Appendix B – IEPA Permit History



| Modification<br>Number | Date Permit<br>Issued by IEPA | IEPA Log No. | Application Dated | Description  |
|------------------------|-------------------------------|--------------|-------------------|--|
| Development            | 03/21/97                      | 1995-343     | 09/22/95          | Site 2 Expansion.  |
| 1                      | 07/08/97                      | 1997-127     | 04/10/97          | Correction to Leachate List L2, Correction of AGQSs/MAPCs for Select Parameters on Lists G1 and G2, Addition of AGQSs/MAPCs For Select Parameters on Lists G1 and G2.  |
| 2                      | 03/24/98                      | 1997-378     | 11/07/97          | Approved Construction Acceptance Report for Cell 1 and its Subsequent Operation. Modified Closure and Post-Closure Care Plans and Costs.  Approved use of Alternate Daily Cover. Adjusted Saturday Operating Hours.  Added Leachate Monitoring Points. Approved Corrections to the List of Wells Included in the Groundwater Monitoring Program. |
| 3                      |                               | 1998-062     | 02/16/98          | Approved CQA report for Active Gas Collection and Leachate Extraction System for Site 2 and their Subsequent Operation.  |
| 3                      | 04/29/98                      | 1998-116     | 04/02/98          | Approved use of Out-of-State Leachate Disposal Facility.   |
| 4                      | 06/04/98                      | 1998-122     | 04/07/98          | Approved the Transfer of the Operating Rights and Land Ownership from BFII, Inc. to BFI Waste Systems of North America, Inc.   |
| 5                      | 12/16/98                      | 1998-367     | 10/23/98          | Approved Construction Acceptance Report for Cell 2 and its Subsequent Operation. Modified Closure and Post-Closure Care Cost.  |
| 6                      | 12/23/98                      | 1998-242     | 07/14/98          | Approved AGQSs/MAPCs for Select Parameters in the Intratill Sorted Sediments. Approved Request not to add dichloromethyl ether to the Groundwater Monitoring Program. Approved new AGQS/MAPC for total manganese on List G2. Deleted 4,4-DDT from List L2.   |

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|------------------------|-------------------------------|--------------|-------------------|--|
| 7                      | 12/29/98                      | 1998-325     | 09/29/98          | Approved the Assessment Monitoring Plan for Methane at Groundwater Monitoring Well GG8S and its Proposed Replacement.  |
| 8                      | 07/13/99                      | 1999-153     | 04/14/99          | Approved the AGQS/MAPC Values Required by Condition No. VIII.23 of Permit Modification No. 7.  |
| 9                      | 10/10/00                      | 1999-257     | 07/14/99          | Approved Installation of a New Gas Extraction Well Near Groundwater Monitoring Well RG8S. Approved the Schedule for Implementation of the Corrective Action Measures at Well RG8S.                                       |
| ÿ                      | 9 10/19/99                    | 1999-273     | 07/23/99          | Approved Installation of a New Gas Extraction Well Near Groundwater Monitoring Well RG8S. Approved Modifications to the Landfill Gas/Leachate Management System.   |
| 10                     | 10/29/99                      | 1999-318     | 08/19/99          | Approved Construction Acceptance Report for Cell 3 and its Subsequent Operation.   |
| 11                     | 01/20/00                      | 1999-360     | 09/23/99          | Approved the Addition of a Several Constituents to Groundwater List.   |
| 12                     | 04/20/00                      | 1999-482     | 12/07/99          | Approved the Operation of a New Gas Extraction Well and Ancillary Components. Modified Closure and Post-Closure Care Costs.  |
| 13                     | 07/25/00                      | 1999-480     | 12/29/99          | Approved Gas Extraction as Source Control to Address Groundwater Exceedances for Landfill Gas Related Parameters at Well RG8S and the Proposal that Groundwater Remediation at Well RG8S was Not Necessary at this Time. |

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|------------------------|-------------------------------|--------------|-------------------|---|
| 14                     | 09/29/00                      | 2000-088     | 03/01/00          | Approved Transfer of Land Ownership and Operating Rights from BFI Waste Systems of North America, Inc. to Onyx Zion Landfill, Inc.  |
| 14                     | 09/29/00                      | 2000-213     | 06/09/00          | Approved Use of Alternate Daily Cover Materials.  |
| 15                     | 11/02/00                      | 2000-151     | 04/26/00          | Assessment Monitoring Program for Well G129   |
| 13                     | 15 11/02/00                   | 2000-266     | 07/20/00          | Approved temporary monitoring wells T001 and T002 and Revised Monitoring Well Phasing   |
| 16                     | 01/12/01                      | 2000-384     | 09/27/00          | Approved operation of a horizontal leachate/gas extraction well and modification of leachate piping and air supply piping between Site 1 Phase A and old Site 2 and construction of leachate load out pad and flare compound for Site 1 Phase A and Site 2. |
| 17                     | 01/18/01                      | 2000-402     | 11/08/00          | Approved operation of Cell 4  |
| 18                     | 00/00/04                      | 2000-440     | 11/22/00          | Approved the return of well RG8S to detection monitoring and methane headspace readings in monitoirng well headspaces and the underdrain for Cells 1 and 4.   |
| 10                     | 03/23/01                      | 2000-460     | 12/01/00          | Approved the construction of the leachate/landfill gas collection trench along the eastern edge of old Site 2   |

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|------------------------|-------------------------------|--------------|-------------------|---|
| 19                     | 10/12/01                      | 2001-273     | 07/13/01          | Approved the assessment monitoring report for well B129 and its return to detection monitoring  |
| 19                     | 10/12/01                      | 2001-274     | 07/13/01          | Approved AGQS values for select organic constituents  |
| 20                     | 11/26/01                      | 2001-071     | 02/19/01          | Approved intrawell statistics for boron, sulfate, specific conductance, and total dissolved solids  |
| 21                     | 02/15/02                      | 2001-469     | 12/19/01          | Approved construction acceptance report for Cell 5A and its operation and revised Closure and Post-Closure Care Cost Estimates.   |
|                        |                               | 2001-420     | 10/25/01          | Approved replacement of well GC2S.  |
| 22                     | 03/26/02                      | 2001-472     | 12/21/01          | Approved renewal of Permit No. 1995-343-LFM, reduced leachate monitoring frequency at L301; reduction in monitoring frequency for List L3 parameters from quarterly to annually; and change in operating hours. |
| 23                     | 05/16/02                      | 2002-044     | 02/05/02          | Approved the design for the combined landfill gas/leachate extraction trench along the north side of old Site 2.  |
| 24                     | 06/06/02                      | 2002-009     | 01/11/02          | Approved revised phasing plan and updated Post-Closure Care Cost Estimates.   |

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|------------------------|-------------------------------|--------------|-------------------|---|
| 25                     | 07/02/02                      | 2001-343     | 08/31/01          | Approved development of the leachate re-circulation system and use of wood chips as alternate daily covers and as road base.  |
| 26                     | 10/01/02                      | 2002-239     | 08/05/02          | Approved construction acceptance report for Cell 5B and its operation.  |
| 27                     | 11/25/02                      | 2002-126     | 05/19/02          | Approved construction acceptance report for the final cover for old Site 2 outside the piggyback area.  |
| 21                     | 27 11/25/02                   | 2002-319     | 10/11/02          | Approved construction acceptance report for landfill gas/leachate collection trench along the east side of old Site 2.  |
| 28                     | 12/11/02                      | 2002-292     | 09/30/02          | Approved changes to the design of the landfill gas collection system for the horizontal expansion.  |
| 29                     | 03/24/03                      | 2002-387     | 12/20/02          | Approved construction acceptance report for three replacement gas extraction wells along the perimeter of Cell 8 and temporary storage of frozen loaded containers at the facility. |
| 30                     | 04/15/03                      | 2003-023     | 01/15/03          | Approved intrawell statistical values for total and dissolved boron, total and dissolved sulfate, specific conductance, and total dissolved solids.                                 |

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|------------------------|-------------------------------|--------------|-------------------|--|
|                        |                               | 2003-051     | 02/04/03          | Approved construction acceptance report for the landfill gas/leachate extraction trench along the north side of old Site 2.  |
| 31                     | 05/07/03                      | 2003-060     | 02/14/03          | Approved exclusion of total organic halogens and fecal coliform from the requirements of condition VII.3, revision of condition VII.3 to exclude other parameters, corrections to typographical errors, deleting total organic halogens from List L1, and activating portions of landfill gas collection system on a temporary basis prior to receipt of authorization to operate. |
| 32                     | 09/02/03                      | 2003-179     | 05/15/03          | Approved updated Closure and Post-Closure Care Cost Estimates, revised interwell AGQS and MAPC values for dissolved boron, total boron, and dissolved manganese, demonstration for well RC2S, and reduced leachate monitoring frequency for leachate at L302.  |
| 33                     |                               | 2003-283     | 07/17/03          | Approved construction acceptance report for the leachate re-circulation system in the horizontal expansion area and construction and operation of replacement leachate/gas extraction wells EW-37RR and EW-71R.  |
| 33                     | 11/06/03                      | 2003-304     | 08/08/03          | Approved reduced groundwater monitoring frequency for 27 wells and updated Closure and Post-Closure Care Cost Estimates.   |
| 34                     | 01/28/04                      | 2003-438     | 11/24/03          | Approved the assessment monitoring plan for well GG2S.   |
| 35                     | 02/26/04                      | 2003-364     | 09/30/03          | Approved plan to control landfill gas migration in the vicinity of groundwater monitoring well G184.   |

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|------------------------|-------------------------------|--------------|--|---|
|                        |                               | 2003-461     | 12/16/03   | Approved installation of a condensate sump between landfill gas extraction wells EW-41 and EW-42.   |
| 36                     | 04/28/04                      | 2004-007     | 01/10/04   | Approved proposed changes to methane monitoring program for groundwater monitoring wells located along the separation berm and revisions to the CQA plan to eliminate the minimum 1-foot overlap between sections of geogrid. |
| 37                     | 07/16/04                      | 2004-121     | 04/19/04   | Approved the assessment monitoring plan for well RE2S.  |
| 38                     | 09/02/04                      | 2004-187     | 06/01/04   | Approved update of the Closure and Post-Closure Care Cost Estimates.  |
| 39                     | 09/09/04                      | 2004-225     | 07/01/04   | Approved interwell and intrawell statistical values for select parameters.  |
| 40                     |                               | 2004-328     | 09/14/04   | Approved modification of permit condition No. II.5(s)(4) related to use of wood chips as alternate daily cover.   |
| 40 12/06/04            | 2004-348                      | 09/29/04     | Approved construction acceptance report for Cell 8A and its operation. |   |
| 41                     | 06/13/05                      | 2005-101     | 03/18/05   | Approved revised statistical values for dissolved boron in the Shallow Drift Aquifer.   |

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|------------------------|-------------------------------|--------------|-------------------|--|
| 42                     | 10/07/05                      | 2005-128     | 04/07/05          | Approved plan to address methane exceedences in the headspace of groundwater monitoring well G162.   |
| 42                     | 10/07/03                      | 2005-171     | 05/13/05          | Approved the continuation of assessment monitoring at well GG2S.   |
| 43                     | 11/08/05                      | 2005-287     | 07/26/05          | Approved overnight parking of loaded transfer trailers at the facility.  |
| 44                     | 12/20/05                      | 2005-376     | 09/29/05          | Approved the plan to address the methane exceedence at perimeter landfill gas probe GMP-5.   |
| 45                     | 01/12/06                      | 2005-419     | 10/14/05          | Approved revised AGQS for dissolved arsenic in the Shallow Drift Aquifer.  |
| 46                     | 03/09/06                      | 2005-146     | 04/19/05          | Approved sealing and replacement of well B129, initiation of assessment and at C129, and update of the Closure and Post-Closure Care Cost Estimates.   |
|                        |                               | 2005-320     | 08/15/05          | Approved the continuation of assessment monitoring at well RE2S.   |
| 47                     | 03/16/06                      | 2006-001     | 12/30/05          | Approved construction acceptance report for Cell 8B and its operation.   |
|                        |                               | 2006-011     | 01/09/06          | Approved construction acceptance report for leachate re-circulation lines C1 through C5, A6, and A7, and installation of landfill gas extraction wells EW-105, EW-111, EW-112, EW-113, and EW-130. |

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|------------------------|-------------------------------|--------------|-------------------|--|
| 48                     | 04/18/06                      | 2006-083     | 03/20/06          | Approved extension of operating hours.   |
| 40                     | 07/40/00                      | 2006-149     | 04/28/06          | Approved submittal of landfill gas monitoring results required by permit conditions IX.16 and IX.17. |
| 49                     | 07/10/06                      | 2006-163     | 05/15/06          | Approved clay liner re-certification for Cell 8B as required by permit condition II.29.              |
| 50                     | 08/24/06                      | 2006-277     | 07/21/06          | Approved sealing and replacing well G166 and initiation of assessment at replacement point G166.     |
| 51                     | 09/13/06                      | 2006-251     | 06/30/06          | Approved revised AGQS and MAPC values for chemical oxygen demand in the Intratill Sorted Sediments.  |
| 52                     | 11/14/06                      | 2006-309     | 08/15/06          | Approved the continuation of assessment monitoring at well GG2S.                                     |
| 53                     | 02/06/07                      | 2006-457     | 11/27/06          | Approved the construction acceptance report for repairs to the liner geomembrane in Cell 8B.         |
| 54                     | 02/14/07                      | 2006-439     | 11/15/06          | Approved continued assessment at well RE2S.  |
| 55                     | 04/18/07                      | 2006-456     | 11/24/06          | Approved the revised groundwater monitoring well phasing plan for the facility.                      |

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| 56                     | 05/22/07                      | 2007-085     | 03/02/07          | Approved modification of leachate collection piping, cleanouts, sumps, and forcemain for Cells 6 and 7.  |
| 57                     | 06/13/07                      | 2007-016     | 01/12/07          | Approved measures to address methane detections at GMP-5 and well G162.  |
| 37                     | 00/13/07                      | 2007-019     | 03/19/07          | Approved the construction acceptance report for 14 landfill gas extraction wells and associated lateral piping.  |
| 58                     | 58 07/03/07                   | 2006-482     | 12/15/06          | Approved renewal of Permit No. 1995-343-LFM, addition of 2-chloroethyl vinyl ether to List G2, semi-annual monitoring at wells G165, G167, G176, and G191, and revised closure and post-closure care cost estimates. |
|                        |                               | 2007-154     | 04/13/07          | Approved measures to address methane detection at well GG4S.   |
| 59                     | 07/10/07                      | 2007-163     | 04/17/07          | Approved the assessment monitoring plan for well GC3S.   |
| 60                     | 09/06/07                      | 2007-272     | 06/05/07          | Approved modification of the the final cover slope for Cell 8.   |
| 61                     | 09/24/07                      | 2007-062     | 02/15/07          | Approved sealing well B129 and the conclusion of assessment at well C129 and calculation of intrawell AGQS values for this point.  |

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|------------------------|-------------------------------|--------------|-------------------|---|
| 62                     | 03/07/08                      | 2007-473     | 11/15/07          | Approved continued assessment at well RE2S.   |
| 02                     | 03/07/08                      | 2007-474     | 11/15/07          | Approved continued assessment at well GG2S.   |
| 63                     | 03/14/08                      | 2007-512     | 12/14/07          | Approved sealing well GG3S and installation of RG3S.  |
| 00                     | 63 03/14/08                   | 2008-033     | 01/14/08          | Approved installation of 3 dual extraction wells.   |
| 64                     | 06/19/08                      | 2008-109     | 03/28/08          | Approved proposed repairs to the leachate extraction system.  |
| 65                     | 08/11/08                      | 2008-183     | 05/15/08          | Approved modified schedule for calculation of intrawell AGQS values for well C129, removal of alachor from List G2, addition of chlorobenzene, 1,1,1-trichloroethane, and 1,1,2-trichloroethane to List G2, and intrawell AGQS values for specific conductance, dissolved sulfate, and TDS. |
| 66 08/22/08            | 08/22/08                      | 2008-105     | 03/25/08          | Approved the construction acceptance report for 24.5-acres of final cover and 19 vertical and 3 horizontal landfill gas extraction wells and associated header and lateral piping, blowers, and enclosed flare and revised closure and post-closure care cost estimates.                    |
|                        |                               | 2008-114     | 03/31/08          | Approved the construction acceptance report for Cell 6.   |

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| 67                     | 10/22/08                      | 2007-360     | 08/15/07          | Approved the return to detection monitoring at well R166.                                |
| 68                     | 11/13/08                      | 2008-336     | 08/15/08          | Approved the return to detection monitoring at well GC3S.                                |
| 69                     | 02/11/09                      | 2008-449     | 11/14/08          | Approved intrawell AGQSs for well C129.  |
| 09                     | 02/11/09                      | 2008-451     | 11/14/08          | Approved the assessment monitoring plan for well GF7S.                                   |
| 70                     | 03/13/09                      | 2008-410     | 10/21/08          | Approved the alternate source demonstration for well GG5S and repairs to the same.       |
| 71                     | 05/12/09                      | 2008-453     | 11/14/08          | Approved measures to address methane detections at GMP-5.                                |
|                        | 03/12/09                      | 2009-117     | 03/11/09          | Approved the construction acceptance report for dual extraction wells S-6, S-7, and S-8. |
| 72 06/05/09            | 06/05/09                      | 2009-076     | 02/13/09          | Approved continued assessment at well RE2S.  |
| 12                     | 00/03/09                      | 2009-077     | 02/13/09          | Approved continued assessment at well GG2S.  |

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|------------------------|-------------------------------|--------------|-------------------|--|
| 73                     | 07/15/09                      | 2009-194     | 04/15/09          | Approved AGQS values for dissolved magnesium and dissolved chromium.   |
| 74                     | 08/13/09                      | 2009-233     | 05/15/09          | Approved AGQS value for pH.  |
| 75                     | 09/02/09                      | 2009-241     | 05/22/09          | Approved AGQS values for dissolved boron, dissolved sulfate, specific conductance, and total dissolved solids for wells G168, G169, G175, T003, and T004.  |
| 76                     | 09/15/09                      | 2009-284     | 05/29/09          | Approved the construction acceptance report for leachate re-circulation lines A8 and A9, 10 gas extraction wells and associated header and lateral piping, intallation of pneumatic pumps in 22 gas extraction wells and associated leachate forcemain and air supply lines, and revised closure and post-closure care cost estimates. |
| 77                     | 11/03/09                      | 2009-435     | 08/26/09          | Approved replacement of well G175 with R175.   |
| 78                     | 02/11/10                      | 2009-545     | 11/13/09          | Approved replacement of well GG5S with RG5S and alternate source demonstration for dissolved aresenic.   |
| 79                     | 03/29/10                      | 2009-463     | 09/28/09          | Approved removal of temporary wells T003 and T004, installation of T005 and T006, and revised groundwater monitoring phasing plan.   |
| 80                     | 05/05/10                      | 2010-063     | 02/15/10          | Approved continued assessment at well RE2S.  |

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|------------------------|-------------------------------|--------------|-------------------|---|
| 81                     | 07/22/10                      | 2010-276     | 06/01/10          | Approved updated closure and post-closure care cost estimates.  |
| 82                     | 08/05/10                      | 2010-201     | 05/06/10          | Approved interwell AGQS value for pH.   |
| 83                     | 08/13/10                      | 2010-213     | 05/14/10          | Approved continued assessment at well GG2S.   |
| 84                     | 10/26/10                      | 2009-552     | 11/17/09          | Approved the alternate source demonstration for well R126.  |
| 85                     | 12/02/10                      | 2010-001     | 12/31/09          | Approved measures to address methane detections at GMP-5 and installation of an additional perimeter probe. |
| 86                     | 01/10/11                      | 2010-525     | 11/01/10          | Approved the alternate source demonstration for well G184.  |
| 00                     | 01/10/11                      | 2010-526     | 11/01/10          | Approved the alternate source demonstration for well C129.  |
| 87                     | 05/17/11                      | 2011-065     | 02/15/11          | Approved continued assessment at well RE2S.   |

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|------------------------|-------------------------------|--------------|-------------------|---|
| 88                     | 06/03/11                      | 2010-572     | 12/03/10          | Approved vertical expansion and final grades of 930-feet msl to increase disposal capacity by 1,720,000 cubic yards and change the facility boundary from 191.7-acres to 318.5-acres. Approved modification of the final cover design. Approved modification of the landfill gas extraction system consistent with the vertical expansion. Approved updated closure and post-closure care cost estimates. |
| 89                     | 07/28/11                      | 2010-164     | 04/15/10          | Approved continued assessment at well GF7S.   |
| 09                     | 89 07/28/11                   | 2011-084     | 03/03/11          | Approved measures to address methane detections at GMP-5.   |
| 90                     | 08/31/11                      | 2011-192     | 05/17/11          | Approved the construction acceptance report for leachate forcemain, modification of the schedule for addressing condition I.14, and revisions to the CQA plan.  |
|                        |                               | 2011-169     | 05/10/11          | Approved the construction acceptance report for replacement of 6 gas extraction wells.  |
| 91                     | 10/17/11                      | 2011-202     | 05/20/11          | Approved the construction acceptance report for 3 replacement and 7 new gas extraction wells, 24-inch diameter landfill gas header piping, and installation of pneumatic pumps in 14 wells and associated leachate forcemain piping and air supply lines. Approved documentation for the landfill gas to energy plant at the facility.  |
| 92                     | 11/18/11                      | 2011-383     | 08/19/11          | Approved demonstration of compliance with condition I.14 of the permit.   |

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| 93                     | 12/28/11                      | 2011-389     | 08/29/11          | Approved the continuation of assessment monitoring at well GF7S.                               |
| 94                     | 01/13/12                      | 2011-371     | 08/15/11          | Approved the continuation of assessment monitoring at well GG2S.                               |
| 95                     | 02/24/12                      | 2011-515     | 11/23/11          | Approved construction of landfill gas extraction wells, piping, air lines, and leachate pumps. |
| 96                     | 04/19/12                      | 2011-537     | 12/13/11          | Approved renewal of the permit and updated closure and post-closure care cost estimates.       |
| 97                     | 05/15/12                      | 2012-059     | 02/15/12          | Approved the continuation of assessment monitoring at well RE2S.                               |
| 98                     | 06/06/12                      | 2012-087     | 03/07/12          | Approved the landfill gas control demonstration for the north side of old Site 2.              |
| 90                     | 00/00/12                      | 2012-177     | 04/10/12          | Approved relocation of the cell 7 sideslope riser vault and piping.                            |
| 99                     | 09/21/12                      | 2012-316     | 06/29/12          | Approved removal of interior diversion berms and improved drainage for old Site 2 final cover. |
| 100                    | 11/13/12                      | 2012-392     | 08/14/12          | Approved the continuation of assessment monitoring at well GG2S.                               |

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| 101                    | 12/14/12                      | 2012-448     | 09/14/12          | Approved the continuation of assessment monitoring at well GF7S.  |
| 102                    | 03/25/13                      | 2012-595     | 12/17/12          | Approved change in the name of the facility to Advanced Disposal Services Zion Landfill.  |
| 103                    | 05/20/13                      | 2013-078     | 02/15/13          | Approved the continuation of assessment monitoring at well RE2S.  |
| 104                    | 07/03/13                      | 2013-133     | 04/03/13          | Approved construction of 18.5-acres of final cover and landfill gas collection infrastructure and updated closure cost estimate and modifications to CQA plan |
| 105                    | 08/14/13                      | 2013-193     | 05/10/13          | Approved construction acceptance report for cell 7 and its operation.   |
| 106                    | 09/26/13                      | 2013-137     | 04/05/13          | Approved construction acceptance report for basin 5R and perimeter road and modification of the groundwater monitoring well phasing.                          |
| 107                    | 11/14/13                      | 2013-392     | 08/15/13          | Approved the continuation of assessment monitoring at well GG2S.  |
| 108                    | 12/13/13                      | 2013-441     | 09/13/13          | Approved the continuation of assessment monitoring at well GF7S.  |
| 100                    | 12/13/13                      | 2013-461     | 09/30/13          | Approved construction of surface water improvements to old Site 2.  |

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|------------------------|-------------------------------|--------------|-------------------|---|
| 109                    | 03/18/14                      | 2013-569     | 11/27/13          | Approved construction of landfill gas extraction wells, piping, air lines, and leachate pumps.                                    |
| 109                    | 03/16/14                      | 2013-583     | 12/13/13          | Approved intrawell statistics for G170, T005, and T006.   |
| 110                    | 05/20/14                      | 2014-068     | 02/14/14          | Approved the continuation of assessment monitoring at well RE2S.  |
| 111                    | 06/13/14                      | 2011-555     | 12/23/11          | Approved development of the horizontal expansion.   |
| 112                    | 07/14/14                      | 2014-071     | 02/20/14          | Approved construction acceptance report for emergency repairs to the leachate forcemain.  |
| 113                    | 08/29/14                      | 2014-262     | 05/30/14          | Approved semi-annual monitoring at R166, G168, G169, R175, and GC3S, removal of condition IX.11, and updated financial assurance. |
|                        |                               | 2014-406     | 08/15/14          | Approved AGQS values for new Class I parameters.  |
| 114                    | 12/16/14                      | 2014-407     | 08/15/14          | Approved the conclusion of assessment monitoring at well GG2S.  |
|                        |                               | 2014-446     | 09/15/14          | Approved the continuation of assessment monitoring at well GF7S.  |

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| 115                    | 02/14/15                      | 2014-554     | 11/06/14          | Approved proposed changes to the leachate forcemain for old Site 2.                            |
| 116                    | 03/10/15                      | 2014-596     | 12/08/14          | Approved sealing of wells T005 and T006 and installation of wells G201 through G206.           |
| 117                    | 05/06/15                      | 2015-068     | 02/10/15          | Approved design changes to the final cover tie-in between cells 1 and 4 and cells 8A and 8B.   |
| 118                    | 05/18/15                      | 2015-084     | 02/16/15          | Approved construction of landfill gas extraction wells, piping, air lines, and leachate pumps. |
| 119                    | 06/16/15                      | 2015-085     | 02/13/15          | Approved the conclusion of assessment monitoring at well RE2S.                                 |
| 120                    | 08/27/15                      | 2015-298     | 05/29/15          | Approved updates to the closure and post-closure care cost estimates.                          |
| 121                    | 12/03/15                      | 2015-430     | 09/03/15          | Approved construction of piping changes to the leachate forcemain for old Site 2.              |
| 122                    | 12/15/15                      | 2015-443     | 09/15/15          | Approved the continuation of assessment monitoring at well GF7S.                               |
| 123                    | 02/04/16                      | 2015-467     | 10/05/15          | Approved the ASD for total phenols for wells G131, G132, and R133.                             |

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|------------------------|-------------------------------|--------------|-------------------|---|
| 124                    | 03/01/16                      | 2015-577     | 12/04/15          | Approved construction acceptance report for cell 9 and its operation and updates to the closure and post-closure care cost estimates. |
| 125                    | 07/29/16                      | 2016-113     | 03/31/16          | Approved construction of landfill gas extraction wells, piping, air lines, and leachate pumps.  |
| 126                    | 08/11/16                      | 2016-192     | 05/13/16          | Approved revised interwell statistics for total phenols.  |
| 120                    | 00/11/10                      | 2016-197     | 05/17/16          | Approved construction acceptance report for replacement leachate forcemain between wells EW37RR and EW38R.                            |
| 127                    | 08/26/16                      | 2016-247     | 05/31/16          | Approved updates to the closure and post-closure care cost estimates.   |
| 128                    | 12/01/16                      | 2016-393     | 09/01/16          | Approved the reduction in the number of perforations for horizontal landfill gas collection piping.                                   |
|                        | 129 12/15/16                  | 2016-412     | 09/15/16          | Approved the continuation of assessment monitoring at well GF7S.  |
| 129                    |                               | 2016-445     | 10/11/16          | Approved revised specifications for coarse aggregate for vertical landfill gas collection wells.                                      |
|                        |                               | 2016-455     | 10/13/16          | Approved construction acceptance report for replacement of leachate forcemain between wells EW41 and EW42.                            |

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| 130                    | 02/17/17                      | 2016-515     | 11/18/16          | Approved discontinuation of landfill gas collection at leachate cleanout riser CEW-5S.   |
| 131                    | 04/05/17                      | 2016-537     | 12/19/16          | Approved the decommissioning of 37 landfill gas collection points.   |
|                        |                               | 2016-465     | 10/17/16          | Approved construction acceptance report for 13.0 acres of final cover over Site 2 expansion and updates to the closure and post-closure care cost estimates.                           |
| 132                    | 05/16/17                      | 2016-530     | 12/09/16          | Approved renewal of Permit No. 1995-343-LFM and updated closure and post-closure care cost estimates.  |
|                        |                               | 2017-054     | 02/08/17          | Approved construction acceptance report for 1.0 acre of final cover over Old Site 2.   |
| 133                    | 06/06/17                      | 2017-095     | 03/07/17          | Approved construction acceptance report for 23 gas extraction wells and associated header and lateral piping, and leachate forcemain and air supply piping to 7 dual extraction wells. |
| 134                    | 06/12/17                      | 2017-100     | 03/10/17          | Approved semi-annual sampling of groundwater monitoring well GG2S.   |
| 135                    | 06/20/17                      | 2017-108     | 03/20/17          | Approved the proposed intrawell values for dissolved chromium and dissolved magnesium in Cell 9 monitoring wells.  |

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| 136                    | 12/18/17                      | 2017-416     | 09/15/17          | Approved the proposed intrawell values for dissolved and total chloride, dissolved and total sulfate, and total dissolved solids at well GF7S.   |
| 137                    | 01/16/18                      | 2017-431     | 10/03/17          | Approved the demonstration of an alternate source for dissolved magnesium concentrations in monitoring well G185.  |
| 138                    | 05/16/18                      | 2018-057     | 02/07/18          | Approved proposed modifications to the groundwater monitoring well phasing plan (Table 1 and Drawing 1 of Addendum No. 1 to Log. No. 2018-057, dated May 4, 2018)  |
| 139                    | 08/29/18                      | 2018-275     | 06/01/18          | Approved annual update to the closure and post-closure care cost estimates.  |
| 140                    | 11/20/18                      | 2018-310     | 06/28/18          | Approved construction acceptance report for 20 gas extraction wells; 24-inch header and 30-inch condesnate sump; associated gas header and lateral piping; and leachate forcemain and air supply piping to 10 dual extraction wells. |
| 141                    | 03/07/19                      | 2018-511     | 12/12/18          | Approved the decommissioning of horizontal landfill gas collector EW154H.  |
| 142                    | 08/02/19                      | 2019-185     | 05/03/19          | Approved alternate source demonstration for dissolved sulfate at well G160 and the proposed revision to the intrawell value for dissolved sulfate at well G160.  |
| . <del></del>          |                               | 2019-191     | 05/06/19          | Approved alternate source demonstration for dissolved chloride at well G167.   |

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| 143                    | 10/01/19                      | 2019-283     | 07/01/19          | Approved the annual update to the closure and post-closure care cost estimates.   |
| 144                    | 12/24/19                      | 2019-323     | 08/02/19          | Approved semi-annual sampling frequency for groundwater monitoring wells GF0S and G170 and the revised Groundwater Sampling Plan.   |
| 145                    | 02/24/20                      | 2020-025     | 01/22/20          | Approved construction acceptance report for Cell 10 A/B covering approximately 9 acres. Approved operation in Cell 10 A/B.  |
| 146                    | 04/03/20                      | 2019-416     | 10/28/19          | Approved construction documentation for the following landfill gas management components: modifications to 25 gas extraction wells; 24-inch header and 30-inch condensate sump; associated gas lateral piping; leachate forcemain and air supply piping to gas well EW-151H sump and gas extraction well EW-169A. |
| 147                    | 06/17/20                      | 2020-108     | 04/08/20          | Approved construction acceptance report for landfill gas management components installed in 2019.   |
| 148                    | 11/13/20                      | 2020-325     | 08/21/20          | Approved reduced sampling of well RE2S from quarterly to semi-annual monitoring.  |
| 149                    | 05/19/21                      | 2021-006     | 03/01/21          | Approved construction acceptance of final cover repairs at Old Site 2   |
| 150                    | 05/19/21                      | 2021-069     | 02/17/21          | Approved modifications to conditions VIII.9 and VIII.18.  |

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| 151                    | 06/09/21                      | 2021-085     | 03/08/21          | Approved intrawell statistics for dissolved chromium and dissolved magnesium for cell 10a/10b wells G207, G208 and G209.  |
| 152                    | 07/20/21                      | 2021-177     | 05/13/21          | Approved semi-annual groundwater monitoring at wells G201, G202, G203, G204, G205 and G206 in accordance with condition VIII.18.  |
| 153                    | 08/31/21                      | 2021-271     | 07/06/21          | Approved an annual update of the premature closure, decommissioning, and post-closure care cost estimates per Condition X.8.  |
| 154                    | 12/22/21                      | 2021-414     | 11/16/21          | Approved construction acceptance of Cell 10C composite liner  |
| 155                    | 03/08/22                      | 2022-026     | 01/31/22          | Approved decommission select GCCS elements.   |
| TBD                    | Due 5/10/22                   | 2022-036     | 02/09/22          | Application Under Review - Addresses Condition V.5 and provides 2022 5 Year Renewal Application   |
| TBD                    | Due 6/19/22                   | 2022-074     | 03/21/22          | Application Under Review - Request for significant permit modification to operate the Zion Landfill 2020-2021 GCCS Improvements constructed in 2020 and 2021 pursuant to 35IAC Sections 811.505(d) and 813.203. |