BNE Background Location Concentrations of Iodine-131 in Bi-Weekly Air Iodine Samples

BNE Office (COAI01)

| Collect | Collection Period | | | <u>Ci/m³)</u> |
|----------|--------------------------|----------|---|---------------|
| 12/30/08 | _ | 01/14/09 | < | 0.001 |
| 01/14/09 | - | 01/26/09 | < | 0.010 |
| 01/26/09 | - | 02/09/09 | < | 0.004 |
| 02/09/09 | - | 02/23/09 | < | 0.008 |
| 02/23/09 | - | 03/09/09 | < | 0.006 |
| 03/09/09 | - | 03/23/09 | < | 0.006 |
| 03/23/09 | - | 04/08/09 | < | 0.005 |
| 04/08/09 | - | 04/22/09 | < | 0.004 |
| 04/22/09 | - | 05/07/09 | < | 0.003 |
| 05/07/09 | - | 05/18/09 | < | 0.007 |
| 05/18/09 | - | 06/01/09 | < | 0.003 |
| 06/01/09 | - | 06/15/09 | < | 0.004 |
| 06/15/09 | - | 07/01/09 | < | 0.005 |
| 07/01/09 | - | 07/15/09 | < | 0.004 |
| 07/15/09 | - | 07/29/09 | < | 0.006 |
| 07/29/09 | - | 08/10/09 | < | 0.007 |
| 08/10/09 | - | 08/25/09 | < | 0.013 |
| 08/25/09 | - | 09/17/09 | < | 0.004 |
| 09/17/09 | - | 09/24/09 | < | 0.010 |
| 09/24/09 | - | 10/08/09 | < | 0.014 |
| 10/08/09 | - | 10/22/09 | < | 0.014 |
| 10/22/09 | - | 11/04/09 | < | 0.012 |
| 11/04/09 | - | 11/18/09 | < | 0.007 |
| 11/18/09 | - | 11/30/09 | < | 0.015 |
| 11/30/09 | - | 12/14/09 | < | 0.014 |
| 12/14/09 | - | 12/28/09 | < | 0.021 |

BNE Background Location Concentrations of Iodine-131 in Bi-Weekly Air Iodine Samples

Brendan T. Byrne State Forest (COAI02)

| <u>Collect</u> | ion I | <u>Period</u> | <u>I-131 (pC</u> | (i/m³)) |
|----------------|-------|---------------|------------------|---------|
| 12/30/08 | _ | 01/13/09 | < | 0.003 |
| 01/13/09 | - | 01/27/09 | < | 0.008 |
| 01/27/09 | - | 02/10/09 | < | 0.005 |
| 02/10/09 | - | 02/24/09 | < | 0.005 |
| 02/24/09 | - | 03/10/09 | < | 0.008 |
| 03/10/09 | - | 03/24/09 | < | 0.006 |
| 03/24/09 | - | 04/08/09 | < | 0.006 |
| 04/08/09 | - | 04/20/09 | < | 0.006 |
| 04/20/09 | - | 05/04/09 | < | 0.011 |
| 05/04/09 | - | 05/18/09 | < | 0.008 |
| 05/18/09 | - | 06/02/09 | < | 0.003 |
| 06/02/09 | - | 06/16/09 | < | 0.008 |
| 06/16/09 | - | 07/01/09 | < | 0.007 |
| 07/01/09 | - | 07/14/09 | < | 0.005 |
| 07/14/09 | - | 07/28/09 | < | 0.008 |
| 07/28/09 | - | 08/11/09 | < | 0.006 |
| 08/11/09 | - | 08/24/09 | < | 0.016 |
| 08/24/09 | - | 09/07/09 | < | 0.014 |
| 09/07/09 | - | 09/22/09 | < | 0.006 |
| 09/22/09 | - | 10/06/09 | < | 0.008 |
| 10/06/09 | - | 10/23/09 | < | 0.008 |
| 10/23/09 | - | 11/02/09 | < | 0.008 |
| 11/02/09 | - | 11/17/09 | < | 0.009 |
| 11/17/09 | - | 11/30/09 | < | 0.009 |
| 11/30/09 | - | 12/16/09 | < | 0.009 |
| 12/16/09 | - | 12/29/09 | < | 0.026 |

Oyster Creek Concentrations of Iodine-131 in Bi-Weekly Air Iodine Samples

Waretown Municipal Building (OCAI01)

| <u>Collect</u> | ion l | <u>Period</u> | <u>I-131 (pC</u> | <u>I-131 (pCi/m³)</u> | |
|----------------|-------|---------------|------------------|-----------------------|--|
| 12/30/08 | - | 01/13/09 | < | 0.003 | |
| 01/13/09 | - | 01/26/09 | < | 0.012 | |
| 01/26/09 | - | 02/10/09 | < | 0.004 | |
| 02/10/09 | - | 02/24/09 | < | 0.007 | |
| 02/24/09 | - | 03/10/09 | < | 0.005 | |
| 03/10/09 | - | 03/24/09 | < | 0.006 | |
| 03/24/09 | - | 04/06/09 | < | 0.014 | |
| 04/06/09 | - | 04/20/09 | < | 0.008 | |
| 04/20/09 | - | 05/04/09 | < | 0.019 | |
| 05/04/09 | - | 05/18/09 | < | 0.014 | |
| 05/18/09 | - | 06/02/09 | < | 0.006 | |
| 06/02/09 | - | 06/16/09 | < | 0.010 | |
| 06/16/09 | - | 07/01/09 | < | 0.008 | |
| 07/01/09 | - | 07/14/09 | < | 0.009 | |
| 07/14/09 | - | 07/28/09 | < | 0.013 | |
| 07/28/09 | - | 08/11/09 | < | 0.014 | |
| 08/11/09 | - | 08/24/09 | < | 0.019 | |
| 08/24/09 | - | 09/07/09 | < | 0.019 | |
| 09/07/09 | - | 09/22/09 | < | 0.008 | |
| 09/22/09 | - | 10/06/09 | < | 0.013 | |
| 10/06/09 | - | 10/23/09 | < | 0.016 | |
| 10/23/09 | - | 11/02/09 | < | 0.014 | |
| 11/02/09 | - | 11/17/09 | < | 0.008 | |
| 11/17/09 | - | 11/30/09 | < | 0.013 | |
| 11/30/09 | - | 12/16/09 | < | 0.009 | |
| 12/16/09 | - | 12/29/09 | < | 0.023 | |

Oyster Creek Concentrations of Iodine-131 in Bi-Weekly Air Iodine Samples

Sands Point Harbor (OCAI02)

| Collect | ion 1 | <u>Period</u> | <u>I-131 (</u> _I | oCi/m³) |
|----------|-------|---------------|-----------------------------|---------|
| 12/30/08 | _ | 01/13/09 | < | 0.005 |
| 01/13/09 | - | 01/26/09 | < | 0.014 |
| 01/26/09 | - | 02/10/09 | < | 0.006 |
| 02/10/09 | - | 02/24/09 | < | 0.010 |
| 02/24/09 | - | 03/10/09 | < | 0.011 |
| 03/10/09 | - | 03/24/09 | < | 0.012 |
| 03/24/09 | - | 04/06/09 | < | 0.011 |
| 04/06/09 | - | 04/20/09 | < | 0.009 |
| 04/20/09 | - | 05/04/09 | < | 0.020 |
| 05/04/09 | - | 05/18/09 | < | 0.015 |
| 05/18/09 | - | 06/02/09 | < | 0.005 |
| 06/02/09 | - | 06/16/09 | < | 0.012 |
| 06/16/09 | - | 07/01/09 | < | 0.009 |
| 07/01/09 | - | 07/14/09 | < | 0.007 |
| 07/14/09 | - | 07/28/09 | < | 0.009 |
| 07/28/09 | - | 08/11/09 | < | 0.016 |
| 08/11/09 | - | 08/24/09 | < | 0.020 |
| 08/24/09 | - | 09/07/09 | < | 0.022 |
| 09/07/09 | - | 09/22/09 | < | 0.008 |
| 09/22/09 | - | 10/06/09 | < | 0.014 |
| 10/06/09 | - | 10/23/09 | < | 0.012 |
| 10/23/09 | - | 11/02/09 | < | 0.011 |
| 11/02/09 | - | 11/17/09 | < | 0.006 |
| 11/17/09 | - | 11/30/09 | < | 0.012 |
| 11/30/09 | - | 12/16/09 | < | 0.006 |
| 12/16/09 | - | 12/29/09 | < | 0.018 |

Oyster Creek Concentrations of Iodine-131 in Bi-Weekly Air Iodine Samples

Forked River Marina (OCAI03)

| <u>Collect</u> | ion I | <u>Period</u> | <u>I-131 (p</u> | Ci/m³) |
|----------------|-------|---------------|-----------------|--------|
| 12/30/08 | _ | 01/13/09 | < | 0.003 |
| 01/13/09 | - | 01/26/09 | < | 0.012 |
| 01/26/09 | - | 02/10/09 | < | 0.004 |
| 02/10/09 | - | 02/24/09 | < | 0.007 |
| 02/24/09 | - | 03/10/09 | < | 0.015 |
| 03/10/09 | - | 03/24/09 | < | 0.008 |
| 03/24/09 | - | 04/06/09 | < | 0.013 |
| 04/06/09 | - | 04/20/09 | < | 0.005 |
| 04/20/09 | - | 05/04/09 | < | 0.018 |
| 05/04/09 | - | 05/18/09 | < | 0.018 |
| 05/18/09 | - | 06/02/09 | < | 0.005 |
| 06/02/09 | - | 06/16/09 | < | 0.011 |
| 06/16/09 | - | 07/01/09 | < | 0.008 |
| 07/01/09 | - | 07/14/09 | < | 0.008 |
| 07/14/09 | - | 07/28/09 | < | 0.012 |
| 07/28/09 | - | 08/11/09 | < | 0.015 |
| 08/11/09 | - | 08/24/09 | < | 0.023 |
| 08/24/09 | - | 09/07/09 | < | 0.019 |
| 09/07/09 | - | 09/22/09 | < | 0.008 |
| 09/22/09 | - | 10/06/09 | < | 0.011 |
| 10/06/09 | - | 10/23/09 | < | 0.009 |
| 10/23/09 | - | 11/02/09 | < | 0.015 |
| 11/02/09 | - | 11/17/09 | < | 0.010 |
| 11/17/09 | - | 11/30/09 | < | 0.011 |
| 11/30/09 | - | 12/16/09 | < | 0.009 |
| 12/16/09 | - | 12/29/09 | < | 0.019 |

Oyster Creek Concentrations of Iodine-131 in Bi-Weekly Air Iodine Samples

Lacey Township Recreation Building (OCAI04)

| Collecti | ion l | <u>Period</u> | <u>I-131 (p</u> | Ci/m ³) |
|----------|-------|---------------|-----------------|---------------------|
| 12/30/08 | _ | 01/13/09 | < | 0.005 |
| 01/13/09 | - | 01/26/09 | < | 0.027 |
| 01/26/09 | - | 02/10/09 | < | 0.008 |
| 02/10/09 | - | 02/24/09 | < | 0.009 |
| 02/24/09 | - | 03/10/09 | < | 0.019 |
| 03/10/09 | - | 03/24/09 | < | 0.010 |
| 03/24/09 | - | 04/06/09 | < | 0.010 |
| 04/06/09 | - | 04/20/09 | < | 0.010 |
| 04/20/09 | - | 05/04/09 | < | 0.015 |
| 05/04/09 | - | 05/18/09 | < | 0.019 |
| 05/18/09 | - | 06/02/09 | < | 0.005 |
| 06/02/09 | - | 06/16/09 | < | 0.008 |
| 06/16/09 | - | 07/01/09 | < | 0.012 |
| 07/01/09 | - | 07/14/09 | < | 0.007 |
| 07/14/09 | - | 07/28/09 | < | 0.013 |
| 07/28/09 | - | 08/11/09 | < | 0.018 |
| 08/11/09 | - | 08/24/09 | < | 0.020 |
| 08/24/09 | - | 09/07/09 | < | 0.024 |
| 09/07/09 | - | 09/22/09 | < | 0.007 |
| 09/22/09 | - | 10/06/09 | < | 0.014 |
| 10/06/09 | - | 10/23/09 | < | 0.016 |
| 10/23/09 | - | 11/02/09 | < | 0.013 |
| 11/02/09 | - | 11/17/09 | < | 0.009 |
| 11/17/09 | - | 11/30/09 | < | 0.013 |
| 11/30/09 | - | 12/16/09 | < | 0.009 |
| 12/16/09 | - | 12/29/09 | < | 0.019 |

Oyster Creek Concentrations of Iodine-131 in Bi-Weekly Air Iodine Samples

JCP&L Substation (OCAI05)

| Collect | tion] | <u>I-131 (pCi/m³)</u> | |
|----------|--------|-----------------------|---------|
| 12/30/08 | _ | 01/13/09 | < 0.003 |
| 01/13/09 | _ | 01/26/09 | < 0.014 |
| 01/26/09 | - | 02/10/09 | < 0.004 |
| 02/10/09 | - | 02/24/09 | < 0.005 |
| 02/24/09 | - | 03/10/09 | < 0.011 |
| 03/10/09 | - | 03/24/09 | < 0.010 |
| 03/24/09 | - | 04/06/09 | < 0.010 |
| 04/06/09 | - | 04/20/09 | < 0.010 |
| 04/20/09 | - | 05/04/09 | < 0.027 |
| 05/04/09 | - | 05/18/09 | < 0.008 |
| 05/18/09 | - | 06/02/09 | < 0.007 |
| 06/02/09 | - | 06/16/09 | < 0.011 |
| 06/16/09 | - | 07/01/09 | < 0.012 |
| 07/01/09 | - | 07/14/09 | < 0.008 |
| 07/14/09 | - | 07/28/09 | < 0.011 |
| 07/28/09 | - | 08/11/09 | < 0.019 |
| 08/11/09 | - | 08/24/09 | < 0.022 |
| 08/24/09 | - | 09/07/09 | < 0.020 |
| 09/07/09 | - | 09/22/09 | < 0.008 |
| 09/22/09 | - | 10/06/09 | < 0.014 |
| 10/06/09 | - | 10/23/09 | < 0.012 |
| 10/23/09 | - | 11/02/09 | < 0.011 |
| 11/02/09 | - | 11/17/09 | < 0.009 |
| 11/17/09 | - | 11/30/09 | < 0.011 |
| 11/30/09 | - | 12/16/09 | < 0.010 |
| 12/16/09 | - | 12/29/09 | < 0.027 |

Oyster Creek Concentrations of Iodine-131 in Weekly* Air Iodine Samples

Finninger Farm, OC Dredge Site (OCAI06)

| <u>Collect</u> | ion] | <u>Period</u> | <u>I-131 (pe</u> | <u>Ci/m³)</u> |
|----------------|-------|---------------|------------------|---------------|
| 12/30/08 | - | 01/06/09 | < | 0.021 |
| 01/06/09 | - | 01/14/09 | < | 0.008 |
| 01/14/09 | - | 01/21/09 | < | 0.044 |
| 01/21/09 | - | 01/27/09 | < | 0.056 |
| 01/27/09 | - | 02/04/09 | < | 0.023 |
| 02/04/09 | - | 02/11/09 | < | 0.030 |
| 02/11/09 | - | 02/18/09 | < | 0.035 |
| 02/18/09 | - | 02/25/09 | < | 0.019 |
| 02/25/09 | - | 03/04/09 | < | 0.023 |
| 03/04/09 | - | 03/11/09 | < | 0.029 |
| 03/11/09 | - | 03/18/09 | < | 0.040 |
| 03/18/09 | - | 03/25/09 | < | 0.024 |
| 03/25/09 | - | 04/01/09 | < | 0.042 |
| 04/01/09 | - | 04/08/09 | < | 0.022 |
| 04/08/09 | - | 04/15/09 | < | 0.030 |
| 04/15/09 | - | 04/22/09 | < | 0.019 |
| 04/22/09 | - | 04/29/09 | < | 0.030 |
| 04/29/09 | - | 05/06/09 | < | 0.044 |
| 05/06/09 | - | 05/13/09 | < | 0.064 |
| 05/13/09 | - | 05/20/09 | < | 0.050 |
| 05/20/09 | - | 05/27/09 | < | 0.058 |
| 05/27/09 | - | 06/03/09 | < | 0.022 |
| 06/03/09 | - | 06/10/09 | < | 0.024 |
| 06/10/09 | - | 06/17/09 | < | 0.017 |
| 06/17/09 | - | 06/24/09 | < | 0.035 |
| 06/24/09 | - | 07/01/09 | < | 0.031 |

^{*} Air Iodine samples are collected by the licensee on a weekly basis

Oyster Creek Concentrations of Iodine-131 in Weekly* Air Iodine Samples

Finninger Farm, OC Dredge Site (OCAI06)

(continued)

| Collect | ion l | <u>Period</u> | <u>I-131 (p</u> | Ci/m³) |
|----------|-------|---------------|-----------------|--------|
| 07/01/09 | _ | 07/08/09 | < | 0.033 |
| 07/08/09 | - | 07/15/09 | < | 0.027 |
| 07/15/09 | - | 07/22/09 | < | 0.021 |
| 07/22/09 | - | 07/28/09 | < | 0.039 |
| 07/28/09 | - | 08/05/09 | < | 0.027 |
| 08/05/09 | - | 08/12/09 | < | 0.029 |
| 08/12/09 | - | 08/19/09 | < | 0.033 |
| 08/19/09 | - | 08/26/09 | < | 0.022 |
| 08/26/09 | - | 09/02/09 | < | 0.024 |
| 09/02/09 | - | 09/09/09 | < | 0.026 |
| 09/09/09 | - | 09/16/09 | < | 0.036 |
| 09/16/09 | - | 09/23/09 | < | 0.030 |
| 09/23/09 | - | 09/30/09 | < | 0.039 |
| 09/30/09 | - | 10/07/09 | < | 0.025 |
| 10/07/09 | - | 10/14/09 | < | 0.028 |
| 10/14/09 | - | 10/21/09 | < | 0.034 |
| 10/21/09 | - | 10/28/09 | < | 0.037 |
| 10/28/09 | - | 11/04/09 | < | 0.023 |
| 11/04/09 | - | 11/11/09 | < | 0.024 |
| 11/11/09 | - | 11/18/09 | < | 0.034 |
| 11/18/09 | - | 11/24/09 | < | 0.026 |
| 11/24/09 | - | 12/02/09 | < | 0.066 |
| 12/02/09 | - | 12/09/09 | < | 0.018 |
| 12/09/09 | - | 12/16/09 | < | 0.032 |
| 12/16/09 | - | 12/22/09 | < | 0.019 |
| 12/22/09 | - | 12/29/09 | < | 0.016 |
| 12/29/09 | - | 01/06/10 | < | 0.016 |

^{*} Air Iodine samples are collected by the licensee on a weekly basis

Oyster Creek Concentrations of Iodine-131 in Weekly Air Iodine Samples*

Access Road to Finninger Farm Property (ENE Sector) (OCAI07)

| Collection Period | | | <u>I-131 (pC</u> | <u>Ci/m³)</u> |
|--------------------------|---|----------|------------------|---------------|
| 07/14/09 | - | 07/28/09 | < | 0.013 |
| 07/28/09 | - | 08/11/09 | < | 0.020 |
| 08/11/09 | - | 08/24/09 | < | 0.030 |
| 08/24/09 | - | 09/07/09 | < | 0.023 |
| 09/07/09 | - | 09/22/09 | < | 0.008 |
| 09/22/09 | - | 10/06/09 | < | 0.014 |
| 10/06/09 | - | 10/23/09 | < | 0.013 |
| 10/23/09 | - | 11/02/09 | < | 0.016 |
| 11/02/09 | - | 11/17/09 | < | 0.011 |
| 11/17/09 | - | 11/30/09 | < | 0.014 |
| 11/30/09 | - | 12/16/09 | < | 0.011 |
| 12/16/09 | - | 12/29/09 | < | 0.021 |

^{*} New air sampling site- the collection of air particulate and charcoal at this site commenced the week of 07/14/09

Salem/Hope Creek Concentrations of Iodine-131 in Bi-Weekly Air Iodine Samples

Fort Elfsborg Road (AIAI01)

| Collect | ion] | <u>Period</u> | <u>I-131 (p</u> | Ci/m³) |
|----------|-------|---------------|-----------------|--------|
| 12/30/08 | - | 01/14/09 | < | 0.004 |
| 01/14/09 | - | 01/26/09 | < | 0.014 |
| 01/26/09 | - | 02/09/09 | < | 0.006 |
| 02/09/09 | - | 02/23/09 | < | 0.009 |
| 02/23/09 | - | 03/09/09 | < | 0.006 |
| 03/09/09 | - | 03/23/09 | < | 0.008 |
| 03/23/09 | - | 04/07/09 | < | 0.011 |
| 04/07/09 | - | 04/21/09 | < | 0.008 |
| 04/21/09 | - | 05/06/09 | < | 0.007 |
| 05/06/09 | - | 05/18/09 | < | 0.012 |
| 05/18/09 | - | 06/01/09 | < | 0.007 |
| 06/01/09 | - | 06/15/09 | < | 0.007 |
| 06/15/09 | - | 06/29/09 | < | 0.014 |
| 06/29/09 | - | 07/13/09 | < | 0.008 |
| 07/13/09 | - | 07/27/09 | < | 0.013 |
| 07/27/09 | - | 08/10/09 | < | 0.011 |
| 08/10/09 | - | 08/26/09 | < | 0.014 |
| 08/26/09 | - | 09/15/09 | < | 0.008 |
| 09/15/09 | - | 09/21/09 | < | 0.014 |
| 09/21/09 | - | 10/05/09 | < | 0.008 |
| 10/05/09 | - | 10/22/09 | < | 0.016 |
| 10/22/09 | - | 11/02/09 | < | 0.010 |
| 11/02/09 | - | 11/16/09 | < | 0.008 |
| 11/16/09 | - | 11/30/09 | < | 0.011 |
| 11/30/09 | - | 12/14/09 | < | 0.012 |
| 12/14/09 | - | 12/28/09 | < | 0.021 |

Salem/Hope Creek Concentrations of Iodine-131 in Bi-Weekly Air Iodine Samples

Plant Access Road (AIAI02)

| <u>Collect</u> | ion] | <u>Period</u> | <u>I-131 (pCi</u> | <u>/m³)</u> |
|----------------|-------|---------------|-------------------|-------------|
| 12/30/08 | _ | 01/14/09 | < | 0.004 |
| 01/14/09 | _ | 01/26/09 | < | 0.013 |
| 01/26/09 | - | 02/09/09 | < | 0.003 |
| 02/09/09 | - | 02/23/09 | < | 0.009 |
| 02/23/09 | - | 03/09/09 | < | 0.006 |
| 03/09/09 | - | 03/23/09 | < | 0.009 |
| 03/23/09 | - | 04/07/09 | < | 0.010 |
| 04/07/09 | - | 04/21/09 | < | 0.007 |
| 04/21/09 | - | 05/06/09 | < | 0.006 |
| 05/06/09 | - | 05/18/09 | < | 0.010 |
| 05/18/09 | - | 06/01/09 | < | 0.005 |
| 06/01/09 | - | 06/15/09 | < | 0.008 |
| 06/15/09 | - | 06/29/09 | < | 0.011 |
| 06/29/09 | - | 07/13/09 | < | 0.007 |
| 07/13/09 | - | 07/27/09 | < | 0.011 |
| 07/27/09 | - | 08/10/09 | < | 0.010 |
| 08/10/09 | - | 08/26/09 | < | 0.015 |
| 08/26/09 | - | 09/15/09 | < | 0.009 |
| 09/15/09 | - | 09/21/09 | < | 0.013 |
| 09/21/09 | - | 10/05/09 | < | 0.010 |
| 10/05/09 | - | 10/22/09 | < | 0.019 |
| 10/22/09 | - | 11/02/09 | < | 0.009 |
| 11/02/09 | - | 11/16/09 | < | 0.006 |
| 11/16/09 | - | 11/30/09 | < | 0.011 |
| 11/30/09 | - | 12/14/09 | < | 0.010 |
| 12/14/09 | - | 12/28/09 | < | 0.018 |

Salem/Hope Creek Concentrations of Iodine-131 in Bi-Weekly Air Iodine Samples

Lower Alloways Creek School (AIAI03)

| <u>Collect</u> | ion] | <u>Period</u> | <u>I-131 (pc</u> | <u>Ci/m³)</u> |
|----------------|-------|---------------|------------------|---------------|
| 12/30/08 | _ | 01/14/09 | < | 0.004 |
| 01/14/09 | - | 01/26/09 | < | 0.015 |
| 01/26/09 | - | 02/09/09 | < | 0.007 |
| 02/09/09 | - | 02/23/09 | < | 0.003 |
| 02/23/09 | - | 03/09/09 | < | 0.018 |
| 03/09/09 | - | 03/23/09 | < | 0.011 |
| 03/23/09 | - | 04/07/09 | < | 0.010 |
| 04/07/09 | - | 04/21/09 | < | 0.007 |
| 04/21/09 | - | 05/06/09 | < | 0.006 |
| 05/06/09 | - | 05/18/09 | < | 0.011 |
| 05/18/09 | - | 06/01/09 | < | 0.005 |
| 06/01/09 | - | 06/15/09 | < | 0.010 |
| 06/15/09 | - | 06/29/09 | < | 0.013 |
| 06/29/09 | - | 07/13/09 | < | 0.007 |
| 07/13/09 | - | 07/27/09 | < | 0.010 |
| 07/27/09 | - | 08/10/09 | < | 0.014 |
| 08/10/09 | - | 08/26/09 | < | 0.014 |
| 08/26/09 | - | 09/15/09 | < | 0.009 |
| 09/15/09 | - | 09/21/09 | < | 0.010 |
| 09/21/09 | - | 10/05/09 | < | 0.011 |
| 10/05/09 | - | 10/22/09 | < | 0.014 |
| 10/22/09 | - | 11/02/09 | < | 0.010 |
| 11/02/09 | - | 11/16/09 | < | 0.008 |
| 11/16/09 | - | 11/30/09 | < | 0.011 |
| 11/30/09 | - | 12/14/09 | < | 0.010 |
| 12/14/09 | - | 12/28/09 | < | 0.016 |

BNE Background Location Concentrations of Gross Beta in Bi-Weekly Air Particulate Samples

BNE Office (COAP01)

| Collect | tion_ | <u>Period</u> | <u>Parti</u> | culate G (pCi/n | ross Beta 1 ³) |
|----------|-------|---------------|--------------|--------------------|-------------------------------|
| 12/30/08 | _ | 01/14/09 | 0.018 | ± | 0.0013 |
| 01/14/09 | - | 01/26/09 | 0.022 | ± | 0.0017 |
| 01/26/09 | _ | 02/09/09 | 0.017 | ± | 0.0013 |
| 02/09/09 | - | 02/23/09 | 0.013 | ± | 0.0012 |
| 02/23/09 | - | 03/09/09 | 0.020 | ± | 0.0015 |
| 03/09/09 | - | 03/23/09 | 0.019 | ± | 0.0013 |
| 03/23/09 | - | 04/08/09 | 0.009 | ± | 0.0009 |
| 04/08/09 | - | 04/22/09 | 0.015 | ± | 0.0012 |
| 04/22/09 | - | 05/07/09 | 0.012 | ± | 0.0010 |
| 05/07/09 | - | 05/18/09 | 0.012 | ± | 0.0012 |
| 05/18/09 | - | 06/01/09 | 0.011 | ± | 0.0010 |
| 06/01/09 | - | 06/15/09 | 0.003 | ± | 0.0000 |
| 06/15/09 | - | 07/01/09 | 0.013 | ± | 0.0010 |
| 07/01/09 | - | 07/15/09 | 0.013 | ± | 0.0010 |
| 07/15/09 | - | 07/29/09 | 0.019 | ± | 0.0010 |
| 07/29/09 | - | 08/10/09 | 0.019 | ± | 0.0010 |
| 08/10/09 | - | 08/25/09 | 0.019 | ± | 0.0010 |
| 08/25/09 | - | 09/17/09 | 0.017 | ± | 0.0010 |
| 09/17/09 | - | 09/24/09 | 0.020 | \pm | 0.0020 |
| 09/24/09 | - | 10/08/09 | 0.017 | \pm | 0.0010 |
| 10/08/09 | - | 10/22/09 | 0.021 | ± | 0.0010 |
| 10/22/09 | - | 11/04/09 | 0.015 | ± | 0.0010 |
| 11/04/09 | - | 11/18/09 | 0.024 | \pm | 0.0010 |
| 11/18/09 | - | 11/30/09 | 0.020 | \pm | 0.0010 |
| 11/30/09 | - | 12/14/09 | 0.011 | \pm | 0.0010 |
| 12/14/09 | - | 12/28/09 | 0.022 | \pm | 0.0010 |

BNE Background Location Concentrations of Gross Beta in Bi-Weekly Air Particulate Samples

Brendan T. Byrne State Forest (COAP02)

| Collection Period | | | <u>Partio</u> | Particulate Gross Beta (pCi/m³) | | | |
|--------------------------|---|----------|---------------|------------------------------------|--------|--|--|
| 12/30/08 | _ | 01/13/09 | 0.018 | ± | 0.0014 | | |
| 01/13/09 | _ | 01/27/09 | 0.022 | ± | 0.0015 | | |
| 01/27/09 | _ | 02/10/09 | 0.030 | ± | 0.0021 | | |
| 02/10/09 | - | 02/24/09 | 0.011 | \pm | 0.0009 | | |
| 02/24/09 | - | 03/10/09 | 0.017 | \pm | 0.0013 | | |
| 03/10/09 | - | 03/24/09 | 0.019 | \pm | 0.0014 | | |
| 03/24/09 | - | 04/08/09 | 0.009 | \pm | 0.0010 | | |
| 04/08/09 | - | 04/20/09 | 0.016 | ± | 0.0014 | | |
| 04/20/09 | - | 05/04/09 | 0.013 | ± | 0.0011 | | |
| 05/04/09 | - | 05/18/09 | 0.010 | ± | 0.0010 | | |
| 05/18/09 | - | 06/02/09 | 0.011 | ± | 0.0010 | | |
| 06/02/09 | - | 06/16/09 | 0.010 | \pm | 0.0010 | | |
| 06/16/09 | - | 07/01/09 | 0.011 | \pm | 0.0010 | | |
| 07/01/09 | - | 07/14/09 | 0.012 | \pm | 0.0010 | | |
| 07/14/09 | - | 07/28/09 | 0.017 | \pm | 0.0010 | | |
| 07/28/09 | - | 08/11/09 | 0.020 | \pm | 0.0010 | | |
| 08/11/09 | - | 08/24/09 | 0.018 | \pm | 0.0010 | | |
| 08/24/09 | - | 09/07/09 | 0.018 | ± | 0.0010 | | |
| 09/07/09 | - | 09/22/09 | 0.018 | \pm | 0.0010 | | |
| 09/22/09 | - | 10/06/09 | 0.014 | \pm | 0.0010 | | |
| 10/06/09 | - | 10/23/09 | 0.016 | \pm | 0.0010 | | |
| 10/23/09 | - | 11/02/09 | 0.014 | ± | 0.0010 | | |
| 11/02/09 | - | 11/17/09 | 0.019 | \pm | 0.0010 | | |
| 11/17/09 | - | 11/30/09 | 0.021 | \pm | 0.0020 | | |
| 11/30/09 | - | 12/16/09 | 0.010 | ± | 0.0010 | | |
| 12/16/09 | - | 12/29/09 | 0.018 | \pm | 0.0010 | | |

Oyster Creek Concentrations of Gross Beta in Bi-Weekly Air Particulate Samples

Waretown Municipal Building (OCAP01)

| <u>Collect</u> | ion] | <u>Period</u> | <u>Partic</u> | ulate ((pCi/ | Gross Beta 'm³) |
|----------------|-------|---------------|---------------|------------------|--------------------|
| 12/30/08 | _ | 01/13/09 | 0.011 | ± | 0.0012 |
| 01/13/09 | - | 01/26/09 | 0.021 | \pm | 0.0017 |
| 01/26/09 | - | 02/10/09 | 0.021 | ± | 0.0016 |
| 02/10/09 | - | 02/24/09 | 0.013 | \pm | 0.0013 |
| 02/24/09 | - | 03/10/09 | 0.018 | \pm | 0.0015 |
| 03/10/09 | - | 03/24/09 | 0.015 | \pm | 0.0014 |
| 03/24/09 | - | 04/06/09 | 0.011 | \pm | 0.0016 |
| 04/06/09 | - | 04/20/09 | 0.015 | \pm | 0.0016 |
| 04/20/09 | - | 05/04/09 | 0.016 | \pm | 0.0016 |
| 05/04/09 | - | 05/18/09 | 0.011 | \pm | 0.0014 |
| 05/18/09 | - | 06/02/09 | 0.011 | \pm | 0.0010 |
| 06/02/09 | - | 06/16/09 | 0.011 | \pm | 0.0010 |
| 06/16/09 | - | 07/01/09 | 0.011 | \pm | 0.0010 |
| 07/01/09 | - | 07/14/09 | 0.014 | \pm | 0.0010 |
| 07/14/09 | - | 07/28/09 | 0.020 | \pm | 0.0010 |
| 07/28/09 | - | 08/11/09 | 0.020 | \pm | 0.0010 |
| 08/11/09 | - | 08/24/09 | 0.023 | \pm | 0.0010 |
| 08/24/09 | - | 09/07/09 | 0.019 | \pm | 0.0010 |
| 09/07/09 | - | 09/22/09 | 0.016 | \pm | 0.0010 |
| 09/22/09 | - | 10/06/09 | 0.014 | \pm | 0.0010 |
| 10/06/09 | - | 10/23/09 | 0.016 | \pm | 0.0010 |
| 10/23/09 | - | 11/02/09 | 0.016 | \pm | 0.0010 |
| 11/02/09 | - | 11/17/09 | 0.018 | \pm | 0.0010 |
| 11/17/09 | - | 11/30/09 | 0.016 | \pm | 0.0010 |
| 11/30/09 | - | 12/16/09 | 0.021 | \pm | 0.0010 |
| 12/16/09 | - | 12/29/09 | 0.020 | \pm | 0.0010 |

Oyster Creek Concentrations of Gross Beta in Bi-Weekly Air Particulate Samples

Sands Point Harbor (OCAP02)

| Collection Period | | | <u>Partic</u> | Particulate Gross Beta (pCi/m³) | | | |
|-------------------|---|----------|---------------|------------------------------------|--------|--|--|
| 12/30/08 | _ | 01/13/09 | 0.026 | ± | 0.0022 | | |
| 01/13/09 | _ | 01/26/09 | 0.022 | ± | 0.0022 | | |
| 01/26/09 | - | 02/10/09 | 0.023 | <u>±</u> | 0.0020 | | |
| 02/10/09 | - | 02/24/09 | 0.014 | \pm | 0.0017 | | |
| 02/24/09 | - | 03/10/09 | 0.020 | \pm | 0.0020 | | |
| 03/10/09 | - | 03/24/09 | 0.030 | \pm | 0.0024 | | |
| 03/24/09 | - | 04/06/09 | 0.011 | \pm | 0.0015 | | |
| 04/06/09 | - | 04/20/09 | 0.017 | \pm | 0.0018 | | |
| 04/20/09 | - | 05/04/09 | 0.015 | \pm | 0.0016 | | |
| 05/04/09 | - | 05/18/09 | 0.011 | \pm | 0.0014 | | |
| 05/18/09 | - | 06/02/09 | 0.012 | \pm | 0.0010 | | |
| 06/02/09 | - | 06/16/09 | 0.011 | \pm | 0.0010 | | |
| 06/16/09 | - | 07/01/09 | 0.010 | \pm | 0.0010 | | |
| 07/01/09 | - | 07/14/09 | 0.015 | \pm | 0.0010 | | |
| 07/14/09 | - | 07/28/09 | 0.017 | \pm | 0.0010 | | |
| 07/28/09 | - | 08/11/09 | 0.019 | \pm | 0.0010 | | |
| 08/11/09 | - | 08/24/09 | 0.022 | \pm | 0.0010 | | |
| 08/24/09 | - | 09/07/09 | 0.015 | \pm | 0.0010 | | |
| 09/07/09 | - | 09/22/09 | 0.017 | \pm | 0.0010 | | |
| 09/22/09 | - | 10/06/09 | 0.014 | \pm | 0.0010 | | |
| 10/06/09 | - | 10/23/09 | 0.018 | \pm | 0.0010 | | |
| 10/23/09 | - | 11/02/09 | 0.016 | \pm | 0.0010 | | |
| 11/02/09 | - | 11/17/09 | 0.017 | \pm | 0.0010 | | |
| 11/17/09 | - | 11/30/09 | 0.016 | \pm | 0.0010 | | |
| 11/30/09 | - | 12/16/09 | 0.021 | \pm | 0.0010 | | |
| 12/16/09 | - | 12/29/09 | 0.019 | \pm | 0.0010 | | |

Oyster Creek Concentrations of Gross Beta in Bi-Weekly Air Particulate Samples

Forked River Marina (OCAP03)

| <u>Collec</u> | <u>tion</u> | <u>Period</u> | | | te Gross Ci/m³) |
|---------------|-------------|---------------|-------|-------|--------------------|
| 12/30/08 | _ | 01/13/09 | 0.017 | ± | 0.0015 |
| 01/13/09 | - | 01/26/09 | 0.022 | ± | 0.0018 |
| 01/26/09 | - | 02/10/09 | 0.022 | \pm | 0.0016 |
| 02/10/09 | - | 02/24/09 | 0.015 | \pm | 0.0014 |
| 02/24/09 | - | 03/10/09 | 0.019 | \pm | 0.0016 |
| 03/10/09 | - | 03/24/09 | 0.021 | ± | 0.0016 |
| 03/24/09 | - | 04/06/09 | 0.011 | ± | 0.0015 |
| 04/06/09 | - | 04/20/09 | 0.017 | \pm | 0.0017 |
| 04/20/09 | - | 05/04/09 | 0.014 | \pm | 0.0015 |
| 05/04/09 | - | 05/18/09 | 0.010 | \pm | 0.0013 |
| 05/18/09 | - | 06/02/09 | 0.012 | \pm | 0.0010 |
| 06/02/09 | - | 06/16/09 | 0.010 | \pm | 0.0010 |
| 06/16/09 | - | 07/01/09 | 0.010 | \pm | 0.0010 |
| 07/01/09 | - | 07/14/09 | 0.013 | \pm | 0.0010 |
| 07/14/09 | - | 07/28/09 | 0.017 | \pm | 0.0010 |
| 07/28/09 | - | 08/11/09 | 0.020 | \pm | 0.0010 |
| 08/11/09 | - | 08/24/09 | 0.021 | \pm | 0.0010 |
| 08/24/09 | - | 09/07/09 | 0.019 | \pm | 0.0010 |
| 09/07/09 | - | 09/22/09 | 0.018 | \pm | 0.0010 |
| 09/22/09 | - | 10/06/09 | 0.015 | \pm | 0.0010 |
| 10/06/09 | - | 10/23/09 | 0.016 | \pm | 0.0010 |
| 10/23/09 | - | 11/02/09 | 0.017 | \pm | 0.0010 |
| 11/02/09 | - | 11/17/09 | 0.019 | \pm | 0.0010 |
| 11/17/09 | - | 11/30/09 | 0.016 | ± | 0.0010 |
| 11/30/09 | - | 12/16/09 | 0.024 | ± | 0.0010 |
| 12/16/09 | - | 12/29/09 | 0.020 | ± | 0.0010 |

Oyster Creek Concentrations of Gross Beta in Bi-Weekly Air Particulate Samples

Lacey Twp. Recreation Building (OCAP04)

| <u>Collect</u> | ion] | <u>Period</u> | <u>Partic</u> | ulate Gr (pCi/m³ | |
|----------------|-------|---------------|---------------|---------------------|--------|
| 12/30/08 | _ | 01/13/09 | 0.019 | ± | 0.0018 |
| 01/13/09 | _ | 01/26/09 | 0.022 | <u>±</u> | 0.0021 |
| 01/26/09 | - | 02/10/09 | 0.021 | <u>+</u> | 0.0018 |
| 02/10/09 | - | 02/24/09 | 0.014 | <u>+</u> | 0.0015 |
| 02/24/09 | - | 03/10/09 | 0.018 | <u>+</u> | 0.0017 |
| 03/10/09 | - | 03/24/09 | 0.024 | <u>±</u> | 0.0020 |
| 03/24/09 | - | 04/06/09 | 0.010 | <u>±</u> | 0.0013 |
| 04/06/09 | - | 04/20/09 | 0.016 | <u>±</u> | 0.0016 |
| 04/20/09 | - | 05/04/09 | 0.016 | ± | 0.0016 |
| 05/04/09 | - | 05/18/09 | 0.010 | <u>±</u> | 0.0013 |
| 05/18/09 | - | 06/02/09 | 0.011 | <u>±</u> | 0.0010 |
| 06/02/09 | - | 06/16/09 | 0.010 | <u>±</u> | 0.0010 |
| 06/16/09 | - | 07/01/09 | 0.011 | \pm | 0.0010 |
| 07/01/09 | - | 07/14/09 | 0.013 | <u>±</u> | 0.0010 |
| 07/14/09 | - | 07/28/09 | 0.018 | <u>±</u> | 0.0010 |
| 07/28/09 | - | 08/11/09 | 0.019 | <u>±</u> | 0.0010 |
| 08/11/09 | - | 08/24/09 | 0.021 | <u>±</u> | 0.0010 |
| 08/24/09 | - | 09/07/09 | 0.019 | <u>±</u> | 0.0010 |
| 09/07/09 | - | 09/22/09 | 0.019 | <u>±</u> | 0.0010 |
| 09/22/09 | - | 10/06/09 | 0.019 | <u>±</u> | 0.0010 |
| 10/06/09 | - | 10/23/09 | 0.016 | <u>±</u> | 0.0010 |
| 10/23/09 | - | 11/02/09 | 0.014 | <u>±</u> | 0.0010 |
| 11/02/09 | - | 11/17/09 | 0.020 | <u>±</u> | 0.0010 |
| 11/17/09 | - | 11/30/09 | 0.017 | \pm | 0.0010 |
| 11/30/09 | - | 12/16/09 | 0.019 | ± | 0.0010 |
| 12/16/09 | - | 12/29/09 | | < 0.000 | 5 |

^{*} Air particulate filter beta activity was negligible

Oyster Creek Concentrations of Gross Beta in Bi-Weekly Air Particulate Samples

JCP&L Substation (OCAP05)

| Collec | tion | <u>Period</u> | | ate Gi pCi/m | ross Beta 3) |
|----------|------|---------------|-------|-----------------|--------------|
| 12/30/08 | _ | 01/13/09 | 0.017 | <u>±</u> | 0.0012 |
| 01/13/09 | _ | 01/26/09 | 0.019 | \pm | 0.0014 |
| 01/26/09 | _ | 02/10/09 | 0.019 | \pm | 0.0013 |
| 02/10/09 | - | 02/24/09 | 0.013 | <u>+</u> | 0.0011 |
| 02/24/09 | - | 03/10/09 | 0.013 | <u>±</u> | 0.0011 |
| 03/10/09 | - | 03/24/09 | 0.019 | <u>±</u> | 0.0014 |
| 03/24/09 | - | 04/06/09 | 0.012 | <u>±</u> | 0.0014 |
| 04/06/09 | - | 04/20/09 | 0.015 | \pm | 0.0016 |
| 04/20/09 | - | 05/04/09 | 0.015 | \pm | 0.0015 |
| 05/04/09 | - | 05/18/09 | 0.011 | <u>±</u> | 0.0013 |
| 05/18/09 | - | 06/01/09 | 0.011 | <u>±</u> | 0.0010 |
| 06/01/09 | - | 06/16/09 | 0.010 | \pm | 0.0010 |
| 06/16/09 | - | 07/01/09 | 0.010 | \pm | 0.0010 |
| 07/01/09 | - | 07/14/09 | 0.014 | \pm | 0.0010 |
| 07/14/09 | - | 07/28/09 | 0.021 | \pm | 0.0010 |
| 07/28/09 | - | 08/11/09 | 0.019 | \pm | 0.0010 |
| 08/11/09 | - | 08/24/09 | 0.021 | \pm | 0.0010 |
| 08/24/09 | - | 09/07/09 | 0.020 | \pm | 0.0010 |
| 09/07/09 | - | 09/22/09 | 0.016 | \pm | 0.0010 |
| 09/22/09 | - | 10/06/09 | 0.014 | \pm | 0.0010 |
| 10/06/09 | - | 10/23/09 | 0.018 | \pm | 0.0010 |
| 10/23/09 | - | 11/02/09 | 0.016 | \pm | 0.0010 |
| 11/02/09 | - | 11/17/09 | 0.018 | \pm | 0.0010 |
| 11/17/09 | - | 11/30/09 | 0.018 | ± | 0.0010 |
| 11/30/09 | - | 12/16/09 | 0.023 | ± | 0.0010 |
| 12/16/09 | - | 12/29/09 | 0.018 | ± | 0.0010 |

Oyster Creek Concentrations of Gross Beta in Weekly* Air Particulate Samples

Finninger Farm, OC Dredge Site (OCAP06)

| Collect | tion] | <u>Period</u> | <u>Partic</u> | ulate Gro (pCi/m³) | |
|----------|--------|---------------|---------------|-----------------------|---------|
| 12/30/08 | _ | 01/06/09 | 0.027 | ± | 0.0043 |
| 01/06/09 | - | 01/14/09 | 0.023 | <u>±</u> | 0.0037 |
| 01/14/09 | - | 01/21/09 | 0.026 | <u>±</u> | 0.0045 |
| 01/21/09 | - | 01/27/09 | No Data | | No Data |
| 01/27/09 | - | 02/04/09 | 0.030 | ± | 0.0044 |
| 02/04/09 | - | 02/11/09 | 0.028 | ± | 0.0047 |
| 02/11/09 | - | 02/18/09 | 0.016 | ± | 0.0037 |
| 02/18/09 | - | 02/25/09 | 0.021 | <u>±</u> | 0.0041 |
| 02/25/09 | - | 03/04/09 | 0.026 | <u>±</u> | 0.0044 |
| 03/04/09 | - | 03/11/09 | 0.029 | <u>±</u> | 0.0048 |
| 03/11/09 | - | 03/18/09 | 0.034 | <u>±</u> | 0.0052 |
| 03/18/09 | - | 03/25/09 | 0.024 | \pm | 0.0046 |
| 03/25/09 | - | 04/01/09 | 0.017 | \pm | 0.0041 |
| 04/01/09 | - | 04/08/09 | 0.020 | \pm | 0.0043 |
| 04/08/09 | - | 04/15/09 | 0.025 | \pm | 0.0047 |
| 04/15/09 | - | 04/22/09 | 0.019 | \pm | 0.0042 |
| 04/22/09 | - | 04/29/09 | 0.029 | \pm | 0.0049 |
| 04/29/09 | - | 05/06/09 | 0.017 | <u>±</u> | 0.0041 |
| 05/06/09 | - | 05/13/09 | 0.017 | \pm | 0.0040 |
| 05/13/09 | - | 05/20/09 | 0.016 | <u>±</u> | 0.0039 |
| 05/20/09 | - | 05/27/09 | 0.017 | <u>±</u> | 0.0040 |
| 05/27/09 | - | 06/03/09 | 0.019 | <u>±</u> | 0.0020 |
| 06/03/09 | - | 06/10/09 | 0.016 | \pm | 0.0020 |
| 06/10/09 | - | 06/17/09 | 0.016 | \pm | 0.0020 |
| 06/17/09 | - | 06/24/09 | 0.016 | ± | 0.0020 |
| 06/24/09 | - | 07/01/09 | 0.022 | \pm | 0.0030 |

^{*} Air particulate samples are collected by the licensee on a weekly basis

[&]quot;No Data" indicates no sample results due to maintenance issues with equipment

Oyster Creek Concentrations of Gross Beta in Weekly* Air Particulate Samples

Finninger Farm, OC Dredge Site (OCAP06) (continued)

| Collec | tion] | <u>Period</u> | <u>Partic</u> | ulate Gro (pCi/m³ | |
|----------|--------|---------------|---------------|----------------------|--------|
| 07/01/09 | _ | 07/08/09 | 0.022 | ± | 0.0020 |
| 07/08/09 | _ | 07/15/09 | 0.020 | ± | 0.0030 |
| 07/15/09 | - | 07/22/09 | 0.028 | ± | 0.0030 |
| 07/22/09 | - | 07/28/09 | 0.031 | <u>±</u> | 0.0030 |
| 07/28/09 | - | 08/05/09 | 0.018 | <u>±</u> | 0.0020 |
| 08/05/09 | - | 08/12/09 | 0.037 | <u>±</u> | 0.0040 |
| 08/12/09 | - | 08/19/09 | 0.035 | ± | 0.0030 |
| 08/19/09 | - | 08/26/09 | 0.023 | ± | 0.0030 |
| 08/26/09 | - | 09/02/09 | 0.028 | ± | 0.0030 |
| 09/02/09 | - | 09/09/09 | 0.029 | ± | 0.0030 |
| 09/09/09 | - | 09/16/09 | 0.024 | ± | 0.0030 |
| 09/16/09 | - | 09/23/09 | 0.021 | ± | 0.0030 |
| 09/23/09 | - | 09/30/09 | 0.022 | ± | 0.0030 |
| 09/30/09 | - | 10/07/09 | 0.026 | \pm | 0.0030 |
| 10/07/09 | - | 10/14/09 | 0.028 | ± | 0.0030 |
| 10/14/09 | - | 10/21/09 | 0.025 | ± | 0.0030 |
| 10/21/09 | - | 10/28/09 | 0.025 | ± | 0.0030 |
| 10/28/09 | - | 11/04/09 | 0.017 | ± | 0.0020 |
| 11/04/09 | - | 11/11/09 | 0.036 | ± | 0.0040 |
| 11/11/09 | - | 11/18/09 | 0.020 | ± | 0.0030 |
| 11/18/09 | - | 11/24/09 | 0.026 | <u>±</u> | 0.0030 |
| 11/24/09 | - | 12/02/09 | 0.020 | ± | 0.0040 |
| 12/02/09 | - | 12/09/09 | 0.029 | ± | 0.0040 |
| 12/09/09 | - | 12/16/09 | 0.033 | ± | 0.0040 |
| 12/16/09 | - | 12/22/09 | 0.031 | ± | 0.0030 |
| 12/22/09 | - | 12/29/09 | 0.021 | ± | 0.0030 |
| 12/29/09 | - | 01/01/06 | 0.025 | ± | 0.0030 |

^{*} Air particulate samples are collected by the licensee on a weekly basis

Oyster Creek Concentrations of Gross Beta in Weekly Air Particulate Samples

Access Road to Finninger Farm Property (ENE Sector) (OCAI07)

| Collection Period | | | <u>Partic</u> | Particulate Gross Beta (pCi/m³) | | | |
|--------------------------|---|----------|---------------|------------------------------------|--------|--|--|
| 07/14/09 | _ | 07/28/09 | 0.016 | ± | 0.0010 | | |
| 07/28/09 | - | 08/11/09 | 0.021 | ± | 0.0010 | | |
| 08/11/09 | - | 08/24/09 | 0.021 | ± | 0.0010 | | |
| 08/24/09 | - | 09/07/09 | 0.018 | ± | 0.0010 | | |
| 09/07/09 | - | 09/22/09 | 0.017 | ± | 0.0010 | | |
| 09/22/09 | - | 10/06/09 | 0.016 | ± | 0.0010 | | |
| 10/06/09 | - | 10/23/09 | 0.017 | ± | 0.0010 | | |
| 10/23/09 | - | 11/02/09 | 0.015 | ± | 0.0010 | | |
| 11/02/09 | - | 11/17/09 | 0.017 | ± | 0.0010 | | |
| 11/17/09 | _ | 11/30/09 | 0.018 | ± | 0.0010 | | |
| 11/30/09 | - | 12/16/09 | 0.011 | ± | 0.0010 | | |
| 12/16/09 | - | 12/29/09 | 0.019 | ± | 0.0010 | | |

^{*} New air sampling site- the collection of air particulate filters at this site commenced the week of 07/14/09

Salem/Hope Creek Concentrations of Gross Beta in Bi-Weekly Air Particulate Samples

Fort Elfsborg Road (AIAP01)

| Collect | tion] | <u>Period</u> | <u>Partic</u> | ulate (pCi | Gross Beta/m³) |
|----------|--------|---------------|---------------|---------------|----------------|
| 12/30/08 | - | 01/14/09 | 0.018 | ± | 0.0015 |
| 01/14/09 | - | 01/26/09 | 0.023 | ± | 0.0019 |
| 01/26/09 | - | 02/09/09 | 0.019 | ± | 0.0016 |
| 02/09/09 | - | 02/23/09 | 0.015 | ± | 0.0015 |
| 02/23/09 | - | 03/09/09 | 0.020 | \pm | 0.0016 |
| 03/09/09 | - | 03/23/09 | 0.020 | ± | 0.0015 |
| 03/23/09 | - | 04/07/09 | 0.011 | \pm | 0.0015 |
| 04/07/09 | - | 04/21/09 | 0.017 | \pm | 0.0018 |
| 04/21/09 | - | 05/06/09 | 0.014 | \pm | 0.0016 |
| 05/06/09 | - | 05/18/09 | 0.011 | \pm | 0.0015 |
| 05/18/09 | - | 06/01/09 | 0.012 | \pm | 0.0010 |
| 06/01/09 | - | 06/15/09 | 0.013 | \pm | 0.0010 |
| 06/15/09 | - | 06/29/09 | 0.012 | \pm | 0.0010 |
| 06/29/09 | - | 07/13/09 | 0.014 | \pm | 0.0010 |
| 07/13/09 | - | 07/27/09 | 0.021 | \pm | 0.0010 |
| 07/27/09 | - | 08/10/09 | 0.023 | \pm | 0.0010 |
| 08/10/09 | - | 08/26/09 | 0.019 | \pm | 0.0010 |
| 08/26/09 | - | 09/15/09 | 0.019 | \pm | 0.0010 |
| 09/15/09 | - | 09/21/09 | 0.023 | \pm | 0.0020 |
| 09/21/09 | - | 10/05/09 | 0.015 | \pm | 0.0010 |
| 10/05/09 | - | 10/22/09 | 0.018 | \pm | 0.0010 |
| 10/22/09 | - | 11/02/09 | 0.018 | \pm | 0.0010 |
| 11/02/09 | - | 11/16/09 | 0.023 | \pm | 0.0010 |
| 11/16/09 | - | 11/30/09 | 0.020 | \pm | 0.0010 |
| 11/30/09 | - | 12/14/09 | 0.024 | \pm | 0.0010 |
| 12/14/09 | - | 12/28/09 | 0.018 | <u>±</u> | 0.0010 |

Salem/Hope Creek Concentrations of Gross Beta in Bi-Weekly Air Particulate Samples

Plant Access Road (AIAP02)

| Collect | tion I | <u>Period</u> | | ate <u>G</u> pCi/m | ross Beta |
|----------|--------|---------------|-------|-----------------------|-----------|
| 12/30/08 | _ | 01/14/09 | 0.017 | ± | 0.0015 |
| 01/14/09 | - | 01/26/09 | 0.024 | ± | 0.0020 |
| 01/26/09 | - | 02/09/09 | 0.020 | ± | 0.0017 |
| 02/09/09 | - | 02/23/09 | 0.015 | ± | 0.0015 |
| 02/23/09 | - | 03/09/09 | 0.019 | ± | 0.0016 |
| 03/09/09 | - | 03/23/09 | 0.021 | ± | 0.0017 |
| 03/23/09 | - | 04/07/09 | 0.013 | ± | 0.0014 |
| 04/07/09 | - | 04/21/09 | 0.016 | \pm | 0.0016 |
| 04/21/09 | - | 05/06/09 | 0.014 | \pm | 0.0015 |
| 05/06/09 | - | 05/18/09 | 0.011 | \pm | 0.0014 |
| 05/18/09 | - | 06/01/09 | 0.012 | \pm | 0.0010 |
| 06/01/09 | - | 06/15/09 | 0.008 | \pm | 0.0010 |
| 06/15/09 | - | 06/29/09 | 0.011 | \pm | 0.0010 |
| 06/29/09 | - | 07/13/09 | 0.014 | \pm | 0.0010 |
| 07/13/09 | - | 07/27/09 | 0.020 | \pm | 0.0010 |
| 07/27/09 | - | 08/10/09 | 0.022 | \pm | 0.0010 |
| 08/10/09 | - | 08/26/09 | 0.017 | \pm | 0.0010 |
| 08/26/09 | - | 09/15/09 | 0.018 | \pm | 0.0010 |
| 09/15/09 | - | 09/21/09 | 0.021 | \pm | 0.0020 |
| 09/21/09 | - | 10/05/09 | 0.015 | \pm | 0.0010 |
| 10/05/09 | - | 10/22/09 | 0.018 | \pm | 0.0010 |
| 10/22/09 | - | 11/02/09 | 0.016 | \pm | 0.0010 |
| 11/02/09 | - | 11/16/09 | 0.023 | \pm | 0.0010 |
| 11/16/09 | - | 11/30/09 | 0.019 | \pm | 0.0010 |
| 11/30/09 | - | 12/14/09 | 0.023 | ± | 0.0010 |
| 12/14/09 | - | 12/28/09 | 0.020 | \pm | 0.0010 |

Salem/Hope Creek Concentrations of Gross Beta in Bi-Weekly Air Particulate Samples

Lower Alloways Creek School (AIAP03)

| Collec | tion | <u>Period</u> | | | te Gross Ci/m³) |
|----------|------|---------------|-------|-------|--------------------|
| 12/30/08 | _ | 01/14/09 | 0.022 | ± | 0.0018 |
| 01/14/09 | - | 01/26/09 | 0.024 | ± | 0.0021 |
| 01/26/09 | - | 02/09/09 | 0.019 | \pm | 0.0018 |
| 02/09/09 | - | 02/23/09 | 0.010 | ± | 0.0011 |
| 02/23/09 | - | 03/09/09 | 0.033 | ± | 0.0031 |
| 03/09/09 | - | 03/23/09 | 0.019 | ± | 0.0018 |
| 03/23/09 | - | 04/07/09 | 0.011 | \pm | 0.0013 |
| 04/07/09 | - | 04/21/09 | 0.015 | \pm | 0.0016 |
| 04/21/09 | - | 05/06/09 | 0.015 | ± | 0.0015 |
| 05/06/09 | - | 05/18/09 | 0.011 | \pm | 0.0014 |
| 05/18/09 | - | 06/01/09 | 0.012 | \pm | 0.0010 |
| 06/01/09 | - | 06/15/09 | 0.012 | \pm | 0.0010 |
| 06/15/09 | - | 06/29/09 | 0.011 | \pm | 0.0010 |
| 06/29/09 | - | 07/13/09 | 0.014 | \pm | 0.0010 |
| 07/13/09 | - | 07/27/09 | 0.018 | \pm | 0.0010 |
| 07/27/09 | - | 08/10/09 | 0.019 | \pm | 0.0010 |
| 08/10/09 | - | 08/26/09 | 0.020 | \pm | 0.0010 |
| 08/26/09 | - | 09/15/09 | 0.016 | \pm | 0.0010 |
| 09/15/09 | - | 09/21/09 | 0.021 | \pm | 0.0020 |
| 09/21/09 | - | 10/05/09 | 0.016 | \pm | 0.0010 |
| 10/05/09 | - | 10/22/09 | 0.018 | \pm | 0.0010 |
| 10/22/09 | - | 11/02/09 | 0.015 | \pm | 0.0010 |
| 11/02/09 | - | 11/16/09 | 0.020 | \pm | 0.0010 |
| 11/16/09 | - | 11/30/09 | 0.015 | \pm | 0.0010 |
| 11/30/09 | - | 12/14/09 | 0.021 | ± | 0.0010 |
| 12/14/09 | - | 12/28/09 | 0.021 | \pm | 0.0010 |

BNE Background Location Concentrations of Gamma Emitters and Strontium in Quarterly Composite Air Samples

| BNE Office | e (CC |)AP01) | | | | | | |
|--------------------------|--------|-----------------|--------------|---------------|---------------|--------------|--------------|--------------|
| Collection Period | | <u>Co-60</u> | Cs-134 | <u>Cs-137</u> | <u>Be-7</u> | <u>Sr-89</u> | <u>Sr-90</u> | |
| 12/30/08 | - | 03/23/09 | < 1.3 | < 1.5 | < 1.3 | 80 ± 30 | < 11.0 | < 0.7 |
| 03/23/09 | - | 07/01/09 | < 0.2 | < 0.2 | < 0.2 | < 5.0 | < 0.4 | < 0.4 |
| 07/01/09 | - | 09/24/09 | < 0.5 | < 0.5 | < 0.5 | < 14.0 | < 0.8 | < 0.1 |
| 09/24/09 | - | 12/28/09 | < 0.5 | < 0.7 | < 0.5 | < 15.0 | < 0.3 | < 0.1 |
| | | | | | | | | |
| Brendan T. | . Byr | ne State Fore | st (COAP02 | <u>)</u> | | | | |
| <u>Colle</u> | ection | <u>ı Period</u> | <u>Co-60</u> | <u>Cs-134</u> | Cs-137 | Be-7 | <u>Sr-89</u> | <u>Sr-90</u> |
| 12/30/08 | - | 03/24/09 | < 1.4 | < 1.2 | < 1.0 | 96 ± 29 | < 5.4 | < 0.6 |
| 03/24/09 | - | 07/01/09 | < 0.2 | < 0.2 | < 0.3 | < 6.0 | < 0.3 | < 0.3 |
| 07/01/09 | - | 09/22/09 | < 0.6 | < 0.5 | < 0.5 | < 17.0 | < 1.0 | < .2 |
| 09/22/09 | - | 12/29/09 | < 0.5 | < 0.5 | < 0.5 | < 8.0 | < 0.3 | < 0.1 |

Results in 10⁻³ picoCuries per cubic meter (pCi/m³) +/- 2 Standard Deviations

Oyster Creek Concentrations of Gamma Emitters and Strontium in Quarterly Composite Air Samples

| Waretown | Mui | nicipal Buildir | ng (OCAP01 | <u>()</u> | | | | |
|--------------|------|----------------------|--------------|---------------|---------------|--------------|--------------|--------------|
| Colle | ctio | n Period | <u>Co-60</u> | Cs-134 | <u>Cs-137</u> | Be-7 | <u>Sr-89</u> | <u>Sr-90</u> |
| 12/30/08 | - | 03/24/09 | < 1.3 | < 1.1 | < 1.6 | 96 ± 38 | < 13.3 | < 1.0 |
| 03/24/09 | - | 07/01/09 | < 0.3 | < 0.4 | < 0.4 | < 10.0 | < 0.3 | < 0.3 |
| 07/01/09 | - | 09/22/09 | < 0.7 | < 0.7 | < 0.7 | < 25.0 | < 2.0 | < 0.3 |
| 09/22/09 | - | 12/29/09 | < 0.5 | < 0.5 | < 0.5 | < 12.0 | < 0.3 | < 0.1 |
| | | | | | | | | |
| Sands Poin | t Ha | rbor (OCAPO | <u>12</u>) | | | | | |
| <u>Colle</u> | ctio | <u>n Period</u> | <u>Co-60</u> | <u>Cs-134</u> | <u>Cs-137</u> | <u>Be-7</u> | <u>Sr-89</u> | <u>Sr-90</u> |
| 12/30/08 | - | 03/24/09 | < 2.6 | < 2.5 | < 2.5 | 136 ± 51 | < 15.0 | < 1.4 |
| 03/24/09 | - | 07/01/09 | < 0.4 | < 0.4 | < 0.3 | < 9.0 | < 0.4 | < 0.4 |
| 07/01/09 | - | 09/22/09 | < 0.9 | < 0.9 | < 0.7 | < 30.0 | < 1.0 | < 0.2 |
| 09/22/09 | - | 12/29/09 | < 0.7 | < 0.4 | < 0.6 | < 12.0 | < 0.3 | < 0.1 |
| | | | | | | | | |
| | | <u> Iarina (OCAI</u> | | | | | | |
| | ctio | <u>n Period</u> | <u>Co-60</u> | <u>Cs-134</u> | <u>Cs-137</u> | <u>Be-7</u> | <u>Sr-89</u> | <u>Sr-90</u> |
| 12/30/08 | - | 03/24/09 | < 1.8 | < 2.0 | < 1.4 | 82 ± 25 | < 10.1 | < 1.1 |
| 03/24/09 | - | 07/01/09 | < 0.4 | < 0.4 | < 0.3 | < 9.0 | < 0.4 | < 0.4 |
| 07/01/09 | - | 09/22/09 | < 0.8 | < 0.8 | < 0.7 | < 26.0 | < 1.0 | < 0.2 |
| 09/22/09 | - | 12/29/09 | < 0.6 | < 0.5 | < 0.5 | < 12.0 | < 0.3 | < 0.1 |
| | | | | | | | | |
| | | p Recreation | | | | | | |
| | ctio | n Period | <u>Co-60</u> | <u>Cs-134</u> | <u>Cs-137</u> | <u>Be-7</u> | <u>Sr-89</u> | <u>Sr-90</u> |
| 12/30/08 | - | 03/24/09 | < 1.7 | < 2.2 | < 1.7 | 107 ± 36 | < 14.0 | < 1.1 |
| 03/24/09 | - | 07/01/09 | < 0.4 | < 0.3 | < 0.3 | < 9.0 | < 0.4 | < 0.3 |
| 07/01/09 | - | 09/22/09 | < 0.8 | < 1.0 | < 0.9 | < 33.0 | < 1.0 | < 0.2 |
| 09/22/09 | - | 12/29/09 | < 0.5 | < 0.4 | < 0.6 | < 12.0 | < 0.4 | < 0.1 |

Results in 10⁻³ picoCuries per cubic meter (pCi/m³) +/- 2 Standard Deviations

Oyster Creek Concentrations of Gamma Emitters and Strontium in Quarterly Composite Air Samples

Jersey Central Power and Light Substation (OCAP05)

| Collection Period | | <u>Co-60</u> | <u>Cs-134</u> | <u>Cs-137</u> | <u>Be-7</u> | <u>Sr-89</u> | <u>Sr-90</u> | |
|-------------------|---|--------------|---------------|---------------|-------------|--------------|--------------|-------|
| 12/30/08 | - | 03/24/09 | < 1.2 | < 1.4 | < 1.0 | 120 ± 26 | < 9.4 | < 0.8 |
| 03/24/09 | - | 07/01/09 | < 0.3 | < 0.4 | < 0.3 | < 9.0 | < 0.4 | < 0.4 |
| 07/01/09 | - | 09/22/09 | < 0.7 | < 0.8 | < 0.8 | < 35.0 | < 1.0 | < 0.2 |
| 09/22/09 | - | 12/29/09 | < 0.6 | < 0.5 | < 0.5 | < 14.0 | < 0.5 | < 0.1 |

Finninger Farm, OC Dredge Site (OCAP06)

| Colle | ection | <u> Period</u> | <u>Co-60</u> | Cs-134 | Cs-137 | Be-7 | <u>Sr-89</u> | <u>Sr-90</u> |
|----------|--------|----------------|--------------|--------|--------|-------------|--------------|--------------|
| 12/30/08 | - | 03/24/09 | < 5.2 | < 4.4 | < 4.0 | < 105.0 | < 28.4 | < 1.6 |
| 03/24/09 | - | 07/01/09 | < 0.8 | < 0.7 | < 0.8 | < 17.0 | < 0.4 | < 0.4 |
| 07/01/09 | _ | 09/30/09 | < 1.0 | < 1.0 | < 2.0 | < 44.0 | < 3.0 | < 0.4 |
| 09/30/09 | _ | 12/29/09 | < 1.0 | < 1.0 | < 1.0 | < 25.0 | < 0.8 | < 0.2 |

Access Road, Finninger Farm Property (ENE Sector) (OCAP07)*

| <u>Colle</u> | <u>ction</u> | <u>n Period</u> | <u>Co-60</u> | <u>Cs-134</u> | <u>Cs-137</u> | <u>Be-7</u> | <u>Sr-89</u> | <u>Sr-90</u> |
|--------------|--------------|-----------------|--------------|---------------|---------------|-------------|--------------|--------------|
| 07/01/09 | - | 09/22/09 | < 1.0 | < 1.0 | < 1.0 | < 34.0 | < 1.0 | < 0.2 |
| 09/22/09 | - | 12/29/09 | < 0.7 | < 0.6 | < 0.6 | < 16.0 | < 0.5 | < 0.1 |

^{*} The collection of air particulate filters at this site commenced during the week of 07/14/09

Results in 10⁻³ picoCuries per cubic meter (pCi/m³) +/- 2 Standard Deviations

Salem / Hope Creek Concentrations of Gamma Emitters and Strontium in Quarterly Composite Air Samples

| rg R | oad (AIAP01) | <u>)</u> | | | | | |
|-------|--------------|--|---|--|---|--|--|
| ction | Period | <u>Co-60</u> | <u>Cs-134</u> | <u>Cs-137</u> | <u>Be-7</u> | <u>Sr-89</u> | <u>Sr-90</u> |
| - | 03/23/09 | < 1.7 | < 1.5 | < 1.8 | 121 ± 41 | < 12.8 | < 0.9 |
| - | 06/29/09 | < 0.4 | < 0.4 | < 0.4 | < 8.0 | < 0.4 | < 0.4 |
| - | 09/21/09 | < 0.4 | < 0.4 | < 0.5 | < 13.0 | < 1.0 | < 0.2 |
| - | 12/28/09 | < 0.4 | < 0.5 | < 0.4 | < 11.0 | < 0.4 | < 0.1 |
| | | | | | | | |
| ss Ro | ad (AIAP02) | | | | | | |
| ction | Period | <u>Co-60</u> | Cs-134 | <u>Cs-137</u> | <u>Be-7</u> | <u>Sr-89</u> | <u>Sr-90</u> |
| - | 03/23/09 | < 1.2 | < 1.8 | < 1.7 | 133 ± 50 | < 14.6 | < 1.1 |
| - | 06/29/09 | < 0.4 | < 0.4 | < 0.3 | < 10.0 | < 0.4 | < 0.3 |
| - | 09/21/09 | < 0.8 | < 0.8 | < 0.7 | < 25.0 | < 0.8 | < 0.1 |
| - | 12/28/09 | < 0.6 | < 0.6 | < 0.5 | < 12.0 | < 0.4 | < 0.1 |
| | | | | | | | |
| ways | Creek Schoo | l (AIAP03) | | | | | |
| ction | Period | <u>Co-60</u> | <u>Cs-134</u> | <u>Cs-137</u> | <u>Be-7</u> | <u>Sr-89</u> | <u>Sr-90</u> |
| - | 03/23/09 | < 1.3 | < 2.6 | < 1.8 | 141 ± 48 | < 13.9 | < 1.1 |
| - | 06/29/09 | < 0.3 | < 0.3 | < 0.4 | < 8.0 | < 0.4 | < 0.4 |
| - | 09/21/09 | < 0.7 | < 0.8 | < 0.7 | < 21.0 | < 1.0 | < 0.2 |
| - | 12/28/09 | < 0.4 | < 0.5 | < 0.5 | < 12.0 | < 0.4 | < 0.1 |
| | ess Ro | ction Period - 03/23/09 - 06/29/09 - 09/21/09 - 12/28/09 ss Road (AIAP02) ction Period - 03/23/09 - 06/29/09 - 12/28/09 cways Creek School Ction Period - 03/23/09 - 06/29/09 - 09/21/09 - 09/21/09 - 09/21/09 | - 03/23/09 < 1.7 - 06/29/09 < 0.4 - 09/21/09 < 0.4 - 12/28/09 < 0.4 - 12/28/09 < 0.4 SS Road (AIAP02) Ction Period Co-60 - 03/23/09 < 1.2 - 06/29/09 < 0.4 - 12/28/09 < 0.6 Cways Creek School (AIAP03) Ction Period Co-60 - 03/23/09 < 1.3 - 06/29/09 < 0.3 - 09/21/09 < 0.3 | ction Period Co-60 Cs-134 - 03/23/09 < 1.7 | ction Period Co-60 Cs-134 Cs-137 - 03/23/09 < 1.7 | ction Period Co-60 Cs-134 Cs-137 Be-7 - 03/23/09 < 1.7 | ction Period Co-60 Cs-134 Cs-137 Be-7 Sr-89 - 03/23/09 < 1.7 |

Results in 10⁻³ picoCuries per cubic meter (pCi/m³) +/- 2 Standard Deviations

Oyster Creek Concentrations of Gamma Emitters and Strontium in Fish/Shellfish Samples

| Stouts Creek (OCFS | <u>(U1)</u> | | | | | | |
|------------------------|--------------|--------------|--------|---------------|------------------|---------------|-------|
| Collection Date | <u>Co-58</u> | <u>Co-60</u> | Cs-134 | <u>Cs-137</u> | \mathbf{K} -40 | <u>Sr-89*</u> | Sr-90 |
| 04/13/09 - Clams | < 35 | < 33 | < 29 | < 29 | 1254 + 420 | < 31 | < 9 |

04/13/09 - Clams < 35 < 33 < 29 < 29 1254 ± 420 < 31 < 9 10/05/09 - Clams < 3 < 3 < 3 < 3 929 ± 96 < 464 < 313

East of Site – Barnegat Bay (OCFS02)

| Collection Date | <u>Co-58</u> | <u>Co-60</u> | <u>Cs-134</u> | <u>Cs-137</u> | <u>K-40</u> | <u>Sr-89*</u> | <u>Sr-90*</u> |
|------------------|--------------|--------------|---------------|---------------|----------------|---------------|---------------|
| 04/13/09 - Clams | < 38 | < 39 | < 36 | < 36 | 1549 ± 537 | < 30 | < 8 |
| 10/05/09 - Clams | < 4 | < 4 | < 3 | < 4 | 1111 ± 112 | < 363 | < 245 |

Great Bay / Little Egg Harbor (OCFS03)

| Collection Date | <u>Co-58</u> | Co-60 | Cs-134 | Cs-137 | K-40 | <u>Sr-89*</u> | <u>Sr-90*</u> |
|------------------------|--------------|-------|--------|--------|---------------------------|---------------|---------------|
| 04/15/09 - Clams | < 32 | < 27 | < 29 | < 29 | $15\overline{32 \pm 448}$ | < 23 | < 9 |
| 10/07/09 - Clams | < 5 | < 4 | < 4 | < 4 | 1520 + 141 | < 364 | < 246 |

^{*} Starting June 1, 2009, samples were analyzed by the BNE's new Radiological Contract Laboratory. The use of a smaller sample size resulted in higher minimum detectable concentrations.

Results in picoCuries per kilogram – WET (pCi/kg) +/- 2 Standard Deviations

Oyster Creek Concentrations of Gamma Emitters and Strontium in Fish/Shellfish Samples

OCNGS Discharge Canal between Pump Discharges and US Route 9 (OCFS04)

| Collection Date | <u>Co-58</u> | <u>Co-60</u> | Cs-134 | Cs-137 | <u>K-40</u> | <u>Sr-89*</u> | Sr-90* |
|-------------------------|--------------|--------------|--------|--------|----------------|---------------|--------|
| 04/15/09 - Striped Bass | < 17 | < 20 | < 16 | < 20 | 4355 ± 323 | < 40 | < 14 |
| 06/04/09 – Bluefish | < 10 | < 13 | < 9 | < 12 | 4395 ± 425 | < 861 | < 895 |
| 10/05/09 – Tautog | < 8 | < 7 | < 6 | < 7 | 5876 ± 405 | < 284 | < 192 |
| 10/06/09 – Black Drum | < 9 | < 8 | < 7 | < 8 | 4978 ± 383 | < 445 | < 300 |
| 10/06/09 - Striped Bass | < 5 | < 4 | < 4 | < 4 | 4781 ± 311 | < 309 | < 209 |
| 10/06/09 - Bluefish | < 8 | < 7 | < 6 | < 7 | 5029 ± 364 | < 419 | < 283 |

ESE of Site, EAST of U.S. Route 9 Bridge at the OCNGS Discharge Canal (OCFS05)

| Collection Date | <u>Co-58</u> | <u>Co-60</u> | <u>Cs-134</u> | <u>Cs-137</u> | \mathbf{K} -40 | <u>Sr-89*</u> | <u>Sr-90*</u> |
|-------------------------|--------------|--------------|---------------|---------------|------------------|---------------|---------------|
| 04/14/09 - Striped Bass | < 12 | < 13 | < 12 | < 13 | 4312 ± 262 | < 37 | < 17 |
| 10/06/09 - Bluefish | < 6 | < 5 | < 5 | < 6 | 5263 ± 346 | < 335 | < 226 |

^{*} Starting June 1, 2009, samples were analyzed by the BNE's new Radiological Contract Laboratory. The use of a smaller sample size resulted in higher minimum detectable concentrations.

Results in picoCuries per kilogram – WET (pCi/kg) +/- 2 Standard Deviations

Salem/Hope Creek Concentrations of Gamma Emitters and Strontium in Fish/Shellfish Samples

Onsite Surface Water Inlet Building (AIFS01)

07/14/09 - Fish **

10/26/09 - Fish **

| Collection Date | <u>Co-58</u> | <u>Co-60</u> | <u>Cs-134</u> | <u>Cs-137</u> | <u>K-40</u> | <u>Sr-89</u> | <u>Sr-90</u> |
|-----------------------------|--------------|--------------|---------------|---------------|----------------|--------------|--------------|
| 07/15/09 - Crabs | < 3 | < 3 | < 3 | < 3 | 1681 ± 130 | < 670 | < 763 |
| 08/28/09 - Crabs | < 3 | < 3 | < 3 | < 3 | 2308 ± 169 | < 661 | < 748 |
| 07/30/09 - Fish * | < 4 | < 3 | < 3 | < 3 | 3114 ± 200 | < 725 | < 798 |
| 10/26/09 – Fish ** | < 3 | < 3 | < 2 | < 2 | 2648 ± 189 | < 420 | < 478 |
| Delaware River – Wes | | stream (A | | | | | |
| Collection Date | <u>Co-58</u> | <u>Co-60</u> | <u>Cs-134</u> | <u>Cs-137</u> | <u>K-40</u> | <u>Sr-89</u> | <u>Sr-90</u> |
| 07/15/09 - Crabs | < 3 | < 3 | < 3 | < 3 | 2257 ± 159 | < 814 | < 929 |
| 08/28/09 - Crabs | < 2 | < 3 | < 2 | < 3 | 2094 ± 144 | < 753 | < 854 |

< 3

< 3

< 3

< 4

 3440 ± 220

 3373 ± 224

< 786

< 469

< 866

< 535

Results in picoCuries per kilogram – WET (pCi/kg) +/- 2 Standard Deviations

< 3

< 3

< 4

^{*} Fish consist of various species including Channel Catfish, Bluefish, Black Drum, and Striped Bass

^{**} Fish consist of various species including Striped Bass and Channel Catfish

Oyster Creek Concentrations of Gamma Emitters in Aquatic Sediment Samples

| Barnegat Bay (OCA | <u>(Q01)</u> | | | | | |
|------------------------|-----------------------|--------------|--------------|---------------|---------------|-----------------|
| Collection Date | <u>Be-7</u> | <u>Co-58</u> | <u>Co-60</u> | <u>Cs-134</u> | <u>Cs-137</u> | K-40 |
| 04/13/09 | 167 ± 80 | < 11 | < 10 | < 10 | < 10 | 1682 ± 163 |
| 10/05/09 | < 59 | < 5 | < 4 | < 4 | < 5 | 354 ± 88 |
| | | | | | | |
| Oyster Creek Disch | <u>arge Canal (OC</u> | CAQ02) | | | | |
| Collection Date | <u>Be-7</u> | <u>Co-58</u> | <u>Co-60</u> | <u>Cs-134</u> | <u>Cs-137</u> | <u>K-40</u> |
| 04/13/09 | < 161 | < 17 | < 14 | < 16 | < 17 | 8833 ± 370 |
| 10/05/09 | < 114 | < 11 | < 9 | < 10 | < 10 | 3757 ± 309 |
| | | | | | | |
| Great Bay / Little E | gg Harbor (OC | CAQ03) | | | | |
| Collection Date | <u>Be-7</u> | <u>Co-58</u> | <u>Co-60</u> | <u>Cs-134</u> | <u>Cs-137</u> | <u>K-40</u> |
| 04/15/09 | < 180 | < 19 | < 20 | < 18 | < 21 | 19590 ± 610 |
| 10/07/09 | < 104 | < 11 | < 10 | < 8 | < 10 | 15860 ± 942 |
| | | | | | | |
| Stouts Creek (OCA | <u>Q04)</u> | | | | | |
| Collection Date | <u>Be-7</u> | <u>Co-58</u> | <u>Co-60</u> | <u>Cs-134</u> | <u>Cs-137</u> | <u>K-40</u> |
| 04/13/09 | 273 ± 150 | < 15 | < 12 | < 14 | < 15 | 4148 ± 242 |
| 10/05/09 | < 59 | < 6 | < 5 | < 5 | < 5 | 3325 ± 245 |

Results in picoCuries per kilogram – DRY (pCi/kg) +/- 2 Standard Deviations

Potassium-40 (K-40) and Beryillium-7 (Be-7) are naturally occurring radionuclides found in the environment.

Salem/Hope Creek Concentrations of Gamma Emitters in Aquatic Sediment Samples

| Onsite Observation 1 | Building (AIA | AQ01) | | | | | | |
|---|---------------|------------------------------|--------------|---------------|---------------|----------------------------|--|--|
| Collection Date | Be-7 | Co-58 | <u>Co-60</u> | Cs-134 | Cs-137 | \mathbf{K} -40 | | |
| 06/25/09 | < 60 | < 6 | < 4 | < 4 | < 4 | $13\overline{12 \pm 1}34$ | | |
| 11/05/09 | < 48 | < 5 | < 5 | < 4 | < 5 | 1252 ± 131 | | |
| | | | | | | | | |
| Surface Water Inlet | Building (AL | AQ02) | | | | | | |
| Collection Date | <u>Be-7</u> | <u>Co-58</u> | <u>Co-60</u> | <u>Cs-134</u> | <u>Cs-137</u> | <u>K-40</u> | | |
| 06/25/09 | < 59 | < 6 | < 4 | < 4 | < 4 | 2175 ± 171 | | |
| 10/28/09 | < 81 | < 8 | < 6 | < 6 | < 7 | 4190 ± 310 | | |
| | | | | | | | | |
| Onsite - Cooling To | ower Blowdo | wn Discharge L | ine (AIAQ03) | | | | | |
| Collection Date | <u>Be-7</u> | <u>Co-58</u> | <u>Co-60</u> | <u>Cs-134</u> | <u>Cs-137</u> | \mathbf{K} -40 | | |
| 06/25/09 | < 82 | < 7 | < 6 | < 5 | < 6 | 3585 ± 259 | | |
| 10/28/09 | < 82 | < 8 | < 7 | < 6 | < 7 | 3819 ± 278 | | |
| | | | | | | | | |
| Onsite - South Stor | m Drain Disc | <mark>charge Line (Al</mark> | (AQ04) | | | | | |
| Collection Date | <u>Be-7</u> | <u>Co-58</u> | <u>Co-60</u> | <u>Cs-134</u> | <u>Cs-137</u> | <u>K-40</u> | | |
| 06/25/09 | < 118 | < 11 | < 8 | < 8 | < 9 | 5845 ± 391 | | |
| 10/28/09 | < 113 | < 11 | < 9 | < 9 | < 10 | 4378 ± 327 | | |
| | | | | | | | | |
| West Bank of Delaware River – Upstream (AIAQ05) | | | | | | | | |
| Collection Date | <u>Be-7</u> | <u>Co-58</u> | <u>Co-60</u> | <u>Cs-134</u> | <u>Cs-137</u> | \mathbf{K} -40 | | |
| 06/25/09 | < 130 | < 13 | < 10 | < 9 | < 10 | $156\overline{90} \pm 928$ | | |
| 10/28/09 | < 123 | < 13 | < 10 | < 9 | < 11 | 12660 ± 770 | | |

Results in picoCuries per kilogram – DRY (pCi/kg) +/- 2 Standard Deviations

Potassium-40 (K-40) and Beryillium-7 (Be-7) are naturally occurring radionuclides found in the environment.

Oyster Creek Concentrations of Gamma Emitters in Vegetable Samples

| Onsite Garden | (OCVE01) | | | | |
|---------------|---|---------------------------------|--|---|--|
| Collection | <u>Co-58</u> | <u>Co-60</u> | <u>Cs-134</u> | <u>Cs-137</u> | <u>K-40</u> |
| Date | | | | | |
| 07/29/09 | < 4 | < 4 | < 3 | < 4 | 2210 ± 191 |
| 07/29/09 | < 4 | < 4 | < 3 | < 4 | 2584 ± 195 |
| 07/29/09 | < 3 | < 3 | < 3 | < 3 | 2464 ± 178 |
| 08/25/09 | < 4 | < 4 | < 4 | < 4 | 2482 ± 193 |
| 08/25/09 | < 3 | < 3 | < 3 | < 3 | 2062 ± 154 |
| 08/25/09 | < 3 | < 3 | < 3 | < 4 | 2552 ± 200 |
| 09/30/09 | < 3 | < 3 | < 2 | < 2 | 2682 ± 192 |
| 09/30/09 | < 3 | < 3 | < 3 | < 3 | 2113 ± 150 |
| 09/30/09 | < 5 | < 5 | < 4 | < 5 | 3602 ± 256 |
| 10/26/09 | < 3 | < 3 | < 3 | < 3 | 3161 ± 228 |
| 10/26/09 | < 3 | < 3 | < 2 | < 3 | 1946 ± 140 |
| | Collection Date 07/29/09 07/29/09 07/29/09 08/25/09 08/25/09 08/25/09 09/30/09 09/30/09 09/30/09 10/26/09 | Date 07/29/09 < 4 | Collection Co-58 Co-60 Date 07/29/09 < 4 | Collection Co-58 Co-60 Cs-134 Date 07/29/09 < 4 | Collection Co-58 Co-60 Cs-134 Cs-137 Date 07/29/09 < 4 |

Private Farm - NW Sector (OCVE02)

| Sample | Collection | <u>Co-58</u> | <u>Co-60</u> | <u>Cs-134</u> | <u>Cs-137</u> | <u>K-40</u> |
|---------------|-------------|--------------|--------------|---------------|---------------|----------------|
| | Date | | | | | |
| Cabbage | 07/29/09 | < 3 | < 4 | < 3 | < 3 | 2173 ± 161 |
| Swiss Chard | 07/29/09 | < 3 | < 4 | < 3 | < 3 | 5125 ± 313 |
| Cabbage | 08/25/09 | < 2 | < 3 | < 2 | < 2 | 2005 ± 140 |
| Collards | 08/25/09 | < 4 | < 4 | < 3 | < 4 | 3648 ± 246 |
| Kale | 08/25/09 | < 3 | < 4 | < 3 | < 3 | 3333 ± 218 |
| Cabbage | 09/30/09 | < 4 | < 3 | < 3 | < 3 | 1872 ± 146 |
| Collards | 09/30/09 | < 3 | < 3 | < 3 | < 3 | 3685 ± 229 |
| Kale | 09/30/09 | < 3 | < 3 | < 3 | < 3 | 4640 ± 318 |
| Cabbage | 10/26/09 | < 3 | < 3 | < 2 | < 3 | 1968 ± 147 |
| Collards | 10/26/09 | < 6 | < 5 | < 5 | < 6 | 4020 ± 334 |
| Kale | 10/26/09 | < 8 | < 9 | < 7 | < 8 | 3799 ± 324 |

Results in picoCuries per kilogram – WET (pCi/kg) +/- 2 Standard Deviations

Oyster Creek Concentrations of Gamma Emitters in Vegetable Samples

Oyster Creek Onsite Garden (OCVE03)

| Sample | Collection | <u>Co-58</u> | <u>Co-60</u> | <u>Cs-134</u> | <u>Cs-137</u> | <u>K-40</u> |
|---------------|--------------------------------|--------------|--------------|---------------|---------------|----------------|
| Cabbage | <u>Date</u> 08/25/09 | < 5 | < 5 | < 4 | < 5 | 2899 ± 233 |
| Cabbage | 09/30/09 | < 3 | < 3 | < 3 | < 3 | 2582 ± 198 |
| Cabbage | 10/26/09 | < 9 | < 9 | < 9 | < 9 | 2554 ± 297 |

Results in picoCuries per kilogram – WET (pCi/kg) +/- 2 Standard Deviations

Salem/Hope Creek Concentrations of Gamma Emitters in Vegetable Samples

| Private Farm | - NNE (AIVE05) | | | | | |
|---------------------|------------------------|------------------|------------------|-------------------|-------------------|--------------------------------------|
| Sample | Collection Date | <u>Co-58</u> | <u>Co-60</u> | <u>Cs-134</u> | <u>Cs-137</u> | K-40 |
| Corn | 07/02/09 | < 4 | < 3 | < 3 | < 3 | 1176 ± 121 |
| Tomato | 07/02/09 | < 4 | < 3 | < 3 | < 3 | 1936 ± 141 |
| Private Farm | - NNE (AIVE07) | | | | | |
| Sample | Collection Date | <u>Co-58</u> < 3 | <u>Co-60</u> < 3 | <u>Cs-134</u> < 2 | <u>Cs-137</u> < 3 | $\underline{\mathbf{K-40}}$ |
| Tomato | 07/28/09 | < 3 | < 3 | < 2 | < 3 | 1983 ± 154 |
| Private Farm | - NE (AIVE08) | | | | | |
| Sample | Collection Date | Co-58 | Co-60 | Cs-134 | Cs-137 | K-40 |
| Cabbage | 07/09/09 | <u>Co-58</u> < 4 | <u>Co-60</u> < 4 | <u>Cs-134</u> < 4 | <u>Cs-137</u> < 4 | 2393 ± 188 |
| Private Farm | – NE (AIVE10) | | | | | |
| Sample | Collection Date | <u>Co-58</u> < 3 | <u>Co-60</u> < 3 | <u>Cs-134</u> < 2 | <u>Cs-137</u> < 2 | $\underline{\mathbf{K-40}}$ |
| Cabbage | 07/28/09 | < 3 | < 3 | < 2 | < 2 | $\frac{\mathbf{K-40}}{2019 \pm 158}$ |
| Private Farm | – NE (AIVE11) | | | | | |
| Sample | Collection Date | <u>Co-58</u> < 5 | <u>Co-60</u> < 3 | <u>Cs-134</u> < 3 | <u>Cs-137</u> < 3 | $\underline{\mathbf{K-40}}$ |
| Cabbage | 06/28/09 | < 5 | < 3 | < 3 | < 3 | 2404 ± 190 |
| Private Farm | – N (AIVE12) | | | | | |
| Sample | Collection Date | <u>Co-58</u> < 3 | <u>Co-60</u> < 2 | <u>Cs-134</u> < 2 | <u>Cs-137</u> < 2 | $\underline{\mathbf{K-40}}$ |
| Cabbage | 09/28/09 | | | | | 2418 ± 159 |
| Cabbage | 12/29/09 | < 3 | < 3 | < 2 | < 3 | 3804 ± 262 |
| Private Farm | – NW (AIVE13) | | | | | |
| Sample | Collection Date | <u>Co-58</u> | <u>Co-60</u> < 4 | <u>Cs-134</u> < 3 | <u>Cs-137</u> | \mathbf{K} -40 |
| Cabbage | 12/29/09 | < 4 | < 4 | < 3 | < 4 | 3848 ± 250 |
| Private Farm | – NNW (AIVE14) | | | | | |
| Sample | Collection Date | <u>Co-58</u> | <u>Co-60</u> | <u>Cs-134</u> | <u>Cs-137</u> | <u>K-40</u> |
| Cabbage | 09/28/09 | < 4 | < 3 | < 3 | < 3 | 2688 ± 184 |
| Cabbage | 12/29/09 | < 3 | < 3 | < 3 | < 3 | 3905 ± 243 |

Results in picoCuries per kilogram – WET (pCi/kg) +/- 2 Standard Deviations

Salem/Hope Creek Concentrations of Gamma Emitters in Vegetable Samples

| Private Farm | – SSW (AIVE15) | | | | | |
|---------------------|------------------------|--------------|--------------|---------------|---------------|----------------|
| Sample | Collection Date | <u>Co-58</u> | <u>Co-60</u> | <u>Cs-134</u> | <u>Cs-137</u> | <u>K-40</u> |
| Cabbage | 12/29/09 | < 3 | < 3 | < 3 | < 3 | 3133 ± 201 |
| | | | | | | |
| Private Farm | – SE (AIVE17) | | | | | |
| Sample | Collection Date | <u>Co-58</u> | <u>Co-60</u> | <u>Cs-134</u> | <u>Cs-137</u> | <u>K-40</u> |
| Cabbage | 07/28/09 | < 3 | < 3 | < 2 | < 3 | 2323 ± 160 |
| Tomato | 07/28/09 | < 3 | < 3 | < 3 | < 3 | 1861 ± 137 |
| Pepper | 07/28/09 | < 5 | < 5 | < 4 | < 4 | 2001 ± 174 |

Results in picoCuries per kilogram – WET (pCi/kg) +/- 2 Standard Deviations

BNE Background Location Concentrations of Gamma Emitters and Strontium in Milk Samples

State of New Jersey Dairy Farm (COMI01)

| Collection Date | <u>Cs-137</u> | <u>I-131</u> | K-40 | <u>Sr-89</u> | <u>Sr-90</u> |
|------------------------|---------------|--------------|----------------|--------------|--------------|
| 01/06/09 | < 4.30 | < 0.59 | 1272 ± 115 | < 0.84 | < 0.78 |
| 04/14/09 | < 4.06 | < 0.97 | 1168 ± 103 | < 0.90 | < 0.86 |
| 07/15/09 | < 2.25 | < 1.07* | 1294 ± 102 | < 0.85 | < 0.97 |
| 11/10/09 | < 2.56 | < 0.34 | 1593 ± 159 | < 1.00 | < 0.67 |

^{*} Sample result was in excess of the 1.0 pCi/L detection level due to low chemical yield. Low chemical yield is a result of the delay in time between sample collection and analysis along with I-131 decay due to its short half-life (8 days).

Results in picoCuries per Liter (pCi/L) +/- 2 Standard Deviations

Salem/Hope Creek Concentrations of Gamma Emitters and Strontium in Milk Samples

Private Farm – ENE (AIMI01)

| Collection Date | <u>Cs-137</u> | <u>I-131</u> | $\underline{\mathbf{K-40}}$ | <u>Sr-89</u> | <u>Sr-90</u> |
|------------------------|---------------|--------------|-----------------------------|--------------|-----------------|
| 01/05/09 | < 3.78 | < 0.67 | 1135 ± 92 | No Data | < 0.39 |
| 02/02/09 | < 3.82 | < 0.65 | 874 ± 88 | < 0.77 | < 0.93 |
| 03/03/09 | < 3.24 | < 0.91 | 1189 ± 78 | < 0.80 | < 0.44 |
| 04/06/09 | < 3.71 | < 0.92 | 1202 ± 90 | < 0.80 | < 0.50 |
| 05/04/09 | < 2.07 | < 0.59 | 1283 ± 51 | < 0.82 | < 0.42 |
| 06/02/09 | < 10.50 | < 0.41 | 1119 ± 178 | < 0.77 | 2.51 ± 0.43 |
| 07/06/09 | < 2.28 | < 2.60* | 2041 ± 140 | < 0.70 | 0.73 ± 0.39 |
| 08/03/09 | < 1.35 | < 3.84* | 1687 ± 147 | < 0.90 | 1.04 ± 0.58 |
| 09/08/09 | < 1.56 | < 0.39 | 2162 ± 185 | < 0.65 | < 0.50 |
| 10/05/09 | < 1.46 | < 0.57 | 1633 ± 144 | < 0.97 | < 1.07* |
| 11/02/09 | < 1.56 | < 0.91 | 1658 ± 146 | < 0.80 | < 0.90 |
| 12/07/09 | < 1.43 | < 0.40 | 2248 ± 191 | < 1.02* | < 0.71 |

Private Farm – NE (AIMI02)

| 87 ± 0.46 |
|------------------------|
| 0, ± 0. 4 0 |
| < 0.69 |
| < 0.48 |
| < 0.87 |
| < 0.46 |
| 14 ± 0.47 |
| 79 ± 0.37 |
| < 0.82 |
| < 0.65 |
| < 0.89 |
| < 0.92 |
| < 0.77 |
| |

^{*} Sample result was in excess of the 1.0 pCi/L detection level due to low chemical yield. Low chemical yield is a result of the delay in time between sample collection and analysis along with I-131 decay due to its short half-life (8 days) or Sr-89 decay for the same reason (51 days). In the case of Sr-90, a longer count time was employed. However, there was insufficient chemical recovery to meet the MDC.

Results in picoCuries per Liter (pCi/L) +/- 2 Standard Deviations

[&]quot;No Data" indicates Strontium-89 analysis was not performed due to limited sample size.

Salem/Hope Creek Concentrations of Gamma Emitters and Strontium in Milk Samples

<u>Private Farm – WNW (AIMI03)</u>

| I I I V U CC I UI III V I I V I V I V I | (TILIVIIOO) | | | | |
|---|-------------|--------------|-----------------------------|-----------------|-----------------|
| Collection Date | Cs-137 | <u>I-131</u> | $\underline{\mathbf{K-40}}$ | <u>Sr-89</u> | <u>Sr-90</u> |
| 01/05/09 | < 4.53 | < 0.93 | $11\overline{43} \pm 107$ | < 0.90 | 1.50 ± 0.59 |
| 02/02/09 | < 4.40 | < 0.63 | 1115 ± 105 | < 0.73 | < 0.77 |
| 03/03/09 | < 4.02 | < 0.75 | 1171 ± 79 | < 0.87 | < 0.95 |
| 04/06/09 | < 4.29 | < 0.95 | 1379 ± 98 | < 0.82 | < 0.42 |
| 05/04/09 | < 1.88 | < 0.60 | 1300 ± 46 | < 0.73 | < 0.61 |
| 06/02/09 | < 9.81 | < 0.22 | 1149 ± 195 | < 0.63 | < 0.69 |
| 07/06/09 | < 2.28 | < 1.29* | 2518 ± 182 | 2.36 ± 1.38 | < 0.99 |
| 08/03/09 | < 1.74 | < 2.62* | 1367 ± 122 | < 0.82 | < 0.91 |
| 09/08/09 | < 1.85 | < 0.45 | 1944 ± 168 | 1.74 ± 0.92 | < 0.58 |
| 10/05/09 | < 1.35 | < 0.45 | 1714 ± 149 | < 0.73 | < 0.81 |
| 11/02/09 | < 2.08 | < 0.72 | 1520 ± 139 | < 0.96 | < 0.88 |
| 12/07/09 | < 1.76 | < 0.42 | 1399 ± 126 | < 0.88 | < 0.61 |
| | | | | | |

^{*} Sample result was in excess of the 1.0 pCi/L detection level due to low chemical yield. Low chemical yield is a result of the delay in time between sample collection and analysis along with I-131 decay due to its short half-life (8 days).

Results in picoCuries per Liter (pCi/L) +/- 2 Standard Deviations

Oyster Creek Concentrations of Gamma Emitters and Tritium (H-3) in Surface Water

| Barnegat Bay (OCSW01 | <u>l)</u> | | | | | |
|--------------------------|--------------|--------------|---------------|---------------|------------|--------------|
| Collection Date | <u>Co-58</u> | <u>Co-60</u> | <u>Cs-134</u> | <u>Cs-137</u> | <u>H-3</u> | <u>I-131</u> |
| 04/13/09 | < 5.58 | < 6.12 | < 4.43 | < 5.11 | < 269 | < 0.42 |
| 10/05/09 | < 1.17 | < 1.14 | < 1.05 | < 1.27 | < 251 | < 0.41 |
| Great Bay / Little Egg H | Iarbor (OCSV | W02) | | | | |
| Collection Date | <u>Co-58</u> | <u>Co-60</u> | Cs-134 | <u>Cs-137</u> | <u>H-3</u> | <u>I-131</u> |
| 01/27/09 | < 4.83 | < 5.46 | < 4.85 | < 5.62 | < 251 | < 0.71 |
| 02/26/09 | < 7.89 | < 5.23 | < 4.89 | < 5.51 | < 248 | < 0.49 |
| 03/26/09 | < 5.25 | < 6.47 | < 4.38 | < 5.69 | < 247 | < 0.50 |
| 04/02/09 | < 6.83 | < 5.62 | < 4.72 | < 5.55 | < 242 | < 0.61 |
| 05/27/09 | < 5.46 | < 5.69 | < 4.51 | < 4.21 | < 294 | < 0.43 |
| 06/24/09 | < 2.56 | < 2.35 | < 2.16 | < 2.02 | < 282 | < 0.54 |
| 07/28/09 | < 1.40 | < 1.19 | < 1.04 | < 1.12 | < 258 | < 14.99* |
| 08/26/09 | < 1.33 | < 1.25 | < 1.09 | < 1.23 | < 263 | < 0.86 |
| 10/01/09 | < 1.37 | < 1.17 | < 1.11 | < 1.18 | < 265 | < 0.98 |
| 10/29/09 | < 1.22 | < 1.20 | < 1.12 | < 1.17 | < 265 | < 0.81 |
| 11/24/09 | < 1.38 | < 1.30 | < 1.17 | < 1.32 | < 265 | < 0.80 |
| 12/29/09 | < 1.28 | < 1.31 | < 1.17 | < 1.24 | < 284 | < 0.79 |
| Stouts Creek (OCSW03) | <u>)</u> | | | | | |
| Collection Date | <u>Co-58</u> | <u>Co-60</u> | <u>Cs-134</u> | <u>Cs-137</u> | <u>H-3</u> | <u>I-131</u> |
| 04/13/09 | < 5.01 | < 5.28 | < 4.71 | < 5.10 | < 271 | < 0.46 |
| 10/05/09 | < 1.14 | < 1.24 | < 1.09 | < 1.20 | < 252 | < 0.35 |

^{*} Independent radiochemical Analysis of I-131 was not included on the Chain of Custody and therefore not performed by the contract laboratory. However, the analysis of I-131 was performed as part of the gamma spectroscopy counting method resulting in a higher minimum detectable concentration.

Results in picoCuries per Liter (pCi/L) +/- 2 Standard Deviations

Oyster Creek Concentrations of Gamma Emitters and Tritium (H-3) in Surface Water

Oyster Creek Discharge Canal (OCSW04)

| _ | | , | | | | | |
|---|------------------------|--------------|--------------|---------------|---------------|------------|--------------|
| | Collection Date | <u>Co-58</u> | <u>Co-60</u> | <u>Cs-134</u> | <u>Cs-137</u> | <u>H-3</u> | <u>I-131</u> |
| | 01/29/09 | < 3.80 | < 4.60 | < 3.85 | < 4.88 | < 262 | < 0.52 |
| | 02/26/09 | < 7.12 | < 5.70 | < 4.73 | < 5.18 | < 248 | < 0.49 |
| | 03/25/09 | < 4.42 | < 5.41 | < 4.70 | < 4.64 | < 246 | < 0.46 |
| | 04/01/09 | < 5.52 | < 4.74 | < 4.50 | < 5.07 | < 248 | < 0.53 |
| | 05/27/09 | < 5.40 | < 5.37 | < 4.42 | < 5.04 | < 285 | < 0.55 |
| | 06/25/09 | < 2.23 | < 2.06 | < 2.00 | < 2.06 | < 282 | < 0.47 |
| | 07/29/09 | < 1.34 | < 1.06 | < 1.05 | < 1.09 | < 250 | < 13.04* |
| | 08/27/09 | < 1.15 | < 1.20 | < 1.14 | < 1.26 | < 263 | < 0.58 |
| | 10/01/09 | < 1.34 | < 1.15 | < 1.18 | < 1.19 | < 265 | < 0.86 |
| | 10/29/09 | < 1.18 | < 1.15 | < 1.11 | < 1.21 | < 265 | < 1.01** |
| | 11/24/09 | < 1.37 | < 1.32 | < 1.25 | < 1.39 | < 265 | < 0.77 |
| | 12/29/09 | < 1.23 | < 1.17 | < 1.14 | < 1.26 | < 284 | < 0.51 |
| | | | | | | | |

^{*} Independent radiochemical Analysis of I-131 was not included on the Chain of Custody and therefore not performed by the contract laboratory. However, the analysis of I-131 was performed as part of the gamma spectroscopy counting method resulting in a higher minimum detectable concentration.

Results in picoCuries per Liter (pCi/L) +/- 2 Standard Deviations

^{**} Sample result was in excess of the 1.0 pCi/L detection level due to low chemical yield. Low chemical yield is a result of the delay in time between sample collection and analysis along with I-131 decay due to its short half-life (8 days).

Salem/Hope Creek Concentrations of Gamma Emitters and Tritium (H-3) in Surface Water

| Surface Water Inlet Building Discharge (AISW01) | | | | | | | |
|---|--------------|--------------|---------------|---------------|------------|--------------|--|
| Collection Date | <u>Co-58</u> | Co-60 | Cs-134 | Cs-137 | <u>H-3</u> | <u>I-131</u> | |
| 01/05/09 | < 4.39 | < 4.32 | < 3.82 | < 5.02 | < 282 | < 0.66 | |
| 02/06/09 | < 5.38 | < 5.05 | < 4.68 | < 4.80 | < 254 | < 0.57 | |
| 03/05/09 | < 4.98 | < 5.16 | < 4.81 | < 4.87 | < 241 | < 0.49 | |
| 04/09/09 | < 4.76 | < 5.08 | < 4.93 | < 4.77 | < 265 | < 0.63 | |
| 05/04/09 | < 5.05 | < 5.08 | < 4.66 | < 4.97 | < 244 | < 0.47 | |
| 06/01/09 | < 2.08 | < 1.95 | < 1.93 | < 2.07 | < 292 | < 0.70 | |
| 07/09/09 | < 2.68 | < 2.23 | < 2.34 | < 2.47 | < 277 | < 2.28* | |
| 08/06/09 | < 1.63 | < 1.46 | < 1.36 | < 1.52 | < 264 | < 1.16* | |
| 09/08/09 | < 1.56 | < 1.43 | < 1.44 | < 1.70 | < 258 | < 0.71 | |
| 10/09/09 | < 1.17 | < 1.23 | < 1.04 | < 1.09 | < 249 | < 0.49 | |
| 11/02/09 | < 2.15 | < 2.42 | < 2.33 | < 2.47 | < 265 | < 0.41 | |
| 12/08/09 | < 1.32 | < 1.27 | < 1.20 | < 1.28 | < 281 | < 0.42 | |
| | | | | | | | |
| West Bank – Delaware | River (AISW0 | <u>(2)</u> | | | | | |
| Collection Date | <u>Co-58</u> | <u>Co-60</u> | <u>Cs-134</u> | <u>Cs-137</u> | <u>H-3</u> | <u>I-131</u> | |
| 01/05/09 | < 6.56 | < 5.70 | < 5.44 | < 6.45 | < 288 | < 0.63 | |
| 02/06/09 | < 4.60 | < 4.97 | < 4.38 | < 4.32 | < 255 | < 0.58 | |
| 03/05/09 | < 3.64 | < 3.80 | < 3.62 | < 3.74 | < 232 | < 0.51 | |
| 04/09/09 | < 5.35 | < 5.85 | < 4.55 | < 4.86 | < 265 | < 0.59 | |
| 05/04/09 | < 5.20 | < 5.91 | < 4.47 | < 4.90 | < 245 | < 0.40 | |
| 06/01/09 | < 2.60 | < 2.14 | < 2.24 | < 2.31 | < 295 | < 0.78 | |
| 07/09/09 | < 2.55 | < 2.22 | < 2.32 | < 2.29 | < 273 | < 2.01* | |
| 08/06/09 | < 1.68 | < 1.43 | < 1.53 | < 1.52 | < 264 | < 1.57* | |
| 09/17/09 | < 1.16 | < 1.07 | < 1.05 | < 1.24 | < 258 | < 0.67 | |
| 10/09/09 | < 1.59 | < 1.47 | < 1.43 | < 1.60 | < 250 | < 0.49 | |
| 11/02/09 | < 3.13 | < 3.24 | < 2.83 | < 3.22 | < 265 | < 0.37 | |

^{*} Sample result was in excess of the 1.0 pCi/L detection level due to low chemical yield. Low chemical yield is a result of the delay in time between sample collection and analysis along with I-131 decay due to its short half-life (8 days).

< 1.58

< 1.78

< 281

< 0.38

< 1.77

Results in picoCuries per Liter (pCi/L) +/- 2 Standard Deviations

< 1.63

12/08/09

Oyster Creek Concentrations of Gamma Emitters and Tritium (H-3) in Well Water

| Oyster Creek Administr | ation Buildin | g Onsite (O | CWW01) | | | |
|------------------------|---------------|--------------|---------------|---------------|------------|--------------|
| Collection Date | <u>Co-58</u> | <u>Co-60</u> | Cs-134 | <u>Cs-137</u> | <u>H-3</u> | <u>I-131</u> |
| 01/28/09 | < 5.00 | < 4.73 | < 4.35 | < 4.89 | < 258 | < 0.54 |
| 04/22/09 | < 5.42 | < 4.48 | < 4.31 | < 5.44 | < 278 | < 0.60 |
| 07/10/09 | < 1.88 | < 1.92 | < 2.02 | < 2.10 | < 274 | < 0.77 |
| 10/14/09 | < 1.46 | < 1.41 | < 1.38 | < 1.52 | < 260 | < 0.28 |
| Forked River Marina (C | OCWW02) | | | | | |
| Collection Date | Co-58 | <u>Co-60</u> | <u>Cs-134</u> | <u>Cs-137</u> | <u>H-3</u> | <u>I-131</u> |
| 01/26/09 | < 4.40 | < 4.15 | < 3.34 | < 4.36 | < 265 | < 0.52 |
| 04/20/09 | < 5.26 | < 5.01 | < 4.43 | < 4.79 | < 275 | < 0.63 |
| 07/10/09 | < 2.34 | < 2.13 | < 2.05 | < 2.24 | < 274 | < 0.88 |
| 10/14/09 | < 1.51 | < 1.49 | < 1.39 | < 1.54 | < 260 | < 0.25 |

Results in picoCuries per Liter (pCi/L) +/- 2 Standard Deviations

Salem/Hope Creek Concentrations of Gamma Emitters and Tritium (H-3) in Well Water

| Elsinboro School (AIWW01) | | | | | | |
|------------------------------------|--------------|--------------|---------------|---------------|------------|--------------|
| Collection Date | <u>Co-58</u> | <u>Co-60</u> | <u>Cs-134</u> | Cs-137 | <u>H-3</u> | <u>I-131</u> |
| 01/26/09 | < 4.35 | < 4.59 | < 4.21 | < 4.49 | < 253 | < 0.57 |
| 04/21/09 | < 5.20 | < 5.06 | < 4.39 | < 4.55 | < 270 | < 0.46 |
| 07/13/09 | < 2.43 | < 2.32 | < 2.30 | < 2.34 | < 276 | < 0.72 |
| 10/22/09 | < 1.66 | < 1.55 | < 1.42 | < 1.61 | < 265 | < 0.50 |
| Lower Alloways Creek Police | Station (A) | (WW02) | | | | |
| Collection Date | <u>Co-58</u> | Co-60 | Cs-134 | Cs-137 | <u>H-3</u> | I-131 |
| 01/26/09 | < 4.11 | < 4.00 | < 3.61 | < 4.45 | < 258 | < 0.52 |
| 04/21/09 | < 5.24 | < 4.97 | < 3.63 | < 4.75 | < 268 | < 0.46 |
| 07/13/09 | < 2.06 | < 1.90 | < 1.98 | < 2.08 | < 272 | < 0.70 |
| 10/22/09 | < 1.51 | < 1.53 | < 1.42 | < 1.66 | < 265 | < 0.40 |
| Salem Administration Buildin | ng (AIWW0 | 03) | | | | |
| Collection Date | <u>Co-58</u> | <u>Co-60</u> | <u>Cs-134</u> | Cs-137 | <u>H-3</u> | <u>I-131</u> |
| 01/26/09 | < 4.78 | < 5.97 | < 4.89 | < 4.80 | < 261 | < 0.49 |
| 04/21/09 | < 5.94 | < 5.56 | < 4.64 | < 5.26 | < 265 | < 0.52 |
| 07/13/09 | < 1.97 | < 1.85 | < 1.97 | < 1.98 | < 275 | < 0.58 |
| 10/13/09 | < 1.03 | < 1.14 | < 1.04 | < 1.09 | < 260 | < 0.38 |
| Lower Alloways Creek Schoo | l (AIWW04 | 1) | | | | |
| Collection Date | Co-58 | <u>Co-60</u> | Cs-134 | Cs-137 | <u>H-3</u> | <u>I-131</u> |
| 01/26/09 | < 3.88 | < 4.80 | < 3.73 | < 4.30 | < 262 | < 0.55 |
| 04/21/09 | < 4.72 | < 3.94 | < 4.00 | < 4.95 | < 267 | < 0.63 |
| 07/13/09 | < 1.90 | < 1.99 | < 1.92 | < 2.05 | < 273 | < 0.68 |
| 10/22/09 | < 2.18 | < 2.07 | < 1.87 | < 2.24 | < 265 | < 0.45 |

Results in picoCuries per Liter (pCi/L) +/- 2 Standard Deviations

BNE Background Location Thermoluminescent Dosimetry Data Quarterly Results for 2009

| | | 1st Qu | <u>arter</u> | 2 nd Qu | arter_ | 3rd Qu | <u>ıarter</u> | 4 th Quarter | | |
|----------------|---|--------|--------------|--------------------|------------|--------|---------------|-------------------------|------------|--|
| Station | Location | Result | <u>%CV</u> | Result | <u>%CV</u> | Result | <u>%CV</u> | Result | <u>%CV</u> | |
| CO01 | BNE Office, Arctic Parkway, Ewing, NJ | 14.7 | 1.8 | 13.8 | 1.5 | 13.8 | 1.5 | 14.1 | 2.2 | |
| CO02 | Brendan T. Byrne State Forest, New Lisbon, NJ | 11.1 | 2.5 | 10.1 | 0.9 | 10.4 | 3.0 | 10.6 | 3.3 | |

Results are reported in units of milliroentgens (mR)

CV is the coefficient of variation; the ratio of the standard deviation to the mean, and is normally reported as a percentage

All exposures were normalized to 91 days (a standard quarter)

Oyster Creek Thermoluminescent Dosimetry Data Quarterly Results for 2009

| | | 1 st Qu | <u>arter</u> | 2 nd Qu | <u>arter</u> | 3 rd Qu | <u>iarter</u> | 4 th Quarter | | |
|----------------|---|--------------------|--------------|--------------------|--------------|--------------------|---------------|-------------------------|------------|--|
| Station | Location | Result | <u>%CV</u> | Result | <u>%CV</u> | Result | <u>%CV</u> | Result | <u>%CV</u> | |
| 1 | Ocean County Vocational School | 9.7 | 2.4 | 9.1 | 3.8 | 8.9 | 0.9 | 9.2 | 1.3 | |
| 2 | Ocean Twp. Municipal Building | 10.7 | 1.2 | 9.8 | 3.8 | 9.7 | 1.5 | 10.2 | 1.3 | |
| 3 | Sewage Pumping Station, Forked River | 11.0 | 0.9 | 10.1 | 2.8 | 10.0 | 2.6 | 10.9 | 3.4 | |
| 4 | Twin River Station, Forked River | 9.8 | 1.6 | 8.8 | 2.9 | 9.4 | 2.1 | 9.4 | 2.3 | |
| 5 | Sewage Pumping Station, Ocean Twp. | 10.7 | 1.9 | 9.6 | 2.4 | 10.0 | 1.7 | 10.0 | 2.3 | |
| 6 | Oyster Creek, Gate #2, Forked River | 11.4 | 2.4 | 10.1 | 1.2 | 25.8* | 0.3 | 10.6 | 2.4 | |
| 7 | Finninger Farm, Forked River | 9.2 | 1.8 | 8.6 | 3.9 | 8.7 | 2.7 | 8.9 | 2.9 | |
| 8 | Ocean Co. Memorial Cemetery, Waretown | 10.0 | 1.7 | 8.7 | 2.0 | 9.2 | 2.4 | 9.4 | 2.3 | |
| 9 | Oyster Creek Building 17, Forked River | 11.0 | 0.9 | 9.8 | 1.7 | 10.2 | 3.0 | 10.4 | 3.3 | |
| 10 | Sheffield & Derby Rd, Forked River | 10.1 | 1.3 | 9.4 | 4.5 | 9.7 | 2.2 | 9.7 | 4.1 | |
| 11 | Lakeside Drive, Forked River | 10.6 | 3.6 | 9.6 | 0.8 | 9.7 | 2.2 | 10.3 | 2.4 | |
| 12 | Forked River Game Farm, Forked River | 10.6 | 3.3 | 9.7 | 1.5 | 9.6 | 1.1 | 10.0 | 1.5 | |

Results are reported in units of milliroentgens (mR)

CV is the coefficient of variation; the ratio of the standard deviation to the mean, and is normally reported as a percentage.

All exposures were normalized to 91 days (a standard quarter)

^{*} Radiography performed by New Jersey Natural Gas on equipment in an area adjacent to the TLD badges in August 2009.

Oyster Creek Thermoluminescent Dosimetry Data Quarterly Results for 2009

| | | 1 st Qu | <u>arter</u> | 2 nd Qu | <u>arter</u> | 3 rd Qu | <u>iarter</u> | 4th Quarter | | |
|----------------|--|--------------------|--------------|--------------------|--------------|--------------------|---------------|-------------|------------|--|
| Station | Location | Result | <u>%CV</u> | Result | <u>%CV</u> | Result | <u>%CV</u> | Result | <u>%CV</u> | |
| 13 | Restrooms, Lakeside Dr., Forked River | 10.1 | 3.1 | 9.3 | 1.6 | 9.3 | 1.9 | 9.7 | 2.6 | |
| 14 | Sands Pt. Park, Dock Ave., Waretown | 11.3 | 1.7 | 10.3 | 1.4 | 10.5 | 2.0 | 10.8 | 2.1 | |
| 15 | Recreation Center, Waretown | 9.9 | 2.6 | 9.2 | 2.7 | 9.0 | 1.9 | 9.3 | 0.5 | |
| 16 | North Access Rd., Forked River | 10.9 | 2.4 | 9.9 | 2.1 | 10.3 | 2.0 | 10.9 | 2.3 | |
| 20 | Third Avenue, Barnegat Light | 9.1 | 4.5 | 8.2 | 2.1 | 8.9 | 2.0 | * | * | |
| 21 | Rose Hill Road & Barnegat Blvd | 10.7 | 1.6 | 9.6 | 1.7 | 10.0 | 1.8 | * | * | |
| 22 | Bay Way & Claimore Avenue | 10.4 | 2.4 | 9.5 | 1.0 | 9.6 | 2.3 | 10.1 | 2.7 | |
| 23 | Island Beach State Park, Parking Lot A5 | 9.3 | 2.8 | 8.6 | 1.4 | 8.6 | 1.3 | 9.3 | 5.4 | |

Results are reported in units of milliroentgens (mR).

CV is the coefficient of variation; the ratio of the standard deviation to the mean, and is normally reported as a percentage.

All exposures were normalized to 91 days (a standard quarter).

^{*} TLD badges missing most likely due to vandalism

Salem/Hope Creek Thermoluminescent Dosimetry Data Ouarterly Results for 2009

| | | Qua 1 st Qu | | 2 nd Qu | er 2009 <u>iarter</u> | 3 rd Qu | <u>arter</u> | 4 th Quarter | | |
|----------------|--------------------------------------|---------------------------|------------|--------------------|--------------------------|--------------------|--------------|-------------------------|------------|--|
| Station | Location | Result | <u>%CV</u> | Result | <u>%CV</u> | Result | <u>%CV</u> | Result | <u>%CV</u> | |
| 1 | Access Road – Security Checkpoint | 11.7 | 2.1 | 11.3 | 2.7 | 11.3 | 2.1 | 11.3 | 2.9 | |
| 2 | Poplar Road, Lower Alloways | 12.3 | 3.2 | 12.0 | 2.5 | 12.2 | 1.6 | 11.6 | 2.3 | |
| 3 | Money and Eagle Island Road | 13.5 | 1.1 | 12.6 | 0.8 | 12.6 | 2.0 | 12.6 | 2.2 | |
| 4 | Ft. Elfsborg / Hancocks – East | 14.3 | 1.1 | 13.6 | 0.8 | 13.6 | 0.3 | 13.3 | 3.4 | |
| 5 | Ft. Elfsborg / Hancocks – West | 18.0 | 1.9 | 17.8 | 2.3 | 17.4 | 2.0 | 16.8 | 3.0 | |
| 6 | Stathems Neck Road | 12.1 | 1.6 | 11.3 | 2.1 | 11.9 | 3.2 | 11.6 | 2.0 | |
| 7 | Stow Neck Road Lower Alloways | 10.5 | 1.6 | 9.8 | 1.4 | 10.0 | 1.6 | 10.0 | 2.8 | |
| 8 | Alloways Creek Neck Road - Middle | 10.5 | 2.0 | 9.9 | 1.5 | 10.3 | 3.2 | 9.9 | 3.8 | |
| 9 | Alloways Creek Neck Road - North | 13.6 | 1.4 | 13.0 | 1.9 | 13.0 | 2.6 | 12.9 | 4.6 | |
| 10 | Abbotts Farm Road | 10.6 | 2.8 | 10.0 | 3.2 | 10.0 | 1.1 | 10.3 | 2.3 | |
| 11 | PSEG Education Center/EOF | * | * | * | * | * | * | 11.4 | 2.4 | |

Results are reported in units of milliroentgens (mR)

CV is the coefficient of variation; the ratio of the standard deviation to the mean, and is normally reported as a percentage. All exposures were normalized to 91 days (a standard quarter)

^{*} New TLD site - TLD badges deployed 4th Quarter 2009, therefore no data was available the first 3 quarters

Comparison of NJDEP and Global Dosimetry Solutions Thermoluminescent Dosimetry Data for Oyster Creek

Quarterly Results for Co-located Dosimeters for 2009

| | | | 1 st Q | <u>uarter</u> | | 2 nd Quarter | | | | 3 rd Quarter | | | | 4 th Quarter | | | |
|----------------|---|--------------|-------------------|---------------|------------|-------------------------|-----|--------|------------|-------------------------|------------|------------|---|-------------------------|-----|---------------|-----|
| | | <u>NJDEP</u> | | Global | | <u>NJDEP</u> | | Glo | <u>bal</u> | NJE | <u>DEP</u> | Global | | <u>NJDEP</u> | | <u>Global</u> | |
| Station | Location | Result | <u>%CV</u> | Result | <u>%CV</u> | Result %CV | | Result | <u>%CV</u> | Result %CV | | Result %CV | | Result %CV | | Result %CV | |
| 5 | Sewage Pump. Station, Ocean Township | 10.7 | 1.9 | * | * | 9.6 | 2.4 | * | * | 10.0 | 1.7 | * | * | 10.0 | 2.3 | 7.4 | 6.7 |
| 7 | Finninger Farm,OCNGS Forked River | 9.2 | 1.8 | * | * | 8.6 | 3.9 | * | * | 8.7 | 2.7 | * | * | 8.9 | 2.9 | 5.9 | 0.0 |
| 13 | Restrooms, Lakeside Dr. Forked River | 10.1 | 3.1 | * | * | 9.3 | 1.6 | * | * | 9.3 | 1.9 | * | * | 9.7 | 2.6 | 6.9 | 0.0 |
| 21 | Rose Hill and Barnegat Rd Barnegat Twp. | 10.7 | 1.6 | * | * | 9.6 | 1.7 | * | * | 10.0 | 1.8 | * | * | ** | ** | ** | ** |

Results are reported in units of milliroentgens (mR)

CV is the coefficient of variation; the ratio of the standard deviation to the mean, and is normally reported as a percentage All exposures were normalized to 91 days (a standard quarter)

^{*} Co-located TLDs deployed 4th quarter of 2009 therefore no intercomparison data is available the first 3 quarters

^{**} TLD badges missing

Comparison of NJDEP and Global Dosimetry Solutions Thermoluminescent Dosimetry Data for Salem/Hope Creek

Quarterly Results for Co-located Dosimeters for 2009

.th -

| | | | 1 st Q | <u>uarter</u> | | 2 nd Quarter | | | | 3 rd Quarter | | | | <u>4th Quarter</u> | | | |
|----------------|---|--------|-------------------|---------------|------------|-------------------------|--------------|--------|---------------|-------------------------|--------------|--------|------------|-------------------------------|--------------|--------|------------|
| | | NJDEP | | DEP Global | | NJI | <u>NJDEP</u> | | <u>Global</u> | | <u>NJDEP</u> | | Global | | <u>NJDEP</u> | | <u>bal</u> |
| Station | Location | Result | <u>%CV</u> | Result | <u>%CV</u> | Result | <u>%CV</u> | Result | <u>%CV</u> | Result | <u>%CV</u> | Result | <u>%CV</u> | Result | <u>%CV</u> | Result | %CV |
| 1 | Access Road – Security Checkpoint | 11.7 | 2.1 | 9.7 | 4.7 | 11.3 | 2.7 | 9.5 | 7.8 | 11.3 | 2.1 | 11.1 | 3.3 | 11.3 | 2.9 | 8.6 | 6.0 |
| 2 | Poplar Road, Lower Alloways | 12.3 | 3.2 | 9.3 | 2.8 | 12.0 | 2.5 | 9.8 | 3.0 | 12.2 | 1.6 | 10.9 | 5.4 | 11.6 | 2.3 | 8.6 | 3.8 |
| 3 | Money and Eagle Island Roads | 13.5 | 1.1 | * | * | 12.6 | 0.8 | * | * | 12.6 | 2.0 | * | * | 12.6 | 2.2 | 11.7 | 4.5 |
| 5 | Ft. Elfsborg/ Hancocks - West | 18.0 | 1.9 | 15.3 | 7.6 | 17.8 | 2.3 | 16.8 | 5.6 | 17.4 | 2.0 | 14.6 | 2.1 | 16.8 | 3.0 | 12.4 | 3.1 |

Results are reported in units of milliroentgens (mR)

CV is the coefficient of variation; the ratio of the standard deviation to the mean, and is normally reported as a percentage All exposures were normalized to 91 days (a standard quarter)

^{*} Co-located TLDs deployed starting 1st quarter of 2009

Comparison of NJDEP and Global Dosimetry Solutions Thermoluminescent Dosimetry Data for Salem/Hope Creek

Quarterly Results for Co-located Dosimeters for 2009

| | | | 1 st Q | <u>uarter</u> | | 2 nd Quarter | | | | | $3^{\text{rd}} Q$ | <u>uarter</u> | | 4 th Quarter | | | |
|----------------|--|--------------|-------------------|---------------|------------|-------------------------|------------|--------|---------------|--------|-------------------|---------------|------------|-------------------------|------------|---------------|------------|
| | | <u>NJDEP</u> | | <u>Global</u> | | <u>NJDEP</u> | | Gle | <u>Global</u> | | <u>DEP</u> | <u>Global</u> | | <u>NJDEP</u> | | <u>Global</u> | |
| Station | Location | Result | <u>%CV</u> | Result | <u>%CV</u> | Result | <u>%CV</u> | Result | <u>%CV</u> | Result | %CV | Result | <u>%CV</u> | Result | <u>%CV</u> | Result | <u>%CV</u> |
| 7 | Stow Neck Road-Lower Alloways | 10.5 | 1.6 | * | * | 9.8 | 1.4 | * | * | 10.0 | 1.6 | * | * | 10.0 | 2.8 | 7.2 | 6.6 |
| 9 | Alloways Creek Neck Road - North | 13.6 | 1.4 | 10.8 | 9.1 | 13.0 | 1.9 | 10.1 | 6.9 | 13.0 | 2.6 | 12.8 | 4.7 | 12.9 | 4.6 | 9.9 | 4.2 |
| 11 | PSEG Ed. Center/EOF Salem City** | * | * | * | * | * | * | * | * | * | * | * | * | 11.4 | 2.4 | 8.6 | 7.6 |

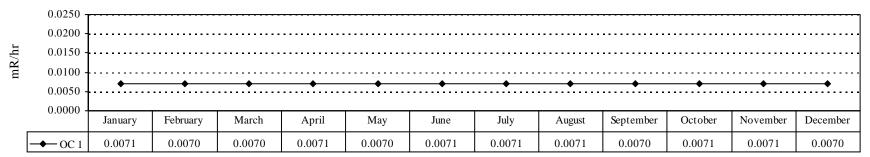
Results are reported in units of milliroentgens (mR)

CV is the coefficient of variation; the ratio of the standard deviation to the mean, and is normally reported as a percentage All exposures were normalized to 91 days (a standard quarter)

^{*} New intercomparison site- TLDs deployed 4th quarter 2009 therefore no intercomparison data available the first 3 quarters

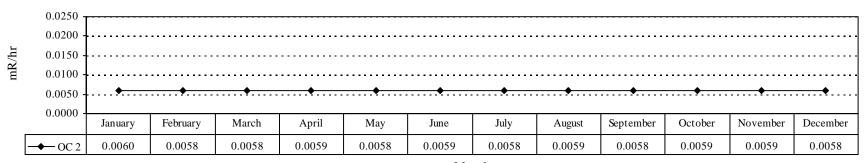
^{**} Entire new sampling location initiated 4th quarter of 2009

OC 1
2009 Ambient Radiation Levels

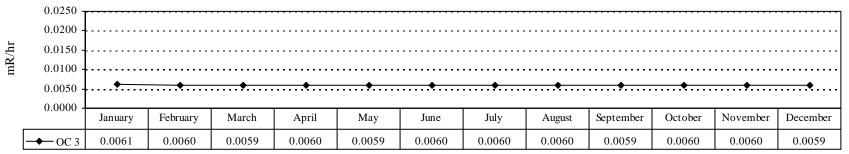


Month

OC 2
2009 Ambient Radiation Levels

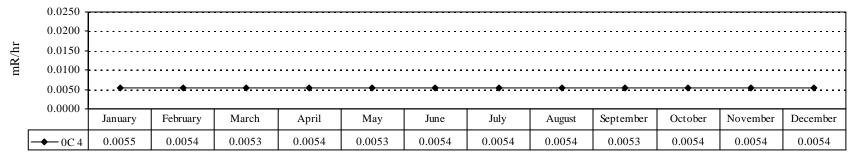


OC 3
2009 Ambient Radiation Levels



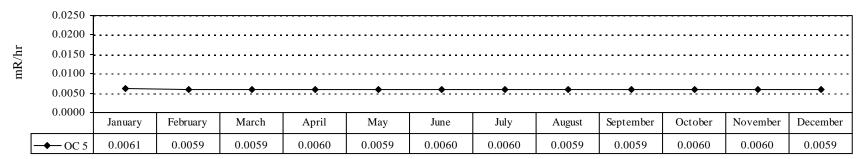
Month

OC 4
2009 Ambient Radiation Levels



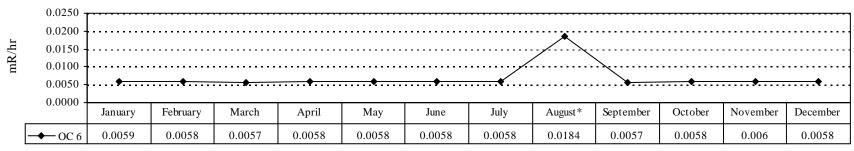
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OC 5
2009 Ambient Radiation Levels



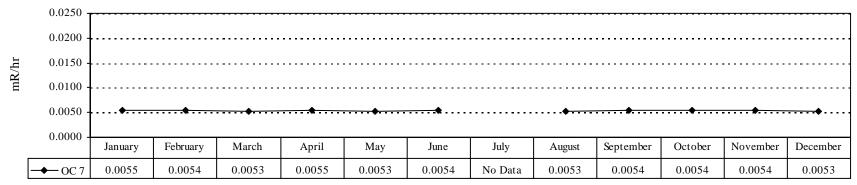
Month

OC 6
2009 Ambient Radiation Levels



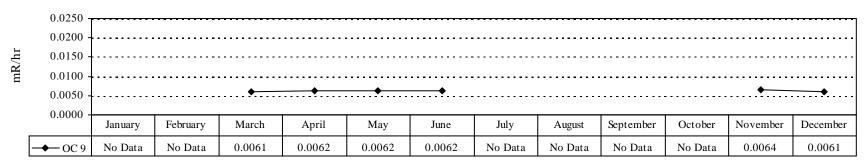
^{*} Radiography performed by New Jersey Natural Gas on equipment in an area adjacent to the CREST monitor during August 2009

OC 7
2009 Ambient Radiation Levels



Month

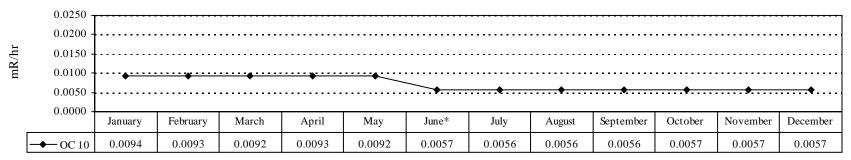
OC 9
2009 Ambient Radiation Levels



Month

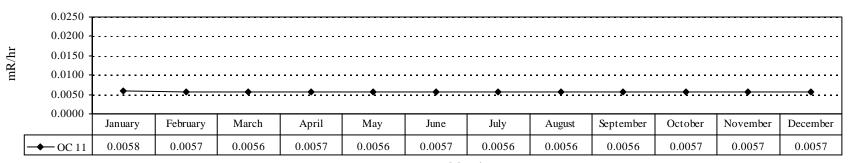
Blank months indicate "No Data Available" OC-8 was not operational in 2009; therefore no data graph is available

OC 10*
2009 Ambient Radiation Levels



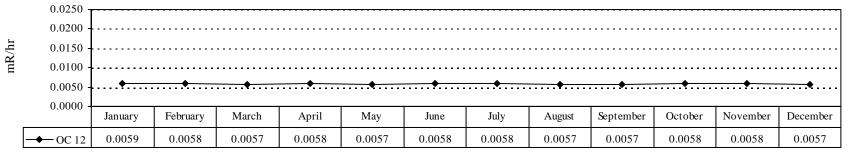
Month

OC 11 2009 Ambient Radiation Levels



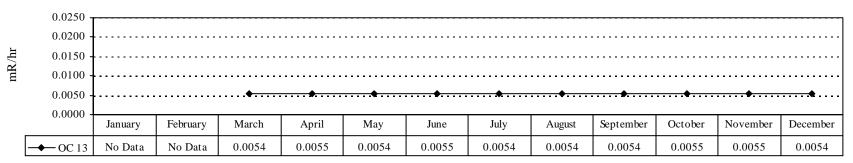
^{*} Replaced detector with re-calibrated device

OC 12 2009 Ambient Radiation Levels



Month

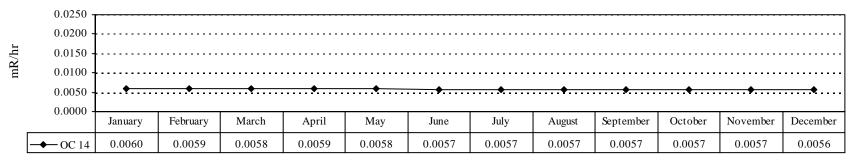
OC 13
2009 Ambient Radiation Levels



Month

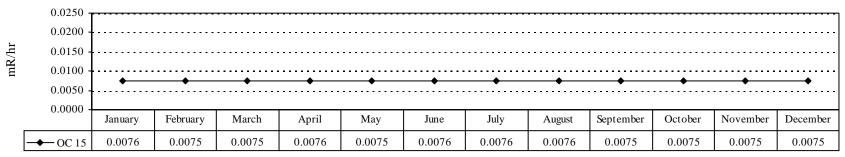
Blank months indicate "No Data Available"

OC 14
2009 Ambient Radiation Levels



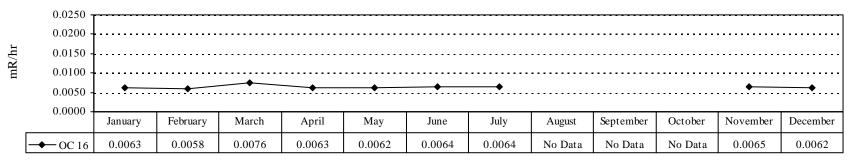
Month

OC 15
2009 Ambient Radiation Levels



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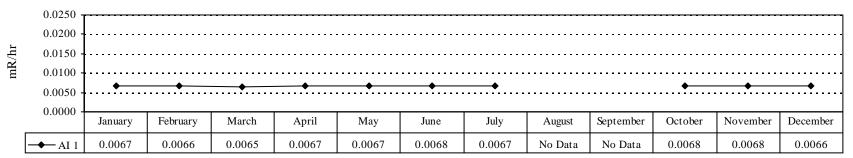
OC 16 2009 Ambient Radiation Levels



Month

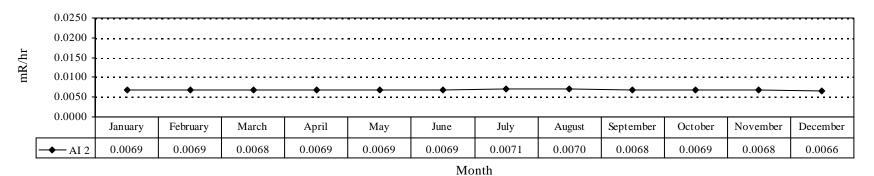
Blank months indicate "No Data Available"

AI 1 2009 Ambient Radiation Levels



Month

AI 2 2009Ambient Radiation Levels

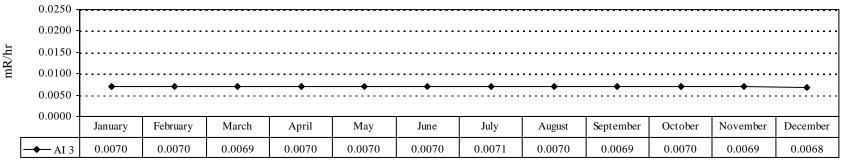


Blank months indicate "No Data Available"

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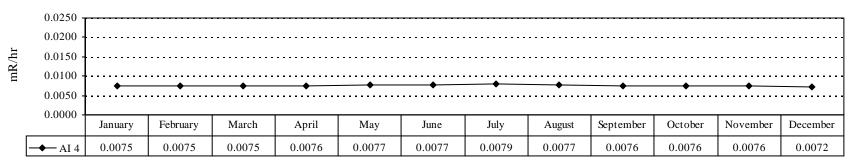
2009 Radiological Environmental Monitoring Program Salem/Hope Creek - Continuous Radiological Environmental Surveillance Telemetry (CREST) Data

AI 3
2009 Ambient Radiation Levels



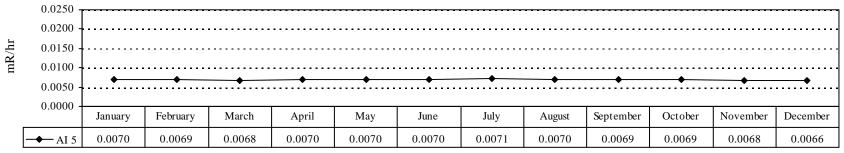
Month

AI 4
2009 Ambient Radiation Levels



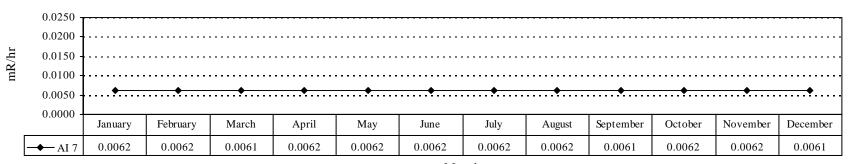
2009 Radiological Environmental Monitoring Program Salem/Hope Creek - Continuous Radiological Environmental Surveillance Telemetry (CREST) Data

AI 5
2009 Ambient Radiation Levels



Month

AI 7
2009 Ambient Radiation Levels

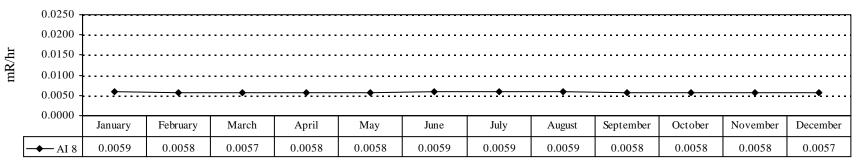


Month

AI-6 was not operational in 2009; therefore no data graph is available

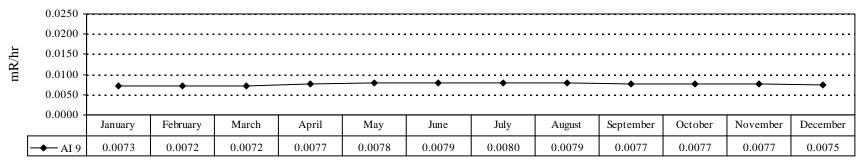
2009 Radiological Environmental Monitoring Program Salem/Hope Creek - Continuous Radiological Environmental Surveillance Telemetry (CREST) Data

AI 8 2009 Ambient Radiation Levels



Month

AI 9 2009 Ambient Radiation Levels

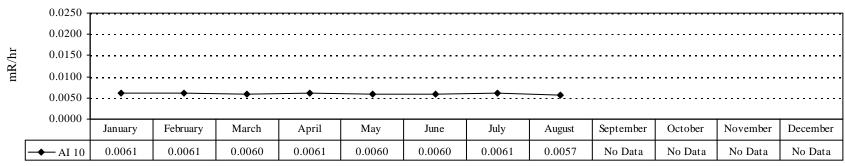


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New Jersey Department of Environmental Protection Bureau of Nuclear Engineering 2009 Radiological Environmental Monitoring Program

Salem/Hope Creek - Continuous Radiological Environmental Surveillance Telemetry (CREST) Data

AI 10 2009 Ambient Radiation Levels



Month

Blank months indicate "No Data Available"