deviation	3.86	0.33	5.22	0.07	10,617	8,599	2.9	7,333	7,225	
				Median Value	7.10	1.05	1.41	0.10	659	225	3.0	144	86	
				AM Criteria	<35	<2.8	<35	<2.8	1912	450	7.4	1912	450	
Notes														
1) Duplicate data and original 007 sample were not used in averages.														
2) Bold data indicates individual value above recommended soil cleanup goals; see notes column.														
3) Data from USACE and NYSDEC split samples are not yet available.														

Colonie FUSRAP Site, FSS Unit #111														
Table 12k in Appendix B of the Final Site Closeout Report														
Sample ID	Date Collected	"FIDLER Static Count"	Spa 3 2*2 Static Count	On-Site HPGe Result U-238	On-Site HPGe Result Th-232	Off-site Alpha Spec U-238	Off-Site Alpha Spec Th-232	On-Site Metals (XRF)		Off-site TAL Metals			Notes	
		cpm	cpm	pCi/g	pCi/g	pCi/g	pCi/g	Copper (ppm)	Lead (ppm)	Arsenic (ppm)	Copper (ppm)	Lead (ppm)		
CFS-111-001	7/17/2003	7,028	N/A	7.8	1.6	0.556	0.130	<150	38	2.4	9.7	5.3		
CFS-111-002	7/17/2003	7,959	N/A	12.2	0.9	6.340	0.059	449	85	3.3	81	63		
CFS-111-003	7/17/2003	7,544	N/A	9.6	0.8	2.120	0.082	<160	343	4.7	496	369		
CFS-111-004	7/17/2003	6,945	N/A	6.5	0.8	0.317	0.135	<130	<40	2.2	9.1	7.1	USACE split	
CFS-111-005	7/17/2003	6,907	N/A	7.6	0.7	0.189	0.042	<270	<34	1.4	4.9	7.4		
CFS-111-006	7/17/2003	6,840	N/A	5.6	0.5	0.289	0.094	<140	<36	2.5	6.7	2.7		
CFS-111-007	7/17/2003	6,937	N/A	5.9	0.5	0.204	0.031	<140	<36	2.0	6.0	4.5	NYSDEC split	
CFS-111-008	7/17/2003	7,080	N/A	3.8	0.4	0.707	0.036	<140	<36	2.0	6.0	5.3	USACE split	
CFS-111-009	7/17/2003	6,419	N/A	6.3	0.7	0.152	0.059	<120	<29	1.3	5.6	2.6	NYSDEC split	
CFS-111-010	7/17/2003	6,761	N/A	8.3	0.5	0.139	0.059	<130	<32	1.8	10	3.3		
CFS-111-011	7/17/2003	7,384	N/A	6.6	0.6	2.390	0.035	<150	49	1.7	42	35		
CFS-111-012	7/17/2003	7,064	N/A	10.8	0.6	0.693	0.075	<130	<35	1.4	9.3	4.1		
CFS-111-DUP	7/17/2003	6,861	N/A	6.0	0.8	0.236	0.055	<140	<48	1.4	6.0	7.9	Duplicate of CFS-111-005	
DATA SUMMARY														
				Average values	7.6	0.7	1.102	0.069	< 176	< 66	2.2	57	42	Average values
				Maximum Value	12.2	1.6	6.3	0.14	449	343	4.7	496	369	Maximum Value
				Minimum Value	3.8	0.4	0.1	0.03	< 130	< 29	1.3	5	3	Minimum Value
				Std Deviation	2.4	0.3	1.7	0.03	#DIV/0!	144	1.0	140	104	Std Deviation
				Median Value	7.1	0.7	0.4	0.06	449	67	2.0	9	5	Median Value
				AM Criteria	<35	<2.8	<35	<2.8	1,912	450	7.4	1,912	450	AM Criteria
Notes														
1) Duplicate data was not used in averages.														
2) Bold data indicates individual value above recommended soil cleanup goals; see notes column.														
3) Data from USACE and NYSDEC split samples are not yet available.														
4) No historical Thorium observed in this unit.														
5) The USACE Splits were from CFS-111-004 and CFS-111-008.														
6) The NYSDEC Splits were from CFS-111-007 and CFS-111-009.														



# Colonie, New York, Site Certification Data Summary Worksheet

**Colonie FUSRAP Site, FSS Unit #112**

**Table 12l in Appendix B of the Final Site Closeout Report**

Sample ID	Date Collected	FIDLER Static Count	Spa 3 2"2 Static Count	On-Site HPGe Result U-238	On-Site HPGe Result Th-232	Off-site Alpha Spec U-238	Off-Site Alpha Spec Th-232	On-Site Metals (XRF)		Off-site TAL Metals			Notes
								Copper	Lead	Arsenic	Copper	Lead	
								<i>cpm</i>	<i>cpm</i>	<i>pCi/g</i>	<i>pCi/g</i>	<i>pCi/g</i>	
CFS-112-001	9/16/2003	6,727	N/A	7.1	0.7	0.11	0.088	435	<64	0.4	9.7	4.6	
CFS-112-002	9/16/2003	7,044	N/A	6.4	0.9	0.32	0.025	334	<48	1.3	14	11	
CFS-112-003	9/16/2003	7,368	N/A	8.1	0.7	0.59	0.11	318	77	1.2	227	177	USACE split
CFS-112-004	9/16/2003	6,988	N/A	5.3	0.7	0.35	0.070	<280	<78	1.3	21	15	
CFS-112-005	9/16/2003	7,556	N/A	5.4	0.8	0.23	0.019	732	<57	1.7	2.8	3.3	NYSDEC split
CFS-112-006	9/16/2003	7,440	N/A	5.5	0.8	0.23	0.053	315	<51	1.5	9.3	5.3	USACE split
CFS-112-007	9/16/2003	7,064	N/A	4.6	0.6	0.44	0.15	222	<48	1.1	26	14	NYSDEC split
CFS-112-008	9/16/2003	7,204	N/A	6.6	1.6	1.88	0.032	192	56	1.5	37	18	
CFS-112-009	9/16/2003	7,226	N/A	7.7	1.0	1.92	0.12	271	285	1.4	361	241	
CFS-112-DUP	9/16/2003	6,579	N/A	7.3	0.8	0.70	0.039	<190	<45	0.9	28	28	Duplicate of CFS-112-007
<b>DATA SUMMARY</b>													
		<i>Average values</i>		6.3	0.9	0.68	0.071	< 344	< 85	1.3	79	54	<i>Average values</i>
		<i>Maximum Value</i>		8.1	1.6	1.92	0.15	732	285	1.7	361	241	<i>Maximum Value</i>
		<i>Minimum Value</i>		4.6	0.6	0.11	0.019	192	< 48	0.4	3	3	<i>Minimum Value</i>
		<i>Std Deviation</i>		1.2	0.3	0.67	0.046	170	127	0.4	127	89	<i>Std Deviation</i>
		<i>Median Value</i>		6.4	0.8	0.35	0.070	317	77	1.3	21	14	<i>Median Value</i>
		<i>AM Criteria</i>		<35	<2.8	<35	<2.8	1,912	450	7.4	1,912	450	<i>AM Criteria</i>

- Notes**
- 1) Duplicate data was not used in averages.
  - 2) Bold data indicates individual value above recommended soil cleanup goals; see notes column.
  - 3) Data from USACE and NYSDEC split samples are not yet available.
  - 4) No historical Thorium observed in this unit.
  - 5) The USACE Splits were from CFS-112-003 and CFS-112-006.
  - 6) The NYSDEC Splits were from CFS-112-005 and CFS-112-007.

**Colonie FUSRAP Site, FSS Unit #113**

**Table 12m in Appendix B of the Final Site Closeout Report**

Sample ID	Date Collected	FIDLER Static Count	Spa 3 2"2 Static Count	On-Site HPGe Result U-238	On-Site HPGe Result Th-232	Off-site Alpha Spec U-238	Off-Site Alpha Spec Th-232	On-Site Metals (XRF)		Off-site TAL Metals			Notes
								Copper	Lead	Arsenic	Copper	Lead	
								<i>cpm</i>	<i>cpm</i>	<i>pCi/g</i>	<i>pCi/g</i>	<i>pCi/g</i>	
CFS-113-001	10/23/2003	7,073	N/A	5.5	0.8	0.23	0.13	< 140	< 37	2.0	32	37	
CFS-113-002	10/23/2003	7,729	N/A	7.7	1.2	0.66	0.26	< 210	145	2.5	233	156	NYSDEC split
CFS-113-003	10/23/2003	6,815	N/A	9.3	1.1	0.57	0.11	285	170	2.6	161	216	
CFS-113-004	10/23/2003	7,658	N/A	6.7	0.8	0.43	0.12	192	56	3.2	66	67	USACE split
CFS-113-005	10/23/2003	6,420	N/A	9.0	1.0	0.23	0.13	< 150	< 38	1.7	1.3	4.5	
CFS-113-006	10/23/2003	8,578	N/A	7.9	1.2	0.29	0.10	204	59	5.2	85	76	
CFS-113-007	10/23/2003	7,849	N/A	6.0	1.0	0.20	0.18	< 180	< 42	4.4	12	16	USACE split
CFS-113-008	10/23/2003	6,820	N/A	5.1	1.3	0.38	0.075	< 150	< 39	3.1	108	181	
CFS-113-009	10/23/2003	7,815	N/A	10.0	1.7	3.41	0.17	< 140	< 38	2.3	16	12	
CFS-113-010	10/23/2003	7,131	N/A	7.7	0.6	0.14	0.13	< 160	< 37	1.3	5.8	10	NYSDEC split
CFS-113-DUP	10/23/2003	7,842	N/A	5.8	0.7	0.37	0.21	311	150	2.6	156	158	Duplicate of CFS-113-002
<b>DATA SUMMARY</b>													
		<i>Average values</i>		7.5	1.1	0.65	0.141	< 181	< 66.1	2.8	72	78	<i>Average values</i>
		<i>Maximum Value</i>		10.0	1.7	3.41	0.26	285	170	5.2	233	216	<i>Maximum Value</i>
		<i>Minimum Value</i>		5.1	0.6	0.14	0.075	< 140	< 37	1.3	1.3	4.5	<i>Minimum Value</i>
		<i>Std Deviation</i>		1.7	0.3	0.98	0.052	45	51	1.2	77	79	<i>Std Deviation</i>
		<i>Median Value</i>		7.7	1.1	0.34	0.130	170	42	2.6	49	52	<i>Median Value</i>
		<i>AM Criteria</i>		<35	<2.8	<35	<2.8	1,912	450	7.4	1,912	450	<i>AM Criteria</i>

- Notes**
- 1) Duplicate data was not used in averages.
  - 2) Bold data indicates individual value above recommended soil cleanup goals; see notes column.
  - 3) No historical Thorium observed in this unit.
  - 4) The USACE Splits were from CFS-113-004 and CFS-113-007.
  - 5) The NYSDEC Splits were from CFS-113-002 and CFS-113-010.
  - 6) Data from USACE and NYSDEC split samples are not yet available.

# Colonie, New York, Site Certification Data Summary Worksheet

Colonie FUSRAP Site, FSS Unit #114													
Table 12n in Appendix B of the Final Site Closeout Report													
Sample ID	Date Collected	FIDLER Static Count	Spa 3 2*2 Static Count	On-Site HPGe Result U-238	On-Site HPGe Result Th-232	Off-site Alpha Spec U-238	Off-Site Alpha Spec Th-232	On-Site Metals (XRF)		Off-site TAL Metals			Notes
		<i>cpm</i>	<i>cpm</i>	<i>pCi/g</i>	<i>pCi/g</i>	<i>pCi/g</i>	<i>pCi/g</i>	Copper	Lead	Arsenic	Copper	Lead	
								<i>(ppm)</i>	<i>(ppm)</i>	<i>(ppm)</i>	<i>(ppm)</i>	<i>(ppm)</i>	
CFS-114-001	06/15/2004	8,520	N/A	13.4	1.6	0.1	0.42	210	49	1.5	5.7	2.4	
CFS-114-002	06/15/2004	7,944	N/A	6.4	0.9	0.4	0.46	264	54	1.3	12.1	4.6	
CFS-114-003	06/15/2004	9,678	N/A	11.1	1.0	3.1	0.53	220	52	3.8	20.4	6.5	NYSDEC split
CFS-114-004	06/15/2004	8,621	N/A	8.2	1.6	3.3	0.62	2,490	67	3.4	44.8	29.9	
CFS-114-005	06/15/2004	8,089	N/A	4.7	0.6	0.6	0.47	220	53	1.2	5.0	2.3	
CFS-114-006	06/15/2004	7,483	N/A	7.8	0.7	0.3	0.45	220	50	1.2	6.2	2.1	
CFS-114-007	06/15/2004	8,651	N/A	15.2	1.4	3.8	0.49	190	60	1.6	16.5	13.5	USACE split
CFS-114-008	06/15/2004	8,400	N/A	5.9	1.4	0.4	0.46	210	55	1.6	4.4	3.1	
CFS-114-009	06/15/2004	8,047	N/A	7.5	1.0	0.2	0.54	210	57	1.4	5.5	4.1	NYSDEC split
CFS-114-DUP	06/15/2004	9,743	N/A	9.4	0.9	2.7	0.58	240	59	3.3	19.0	6.7	Duplicate of CFS-114-003
DATA SUMMARY													
	Average values			8.9	1.1	1.36	0.493	470.44	55.22	1.89	13.40	7.61	Average values
	Maximum Value			15.2	1.6	3.8	0.620	2,490	67	3.8	44.8	29.9	Maximum Value
	Minimum Value			4.7	0.6	0.1	0.420	190	49	1.2	4.4	2.1	Minimum Value
	Std Deviation			3.6	0.4	1.55	0.061	757.59	5.56	0.99	13.09	9.08	Std Deviation
	Median Value			7.8	1.0	0.40	0.470	220.00	54.00	1.50	6.20	4.10	Median Value
	AM Criteria			<35	<2.8	<35	<2.8	470	450	7.4	1912.0	450.0	AM Criteria
Notes													
1) Duplicate data was not used in averages.													
2) Bold data indicates individual value above recommended soil cleanup goals; see notes column.													
3) No historical Thorium observed in this unit.													
4) The USACE Split is from CFS-114-007.													
5) The NYSDEC Splits were from CFS-114-003 and CFS-114-009.													
6) Data from USACE and NYSDEC split samples are not yet available.													

Colonie FUSRAP Site, FSS Unit #115													
Table 12o in Appendix B of the Final Site Closeout Report													
Sample ID	Date Collected	FIDLER Static Count	Spa 3 2*2 Static Count	On-Site HPGe Result U-238	On-Site HPGe Result Th-232	Off-site Alpha Spec U-238	Off-Site Alpha Spec Th-232	On-Site Metals (XRF)		Off-site TAL Metals			Notes
		<i>cpm</i>	<i>cpm</i>	<i>pCi/g</i>	<i>pCi/g</i>	<i>pCi/g</i>	<i>pCi/g</i>	Copper	Lead	Arsenic	Copper	Lead	
								<i>(ppm)</i>	<i>(ppm)</i>	<i>(ppm)</i>	<i>(ppm)</i>	<i>(ppm)</i>	
CFS-115-001	08/04/2004	7,767	N/A	7.5	1.0	0.6	0.5	609	< 63	1.7	12.0	7.4	NYSDEC Split
CFS-115-002	08/04/2004	7,526	N/A	7.4	1.1	0.3	0.5	< 220	< 55	1.3	7.7	2.4	
CFS-115-003	08/04/2004	7,935	N/A	6.9	0.7	0.2	0.3	< 210	< 56	1.2	9.9	2.6	
CFS-115-004	08/04/2004	8,375	N/A	6.1	0.8	0.4	0.8	< 190	< 56	1.9	7.3	2.5	
CFS-115-005	08/04/2004	8,092	N/A	6.6	1.7	1.2	0.6	< 210	< 48	1.8	8.5	3.4	USACE Split
CFS-115-006	08/04/2004	8,593	N/A	6.8	1.6	0.3	0.5	< 190	< 48	1.6	9.5	2.8	
CFS-115-007	08/04/2004	7,998	N/A	6.5	1.1	0.9	0.3	< 210	< 57	1.3	11.4	5.7	
CFS-115-008	08/04/2004	11,139	N/A	24.0	0.9	19.5	0.4	< 210	< 46	1.6	6.4	2.0	Duplicate
CFS-115-009	08/04/2004	7,755	N/A	8.8	1.0	0.3	0.5	< 190	< 51	2.1	7.7	2.5	
CFS-115-010	08/04/2004	8,351	N/A	11.8	0.9	3.1	0.4	< 250	< 59	1.2	7.5	2.3	
CFS-115-011	08/04/2004	8,527	N/A	7.0	1.3	0.3	0.4	< 270	< 56	1.6	8.3	2.5	NYSDEC Split
CFS-115-012	08/04/2004	8,346	N/A	8.8	0.9	2.9	0.7	< 270	< 71	1.9	138.0	95.2	
CFS-115-DUP	08/04/2004	11,083	N/A	28.4	1.5	19.7	0.5	< 210	< 47	1.6	6.5	2.0	CFS-115-008 Duplicate
DATA SUMMARY													
	Average values			9.0	1.1	2.50	0.497	< 252	< 56	1.60	19.52	10.94	Average values
	Maximum Value			24.0	1.7	19.5	0.750	609	< 71	2.1	138.0	95.2	Maximum Value
	Minimum Value			6.1	0.7	0.2	0.300	< 190	< 46	1.2	6.4	2.0	Minimum Value
	Std Deviation			5.0	0.3	5.45	0.150	116	7.0	0.30	37.35	26.58	Std Deviation
	Median Value			7.2	1.0	0.54	0.490	< 210	< 56	1.60	8.40	2.55	Median Value
	AM Criteria			<35	<2.8	<35	<2.8	1,912	450	7.4	1,912	450	AM Criteria
Notes													
1) Duplicate data was not used in averages.													
2) Bold data indicates individual value above recommended soil cleanup goals; see notes column.													
3) No historical Thorium observed in this unit.													
4) The USACE Split is from CFS-115-005.													
5) The NYSDEC Splits were from CFS-115-001 and CFS-115-011.													
6) Data from USACE and NYSDEC split samples are not yet available.													

# Colonie, New York, Site Certification Data Summary Worksheet

**Colonie FUSRAP Site, FSS Unit #116**

**Table 12p in Appendix B of the Final Site Closeout Report**

Sample ID	Date Collected	FIDLER Static Count	Spa 3 2'2 Static Count	On-Site HPGe Result U-238	On-Site HPGe Result Th-232	Off-site Alpha Spec U-238	Off-Site Alpha Spec Th-232	On-Site Metals (XRF)		Off-site TAL Metals			Notes
		cpm	cpm	pCi/g	pCi/g	pCi/g	pCi/g	Copper	Lead	Arsenic	Copper	Lead	
		(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)						
CFS-116-001	11/09/2004	7,332	n/a	6.1	0.9	0.43	0.67	<160	<49	1.6	20.3	14.6	
CFS-116-002	11/09/2004	6,559	n/a	8.0	0.9	0.31	0.73	<250	<45	1.4	6.3	2.9	NYSDEC Split Sample
CFS-116-003	11/09/2004	7,191	n/a	13.2	0.7	0.73	0.73	<220	<49	1.2	21.8	9.8	USACE Split Sample
CFS-116-004	11/09/2004	6,635	n/a	5.6	0.6	0.28	0.71	<210	<59	1.8	5.9	2.6	
CFS-116-005	11/09/2004	7,110	n/a	7.0	0.8	0.44	0.90	<250	<52	2.5	6.7	2.4	
CFS-116-006	11/09/2004	7,039	n/a	6.4	1.3	0.39	0.59	<270	<62	1.4	5.8	2.2	
CFS-116-007	11/09/2004	7,247	n/a	7.1	0.8	0.70	0.61	<220	<57	1.7	11.7	6.1	NYSDEC Split Sample
CFS-116-008	11/09/2004	6,881	n/a	5.6	0.8	0.39	0.81	<210	<49	2.1	18.0	14.5	
CFS-116-009	11/09/2004	6,913	n/a	7.2	0.6	0.20	0.30	<180	<50	2.2	5.9	2.6	
CFS-116-DUP	11/09/2004	7,112	n/a	6.7	0.8	0.33	0.62	<190	<54	0.9	4.4	1.6	Duplicate of -006
<b>DATA SUMMARY</b>													
		Average values		7.4	0.8	0.43	0.67	<219	<52	1.8	11.4	6.4	Average values
		Maximum Value		13.2	1.3	0.73	0.90	<270	<62	2.5	21.8	14.6	Maximum Value
		Minimum Value		5.6	0.6	0.20	0.30	<160	<45	1.2	5.8	2.2	Minimum Value
		Std Deviation		2.3	0.2	0.18	0.17	35	5.6	0.4	6.8	5.2	Std Deviation
		Median Value		7.0	0.8	0.39	0.71	<220	<50	1.7	6.7	2.9	Median Value
		AM Criteria		<35	<2.8	<35	<2.8	1,912	450	7.4	1,912	450	AM Criteria

Notes  
 1) Duplicate data was not used in averages.  
 2) Bold data indicates individual value above recommended soil cleanup goals; see notes column.  
 3) No historical Thorium observed in this unit.  
 4) The USACE Split is from CFS-116-003.  
 5) The NYSDEC Splits were from CFS-116-002 and CFS-116-007.  
 6) Data from USACE and NYSDEC split samples are not yet available.

**Colonie FUSRAP Site, FSS Unit #117**

**Table 12q in Appendix B of the Final Site Closeout Report**

Sample ID	Date Collected	FIDLER Static Count	Spa 3 2'2 Static Count	On-Site HPGe Result U-238	On-Site HPGe Result Th-232	Off-site Alpha Spec U-238	Off-Site Alpha Spec Th-232	On-Site Metals (XRF)		Off-site TAL Metals			Notes
		cpm	cpm	pCi/g	pCi/g	pCi/g	pCi/g	Copper	Lead	Arsenic	Copper	Lead	
		(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)						
CFS-117-001	11/21/2005	8,202	n/a	6.0	1.7	0.20	0.70	330	139	1.5	49.4	34.4	
CFS-117-002	11/21/2005	8,037	n/a	5.1	0.7	0.28	0.50	<270	<64	2.3	6.6	2.9	NYSDEC Split Sample
CFS-117-003	11/21/2005	8,329	n/a	7	0.9	0.90	0.61	<340	<91	1.7	196	240	
CFS-117-004	11/21/2005	8,172	n/a	12.5	0.8	2.25	0.56	<370	189	1.3	152	142	
CFS-117-005	11/21/2005	8,071	n/a	5.1	1.4	0.37	0.61	<270	<76	0.8	2.8	3.5	
CFS-117-006	11/21/2005	8,351	n/a	6.3	1.6	0.46	0.73	<310	<82	0.9	8.2	7.5	USACE Split Sample
CFS-117-007	11/21/2005	7,602	n/a	4.9	1.3	0.40	0.59	<250	<54	0.9	4.3	4.9	NYSDEC Split Sample
CFS-117-008	11/21/2005	7,423	n/a	5.6	1.0	0.27	0.36	<270	<71	1.6	11.9	9.4	USACE Split Sample
CFS-117-009	11/21/2005	8,399	n/a	6.9	1.0	0.99	0.55	<300	132	2.1	183	104	
CFS-117-DUP	11/21/2005	8,162	n/a	8.1	0.9	0.22	0.44	<360	<55	0.7	16.5	11.9	Duplicate of -005; QC Static Count 001
<b>DATA SUMMARY</b>													
		Average values		6.6	1.2	0.68	0.58	<301	<100	1.5	68.2	61.0	Average values
		Maximum Value		12.5	1.7	2.25	0.73	<370	189	2.3	196.0	240.0	Maximum Value
		Minimum Value		4.9	0.7	0.20	0.36	<250	<54	0.8	2.8	2.9	Minimum Value
		Std Deviation		2.3	0.4	0.65	0.11	40	44.3	0.5	83.5	84.0	Std Deviation
		Median Value		6.0	1.0	0.40	0.59	<300	<82	1.5	11.9	9.4	Median Value
		AM Criteria		<35	<2.8	<35	<2.8	1,912	450	7.4	1,912	450	AM Criteria

Notes  
 1) Duplicate data was not used in calculations.  
 2) Bold data indicates individual value above recommended soil cleanup goals; see notes column.  
 3) No historical Thorium observed in this unit.  
 4) The USACE Split is from CFS-117-006 and CFS-117-008.  
 5) The NYSDEC Splits were from CFS-117-002 and CFS-117-007.  
 6) Data from USACE and NYSDEC split samples are not yet available.

# Colonie, New York, Site Certification Data Summary Worksheet

Colonie FUSRAP Site, FSS Unit #118

Table 12r in Appendix B of the Final Site Closeout Report

Sample ID	Date Collected	FIDLER Static Count	Spa 3 2'2 Static Count	On-Site HPGe Result U-238	On-Site HPGe Result Th-232	Off-site Alpha Spec U-238	Off-Site Alpha Spec Th-232	On-Site Metals (XRF)		Off-site TAL Metals			Notes
								Copper	Lead	Arsenic	Copper	Lead	
								cpm	cpm	pCi/g	pCi/g	pCi/g	
CFS-118-001	03/21/2006	8,239	N/A	10.2	1.1	0.44	0.58	<280	<75	1.8	5.6	3.8	
CFS-118-002	03/21/2006	7,521	N/A	6.3	1.3	0.46	0.39	<240	<68	1.5	7.3	4.1	
CFS-118-003	03/21/2006	8,103	N/A	7.6	1.7	1.01	1.30	<240	<68	1.5	21	21	NYSDEC Split Sample
CFS-118-004	03/21/2006	7,287	N/A	10.9	1.4	0.42	0.63	<220	<56	1.7	7	5	USACE Split Sample
CFS-118-005	03/21/2006	7,828	N/A	7.3	1.0	0.31	0.58	<250	<70	1.6	6.3	2.5	NYSDEC Split Sample
CFS-118-006	03/21/2006	8,420	N/A	6.1	1.3	0.34	0.71	<250	<59	1.8	17.4	10.6	
CFS-118-007	03/21/2006	7,653	N/A	5.4	1.0	0.25	0.49	<330	<72	1.2	4.8	3.3	
CFS-118-008	03/21/2006	7,824	N/A	9.6	1.1	0.27	0.43	<250	<68	2.0	7.9	3.4	
CFS-118-009	03/21/2006	7,849	N/A	7.3	1.2	0.37	0.63	<280	<78	1.3	8	4	NYSDEC Split Sample
CFS-118-010	03/21/2006	7,336	N/A	6.5	1.1	0.69	0.24	<250	<79	1.0	16	11	
CFS-118-011	03/21/2006	7,770	N/A	5.9	0.4	0.34	0.51	<280	<84	1.4	6	3	
CFS-118-DUP	03/21/2006		N/A	4.9	1.4	0.36	0.55	<250	<75	1.7	5.9	3.9	Duplicate of 001

**DATA SUMMARY**

Average values	7.6	1.1	0.45	0.59	<261	<71	1.5	9.6	6.5	Average values
Maximum Value	10.9	1.7	1.01	1.30	<330	<84	2	20.9	20.7	Maximum Value
Minimum Value	5.4	0.4	0.25	0.24	<220	<56	1	4.8	2.5	Minimum Value
Std Deviation	1.9	0.3	0.22	0.27	30	8.3	0.3	5.6	5.9	Std Deviation
Median Value	7.3	1.1	0.37	0.58	<250	<70	1.5	7.3	3.8	Median Value
AM Criteria	<35	<2.8	<35	<2.8	1,912	450	7.4	1,912	450	AM Criteria

**Notes**

- 1) Duplicate data was not used in calculations.
- 2) Bold data indicates individual value above recommended soil cleanup goals; see notes column.
- 3) No historical Thorium observed in this unit.
- 4) The USACE Split is from CFS-118-004.
- 5) The NYSDEC Splits were from CFS-118-003, CFS-118-005, and CFS-118-009.
- 6) Data from USACE and NYSDEC split samples are not yet available.

Colonie FUSRAP Site, FSS Unit #119

Table 12s in Appendix B of the Final Site Closeout Report

Sample ID	Date Collected	FIDLER Static Count	Spa 3 2'2 Static Count	On-Site HPGe Result U-238	On-Site HPGe Result Th-232	Off-site Alpha Spec U-238	Off-Site Alpha Spec Th-232	On-Site Metals (XRF)		Off-site TAL Metals			Notes
								Copper	Lead	Arsenic	Copper	Lead	
								cpm	cpm	pCi/g	pCi/g	pCi/g	
CFS-119-001	06/14/2006	7,654	N/A	5.8	0.8	0.40	0.59	<270	<51	2.1	9.1	4.8	NYSDEC Split Sample
CFS-119-002	06/14/2006	8,010	N/A	9.7	0.7	0.79	0.44	<300	<67	1.2	10.4	7.6	
CFS-119-003	06/14/2006	7,814	N/A	12	0.7	2.27	0.86	374	<73	1.3	31.2	20.0	
CFS-119-004	06/14/2006	8,240	N/A	6.6	1.0	1.61	0.48	<460	472	4.3	1040.0	<b>615.0</b>	
CFS-119-005	06/14/2006	10,758	N/A	13.2	0.7	6.66	0.48	<280	<74	3.4	18.2	7.7	
CFS-119-006	06/14/2006	8,763	N/A	18.6	1.0	8.20	0.59	<310	<96	1.8	24.0	10.9	
CFS-119-007	06/14/2006	7,362	N/A	5.4	0.8	0.77	0.39	<270	<56	3.9	13.5	6.5	
CFS-119-008	06/14/2006	7,449	N/A	6.7	0.9	1.35	0.51	<270	<76	0.6	11.3	2.8	USACE Split Sample
CFS-119-009	06/14/2006	7,338	N/A	7.9	0.6	0.69	0.41	<370	<81	0.6	61.4	56.3	NYSDEC Split Sample
CFS-119-DUP	06/14/2006	7,362	N/A	7.9	0.8	1.27	0.60	<340	<51	1.0	13.2	3.3	Duplicate was Sample 008

**DATA SUMMARY**

Average values	9.5	0.8	2.53	0.53	<323	<116	2.1	135.5	81.3	Average values
Maximum Value	18.6	1.0	8.20	0.86	<460	472	4.3	1040.0	<b>615.0</b>	Maximum Value
Minimum Value	5.4	0.6	0.40	0.39	<270	<51	0.6	9.1	2.8	Minimum Value
Std Deviation	4.4	0.1	2.86	0.14	66	134.1	1.4	339.6	200.8	Std Deviation
Median Value	7.9	0.8	1.35	0.48	<300	<74	1.8	18.2	7.7	Median Value
AM Criteria	<35	<2.8	<35	<2.8	1,912	450	7.4	1,912	450	AM Criteria

**Notes**

- 1) Duplicate data was not used in calculations.
- 2) Bold data indicates individual value above recommended soil cleanup goals; see notes column.
- 3) No historical Thorium observed in this unit.
- 4) The USACE Split is from CFS-119-008.
- 5) The NYSDEC Splits were from CFS-119-001 and CFS-119-009.
- 6) Data from USACE and NYSDEC split samples are not yet available.

# Colonie, New York, Site Certification Data Summary Worksheet

**Colonie FUSRAP Site, FSS Unit #120**

**Table 12t in Appendix B of the Final Site Closeout Report**

Sample ID	Date Collected	FIDLER Static Count	Spa 3 2'2 Static Count	On-Site HPGe Result U-238	On-Site HPGe Result Th-232	Off-site Alpha Spec U-238	Off-Site Alpha Spec Th-232	On-Site Metals (XRF)		Off-site TAL Metals			Notes
								Copper	Lead	Arsenic	Copper	Lead	
		<i>cpm</i>	<i>cpm</i>	<i>pCi/g</i>	<i>pCi/g</i>	<i>pCi/g</i>	<i>pCi/g</i>	<i>(ppm)</i>	<i>(ppm)</i>	<i>(ppm)</i>	<i>(ppm)</i>	<i>(ppm)</i>	
CFS-120-001	07/07/2006	6,926	N/A	9.2	0.6	0.43	0.35	<270	<70	1.7	12.9	10.5	NYSDEC Split Sample
CFS-120-002	07/07/2006	7,528	N/A	11.1	0.6	0.52	0.39	<390	<82	1.4	27.4	15.8	USACE Split Sample
CFS-120-003	07/07/2006	6,923	N/A	6.7	0.6	0.81	0.40	<330	<74	2.7	33.1	28.4	
CFS-120-004	07/07/2006	7,907	N/A	8.4	0.8	0.37	0.71	<370	<66	1.4	7.4	3.9	
CFS-120-005	07/07/2006	7,545	N/A	7.6	0.8	0.58	0.47	<250	<64	1.6	14.7	5.1	NYSDEC Split Sample
CFS-120-006	07/07/2006	7,500	N/A	7.8	1.2	0.27	0.36	<330	<71	0.7	8.0	2.9	NYSDEC Split Sample
CFS-120-007	07/07/2006	7,684	N/A	7.3	0.8	1.00	0.57	<270	<76	1.6	34.5	27.2	
CFS-120-008	07/07/2006	7,958	N/A	6.5	1.2	0.45	0.69	<280	<89	2.3	14.0	8.2	
CFS-120-009	07/07/2006	7,680	N/A	4.7	0.7	0.28	0.38	<360	<63	1.2	8.6	6.8	
CFS-120-DUP	07/07/2006		N/A	6.4	0.7	0.39	0.64	<300	<64	0.6	7.6	2.5	Duplicate of 006
DATA SUMMARY													
	<i>Average values</i>			7.7	0.8	0.52	0.48	<317	<73	1.6	17.8	12.1	<i>Average values</i>
	<i>Maximum Value</i>			11.1	1.2	1.00	0.71	<390	<89	2.7	34.5	28.4	<i>Maximum Value</i>
	<i>Minimum Value</i>			4.7	0.6	0.27	0.35	<250	<63	0.7	7.4	2.9	<i>Minimum Value</i>
	<i>Std Deviation</i>			1.8	0.2	0.24	0.14	51	8.6	0.6	10.9	9.7	<i>Std Deviation</i>
	<i>Median Value</i>			7.6	0.8	0.45	0.40	<330	<71	1.6	14.0	8.2	<i>Median Value</i>
	<i>AM Criteria</i>			<35	<2.8	<35	<2.8	1,912	450	7.4	1,912	450	<i>AM Criteria</i>

- Notes**
- 1) Duplicate data was not used in calculations.
  - 2) Bold data indicates individual value above recommended soil cleanup goals; see notes column.
  - 3) No historical Thorium observed in this unit.
  - 4) The USACE Split is from CFS-120-002.
  - 5) The NYSDEC Splits were from CFS-120-001, CFS-120-005, and CFS-120-006.
  - 6) Data from USACE and NYSDEC split samples are not yet available.

**Colonie FUSRAP Site, FSS Unit #121**

**Table 12u in Appendix B of the Final Site Closeout Report**

Sample ID	Date Collected	FIDLER Static Count	Spa 3 2'2 Static Count	On-Site HPGe Result U-238	On-Site HPGe Result Th-232	Off-site Alpha Spec U-238	Off-Site Alpha Spec Th-232	On-Site Metals (XRF)		Off-site TAL Metals			Notes
								Copper	Lead	Arsenic	Copper	Lead	
		<i>cpm</i>	<i>cpm</i>	<i>pCi/g</i>	<i>pCi/g</i>	<i>pCi/g</i>	<i>pCi/g</i>	<i>(ppm)</i>	<i>(ppm)</i>	<i>(ppm)</i>	<i>(ppm)</i>	<i>(ppm)</i>	
CFS-121-001	07/20/2006	8,315	N/A	6.5	0.7	1.8	0.6	<340	<72	2.4	21.4	13.2	
CFS-121-002	07/20/2006	7,043	N/A	6.4	0.7	1.6	0.5	<270	<63	0.7	12.9	8.3	NYSDEC Split Sample
CFS-121-003	07/20/2006	8,983	N/A	10.3	0.7	9.0	0.4	483	<110	4.4	142.0	115.0	NYSDEC Split Sample
CFS-121-004	07/20/2006	11,106	N/A	35.0	1.1	25.6	0.7	421	<84	1.6	19.1	11.6	
CFS-121-005	07/20/2006	8,762	N/A	6.4	0.9	1.6	0.6	<250	<83	2.7	13.6	3.6	NYSDEC Split Sample
CFS-121-006	07/20/2006	8,369	N/A	6.8	0.9	1.4	0.7	<370	<85	1.0	11.9	7.7	
CFS-121-007	07/20/2006	8,101	N/A	6.6	1.4	0.6	0.5	<400	<53	0.2	8.5	5.6	USACE Split Sample
CFS-121-008	07/20/2006	7,899	N/A	7.3	1.0	2.1	1.0	<360	<78	0.9	18.3	14.0	
CFS-121-009	07/20/2006	8,523	N/A	8.9	0.8	4.5	0.4	<400	<120	1.3	450.0	173.0	
CFS-121-010	07/20/2006	7,847	N/A	11.3	0.7	3.1	0.5	<250	<71	1.2	37.7	23.2	
CFS-121-DUP	07/20/2006	7,898	N/A	9.5	1.5	2.5	0.4	<340	<69	0.8	22.0	15.9	Duplicate was 010
DATA SUMMARY													
	<i>Average values</i>			10.6	0.9	5.12	0.59	<354	<82	1.6	73.5	37.5	<i>Average values</i>
	<i>Maximum Value</i>			35.0	1.4	25.60	0.95	483	<120	4.4	450.0	173.0	<i>Maximum Value</i>
	<i>Minimum Value</i>			6.4	0.7	0.62	0.41	<250	<53	0.2	8.5	3.6	<i>Minimum Value</i>
	<i>Std Deviation</i>			8.8	0.2	7.59	0.17	78	20.2	1.2	138.1	58.0	<i>Std Deviation</i>
	<i>Median Value</i>			7.1	0.9	1.92	0.56	<365	<81	1.3	18.7	12.4	<i>Median Value</i>
	<i>AM Criteria</i>			<35	<2.8	<35	<2.8	1,912	450	7.4	1,912	450	<i>AM Criteria</i>

- Notes**
- 1) Duplicate data was not used in calculations.
  - 2) Bold data indicates individual value above recommended soil cleanup goals; see notes column.
  - 3) No historical Thorium observed in this unit.
  - 4) The USACE Split is from CFS-121-007.
  - 5) The NYSDEC Splits were from CFS-121-002, CFS-121-003, and CFS-121-005.
  - 6) Data from USACE and NYSDEC split samples are not yet available.



# Colonie, New York, Site Certification Data Summary Worksheet

Colonie FUSRAP Site, FSS Unit #122													
Table 12v in Appendix B of the Final Site Closeout Report													
Sample ID	Date Collected	FIDLER Static Count	Spa 3 2*2 Static Count	On-Site HPGe Result U-238	On-Site HPGe Result Th-232	Off-site Alpha Spec U-238	Off-Site Alpha Spec Th-232	On-Site Metals (XRF)		Off-site TAL Metals			Notes
		cpm	cpm	pCi/g	pCi/g	pCi/g	pCi/g	Copper (ppm)	Lead (ppm)	Arsenic (ppm)	Copper (ppm)	Lead (ppm)	
CFS-122-001	08/02/2006	8,065	N/A	6.2	1.1	1.5	0.7	<400	<85	0.9	6.5	5.3	
CFS-122-002	08/02/2006	7,725	N/A	11.3	0.6	0.4	0.7	<340	<84	2.0	1.9	2.9	USACE Split
CFS-122-003	08/02/2006	8,924	N/A	7.9	0.8	0.3	0.5	<340	<78	1.2	1.3	2.3	NYSDEC Split
CFS-122-004	08/02/2006	8,244	N/A	5.8	1.1	0.6	0.7	<220	<57	2.3	9.3	5.3	
CFS-122-005	08/02/2006	7,512	N/A	6.9	0.7	0.3	0.4	<280	<63	0.8	3.7	2.1	NYSDEC Split
CFS-122-006	08/02/2006	8,078	N/A	9.5	1.2	0.9	0.5	<370	<110	1.7	67.9	48.2	
CFS-122-007	08/02/2006	9,790	N/A	6.4	1.6	0.7	1.1	<310	<82	4.5	27.6	17.9	
CFS-122-008	08/02/2006	9,956	N/A	6.9	1.1	0.7	0.8	<430	<91	4.9	22.9	12.3	
CFS-122-009	08/02/2006	9,834	N/A	9.8	1.2	0.6	0.8	<310	<55	6.4	23.3	12.8	NYSDEC Split
CFS-122-DUP	08/02/2006	9,950	N/A	6.7	1.1	0.7	0.6	<390	<110	4.5	22.8	12.9	Duplicate of 008
DATA SUMMARY													
	Average values			7.9	1.0	0.7	0.7	<333	<78	2.8	18.3	12.1	Average values
	Maximum Value			11.3	1.6	1.5	1.1	<430	<110	6.4	67.9	48.2	Maximum Value
	Minimum Value			5.8	0.6	0.3	0.4	<220	<55	0.8	1.3	2.1	Minimum Value
	Std Deviation			1.9	0.3	0.4	0.2	63	17.6	2.0	21.2	14.6	Std Deviation
	Median Value			6.9	1.1	0.6	0.7	<340	<82	2.0	9.3	5.3	Median Value
	AM Criteria			<35	<2.8	<35	<2.8	1,912	450	7.4	1,912	450	AM Criteria
Notes													
1) Duplicate data was not used in calculations.													
2) Bold data indicates individual value above recommended soil cleanup goals; see notes column.													
3) No historical Thorium observed in this unit.													
4) The USACE Split is from CFS-122-xxx.													
5) The NYSDEC Splits were from CFS-122-xxx, CFS-122-xxx, and CFS-122-xxx.													
6) Data from USACE and NYSDEC split samples are not yet available.													

Colonie FUSRAP Site, FSS Unit #123													
Table 12w in Appendix B of the Final Site Closeout Report													
Sample ID	Date Collected	FIDLER Static Count	Spa 3 2*2 Static Count	On-Site HPGe Result U-238	On-Site HPGe Result Th-232	Off-site Alpha Spec U-238	Off-Site Alpha Spec Th-232	On-Site Metals (XRF)		Off-site TAL Metals			Notes
		cpm	cpm	pCi/g	pCi/g	pCi/g	pCi/g	Copper (ppm)	Lead (ppm)	Arsenic (ppm)	Copper (ppm)	Lead (ppm)	
CFS-123-001	09/20/2006	8,867	N/A	9.0	0.9	0.7	0.9	<420	<120	2.2	299	231	
CFS-123-002	09/20/2006	8,906	N/A	6.2	1.4	0.8	0.7	<520	424	5.5	490	133	
CFS-123-003	09/20/2006	9,098	N/A	7.2	1.0	0.7	0.8	938	<130	4.6	509	<b>451</b>	NYSDEC Split Sample
CFS-123-004	09/20/2006	9,437	N/A	9.7	1.2	0.7	0.8	<330	<98	6.2	26	11	
CFS-123-005	09/20/2006	9,174	N/A	6.5	1.2	1.6	0.6	855	<150	5.7	161	116	NYSDEC Split Sample
CFS-123-006	09/20/2006	7,187	N/A	5.2	0.9	0.4	0.4	<450	<59	2.5	21	13	
CFS-123-007	09/20/2006	8,587	N/A	8.4	1.0	0.7	0.8	689	<110	5.0	30	15	
CFS-123-008	09/20/2006	7,518	N/A	7.6	0.8	0.5	0.6	360	<110	1.4	6	5	NYSDEC Split Sample
CFS-123-009	09/20/2006	8,944	N/A	4.9	1.2	1.8	0.9	<540	255	4.1	442	261	USACE Split Sample
CFS-123-DUP	09/20/2006	8,971	N/A	7.5	1.4	1.5	0.6	954	241	4.8	894	310	Duplicate was 009
DATA SUMMARY													
	Average values			7.2	1.1	0.9	0.7	<567	<162	4.1	220	137	Average values
	Maximum Value			9.7	1.4	1.83	0.91	938	424	6.2	509	451	Maximum Value
	Minimum Value			4.9	0.8	0.4	0.4	<330	<59	1.4	6	5	Minimum Value
	Std Deviation			1.7	0.2	0.5	0.2	215.8	112	1.7	216	153	Std Deviation
	Median Value			7.2	1.0	0.7	0.8	<520	<120	4.6	161	116	Median Value
	AM Criteria			<35	<2.8	<35	<2.8	1,912	450	7.4	1,912	450	AM Criteria
Notes													
1) Duplicate data was not used in calculations.													
2) The USACE Split is from CFS-123-009.													
3) The NYSDEC Splits were from CFS-123-003, CFS-123-005, and CFS-123-008.													
4) No historical Thorium observed in this unit.													
5) Data from USACE and NYSDEC split samples are not yet available.													

# Colonie, New York, Site Certification Data Summary Worksheet

Colonie FUSRAP Site, FSS Unit #124													
Table 12x in Appendix B of the Final Site Closeout Report													
Sample ID	Date Collected	FIDLER Static Count	Spa 3 2*2 Static Count	On-Site HPGe Result U-238	On-Site HPGe Result Th-232	Off-site Alpha Spec U-238	Off-site Alpha Spec Th-232	On-Site Metals (XRF)		Off-site TAL Metals			Notes
		cpm	cpm	pCi/g	pCi/g	pCi/g	pCi/g	Copper (ppm)	Lead (ppm)	Arsenic (ppm)	Copper (ppm)	Lead (ppm)	
CFS-124-001	09/20/2006	9,781	N/A	7.3	1.2	1.8	0.7	<370	<130	3.9	95	74	
CFS-124-002	09/20/2006	8,980	N/A	7.1	0.8	0.6	0.9	782	<100	5.7	26	13	NYSDEC Split Sample
CFS-124-003	09/20/2006	9,192	N/A	15.2	1.1	5.5	0.6	<340	212	4.8	171	119	
CFS-124-004	09/20/2006	8,960	N/A	7.6	1.6	1.4	0.8	<420	<91	5.4	24	12	
CFS-124-005	09/20/2006	8,833	N/A	7.5	1.0	0.8	0.8	1,390	<150	6.1	23	13	NYSDEC Split Sample
CFS-124-006	09/20/2006	8,960	N/A	6.7	1.1	2.5	0.8	<390	<100	4.3	100	75	
CFS-124-007	09/20/2006	9,168	N/A	8.7	1.3	0.9	0.8	<300	<110	6.4	25	12	USACE Split Sample
CFS-124-008	09/20/2006	9,204	N/A	7.3	1.0	1.2	0.7	<450	<110	5.0	34	19	NYSDEC Split Sample
CFS-124-009	09/20/2006	8,906	N/A	8.9	1.0	1.2	0.8	<360	<140	6.6	54	28	
CFS-124-010	09/20/2006	9,622	N/A	7	1.0	0.8	0.8	<400	179	6.8	435	127	
CFS-124-011R	09/27/2006	N/A	N/A	6.2	1.1	0.5	0.5	823	<b>535</b>	3.1	<b>2,450</b>	<b>734</b>	
CFS-124-011	09/20/2006	7,876	N/A	11	0.7	3.0	0.6	<b>2,240</b>	<b>1,620</b>	5.2	<b>2,780</b>	<b>1,130</b>	Data not used in statistics
CFS-124-DUP	09/20/2006	9,881	N/A	7.3	1.1	2.8	0.7	<300	<110	5.2	53	51	Duplicate was 006
DATA SUMMARY													
	<i>Average values</i>			8.1	1.1	1.56	0.74	<548	<169	5.3	313	111	<i>Average values</i>
	<i>Maximum Value</i>			15.2	1.6	5.49	0.94	1390	<b>535</b>	6.8	2450	734	<i>Maximum Value</i>
	<i>Minimum Value</i>			6.2	0.8	0.51	0.51	<300	<91	3.1	23	12	<i>Minimum Value</i>
	<i>Std Deviation</i>			2.5	0.2	1.43	0.12	329	127.0	1.2	719	211	<i>Std Deviation</i>
	<i>Median Value</i>			7.3	1.1	1.16	0.76	<400	<130	5.4	54	28	<i>Median Value</i>
	<i>AM Criteria</i>			<35	<2.8	<35	<2.8	1,912	450	7.4	1,912	450	<i>AM Criteria</i>
Notes													
1) Duplicate data and CFS-124-011 were not used in calculations.													
2) No historical Thorium observed in this unit.													
3) Data from NYSDEC split samples are not yet available.													
4) The USACE Split is from CFS-124-007.													
5) The NYSDEC Splits were from CFS-124-002, CFS-124-005, and CFS-124-008.													

Colonie FUSRAP Site, FSS East Culvert													
Table 12y in Appendix B of the Final Site Closeout Report													
Sample ID	Date Collected	FIDLER Static Count	Spa 3 2*2 Static Count	On-Site HPGe Result U-238	On-Site HPGe Result Th-232	Off-site Alpha Spec U-238	Off-site Alpha Spec Th-232	On-Site Metals (XRF)		Off-site TAL Metals			Notes
		cpm	cpm	pCi/g	pCi/g	pCi/g	pCi/g	Copper (ppm)	Lead (ppm)	Arsenic (ppm)	Copper (ppm)	Lead (ppm)	
Culvert Station +75	08/08/2001	N/D	N/A	8.4	0.9	0.8	0.3	90.9	104	3.3	109	67	Covers stations 0+51 thru +00. Final depth of 13 feet below grade.
Culvert 1+25	08/09/2001	N/D	N/A	8.9	1.1	0.8	0.4	534	440	10.2	564	<b>618</b>	Covers stations 1+01 thru 1+50. Sample replaced with Culvert 1+25R.
Culvert 1+25 DUP	08/09/2001	N/D	N/A	NA	NA	0.2	0.5	NA	NA	NA	NA	NA	Duplicate sample of Culvert 1+25.
Culvert 1+25R	09/13/2001	N/D	N/A	6.9	1.3	2.4	0.3	NA	NA	5.5	612	357	Location re-excavated and resampled. Final depth of 12.25 feet below grade.
Culvert 1+75	09/14/2001	N/D	N/A	8.7	0.8	24.4	0.4	NA	NA	4.5	1,210	912	Covers stations 1+51 thru 2+00. Sample replaced with Culvert 1+75R.
Culvert 1+75R	09/21/2001	N/D	N/A	5.4	1.1	0.0	0.3	NA	NA	1.5	2	4	Location re-excavated and resampled. Final depth of 13 feet below grade.
Culvert 2+25	09/19/2001	N/D	N/A	5.4	1.1	0.3	0.4	127	62.4	6	18	6	Covers stations 2+01 thru 2+50. Final depth of 15 feet below grade.
Culvert 2+25 DUP	09/19/2001	N/D	N/A	NA	NA	0.3	0.5	NA	NA	NA	NA	NA	Duplicate sample of Culvert 2+25.
Culvert 2+75	09/19/2001	N/D	N/A	4.3	1.0	0.3	0.6	50.5	24	33.4	10	6	Covers 2+51 thru structure 1. Final depth of 16 feet below grade.
NHW-01	08/02/2001	N/D	N/A	8.2	0.8	0.3	0.2	<29	16	0.7	5	3	Sample replaced with NHW-01A. See Notes.
NHW-01A	08/16/2001	N/D	N/A	6.4	1.0	2.0	0.4	100	111	2.4	226	159	Resample collected after pumping out water and re-establishing grade. Final depth 13 feet below grade.
NHW-02	08/02/2001	N/D	N/A	4.8	1.0	0.4	0.1	<3.6	13.8	2.9	7	4	Sample replaced with NHW-02A. See Notes.
NHW-02A	08/16/2001	N/D	N/A	13.4	0.8	6.6	0.3	291	383	2.2	313	207	Resample collected after pumping out water and re-establishing grade. Final depth 13 feet below grade.
NHW-03	08/02/2001	N/D	N/A	6.1	0.7	0.4	0.4	<29	13.8	2.5	9	7	Sample replaced with NHW-03A. See Note 4.
NHW-03A	08/16/2001	N/D	N/A	6.5	0.6	1.2	0.2	<68	65.3	1.6	144	68	Resample collected after pumping out water and re-establishing grade. Final depth 13 feet below grade.
NHW-04	08/02/2001	N/D	N/A	6.9	1.0	1.8	0.3	199	181	2.1	107	68	Sample replaced with NHW-04A. See Notes.
NHW-04A	08/16/2001	N/D	N/A	7.2	1.0	2.2	0.5	<78	91	2.5	69	53	Resample collected after pumping out water and re-establishing grade. Final depth 13 feet below grade.
NHW-05	08/02/2001	N/D	N/A	8.9	1.0	0.4	0.3	<28	25.2	1.6	10	8	Sample replaced with NHW-05A. See Notes.
NHW-05A	08/16/2001	N/D	N/A	22.1	1.0	23.2	0.3	536	<b>619</b>	3.4	655	430	Resample collected after pumping out water and re-establishing grade. Final depth 13 feet below grade.
DATA SUMMARY													
	<i>Average values</i>			8.1	1.0	3.6	0.3	<155	<154	5.1	239	175	<i>Average values</i>
	<i>Maximum Value</i>			22.1	1.3	24.40	0.60	536	619	33.4	1210	912	<i>Maximum Value</i>
	<i>Minimum Value</i>			4.3	0.6	0.0	0.1	<3.6	<14	0.7	2	3	<i>Minimum Value</i>
	<i>Std Deviation</i>			4.2	0.2	7.3	0.1	178.1	190	7.6	336	261	<i>Std Deviation</i>
	<i>Median Value</i>			6.9	1.0	0.8	0.3	84.5	78	2.5	107	67	<i>Median Value</i>
	<i>AM Criteria</i>			<35	<2.8	<35	<2.8	1,912	450	7.4	1,912	450	<i>AM Criteria</i>
Notes													
1) Statistical information excludes data associated with Duplicate samples and from Replaced samples.													
2) Original headwall samples were rendered unusable due to flooding 13 Aug 01.													
3) Statistical information excludes data associated with duplicate samples and replaced samples.													
4) All data has been reported in milligrams per kilogram (mg/kg).													
5) Original headwall samples were rendered unusable due to flooding and intrusion of soil 13 Aug 01.													
6) Bold data indicates individual value above recommended soil cleanup goals; see notes column.													

# Colonie, New York, Site Certification Data Summary Worksheet

Colonie FUSRAP Site, FSS West Culvert

Table 12z in Appendix B of the Final Site Closeout Report

Sample ID	Date Collected	"FIDLER Static Count"	Spa 3 2*2 Static Count	On-Site HPGe Result U-238	On-Site HPGe Result Th-232	Off-site Alpha Spec U-238	Off-Site Alpha Spec Th-232	On-Site Metals (XRF)		Off-site TAL Metals			Notes
		cpm	cpm	pCi/g	pCi/g	pCi/g	pCi/g	Copper	Lead	Arsenic	Copper	Lead	
		(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	
Channel-1-25	09/27/2001	N/D	N/A	9.1	0.8	0.9	0.1	79	164	5.5	166	200	Covers stations -1-01 thru -1-50. Depth 4.0 ft. below grade.
CFS-SWK-01	07/23/2001	N/D	N/A	9.1	1.1	3.0	0.5	96	179	6.1	378	305	Southwest Keyhole Area. Depth 1.0 ft. below grade.
CFS-SWK-02	07/23/2001	N/D	N/A	10.5	1.3	5.0	0.4	168	397	<b>8.4</b>	555	<b>645</b>	Southwest Keyhole Area. Re-excavated and replaced with CFS-SWK-02A. Depth 1.8 ft. below grade.
CFS-SWK-02A	08/02/2001	N/D	N/A	6.1	1.7	0.5	0.3	27	44.8	4.0	18	48	Resample collected after re-excavation of SWK-02.
CFS-SWK-03	07/23/2001	N/D	N/A	9.3	0.9	1.5	0.4	59	77	5.8	46	74	Southwest Keyhole Area. Depth 5.9 ft. below grade.
CFS-SWK-04	07/23/2001	N/D	N/A	9.7	0.9	4.2	0.5	107	167	<b>8.5</b>	377	387	Southwest Keyhole Area. Re-excavated and replaced with CFS-SWK-04A. Depth 1.6 ft. below grade.
CFS-SWK-04A	08/02/2001	N/D	N/A	7.7	1	0.5	0.3	29.8	46.3	3.8	21	28	Resample collected after re-excavation of SWK-04.
CFS-SWK-05	07/23/2001	N/D	N/A	9.2	0.9	3.3	0.3	94	55.8	3.7	97	105	Southwest Keyhole Area. Depth 3.0 ft. below grade.
CKS-1	09/07/2001	N/D	N/A	13.6	0.8	4.4	0.3	315	341	3.7	235	231	Center South Keyhole Area. NYSDEC split sample collected. Duplicate collected at this location. Depth 8.0 ft. below grade.
CKS-1 DUP	09/07/2001	N/D	N/A	NA	NA	5.8	0.3	NA	NA	NA	NA	NA	Duplicate of CKS-1.
CKS-2	09/07/2001	N/D	N/A	14	1.2	5.5	0.4	1520	<b>1370</b>	6.5	1,730	<b>1,300</b>	Center South Keyhole Area. NYSDEC split sample collected. Data excluded due to channel excavation. Final depth 12 ft. below grade.
Channel 0-75	09/27/2001	N/D	N/A	5.4	0.9	0.4	0.4	<30	11.5	2.4	7	5	Covers stations -0-50 thru -1-00. Replaces Sample CKS-2. Depth 5.0 ft. below grade.
CKS-3	09/07/2001	N/D	N/A	13.7	1.3	5.0	0.4	450	<b>546</b>	0.4	<b>4,690</b>	<b>783</b>	Center South Keyhole Area. NYSDEC split sample collected. Data excluded due to channel excavation. Final depth 8.0 ft. below grade.
Channel 0-25	09/27/2001	N/D	N/A	5.3	0.6	0.3	0.1	35.1	23.8	0.5	2	1	Covers stations 0+00 thru -0-50. Replaces Sample CKS-3. Depth 12 ft. below grade.
CKS-4	09/07/2001	N/D	N/A	11.3	0.9	4.4	0.2	180	144	<b>14.1</b>	195	136	Center South Keyhole Area. NYSDEC split sample collected. Depth 1.0 ft. below grade. Average value from CKS-04, -05, and -06 for Arsenic is 6.11 mg/kg.
CKS-5	09/07/2001	N/D	N/A	5.6	0.9	1.2	0.1	<46	20.3	0.6	17	6	Center South Keyhole Area. NYSDEC split sample collected. Depth 1.0 ft. below grade.
CKS-6	09/07/2001	N/D	N/A	10.4	0.7	5.7	0.2	377	<b>470</b>	3.6	440	415	Center South Keyhole Area. NYSDEC split sample collected. Depth 10.5 ft. below grade.
<b>DATA SUMMARY</b>													
		<i>Average values</i>		9.4	1.0	3.0	0.3	226	254	4.8	561	292	<i>Average values</i>
		<i>Maximum Value</i>		14.0	1.7	5.76	0.49	1520	1370	14.1	4690	1300	<i>Maximum Value</i>
		<i>Minimum Value</i>		5.3	0.6	0.3	0.1	27.0	12	0.4	2	1	<i>Minimum Value</i>
		<i>Std Deviation</i>		2.9	0.3	2.1	0.1	369.1	343	3.5	1180	356	<i>Std Deviation</i>
		<i>Median Value</i>		9.3	0.9	3.3	0.3	95.0	154	3.9	181	168	<i>Median Value</i>
		<i>AM Criteria</i>		<35	<2.8	<35	<2.8	1,912	450	7.4	1,912	450	<i>AM Criteria</i>

- Notes**  
 1) Statistical information excludes data associated with duplicate samples and replaced samples shown in italics above.  
 2) All data has been reported in milligrams per kilogram (mg/kg).  
 3) Bold data indicates individual value above recommended soil cleanup goals; see notes column.

# Colonie, New York, Site Certification Data Summary Worksheet

Colonie FUSRAP Site, FSS North Lawn

Table 12aa in Appendix B of the Final Site Closeout Report

Sample ID	Date Collected	"FIDLER Static Count"	Spa 3 2'2 Static Count	On-Site HPGe Result U-238	On-Site HPGe Result Th-232	Off-site Alpha Spec U-238	Off-Site Alpha Spec Th-232	On-Site Metals (XRF)		Off-site TAL Metals			Notes
								Copper	Lead	Arsenic	Copper	Lead	
								(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	
CFS-NLF-001	05/16/2005	9,084	N/A	8.2	1.0	0.7	1.1	<330	<85	<b>8.0</b>	12	26	
CFS-NLF-002	05/16/2005	8,418	N/A	7.2	0.9	0.5	0.6	<360	<96	1.2	2	7	USACE Split Sample
CFS-NLF-003	05/16/2005	7,581	N/A	5.6	0.7	0.3	0.4	978	440	2.6	606	361	
CFS-NLF-004	05/16/2005	7,820	N/A	7.0	0.8	0.3	0.7	<390	210	2.6	183	149	
CFS-NLF-005	05/16/2005	7,934	N/A	5.7	0.9	0.3	0.4	<330	<86	3.3	14	24	
CFS-NLF-006	05/16/2005	8,361	N/A	7.1	1.0	0.5	0.6	<330	<67	3.1	26	21	NYSDEC Split Sample
CFS-NLF-007	03/17/2005	7,633	N/A	7.0	0.5	0.4	0.5	329	251	3.5	115	101	
CFS-NLF-008	03/17/2005	7,189	N/A	11.3	0.6	0.2	0.4	210	64	2.8	23	43	
CFS-NLF-009	03/17/2005	8,448	N/A	5.3	0.8	0.6	0.6	472	337	3.6	288	228	NYSDEC Split Sample
CFS-NLF-010	4/13/005	7,938	N/A	6.4	0.9	0.3	0.8	250	127	2.1	134	94	
CFS-NLF-011	4/13/005	6,968	N/A	9.9	0.8	0.3	0.5	412	65	1.6	10	9	NYSDEC Split Sample
CFS-NLF-012	05/16/2005	8,243	N/A	7.1	0.7	0.5	0.5	<b>2,680</b>	<b>2,250</b>	7.3	<b>4,340</b>	<b>3,370</b>	
CFS-NLF-013	05/16/2005	7,787	N/A	6.5	0.7	0.4	0.6	<310	<82	2.1	8	5	NYSDEC Split Sample
CFS-NLF-014	4/13/005	7,619	N/A	5.9	1.2	0.2	0.6	190	53	2.3	6	3	USACE Split Sample
CFS-NLF-015	4/13/005	7,653	N/A	5.4	0.9	0.3	0.6	220	46	1.8	41	57	NYSDEC Split Sample
CFS-NLF-016	4/13/005	7,728	N/A	7.8	0.9	1.4	0.7	240	115	2	74	57	
CFS-NLF-017	4/13/005	8,381	N/A	6.9	0.8	0.5	0.6	317	65	2.1	35	31	
CFS-NLF-018	4/13/005	7,810	N/A	6.5	1.1	0.4	0.8	250	49	2.4	18	26	
CFS-NLF-DUP	05/16/2005	8,303	N/A	8.5	0.9	0.4	0.4	<330	<92	2.4	232	192	

**DATA SUMMARY**

	Average values	7.04	0.84	0.45	0.61	546	313	3.0	330	256	Average values
	Maximum Value	11.30	1.20	1.40	1.10	2,680	2,250	<b>8.0</b>	<b>4,340</b>	<b>3,370</b>	Maximum Value
	Minimum Value	5.30	0.50	0.20	0.40	190	46	1.2	2	3	Minimum Value
	Std Deviation	1.54	0.17	0.27	0.17	706	595	1.8	1,012	783	Std Deviation
	Median Value	6.95	0.85	0.40	0.60	284	115	2.5	31	37	Median Value
	AM Criteria	<35	<2.8	<35	<2.8	1,912	450	7.4	1,912	450	AM Criteria

**Notes**

- 1) Duplicate data was not used in averages.
- 2) Bold data indicates individual value above recommended soil cleanup goals; see notes column.
- 3) Data from USACE and NYSDEC split samples is not yet available.
- 4) No historical Thorium observed in this unit.
- 5) The USACE Splits were from CFS-NLF-006, 009, 011, 013, 015.
- 6) The NYSDEC Splits were from CFS-NLF-002 and CFS-NLF-014.

# Colonie, New York, Site Certification Data Summary Worksheet

**Colonie FUSRAP Site, FSS Reference Area**

**Table 12bb in Appendix B of the Final Site Closeout Report**

Sample ID	Date Collected	FIDLER Static Count	Spa 3 2*2 Static Count	On-Site HPGe Result U-238	On-Site HPGe Result Th-232	Off-site Alpha Spec U-238	Off-Site Alpha Spec Th-232	On-Site Metals (XRF)		Off-site TAL Metals			Notes
								Copper	Lead	Arsenic	Copper	Lead	
		<i>cpm</i>	<i>cpm</i>	<i>pCi/g</i>	<i>pCi/g</i>	<i>pCi/g</i>	<i>pCi/g</i>	<i>(ppm)</i>	<i>(ppm)</i>	<i>(ppm)</i>	<i>(ppm)</i>	<i>(ppm)</i>	
CFS-BKG-001	07/24/2002	8,016	9,254	4.6	0.6	0.9	0.9	<130	65	4.2	14.1	35.1	NYSDEC Split Sample
CFS-BKG-002	07/24/2002	8,140	8,221	8.5	0.8	0.9	0.5	<140	56	4.0	10.4	9.3	NYSDEC Split Sample
CFS-BKG-003	07/24/2002	7,964	7,964	5.9	0.8	0.9	0.7	<130	<33	5.0	9.0	18.3	NYSDEC/USACE Split Sample
CFS-BKG-004	07/24/2002	8,791	8,601	6.2	0.6	1.0	0.5	<130	58	4.2	10.4	12.5	NYSDEC Split Sample
CFS-BKG-005	07/24/2002	8,700	8,596	5.2	1.0	0.6	0.5	<140	43	4.3	12.6	10.9	NYSDEC Split Sample
CFS-BKG-006	07/24/2002	8,892	8,767	8.7	1.2	0.9	0.7	<140	47	4.3	14.8	9.8	NYSDEC/USACE Split Sample
CFS-BKG-007	07/24/2002	8,650	8,197	5.8	0.9	0.8	0.6	<130	57	3.7	7.5	32.6	NYSDEC Split Sample
CFS-BKG-008	07/24/2002	8,669	8,324	7.8	0.9	0.8	0.8	<120	<32	2.6	6.8	7.2	NYSDEC Split Sample
CFS-BKG-009	07/24/2002	8,606	8,449	4.8	0.9	0.2	0.6	<130	<33	3.7	8.9	10.2	NYSDEC Split Sample
CFS-BKG-DUP	07/24/2002	8,900	8,775	N/A	N/A	1.1	0.6	N/A	N/A	3.8	7.6	21.9	Duplicate was -007
<b>DATA SUMMARY</b>													
	<i>Average values</i>			6.39	0.86	0.78	0.65	<132	<47	4.0	10.5	16.2	<i>Average values</i>
	<i>Maximum Value</i>			8.70	1.20	0.99	0.86	<140	65	5.0	14.8	35.1	<i>Maximum Value</i>
	<i>Minimum Value</i>			4.60	0.60	0.23	0.53	<120	<32	2.6	6.8	7.2	<i>Minimum Value</i>
	<i>Std Deviation</i>			1.56	0.19	0.23	0.13	<7	13	0.7	2.8	10.5	<i>Std Deviation</i>
	<i>Median Value</i>			5.90	0.90	0.88	0.57	<130	47	4.2	10.4	10.9	<i>Median Value</i>
	<i>AM Criteria</i>			<35	<2.8	<35	<2.8	1,912	450	7.4	1,912	450	<i>AM Criteria</i>

**Notes**

1) Duplicate data was not used in averages.



# Colonie, New York, Site Map

