

The title and text of the chapter are being revised to use the term “biosolids” instead of “residuals” since “biosolids” is the prevalent term used nationally.

CHAPTER 62-640

BIOSOLIDS DOMESTIC WASTEWATER RESIDUALS

INDEX

The index is being altered to reflect organizational changes as well as new additions.

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2 **62-640.100 Scope, Intent, Purpose, and Applicability.**

3 (1) All domestic wastewater treatment facilities which use biological treatment
 4 processes generate biosolids ~~domestic wastewater residuals~~ as a by-product of the
 5 treatment process. The Department finds that unregulated use, disposal, or land
 6 application of biosolids ~~these residuals~~ poses a threat to the environment and public
 7 health.

New subsection 62-640.100(1)(a) expands on current intent language by addressing public confidence in land application.

8 (a) It is the intent of the Department in this chapter to regulate the
 9 management, use, and land application of biosolids~~residuals~~ so as to ensure protection
 10 of the environment and public health and foster public confidence in biosolids beneficial
 11 use.

New subsection 62-640.100(1)(b) demonstrates the Department's encouragement of the highest levels of biosolids treatment, quality, and use.

12 (b) The Department intends to encourage the highest levels of treatment,
 13 quality, and use for biosolids.

Current subsection 62-640.100(2) is renumbered and revised to encourage publicly acceptable beneficial use, instead of just "beneficial use".

14 (c)(2) The Department also intends in this chapter to encourage the beneficial
 15 use of biosolids in a manner which will increase public acceptance~~residuals~~.

16 (2)(3) This chapter establishes minimum requirements for biosolids~~residuals~~
 17 which are to be applied to land for agricultural purposes, distributed and marketed, or
 18 used for land reclamation. Included are biosolids~~residuals~~ which are composted with

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1 yard trash, wood chips, or similar bulking agents and ultimately applied to land or
2 distributed and marketed.

3 ~~(3)~~(4) This chapter also establishes minimum requirements for septage which
4 will be treated at facilities permitted by the Department and will be applied to land for
5 agricultural purposes or land reclamation.

Current subsection 62-640.100(5) is renumbered and revised to remove "the treatment of" and add "disposed" since the rule covers more than just "treatment".

6 ~~(4)~~(5) The purpose of Chapter 62-640, F.A.C., is to provide minimum
7 requirements standards for biosolids ~~the treatment of residuals~~ and septage ~~to be~~
8 applied to land, or distributed and marketed; establish land application criteria; and
9 define requirements for agricultural operations which have received or will receive
10 biosolids residuals or septage.

11 ~~(5)~~(6) Applicability.

Current subsection 62-640.100(6)(a) is renumbered and revised to:

- remove references to septage management facilities since these are addressed in another subsection; and,
- remove references to uses since the rule will be applicable to all facilities generating, treating, or managing biosolids.

12 (a) Requirements in this chapter shall apply to domestic wastewater treatment
13 facilities and biosolids, ~~residuals~~ management facilities, ~~and septage management~~
14 ~~facilities~~ that generate, treat, or manage biosolids ~~residuals or septage which are to be~~
15 ~~applied to agricultural sites or reclamation sites, or which are distributed and marketed.~~

Current subsection 62-640.100(6)(b) is renumbered and revised to clarify that this rule is applicable to the use of Class AA (bulk) biosolids.

16 (b) Requirements ~~The requirements~~ in this chapter shall also apply to appliers
17 or distributors of biosolids or biosolids ~~residuals or residuals~~ products, site registrants,

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1 and to owners or operators of application sites ~~agricultural sites or reclamation sites~~
 2 which receive biosolids residuals.

3 Subsection 62-640.100(6)(c) is being removed because it is out-of-date.

4 ~~(c) — Unless specifically provided otherwise in this chapter, requirements in this~~
 5 ~~chapter shall apply to all facilities which generate residuals or apply residuals to~~
 6 ~~agricultural sites or reclamation sites, or which distribute and market residuals or~~
 7 ~~operate an agricultural site or reclamation site, for which complete permit applications~~
 8 ~~were received after December 1, 1997.~~

9 Current subsection 62-640.100(6)(d) is renumbered and revised to remove the grandfathering date.

10 ~~(c)(d)~~ Unless specifically provided otherwise in this chapter, requirements in this
 11 chapter shall apply to all septage management facilities that treat more than 10,000
 12 gallons per day monthly average daily flow or more than 20,000 gallons in a single day,
 13 and that apply septage to agricultural sites or reclamation sites. Requirements ~~The~~
 14 ~~requirements~~ of this chapter shall also apply to appliers of septage, and to operators or
 15 owners of an agricultural site or reclamation site which have received ~~has had~~ septage
 16 from facilities permitted under this chapter ~~applied to the land after December 1, 1997.~~

17 ~~(d)(e)~~ Unless specifically provided otherwise in this chapter, requirements in this
 18 chapter that apply to biosolids residuals shall also apply to septage from facilities
 19 regulated by the Department, and to products derived from such septage, or biosolids
 20 residuals, or combinations thereof.

21 Current subsection 62-640.100(6)(f) is renumbered and revised to remove the grandfathering date.

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1 (e)(f) Unless specifically provided otherwise in this chapter, requirements in this
 2 chapter shall apply to composting facilities, as defined by this chapter, which use yard
 3 trash, wood chips, or similar bulking agents, and apply the resulting compost to land or
 4 distribute and market the resulting compost ~~after December 1, 1997.~~

Current subsection 62-640.100(6)(g) is renumbered and revised to establish the date for considering facilities as "existing facilities."

5 (f)(g) Facilities which have submitted a complete wastewater permit application
 6 or which have received an initial permit before _____ December 1, 1997, are
 7 considered to be existing facilities and shall meet the requirements of this chapter in
 8 accordance with subsection (g) through (i) (h) below.

Current subsection 62-640.100(6)(h) is renumbered and provides clarification on the use of registered application sites.

9 (g)(h) Unless specifically provided otherwise in this chapter, existing facilities
 10 Existing facilities in Florida shall comply with the these requirements of this chapter at
 11 the time of renewal ~~or substantial revision~~ of the wastewater permit, ~~whichever occurs~~
 12 first including the requirement to use registered application sites in accordance with Rule
 13 62-640.300, F.A.C. Existing facilities may choose to comply with the requirements of
 14 this chapter prior to the time specified in this rule by obtaining a permit revision under
 15 Chapter 62-620, F.A.C.

New subsection 62-640.100(5)(h) provides further clarification on the use of registered application sites for existing facilities renewing permits during the first year of rule implementation.

16 (h) Permittees submitting an application to renew an existing wastewater
 17 facility permit prior to (one year after the effective date of the rule) may choose to
 18 continue to use existing application sites and comply with the site requirements for land

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1 application of biosolids or septage included in the existing permit until the subsequent
 2 permit renewal or (six years after the effective date of the rule), whichever occurs first.

Current subsection 62-640.100(6)(i) is replaced and now further clarifies that a facility must comply with the requirements imposed on a registered application site by this chapter (if the facility uses that site).

3 (i) If an existing facility uses a registered application site or if an application
 4 site used by an existing facility becomes a registered application site, then the use and
 5 application of the facility's biosolids at the registered application site shall comply with
 6 the requirements of this chapter and the application site registration, which supersede
 7 the existing facility permit.

8 ~~—(i)— Until such time as the wastewater permit is renewed or a new permit is~~
 9 ~~issued for expansion or substantial modification of the facility, the facility shall comply~~
 10 ~~with the requirements for land application of residuals or septage in the existing permit.~~

Subsection 62-640.100(6)(j) is unnecessary.

11 ~~—(j)— Residuals or residuals products which are generated outside of Florida but~~
 12 ~~imported to Florida are subject to the provisions of this chapter beginning December 1,~~
 13 ~~1997.~~

14 (6) Other Applicable Rules.

Current subsections 62-640.100(6)(k)1. – 4. are renumbered and revised with minor sentence structure changes.

15 (a)(k) Septage ~~The following activities are excluded from the requirements of~~
 16 ~~this chapter:~~

17 ~~1. Regulation of septage~~ management facilities that treat 10,000 gallons per
 18 day or less on a monthly average daily flow basis and no more than 20,000 gallons in a

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1 single day. ~~These facilities~~ are regulated by the Department of Health in accordance
2 with Chapter 64E-6, F.A.C.

3 ~~2.~~ Land application of septage treated by these facilities shall also be which
4 are regulated by the Department of Health in accordance with Chapter 64E-6, F.A.C.

5 (b)3. Disposal of biosolids residuals, septage, and other solids in a solid waste
6 landfill. ~~Disposal of these materials~~ shall be in accordance with Chapter 62-701, F.A.C.

7 (c)4. Disposal of biosolids residuals by placement on land for purposes other
8 than soil conditioning or fertilization, such as at a monofill, surface impoundment, waste
9 pile, or dedicated site. ~~Disposal in such cases~~ shall be in accordance with Chapter 62-
10 701, F.A.C.

11 Current subsection 62-640.100(6)(k)5. is renumbered and revised to delete out-of-date air rules.

12 (d)5. ~~Incineration of residuals.~~ Incineration of biosolids residuals shall meet the
13 requirements of Chapters 62-210, 62-212, 62-213, ~~62-272, 62-273, 62-275,~~ 62-296, and
62-297, F.A.C., and the Resource Conservation and Recovery Act.

14 Current subsection 62.640.100(6)(k)6. is renumbered and revised and reworded for clarification but no
change in intent.

15 (e)6. Co-composting of biosolids residuals with ~~solid waste other than~~ yard
16 trash, wood chips, or similar bulking agents shall be in accordance with Chapter 62-640,
17 F.A.C. Co-composting of biosolids residuals with other solid waste materials shall be in
accordance with Chapter 62-709, F.A.C.

Current subsection 62-640.100(6)(k)7. is renumbered and revised to clarify that biosolids requirements,
as well as any other applicable requirements, apply when biosolids are mixed with another material or
waste. Non-biosolids material are inherently covered by other regulations and there is little need to state
that.

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1 (f)7. Biosolids blended or mixed with other wastes shall meet the requirements
 2 of this chapter and other applicable Department rules. Treatment, management, or
 3 disposal of industrial sludges or septage, air treatment sludges, and water supply
 4 treatment.

5 (g)8. Disposal of screenings and grit from the preliminary treatment
 6 components of wastewater treatment facilities, solids from sewer line cleaning
 7 operations, and solids from lift stations and pump stations. Disposal of these materials
 8 shall be in accordance with Chapter 62-701, F.A.C.

New subsection 62-640.100(6)(h) addresses the current state and federal regulations for the transportation of biosolids.

9 (h) Transportation of biosolids is regulated by the Department of
 10 Transportation in accordance with Chapter 316, Florida Statute (FS), and 49 Code of
 11 Federal Regulations (CFR).

12 Specific Authority 403.051, 403.061, 403.062, 403.087, 403.088, 403.704, 403.707, FS.
 13 Law Implemented 403.021, 403.051, 403.061, 403.087, 403.088, 403.0881, 403.702,
 14 403.704, 403.707, 403.708, FS.

15 History - New 08-12-90, Formerly 17-640.110, Amended 3-30-98. Amended.

17 **~~62-640.110 Applicability. (Repealed)~~**

18 ~~Specific Authority 403.061, 403.062, 403.087, 403.088, 403.704, 403.707, FS.~~
 19 ~~Law Implemented 403.021, 403.061, 403.087, 403.088, 403.0881, 403.702, 403.704,~~
 20 ~~403.707, 403.708, FS.~~

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1 ~~History - New 08-12-90, Formerly 17-640.110, Repealed 3-30-98.~~

3 **62-640.200 Definitions.**

4 Terms used in this chapter shall have the meaning specified below. The meaning of
5 any term not defined below may be taken from definitions in other rules of the
6 Department.

7 (1) "Aerosol" means suspension of ultramicroscopic solid or liquid particles in
8 air.

9 Subsection 62-640.200(2) is being deleted since Agricultural Use Plans are being replaced by Nutrient Management Plans.

10 ~~(2) "Agricultural Use Plan" means a formal document submitted to the~~
11 ~~Department which describes the controlled use of residuals as part of a planned~~
12 ~~agricultural operation.~~

13 ~~(2)(3) "Agricultural site" means a biosolids residuals application site consisting of~~
14 ~~land on which a food crop, a feed crop, or a fiber crop is grown, forest land, or land on~~
15 ~~which turf or ornamental plants are grown. This includes range land and land used as~~
16 ~~pasture.~~

17 Current subsection 62-640.200(4) is renumbered and revised to address phosphorus in the definition of "agronomic rate."

18 ~~(3)(4) "Agronomic rate" means the total biosolids whole residuals application rate~~
19 ~~(dry weight basis) designed:~~

20 (a) to provide the amount of nitrogen or phosphorus needed by the food crop,
21 feed crop, fiber crop, cover crop, or vegetation grown on the land; and

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1 (b) to minimize the amount of nitrogen or phosphorus ~~in the residuals~~ that
 2 passes below the root zone of the crop or vegetation grown on the land to the ground
 3 water or that may be transported off-site.

Current subsection 62-640.200(5) is being renumbered and revised to clarify that it applies to Class A and B biosolids.

4 ~~(4)(5)~~ “Application site” means a property (such as a farm, a ranch or a mining
 5 property) where Class A or B biosolids ~~residuals~~ are applied to land. Application sites
 6 are identified as either agricultural sites or reclamation sites.

7 ~~(5)(6)~~ “Application zone” means a parcel of land (e.g., a field) to which biosolids
 8 ~~residuals~~ are applied at an application site.

9 ~~(6)(7)~~ “Average daily flow (ADF)” means the total volume of wastewater flowing
 10 into a wastewater facility during some defined period of time, divided by the number of
 11 days in that period of time, expressed in units of mgd.

New subsection 62-640.200(7) is being added to replace subsection 62-640.200(31) and reflects the change from the use of the term “residuals” to “biosolids.”

12 (7) “Biosolids” means the solid, semisolid, or liquid residue generated during
 13 the treatment of domestic wastewater in a domestic wastewater treatment facility,
 14 formerly known as “domestic wastewater residuals” or “residuals”. Not included is the
 15 treated effluent or reclaimed water from a domestic wastewater treatment plant. Also
 16 not included are solids removed from pump stations and lift stations, screenings and grit
 17 removed from the preliminary treatment components of domestic wastewater treatment
 18 facilities, other solids as defined in Rule 62-640.200(32), F.A.C., and ash generated
 19 during the incineration of biosolids.

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New subsection 62-640.200(8) is being added to replace subsection 62-640.200(32) and reflects the change from the use of the term “residuals” to “biosolids” in the definition of “biosolids management facility.”

1 (8) “Biosolids management facility” means a facility, such as a composting or
 2 blending facility, that treats biosolids from other facilities for the purpose of meeting the
 3 requirements of this chapter, before use or land application. Biosolids management
 4 facilities may also treat domestic septage and combinations of biosolids, domestic
 5 septage, food establishment sludges, wastes removed from portable toilets, and wastes
 6 removed from holding tanks associated with boats, marinas, and onsite sewage
 7 treatment and disposal systems, before use or land application.

New subsection 62-640.200(9) adds the concept of “bulk” biosolids.

8 (9) “Bulk biosolids” means biosolids that are transported, land applied, or
 9 distributed and marketed in a manner other than in a bag or other container holding
 10 biosolids of 2000 pounds or less.

11 (10)(8) “Class A biosolidsresiduals” means biosolids residuals that meet
 12 the Class A pathogen reduction requirements of Rule 62-640.600(1)(a), F.A.C.

13 (11)(9) “Class AA biosolidsresiduals” means Class A biosolids residuals
 14 that meet all the requirements of Rule 62-640.850, F.A.C.

15 (12)(10) “Class B biosolidsresiduals” means biosolidsresiduals that meet the
 16 Class B pathogen reduction requirements of Rule 62-640.600(1)(b), F.A.C.

17 (13)(11) “Composting Facility” means a facility, as defined in Rule 62-
 18 640.200(21), F.A.C. Rule 62-640.200(21), F.A.C., that uses composting technology for

1 treatment of biosolids residuals. Processing may include physical turning, windrowing,
 2 aeration, or other mechanical handling of biosolids residuals.

3 ~~(14)~~(12) “Conservation Plan” means a formal document, prepared or
 4 approved by a local Soil and Water Conservation District Board organized pursuant to
 5 Chapter 582, F.S., which outlines a system of management practices for a specific
 6 parcel of property to control soil erosion, reduce sediment loss, protect the water quality
 7 and manage nutrient use.

New subsection 62-640.200(15) adds the definition of “Container” or “Other container” with is used in the definition of “bulk biosolids.”

8 ~~(15)~~ “Container” or “Other container” means a bucket, box, carton, trailer,
 9 pickup truck bed, tanker vehicle, or an open or closed receptacle with a load capacity of
 10 2000 pounds or less.

New subsection 62-640.200(16) adds the definition of “Delegated Local Program” which is used in the rule.

11 ~~(16)~~ “Delegated Local Program” means any county, municipality, or
 12 combination thereof that has established and administers a pollution control program
 13 approved by the Department in compliance with Section 403.182, F.S., as amended.

14 ~~(17)~~(13) “Department” means the Florida Department of Environmental
 15 Protection.

16 ~~(18)~~(14) “Design capacity” shall be as defined in Chapter 62-600, F.A.C.
 17 The design capacity for biosolids residuals-management facilities shall be expressed in
 18 units of dry tons per day.

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1 ~~(19)(15)~~ “Distribution and Marketing” is the giveaway or sale of biosolids
 2 ~~residuals~~ meeting the criteria of Rule 62-640.850, F.A.C., or a product derived from
 3 such biosolids, ~~residuals~~, either packaged or in bulk form, by owners or operators of
 4 treatment works or by a person who receives biosolids ~~residuals~~ or biosolids ~~residual~~
 5 products from treatment works.

6 ~~(20)(16)~~ “Dry weight basis” means calculated on the basis of having been
 7 dried at 105 degrees Celsius until reaching a constant mass (i.e., essentially 100
 8 percent solids content).

New subsection 62-640.200(21) adds the definition of “existing application sites” which is used for the purposes of site registration and related to existing facilities.

9 ~~(21)~~ “Existing application site” means a site approved for land application or
 10 land reclamation under an active wastewater facility permit or included in a complete
 11 permit application submitted before the (effective date of the rule).

12 ~~(22)(17)~~ “Facility” means a domestic wastewater treatment facility, a
 13 biosolids ~~residuals~~-management facility, or a septage management facility.

14 ~~(23)(18)~~ “Feed crops” mean crops produced primarily for consumption by
 15 animals.

16 ~~(24)(19)~~ “Fiber crops” mean crops such as flax and cotton which are
 17 produced primarily for the manufacture of products and are not consumed by humans or
 18 animals.

19 ~~(25)(20)~~ “Food crops” mean crops consumed by humans.

1 ~~(26)~~~~(21)~~ “Food establishment sludge” means oils, fats, greases, food scraps,
2 and other grease interceptor contents generated by a food operation or institutional food
3 preparation facility.

New subsection 62-640.200(27) adds the definition of “Incorporation” which will be required by rule in certain land application situations.

4 ~~(27)~~ “Incorporation” means the mixing of biosolids with topsoil to a minimum
5 depth of four inches by such means as discing, plowing, or tilling in order to ensure the
6 soil significantly reduces exposure to the biosolids.

7 ~~(28)~~~~(22)~~ “Industrial sludges” means all sludges that are primarily composed
8 of materials generated through a manufacturing or other industrial process.

New subsection 62-640.200(29) adds the definition of “Injection” similar to “Incorporation.”

9 ~~(29)~~ “Injection” means the subsurface placement of liquid biosolids to a
10 minimum depth of four inches in order to ensure the soil significantly reduces exposure
11 to the biosolids.

12 ~~(30)~~~~(23)~~ “Liquid ~~biosolids~~~~residuals~~” means any ~~biosolids~~ ~~residuals~~ that are
13 less than 12% solids by weight, or that are determined to contain free liquids as defined
14 by Method 9095 (Paint Filter Liquids Test), as described in “Test Methods for Evaluating
15 Solid Wastes, Physical/Chemical Methods” (EPA Pub. No. SW-846), which is
16 incorporated ~~herein~~ ~~here~~ by reference.

New subsection 62-640.200(30) adds a definition for “Nutrient Management Plan.”

17 ~~(31)~~ “Nutrient Management Plan” (NMP) means a n application site-specific
18 plan, developed in accordance with Rule 62-640.500, F.A.C., establishing the rate at
19 which all biosolids, soil amendments, and sources of nutrients can be applied to provide

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1 adequate nutrients for crop growth while minimizing the amount of pollutants and
 2 nutrients discharged to waters of the State.

New subsection 62-640.200(32) adds a definition for “one hundred-year floodplain”/”one percent-chance floodplain.”

3 (32) “One hundred-year floodplain” or “one percent-chance floodplain” means
 4 the lowland and relatively flat areas adjoining inland and coastal waters subject to a one
 5 percent or greater chance of flooding in any give n year.

6 (33)(24) “Other solids” means material, primarily sand and inorganic matter,
 7 removed from domestic wastewater treatment processes during primary and secondary
 8 treatment. Not included are solids removed from pump stations and lift stations, solids
 9 from sewer line cleaning operations, and screenings and grit removed from the
 10 preliminary treatment components of domestic wastewater treatment facilities.

11 (34)(25) “Pathogens” or “pathogenic organisms” means disease-causing
 12 organisms. These include certain bacteria, protozoa, viruses, and viable helminth ova
 13 and any other organisms that cause disease.

14 (35)(26) “Permitted capacity” shall be as defined in Chapter 62-600, F.A.C.
 15 The permitted capacity for biosolids residuals-management facilities shall be expressed
 16 in units of dry tons per day.

New subsection 62-640.200(36) adds a definition for a “person.”

17 (36) “Person” means any individual, corporation, firm, partnership, limited
 18 partnership, association, or joint stock association.

New subsection 62-640.200(37) adds the definition for pH based on Part 503.

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1 (37) “pH” means the logarithm of the reciprocal of the hydrogen ion
 2 concentration measured at 25 degrees Centigrade or measured at another temperature
 3 and then converted to an equivalent value at 25 degrees Centigrade.

Current subsection 62-640.200(27) is renumbered and revised to clarify the definition of “pH of residuals-soil mixture.”

4 ~~(38)(27)~~ “pH of biosolids residuals-soil mixture” means the pH value obtained
 5 by sampling the soil to the depth of six inches or to the depth of biosolids residuals
 6 placement, whichever is greater. ~~If residuals are surface applied, a core sample shall~~
 7 ~~be collected through the surface to a depth of six inches.~~

Subsection 62-640.200(28) is deleted and replaced with definitions for “private drinking water supply well” and “public drinking water supply well” used in other wastewater rules.

8 ~~(28) —“Potable water supply well” means a well used as a source of water for~~
 9 ~~drinking, culinary, or domestic purposes.~~

New subsection 62-640.200(39) adds the definition of “private drinking water supply well” used in other wastewater rules.

10 (39) “Private drinking water supply well” means a well serving a private or
 11 multifamily water system as defined in Rule 62-532.200, F.A.C.

New subsection 62-640.200(40) adds the definition of “public drinking water supply well” used in other wastewater rules.

12 (40) “Public drinking water supply well” means a well serving a public water
 13 system as defined in Rule 62-550.200, F.A.C.

14 (41)(29) “Reclaimed water” shall be as defined in Chapter 62-610, F.A.C.

15 (42)(30) “Reclamation site” means a biosolids residuals-application site
 16 consisting of drastically disturbed land that is reclaimed using biosolids residuals, such
 17 as strip mines and construction sites.

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Subsection 62-640.200(31) is deleted and replaced by subsection 62-640.200(7) to reflect the change to the use of the term "biosolids" instead of "residuals."

1 ~~(31) "Residuals" or "domestic wastewater residuals" means the solid,~~
 2 ~~semisolid, or liquid residue generated during the treatment of domestic wastewater in a~~
 3 ~~domestic wastewater treatment facility. Not included is the treated effluent or reclaimed~~
 4 ~~water from a domestic wastewater treatment plant. Also not included are solids~~
 5 ~~removed from pump stations and lift stations, screenings and grit removed from the~~
 6 ~~preliminary treatment components of domestic wastewater treatment facilities, other~~
 7 ~~solids as defined in Rule 62-640.200(24), F.A.C., and ash generated during the~~
 8 ~~incineration of residuals.~~(43)

Subsection 62-640.200(32) is deleted and replaced by subsection 62-640.200(8) to reflect the change to the use of the term "biosolids" instead of "residuals."

9 ~~(32) "Residuals management facility" means a facility, such as a composting or~~
 10 ~~blending facility, that treats residuals from other facilities for the purpose of meeting the~~
 11 ~~requirements of this chapter, before use or land application. Residuals management~~
 12 ~~facilities may also treat domestic septage and combinations of residuals, domestic~~
 13 ~~septage, food establishment sludges, wastes removed from portable toilets, and wastes~~
 14 ~~removed from holding tanks associated with boats, marinas, and onsite sewage~~
 15 ~~treatment and disposal systems, before use or land application.~~

Current subsection 62-640.200(33) is renumbered and is revised so that the definition of "Restricted Public Access" includes a requirement to inform workers and other allowed persons of the nature of the site application site and proper conduct.

16 ~~(43)(33)~~ "Restricted public access" means that access to a land application
 17 site by the general public is both controlled and infrequent. Restricted public access
 18 application sites are ~~Such sites will be~~ accessible to persons authorized by the site

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1 owner, site registrant, site manager, or facility permittee, such as farm personnel,
 2 wastewater facility operators, and biosolids residuals or seepage haulers provided the
 3 authorized persons are given information and instructions by the site owner, site
 4 manager, site registrant or facility permittee regarding the nature of the application site ,
 5 the biosolids applications, and general procedures to follow such as those found in Rule
 6 62-640.210(1)(j), F.A.C.

7 ~~(44)(34)~~ “Septage” means a mixture of sludge, fatty materials, human feces,
 8 and wastewater removed during pumping of an onsite sewage treatment and disposal
 9 system. Excluded from this definition are the contents of portable toilets, holding tanks,
 10 and grease interceptors.

Current subsection 62-640.200(35) is renumbered and revised to reference the rule that describes which SMFs are regulated by DOH.

11 ~~(45)(35)~~ “Septage management facility” means a stationary facility that
 12 treats only domestic septage or combinations of domestic septage, food establishment
 13 sludges, wastes removed from portable toilets, and wastes removed from holding tanks
 14 associated with boats, marinas, and onsite sewage treatment and disposal systems,
 15 before use or land application. Septage management facilities that are regulated by the
 16 Department are as described in Rule 62-640.100(5)(c), F.A.C.

New subsection 62-640.200(46) adds definition of “Site Manager.”

17 (46) “Site Manager” means the person who operates or manages the
 18 application site to ensure Class A or B biosolids are applied in accordance with the
 19 requirements of this chapter. The site manager is identified on Form 62-640.210(2)(d).

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1 | ~~(47)(36)~~ “Source facility” means a facility that sends ~~biosolids residuals~~ to a
2 | ~~biosolids residuals~~ management facility for treatment before use or land application.

3 | ~~(48)(37)~~ “Ton” means a short ton (2,000 pounds or 0.90718 metric ton).

4 | ~~(49)(38)~~ “Toxic substances” means either of the following:

5 | (a) Hazardous wastes as defined in Chapter 62-730, F.A.C.

6 | (b) A substance which is present in sufficient concentration to pose a serious
7 | danger to the public health, safety, or welfare.

8 | ~~(50)(39)~~ “Treatment” means the process of altering the character or physical
9 | or chemical condition of waste to prevent pollution of water, air, or soil, to safeguard the
10 | public health, or enable the waste to be beneficially used. Treatment includes blending,
11 | dewatering, and any process that alters the quality or quantity of the material for the
12 | purpose of meeting the requirements of this chapter. Treatment does not include
13 | storage of ~~biosolids residuals~~.

14 | ~~(51)(40)~~ “Vector attraction” means the characteristic of ~~biosolids residuals~~
15 | that attracts rodents, flies, mosquitoes, or other organisms capable of transporting
16 | infectious agents.

17 | ~~(52)(41)~~ “Water table” means the upper surface of the zone of saturation
18 | where groundwater pressures are equal to atmospheric pressure, except where that
19 | surface is formed by an impermeable stratum.

20 | ~~(53)(42)~~ “Waters” means those waters defined in Section 403.031, F. S.

1 | ~~(54)(43)~~ “Yard trash” means vegetative matter resulting from landscaping
2 | maintenance or land clearing operations and includes materials such as tree and shrub
3 | trimmings, grass clippings, palm fronds, trees, and tree stumps.
4 | Specific Authority 403.051, 403.061, 403.062, 403.087, 403.088, 403.704, 403.707, FS.
5 | Law Implemented 403.021, 403.051, 403.061, 403.087, 403.088, 403.0881, 403.702,
6 | 403.704, 403.707, 403.708, FS.
7 | History - New 08-12-90, Formerly 17-640.200, Amended 3-30-98, Amended _____.
8 |
9 |

9 | **62-640.210 General Technical Guidance and Forms.**

10 | Revised subsection 62-640.210(1) adds “distributors and marketers” and “site registrant” to the list of
11 | entities that the technical guidance applies to.

10 | (1) The following publications are listed as technical guidance to assist
11 | facilities, appliers, distributors and marketers, site registrants, site managers, and site
12 | owners in meeting the requirements of this chapter. Publications or portions of
13 | publications containing enforceable criteria are specifically referenced elsewhere in this
14 | chapter. Information in the publications listed below does not supersede the specific
15 | requirements of this chapter. Members of the public may request and obtain copies of
16 | the publications listed below by contacting the appropriate publisher at the address
17 | indicated. Copies of the publications are on file with the Florida Secretary of State and
18 | the Joint Administrative Procedures Committee of the Florida Legislature. Copies are
19 | also on file and available for review during normal business hours in the Department's
20 | Tallahassee offices and in the Department's district and branch offices.

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1 (a) U.S. Environmental Protection Agency, 1995, Process Design Manual for
 2 Land Application of Sewage Sludge and Domestic Septage, EPA Center for
 3 Environmental Research Information, 26 West Martin Luther King Drive, Cincinnati,
 4 Ohio 45268. www.epa.gov.

5 Subsection 62-640.210(1)(b) is revised to reflect the most current revision to Part 503.

6 (b) Title 40, Code of Federal Regulations, Protection of Environment, 1993,
 7 Part 503, "Standards for the Use and Disposal of Sewage Sludge," revised as of
 8 ~~September 3, 1999~~~~October 25, 1995~~. www.gpoaccess.gov/cfr/index.html.

9 (c) U.S. Environmental Protection Agency, 1989, POTW Sludge Sampling
 10 and Analysis Guidance Document, EPA Center for Environmental Research
 11 Information, 26 West Martin Luther King Drive, Cincinnati, Ohio 45268. www.epa.gov.

12 (d) U.S. Environmental Protection Agency, Process Design Manual For
 13 Sludge Treatment And Disposal, 1979, Center for Environmental Research Information,
 14 26 West Martin Luther King Drive, Cincinnati, Ohio 45268. www.epa.gov.

15 Subsection 62-640.200(1)(e) is revised to reflect the most current edition of "Recommended Standards
 16 for Wastewater Facilities."

17 (e) [Recommended Standards for Wastewater Facilities, 2004, Health](http://www.hes.org)
 18 [Education Service, Inc., P.O. Box 7126, Albany, New York 12224](http://www.hes.org)~~Recommended~~
 19 ~~Standards for Sewage Works, 1990, Great Lakes-Upper Mississippi River Board of~~
 20 ~~State Sanitary Engineers (Ten State Standards).~~ www.hes.org.

21 (f) U. S. Environmental Protection Agency, Handbook, Septage Treatment
 22 and Disposal, 1984, Center for Environmental Research Information, 26 West Martin
 23 Luther King Drive, Cincinnati, Ohio 45268. www.epa.gov.

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Subsection 62-640.200(1)(g) is revised to reflect the most current edition of Control of Pathogens and Vector Attraction in Sewage Sludge.

1 (g) U. S. Environmental Protection Agency, Control of Pathogens and Vector

2 Attraction in Sewage Sludge, 2003-1992, EPA Center for Environmental Research

3 Information, Cincinnati, Ohio, 45268. www.epa.gov.

4 (h) U. S. Environmental Protection Agency, 1974, Design Criteria for

5 Mechanical, Electric, and Fluid System and Component Reliability-MCD-05,

6 Environmental Quality Instructional Resources Center, The Ohio State University, 1200

7 Chambers Road, Room 310, Columbus, Ohio 43212. www.epa.gov.

New subsection 62-640.210(1)(i) adds the EPA A Plain English Guide to the Part 503 Biosolids Regulations as a technical reference.

8 (i) [U.S. Environmental Protection Agency, 1993, A Plain English Guide to the](#)

9 [Part 503 Biosolids Regulations, EPA Center for Environmental Research Information,](#)

10 [26 West Martin Luther King Drive, Cincinnati, Ohio 45268. www.epa.gov.](#)

New subsection 62-640.210(1)(j) adds the NIOSH Guidance for Controlling Potential Risks to Workers Exposed to Class B Biosolids as a technical reference.

11 (j) [National Institute for Occupational Safety and Health, 2002, Guidance for](#)

12 [Controlling Potential Risks to Workers Exposed to Class B Biosolids, NIOSH-](#)

13 [Publications Dissemination, 4676 Columbia Parkway, Cincinnati, Ohio 45226-1998.](#)

14 www.cdc.gov/niosh/homepage.html.

New subsection 62-640.210(1)(k) adds the EPA/USDA Guide to Field Storage of Biosolids as a technical reference.

15 (k) [U.S. Environmental Protection Agency, 2000, Guide to Field Storage of](#)

16 [Biosolids, EPA Center for Environmental Research Information, 26 West Martin Luther](#)

17 [King Drive, Cincinnati, Ohio 45268. www.epa.gov.](#)

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New subsection 62-640.210(1)(l) – (p) adds various agricultural-related documents as technical guidance.

1 (l) USDA Natural Resources Conservation Service, 1999, “General Manual,
2 Title 190, Part 402 – Nutrient Management”, USDA-NRCS, Washington, DC,
3 www.nrcs.usda.gov/technical.

4 (m) USDA Natural Resources Conservation Service - Florida, 2003, “Field
5 Office Technical Guide – Nutrient Management, Code 590 guidelines”, USDA-NRCS-
6 FL, Gainesville, FL, www.fl.nrcs.usda.gov/technical.

7 (n) USDA Natural Resources Conservation Service - Florida, 2004, “Field
8 Office Technical Guide – Waste Utilization, Code 633 guidelines”, USDA-NRCS-FL,
9 Gainesville, FL, www.fl.nrcs.usda.gov/technical.

10 (o) Kidder, G. and R.D. Rhue, 1997, Soil Testing, UF/IFAS Circular 239,
11 <http://edis.ifas.ufl.edu/SS156>.

12 (p) Mylavarapu, R.S. and E.D. Kennelley, 2002, Extension Soil Testing
13 Laboratory (ESTL) Analytical Procedure and Training Manual, UF/IFAS Circular 1248.
14 <http://edis.ifas.ufl.edu/SS312>.

15 (2) Forms. The forms and instructions used by the Department are listed in
16 this rule. The rule numbers are the same as the form numbers. ~~The forms are~~
17 ~~incorporated by reference in this rule.~~ Copies of these forms and instructions may be
18 obtained by writing to the Bureau of Wastewater Facilities, Mail Station 3535,
19 Department of Environmental Protection, Twin Towers Office Building, 2600 Blair Stone
20 Road, Tallahassee, Florida, 32399-2400. In addition, these forms are available at the
21 Department's District Offices as described in Chapter 62-101, F.A.C. The monitoring

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1 information reported on the forms listed below in paragraphs (b) and, (c) and ~~(d)~~ may be
 2 submitted in another format if requested by the permittee and if approved by the
 3 Department as being compatible with data entry into the Department's computer
 4 system. The Department adopts and incorporates by reference in this section the
 5 following forms and instructions:

Subsection 62-640.210(2)(a) is revised to change the name of the form to "Facility Biosolids Plan."

6 (a) Facility Biosolids Agricultural Use Plan, Form 62-640.210(2)(a), effective
 7 December 1, 1997.

Subsection 62-640.210(2)(b) is revised to change the form title to "Facility Annual Summary."

8 (b) Facility Residuals Annual Summary, Form 62-640.210(2)(b), effective
 9 December 1, 1997.

Subsection 62-640.210(2)(c) is revised to remove the "Monthly Distribution and Marketing Report" and to add the "Biosolids Application Site Annual Summary" form for reporting by application sites.

10 (c) Biosolids Application Site Annual Summary, Form 62-640.210(2)(c),
 11 effective Monthly Residuals Distribution and Marketing Report, Form 62-
 12 640.210(2)(c), effective December 1, 1997.

Subsection 62-640.210(2)(d) is revised to remove the "Residuals Monitoring Report" and add the "Biosolids Application Site Registration Form."

13 (d) Biosolids Application Site Registration Form, Form 62-640.210(2)(d),
 14 effective Residuals Monitoring Report, Form 62-640.210(2)(d), effective
 15 December 1, 1997.

New subsection 62-640.210(2)(e) is added to facilitate application site log recording.

16 (e) Biosolids Application Site Log, Form 62-640.210(e), effective .

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1 Specific Authority 403.051, 403.061, 403.062, 403.087, 403.088, 403.704, 403.707, FS.
 2 Law Implemented 403.021, 403.051, 403.061, 403.087, 403.088, 403.0881, 403.702,
 3 403.704, 403.707, 403.708, FS.
 4 History - New 08-12-90, Formerly 17-640.210, Amended 3-30-98, Amended _____.

5

6 **62-640.300 General Permit Requirements.**

New subsection 62-640.300(1) clarifies that facilities receiving or generating biosolids shall have a valid Department permit addressing biosolids treatment, use, disposal, etc.

7 (1) Facilities that receive or generate biosolids shall have a valid Department
 8 permit prior to treatment, land application, distribution and marketing, or disposal of
 9 biosolids. Biosolids shall be treated, managed, and disposed in accordance with the
 10 facility permit and the requirements of this chapter.

New subsection 62-640.300(2) clarifies the exemption for Class AA residuals from the general land application requirements.

11 (2) Unless specifically provided otherwise in this chapter or the wastewater
 12 facility permit, facilities that distribute and market Class AA biosolids in accordance with
 13 Rule 62-640.850, F.A.C., are exempt from the requirements of Rules 62-640.300(3) and
 14 (6); 62-640.450; 62-640.500; 62-640.650(3)(b) through (d); 62-640.650(4)(c) through (j);
 15 62-640.650(5)(c) through (e); 62-640.700; and 62-640.800, F.A.C.

Current subsection 62-640.300(1) is renumbered and revised to require land application sites used by facilities to be identified in the Facility Biosolids Plan, be registered with the Department, and have an NMP

16 (3)(4) Facilities that apply Class A or B biosolids to land shall have Residuals
 17 shall be applied to an application site only if the facility generating or treating the
 18 residuals has a valid Department permit identifying the application sites that includes an

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1 ~~approved Agricultural Use Plan for the site~~ where biosolids are land applied in
 2 accordance with the Facility Biosolids Plan, Form 62-640.210(2)(a), submitted with the
 3 permit application. Each biosolids application site shall be registered with the
 4 Department and have a valid NMP in accordance with Rule 62-640.500, F.A.C. To use
 5 an alternate registered application site not identified on the submitted Facility Biosolids
 6 Plan, the facility shall notify the Department within 24 hours of beginning biosolids
 7 application at the application site and submit the applicable revised portions of the
 8 Facility Biosolids Plan, Form 62-640.210(2)(a), to the Department within 30 days. The
 9 revised portion of the Facility Biosolids Plan shall become part of the wastewater facility
 10 permit.

Current subsection 62-640.300(2) is renumbered and revised to require the identification of new application sites prior to use by a facility.

11 ~~———— (2) ———— New, Expanded or Modified Application Sites - Permit Revisions. Except~~
 12 ~~as allowed in Rule 62-620.300(3), F.A.C., the facility's permit shall be revised under~~
 13 ~~Chapter 62-620, F.A.C., to include a new or revised Agricultural Use Plan prior to~~
 14 ~~application of residuals to new application sites or existing approved sites that are~~
 15 ~~expanded or modified. Approval of new, expanded, or modified application sites~~
 16 ~~constitutes a minor permit revision. A facility may submit more than one Agricultural~~
 17 ~~Use Plan with each application for a minor permit revision.~~

Current subsections 62-640.300(3)(a) - (e) are renumbered and include minor clarifying modifications.

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~~(3) New, Expanded or Modified Application Sites - Unusual Circumstances. A permittee who is authorized to land apply residuals may use a new, expanded or modified application site before permit revision if all of the following conditions are met:~~

~~(a) The permittee notifies the Department within 24 hours that the site is being used;~~

~~(b) The site meets the site use restrictions of Rule 62-640.600(3), F.A.C., and the criteria for land application of residuals in Rule 62-640.700, F.A.C.;~~

~~(c) The permittee submits a new or revised Agricultural Use Plan for the site with a permit application in accordance with Rule 62-640.300(2), F.A.C., within 30 days of beginning use of the site;~~

~~(d) The permittee does not have another approved land application site, another approved disposal method (e.g., landfilling or incineration), or approved storage facilities available for use; and~~

~~(e) The permittee demonstrates during permit application that application of additional residuals to an existing approved application site would have resulted in violation of Department rules, or was not possible due to circumstances beyond the permittee's control.~~

Current subsection 62-640.300(4) is revised to clarify that permittees shall provide for sufficient storage, provide references for storage, and reference the site storage provisions of this chapter.

(4) Biosolids Residuals Storage at a Treatment Facility.

(a) The permittee shall submit a biosolids storage plan with the facility permit application. The permittee shall ensure storage capacity is available to provide

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1 retention of biosolids under adverse weather conditions, harvesting conditions, or other
 2 conditions which preclude land application or the use or disposal of the facility's
 3 biosolids.

4 (b) Biosolids storage facilities at the wastewater treatment plant and land
 5 application site shall meet the requirements of Rules 62-640.210(1)(d), (e), and (k),
 6 F.A.C.

7 (c) Biosolids storage at the land application site shall be in accordance with
 8 Rule 62-640.700(6)(d), F.A.C. ~~The preliminary design report for a new facility or~~
 9 ~~expansion of an existing facility shall include provisions for storage of treated or~~
 10 ~~untreated residuals or other solids at the facility. Storage of residuals or other solids at~~
 11 ~~an existing facility shall require prior written notification to the Department if the storage~~
 12 ~~lasts longer than 30 days, or if the storage provisions were not addressed in the facility's~~
 13 ~~preliminary design report.~~

14 (5) Responsibility for Treatment and Proper Use.

Subsection .300(5)(a) is revised to remove "transfer" of responsibility since the facility will always at least share responsibility with the site.

15 (a) The wastewater treatment facility permittee or biosolids residuals
 16 management facility permittee shall be responsible for proper treatment, management,
 17 use, and land application, or disposal of its biosolids residuals. ~~The facility permittee~~
 18 ~~will not be held responsible for violations resulting from land application of residuals if~~
 19 ~~the permittee can demonstrate that it has delivered residuals that meet the parameter~~
 20 ~~concentrations and appropriate treatment requirements of this rule and the applier (e.g.~~

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1 ~~hauler, contractor, site manager, or site owner) has legally agreed in writing to accept~~
 2 ~~responsibility for proper land application of the residuals. Such an agreement shall~~
 3 ~~state that the applier agrees, upon delivery of residuals that have been treated as~~
 4 ~~required by Chapter 62-640, F.A.C., that he will accept responsibility for proper land~~
 5 ~~application of the residuals as required by Chapter 62-640, F.A.C., and that the applier~~
 6 ~~agrees that he is aware of and will comply with requirements for proper land application~~
 7 ~~as described in the facility's permit.~~

Subsection .300(5)(b) is revised to clarify that a wastewater facility acting as an BMF also relieves the source facility of responsibility (same as a full-fledged BMF).

8 (b) A source facility permittee shall not be held responsible for treatment,
 9 management, use, ~~or~~ land application, or disposal violations that occur after its biosolids
 10 residuals have been accepted by a permitted biosolids residuals management facility, or
 11 wastewater treatment facility acting as a biosolids management facility, with which the
 12 source facility permittee has an agreement in accordance with Rule 62-640.880(1)(c),
 13 F.A.C., for further treatment, management, use or land application.

New subsection .300(5)(c) places shared responsibility for a facility's biosolids on the application site/site manager.

14 (c) The site registrant of a registered land application site shall share
 15 responsibility with the wastewater treatment facility permittee or biosolids management
 16 facility permittee (as applicable) for the proper management, use, and land application
 17 of biosolids at the land application site. The wastewater treatment facility permittee,
 18 biosolids management facility permittee, and site registrant of a land application site

1 shall be jointly and severally liable for any violations specified in Section 403.161(1),
 2 F.S, as directed in Section 403.141(2), F.S.

3 New subsection 62-640.300(6) adds a requirement for a permittee (facility) spill response plan.

3 (6) Spill Response. The permittee shall submit a spill response plan with the
 4 facility permit application. If the permittee uses a contract hauler, the agreement with
 5 the hauler shall require the hauler to follow the spill response plan. The plan shall, at a
 6 minimum, address clean up of biosolids in a manner to minimize the potential for public
 7 exposure and adverse impacts on the environment.

8 New subsection 62-640.300(7) adds a requirement for TCLP testing for new facilities and during permit renewals.

8 (7) Permit applications for renewal shall include the results of a Toxicity
 9 Characteristic Leaching Procedure analysis on the facility's biosolids using USEPA
 10 Method 1311.

11 Specific Authority 403.051, 403.061, 403.062, 403.087, 403.088, 403.704, 403.707, FS.
 12 Law Implemented 403.021, 403.051, 403.061, 403.087, 403.088, 403.0881, 403.702,
 13 403.704, 403.707, 403.708, FS.

14 History - New 08-12-90, Formerly 17-640.300, Amended 3-30-98, Amended.

16 **62-640.400 Prohibitions.**

17 (1) Ocean disposal of biosolids, residuals, or disposal of biosolids residuals in
 18 any water, including direct discharge to ground water, is prohibited.

New subsection 62-640.400(2) moves the prohibition for violating Florida water quality standards from the "Criteria for Land Application" to the "prohibition" section of the chapter.

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1 (2) Florida water quality standards shall not be violated in waters as a result
 2 of land application of biosolids.

3 Current subsection 62-640.400(2) is removed since it is redundant.

4 ~~(2) Residuals which do not meet Class A pathogen reduction requirements~~
 5 ~~set forth in Rule 62-640.600(1)(a), F.A.C., shall not be used on playgrounds, parks, golf~~
 6 ~~courses, lawns, hospital grounds, or other unrestricted public access areas where~~
 7 ~~frequent human contact with the soil is likely to occur and shall not be sold or given~~
 8 ~~away in a distribution and marketing program.—~~

9 (3) Biosolids ~~(3) Residuals~~ which are hazardous waste under Chapter 62-
 10 730, F.A.C., shall not be applied to land.

11 (4) Biosolids ~~(4) Residuals~~ shall not be discharged into a collection or
 12 transmission system without prior consent of the owner of that system.

13 (5) Biosolids ~~(5) Residuals~~ shall not be disposed, ~~of or~~ applied to land, or
 14 distributed and marketed except in accordance with the provisions of this chapter.

15 Current subsection 62-640.400(6) is modified to clarify that transportation of biosolids and that Class AA
 16 biosolids are subject to the odor prohibition.

17 (6) The treatment, management, transportation, use, or land application, or
 18 disposal of biosolids, including Class AA biosolids, residuals, shall not cause a violation
 19 of the odor prohibition in Rule 62-296.320(2), F.A.C.

20 (7) Class A and Class B biosolids ~~(7) Residuals that do not meet the~~
 21 ~~requirements of this chapter for Class AA designation~~ shall not be used for the
 22 cultivation of tobacco or leafy vegetables.

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1 (8) Treatment of liquid biosolids residuals or septage for the purpose of
 2 meeting the pathogen reduction or vector attraction reduction requirements set forth in
 3 Rule 62-640.600, F.A.C., shall not be conducted in the tank of a hauling vehicle.

4 Treatment of biosolids residuals or septage for the purpose of meeting pathogen
 5 reduction or vector attraction reduction requirements shall take place at the permitted
 6 facility.

7 (9) Biosolids (9) Residuals that do not meet the requirements of this chapter
 8 for Class AA designation shall not be shipped into Florida unless shipped to a
 9 Department permitted biosolids management facility that has legally agreed in writing to
 10 accept responsibility for proper treatment, management, use and land application of the
 11 biosolids residuals.

New subsection 62-640.400(10) prohibits the storage, stockpiling, and staging of biosolids except in accordance with the appropriate sections of the rule.

12 (10) Biosolids, including bulk quantities of Class AA biosolids, shall not be
 13 stored, stockpiled, or staged at any location, except in accordance with Rules 62-
 14 640.300(4), 62-640.700(5)(d), and 62-640.850(8)(f), F.A.C.

New subsection 62-640.400(11) prohibits the tracking or spilling of residuals off of the facility site or land application site.

15 (11) Class A or B biosolids shall not be spilled from or tracked off the
 16 wastewater treatment facility site or land application sites by the hauling vehicle.

New subsection 62-640.400(12) provides consistency with Chapter 62-600, F.A.C.

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1 (12) Land application of Class A and Class B biosolids is prohibited within the
 2 primary and secondary protection zones of the Wekiva Study Area in accordance with
 3 Rule 62-600.550, F.A.C.

4 Specific Authority 403.051, 403.061, 403.062, 403.087, 403.088, 403.704, 403.707, FS.
 5 Law Implemented 403.021, 403.051, 403.061, 403.087, 403.088, 403.0881, 403.702,
 6 403.704, 403.707, 403.708, FS.

7 History - New 08-12-90, Formerly 17-640.400, Amended 3-30-98, Amended _____.

8
 9 New subsection 62-640.450 is added to address application site registration.

62-640.450 Application Site Registration.

New subsection 62-640.450(1) requires:

- site registration;
- specifies a time limit for existing sites to obtain registration;
- defines existing sites; and,
- requires site registration for new sites prior to application.

10 (1) New application sites shall be registered prior to use. Existing application
 11 sites shall be registered prior to applying biosolids from facilities required to use a
 12 registered site in accordance with Rule 62-640.100(5)(g) and (h), F.A.C. All existing
 13 application sites shall be registered within six years of (the effective date of the rule).

New subsection 62-640.450(2) requires applicants registering sites to:

- submit of the registration form;
- a registration fee; and,
- an NMP to the district office that is responsible for the area where the site is located.

14 (2) Applicants registering biosolids application sites shall submit Form 62-
 15 640.210(2)(d), Biosolids Application Site Registration Form, with the appropriate
 16 registration fee, and for agricultural sites, submit a Nutrient Management Plan for the

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1 site prepared in accordance with Rule 62-640.500, F.A.C. The Biosolids Application
 2 Site Registration Form 62-640.210(2)(d) and supporting documentation shall be
 3 submitted to the Department's district office or delegated local program responsible for
 4 the geographic area in which the application site is located.

New subsection 62-640.450(3) dictates positive action by the Department for site approval.

5 (3) The Department will review the site registration application in accordance with
 6 Section 120.60(1), FS, and notify the applicant of the Department's proposed agency
 7 action.

New subsection 62-640.450(4) requires published notice.

8 (4) The applicant shall publish a notice of proposed agency action in
 9 accordance with subsection 62-110.106(8), F.A.C., as soon as possible after notification
 10 by the Department of its intended action.

New subsection 62-640.450(5) requires re-registration of sites every five years.

11 (5) Site registration shall be valid for a term not to exceed five years.

New subsection 62-640.450(6) requires re-registration when a site is expanded or modified.

12 (6) Expansion or modification of the physical boundaries of the application
 13 areas of a registered application site shall require re-registration and submittal of an
 14 updated NMP.

15 Specific Authority 403.051, 403.061, 403.062, 403.087, 403.088, 403.704, 403.707, FS.

16 Law Implemented 403.021, 403.051, 403.061, 403.087, 403.088, 403.0881, 403.702,

17 403.704, 403.707, 403.708, FS.

18 History - New _____.

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Subsection 62-640.500 is revised to replace the AUP requirements with Nutrient Management Plan requirements.

62-640.500 Nutrient Management Plan (NMP) Agricultural Use Plan.

(1) An initial NMP shall be submitted to the Department when an agricultural site is registered.

New subsection 62-640.500(2) requires the NMP to be prepared by a certified NRCS nutrient planner to ensure proper preparation.

(2) The NMP shall be developed, or revised as necessary, in accordance with Rules 62-640.210(1)(l) and (m), F.A.C., by a person who has been certified by the Natural Resources Conservation Service (NRCS) to prepare Nutrient Management Plans. In cases where requirements of this chapter are more stringent than 62-640.210(1)(l) and (m), F.A.C., the requirements of this chapter shall be met.

(3) The NMP shall identify each application zone to be used at the site as identified in the Biosolids Application Site Registration Form 62-640.210(2)(d). Application zones shall be sized to facilitate accurate accounting of nutrient and pollutant loadings and shall be in accordance with Rule 62-640.700, F.A.C.

New subsection 62-640.500(4) requires:

- the NMP to cover all sources of inputs;
- use of the most limiting nutrient or the use of IFAS or NRCS standards;
- consideration for relative nutrient availability; and,
- accounting for crop nutrient demand, soil tests, and crop yields.

(4) The NMP shall provide specific rates of application of biosolids and all nutrients (e.g. commercial fertilizer, manure, litter, waste bedding, crop residues, legume credits, irrigation water, other solids, and process wastewater) for all application zones at the site to protect water quality. The NMP specified application rates shall be based on the standards adopted by the NRCS for determining rates and the timing of

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1 land application of biosolids. The field risk assessment “Florida Phosphorus Index”
 2 identified in Rule 62-640.210(1)(m), F.A.C., shall be used for each application zone at
 3 the site and included in the NMP. The NMP shall include all sources of nutrient inputs
 4 for the site, the availability of the nutrients in the biosolids being applied, nitrogen from
 5 previous biosolids applications and how this will be addressed each year, the soil type,
 6 the soil nutrients as determined by a soil fertility test conducted in accordance with Rule
 7 62-640.650(3)(b)1., F.A.C., the agronomic nutrient demand of the crops grown at the
 8 site, the calcium carbonate equivalency of the biosolids and recommended lime
 9 application rates for the site, and realistic crop yields.

New subsection 62-640.500(5) requires that other biosolids-related activities be addressed in the NMP including storage, application, calcium carbonate equivalency, record keeping, personnel, etc.

10 (5) The NMP shall include site-specific best management practices (BMPs) to
 11 address all relevant operation and maintenance activities. The NMP shall contain, at a
 12 minimum, design details and operational procedures for:

13 (a) Biosolids handling, storage, and management at the land application site;

14 (b) On-site land application of all nutrients and organic by-products, including

15 other solids;

16 (c) Land treatment practices;

17 (d) Record keeping; and

18 (e) Specific personnel, including the site manager, that will be responsible for

19 implementation of the NMP.

New subsection 62-640.500(6) addresses the actual calculation of application rates including EPA calculations and incorporation of concepts from the Department’s prior nitrogen memo.

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1 (6) When considering the availability of nutrients in biosolids, the following
2 shall be accepted by the Department:

3 (a) The nitrogen calculation methods found in Chapter 7 of the U.S.
4 Environmental Protection Agency Process Design Manual for Land Application of
5 Sewage Sludge and Domestic Septage which is hereby incorporated by reference. All
6 calculations and values used in the calculations shall be fully documented and
7 submitted with the NMP; or

8 (b) In lieu of using the full calculation method for nitrogen in Chapter 7 of the
9 U.S. Environmental Protection Agency Design Manual for Land Application of Sewage
10 Sludge and Domestic Septage, once the amount of plant available nitrogen to be
11 supplied by biosolids has been determined (i.e. the crop nitrogen demand has been
12 adjusted to take other sources of nitrogen into account), this amount may be multiplied
13 by a factor of 1.5 (i.e. a 50 percent increase) to determine the total amount of nitrogen
14 that may be supplied by biosolids; and

15 (c) A default value of 50 percent for the availability of phosphorus in biosolids.

New subsection 62-640.500(7) includes the basic language and structure of the former phosphorus provisions but simplifies the requirements.

16 (7) For application sites located in geographic areas that have been identified
17 by statute or rule of the Department as being subject to restrictions on phosphorus
18 loadings (such as the Everglades Protection Area as set forth in Section 373.4592, F.S.,
19 Lake Apopka as set forth in Section 373.461, F.S., Lake Okeechobee as set forth in

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1 Section 373.4595, F.S., and the Green Swamp Area as set forth in Section 380.0551,

2 F.S.), the NMP shall:

3 (a) base application rates on the phosphorus needs of the crop; and

4 (b) address measures that will be used to minimize or prevent water quality
5 impacts that could result from biosolids application areas to surface waters.

6 (8) The site manager shall review the NMP annually and document that the
7 plan has been reviewed in the application site records.~~(1) — An Agricultural Use Plan,~~
8 ~~submitted on Department Form 62-640.210(2)(a), shall be included in all applications for~~
9 ~~wastewater permits for all facilities, including residuals management facilities and~~
10 ~~septage management facilities, which use one or more residuals application sites,~~
11 ~~except as provided in Rule 62-640.500(7), F.A.C. or Rule 62-640.880(3)(b), F.A.C.~~

12 ~~(2) — The Agricultural Use Plan shall describe how the use of residuals meets~~
13 ~~the general site requirements of Rule 62-640.700(2), F.A.C.~~

14 ~~(3) — The plan shall establish the location of each application zone at the site.~~
15 ~~Application zones will be sized to facilitate accurate accounting of nutrient and pollutant~~
16 ~~loading.~~

17 ~~(4) — The plan shall consider the nutrient content of all residuals, reclaimed~~
18 ~~water, and all other sources of nitrogen such as commercial fertilizers applied to the~~
19 ~~site, and the agricultural needs of crops grown on the site. For application sites located~~
20 ~~in geographic areas that have been identified by statute or rule of the Department as~~
21 ~~being subject to restrictions on phosphorus loadings (such as the Everglades Protection~~

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1 ~~Area as set forth in section 373.4592, F.S., Lake Okeechobee as set forth in section~~
2 ~~373.4595, F.S., and the Green Swamp Area as set forth in section 380.0551, F.S.), the~~
3 ~~plan shall also address the potential for phosphorus movement from the site by~~
4 ~~considering:~~

5 ~~(a) — the characterization of soil phosphorus as determined by site-specific soil~~
6 ~~testing. Soil testing shall be performed on samples that are representative of the~~
7 ~~area(s) to which residuals are to be land applied. The plan shall include results of initial~~
8 ~~soil testing performed before the first application of residuals to a land application site.~~
9 ~~The plan shall also describe how soil testing will be accomplished after the completion~~
10 ~~of each crop cycle or growing season but before residuals are applied for the next crop~~
11 ~~cycle or growing season;~~

12 ~~(b) — how the phosphorus content of all sources of phosphorus applied to the~~
13 ~~site will be accounted for in establishing residuals application rates at the site;~~

14 ~~(c) — the agricultural phosphorus needs of crops grown at the site;~~

15 ~~(d) — the measures that will be used to minimize or prevent water quality~~
16 ~~impacts that could result from sediment transport from residuals application areas to~~
17 ~~surface waters. Such measures may include controlled application rates, berms,~~
18 ~~terraces, vegetated buffers, retention ponds, application methods, or water quality~~
19 ~~monitoring; and~~

20 ~~(e) — the capacity of the soil to hold phosphorus.~~

1 ~~(5) Documentation of the slope determination procedure used for the site,~~
 2 ~~under Rule 62-640.700(7)(b), F.A.C., shall be attached to the plan.~~

3 ~~(6) The Agricultural Use Plan shall be submitted on Department Form 62-~~
 4 ~~640.210(2)(a), as a part of the application for a wastewater permit for the facility~~
 5 ~~generating the residuals, except as provided in Rule 62-640.880(3), F.A.C.~~

6 ~~(7) Residuals which qualify as Class AA quality in accordance with Rule 62-640.850,~~
 7 ~~F.A.C., are exempt from the requirements of this section and may be used under the~~
 8 ~~provisions of Rule 62-640.850, F.A.C.~~

9 Specific Authority 403.051, 403.061, 403.062, 403.087, 403.088, 403.704, 403.707,
 10 FS.

11 Law Implemented 403.021, 403.051, 403.061, 403.087, 403.088, 403.0881, 403.702,
 12 403.704, 403.707, 403.708, FS.

13 History - New 08-12-90, Formerly 17-640.500, Amended 3-30-98, Amended _____.

14
 15 Subsection 62-640.600 has been revised to remove "Site Restrictions" (moved to .700) and to require a
 designed treatment process.

16 **62-640.600 Pathogen Reduction and, Vector Attraction Reduction, and**
Site Use Restrictions.

17 All biosolids residuals applied to land or distributed and marketed shall be treated with a
 18 treatment process designed to reduce pathogens and achieve vector attraction
 19 reduction in accordance with the requirements of this section. ~~All land application sites~~
 20 ~~shall conform to the site use restrictions of this section.~~ The Department incorporates

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1 by reference the pathogen and vector attraction reduction requirements of ~~Title 40 CFR~~
 2 ~~Code of Federal Regulations (CFR) Part 503, subpart D, sections~~ 503.32 and 503.33,
 3 revised as of October 25, 1995, except for the site restrictions in 40 CFR section
 4 503.32(b)(5), the septage requirements in 40 CFR section ~~503.32(c)~~, and the vector
 5 attraction reduction requirements in 40 CFR section ~~503.33(b)(11)~~ and ~~section~~
 6 ~~503.33(b)(12)~~.

Subsection 62-640.600(1) has been revised to remove the text after "Pathogen Reduction Requirements" to avoid potential confusion.

7 (1) Pathogen Reduction Requirements. ~~All residuals applied to the land shall~~
 8 ~~be classified as either Class A or Class B with respect to pathogens.~~

Subsection 62-640.600(1)(a) is added to clarify acceptable pathogen treatment options.

9 (a) Class A Biosolids. Class A biosolids shall meet one of the pathogen
 10 reduction requirements described in 40 CFR 503.32(a)(3) - (8).

New subsection 62-640.600(1)(a)1. sets criteria to be met prior to shifting to monitoring operational parameters in lieu of microbial monitoring.

11 1. For treatment processes permitted under 40 CFR 503.32(a)(5), a
 12 permittee shall not implement the provisions of 40 CFR 503.32(a)(5)(ii)(D) and
 13 503.32(a)(5)(iii)(D) until:

14 a. The permittee demonstrates to the Department, based on monitoring data
 15 from the facility, that meeting the documented pathogen treatment process operating
 16 parameters will reliably and consistently reduce enteric viruses and viable helminth ova
 17 below the limits specified in 40 CFR 503.32(a)(5); and

18 b. The permit specifically allows the implementation of 40 CFR
 19 503.32(a)(5)(ii)(D) and 503.32(a)(5)(iii)(D).

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New subsection 62-640.600(1)(a)2. requires processes that are essentially pasteurization with quicklime to address concerns in Chapter 7 of the White House manual.

1 2. Treatment processes equivalent to pasteurization with quicklime permitted
 2 under 40 CFR 503.32(a)(3) or (7) shall follow the technical guidance in Chapter 7 of
 3 Rule 62-640.210(1)(g), F.A.C, which is hereby incorporated by reference.

4 ~~(a) Class A Residuals. Residuals will be classified as Class A if one of the~~
 5 ~~pathogen reduction requirements described in section 503.32(a), is met.~~

Subsection 62-640.600(1)(b) adds a requirement that the permittee demonstrate a 2 log reduction in addition to meeting the fecal limit when using the fecal monitoring-only option for Class B.

6 (b) Class B Biosolids. Class B biosolids shall meet one of the pathogen
 7 reduction requirements described in 40 CFR 503.32(b). If the monitoring option under
 8 40 CFR 503.32(b)(2) is used, the permittee shall demonstrate a two-log reduction in the
 9 density of fecal coliform bacteria between the raw wastewater influent solids and the
 10 final treated biosolids.

11 ~~(b) Class B Residuals. Residuals will be classified as Class B if one of the~~
 12 ~~pathogen reduction requirements described in section 503.32(b)(2) or (3), is met.~~

Subsection 62-640.600(1)(c) is revised to clarify that septage regulated by the Department is managed as Class B biosolids.

13 (c) Lime Addition to Septage. Septage management facilities that are
 14 regulated by the Department, and that do not treat any amount of biosolidsresiduals,
 15 shall satisfy Class B pathogen reduction requirements if sufficient lime is added to
 16 produce a pH of 12 for a minimum of 2 hours, or a pH of 12.5 for a minimum of 30
 17 minutes. Processes and design shall be in accordance with the guidance for lime
 18 stabilization of septage in Chapter 6, Process Design Manual for Sludge Treatment and

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1 Disposal, which the Department adopts and incorporates by reference. The pH shall be
 2 maintained at or above 11 until ~~the septage is land application, applied,~~ but shall be less
 3 than 12.5 at the time of land application. Materials treated in accordance with this
 4 provision shall be managed as Class B biosolids.

5 (2) Vector Attraction Reduction Requirements.

6 (a) All biosolids residuals applied to land application sites shall meet one of
 7 the vector attraction reduction requirements in 40 CFR section 503.33(b)(1) through
 8 (10), except section 503.33(b)(11) and section 503.33(b)(12).

New subsection 62-640.600(2)(b) clarifies that biosolids that are distributed and marketed are limited to VAR options 1-8.

9 (b) All biosolids distributed and marketed shall meet one of the vector
 10 attraction requirements in 40 CFR 503.33(b)(1) through (8).

11 ~~(c)(b) Lime Addition to Septage.~~ Septage management facilities that are
 12 regulated by the Department, and that do not treat any amount of biosolids residuals,
 13 shall satisfy vector attraction reduction requirements if the Class B pathogen reduction
 14 requirements of Rule 62-640.600(1)(c), F.A.C., are met.

Subsection 62-640.600(3) has been deleted. Class B application site restrictions have been moved to subsection 62-640.700.

15 ~~(3) Site Use Restrictions.~~

16 ~~(b) Class B residuals shall not be used on unrestricted public access areas such as~~
 17 ~~playgrounds, parks, golf courses, lawns, and hospital grounds. Use of Class B~~
 18 ~~residuals is limited to restricted public access areas such as agricultural sites, forests,~~
 19 ~~and roadway shoulders and medians. The public shall be restricted from the application~~

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- 1 ~~zone for 12 months after the last application of residuals. The following restrictions also~~
2 ~~apply to the use of Class B residuals:~~
- 3 ~~1. Plant nursery use of Class B residuals is limited to plants which will not be sold to~~
4 ~~the public for 12 months after the last application of residuals.~~
 - 5 ~~2. Use of Class B residuals on roadway shoulders and medians is limited to~~
6 ~~restricted public access roads.~~
 - 7 ~~3. Food crops with harvested parts that touch the residuals/soil mixture and are~~
8 ~~totally above the land surface shall not be harvested for 14 months after the last~~
9 ~~application of Class B residuals.~~
10 ~~4. Food crops with harvested parts below the~~
11 ~~surface of the land shall not be harvested for 20 months after application of Class B~~
12 ~~residuals when the residuals remain on the land surface for four months or longer~~
13 ~~before incorporation into the soil.~~
 - 14 ~~5. Food crops with harvested parts below the surface of the land shall not be~~
15 ~~harvested for 38 months after application of Class B residuals when the residuals~~
16 ~~remain on the land surface for less than four months before incorporation into the soil.~~
 - 17 ~~6. Food crops, feed crops, and fiber crops shall not be harvested for 30 days~~
18 ~~following the last application of Class B residuals.~~
 - 19 ~~7. Animals shall not be grazed on the land for 30 days after application of Class B~~
~~residuals.~~

1 ~~8. Sod which will be distributed or sold to the public or used on unrestricted public~~
 2 ~~access areas shall not be harvested for 12 months after the last application of Class B~~
 3 ~~residuals.~~

4 ~~9. The minimum setback distance specified in Rule 62-640.700(4)(d), F.A.C., shall~~
 5 ~~be provided between a land application area where Class B residuals are applied, and a~~
 6 ~~building occupied by the general public.~~ Specific Authority 403.051, 403.061, 403.062,
 7 403.087, 403.088, 403.704, 403.707, FS.

8 Law Implemented 403.021, 403.051, 403.061, 403.087, 403.088, 403.0881, 403.702,
 9 403.704, 403.707, 403.708, FS.

10 History - New 8-21-90, Formerly 17-640.600, Amended 3-30-98, Amended.

12 **62-640.650 Monitoring, Record Keeping, Reporting, and Notification.**

The introduction portion of subsection 62-640.650 has been revised into two subsections which address changes to monitoring requirements.

13 (1) The minimum requirements in this chapter for monitoring, record keeping
 14 or reporting by a facility may be increased or reduced by the Secretary or the
 15 Secretary's designee depending upon site-specific requirements, including the quality or
 16 quantity of wastewater or biosolids residuals treated; historical variations in biosolids
 17 residuals characteristics; the types of crops grown on the application site; industrial
 18 contributions to the facility; the use, land application, or disposal of biosolids; the water
 19 quality of surface and groundwater and the hydrogeology of the area; wastewater or

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1 biosolids treatment processes; ~~the level of treatment of residuals~~, and the compliance
 2 history of the facility or application site.

3 (2) An increase or reduction in a facility's monitoring or reporting requirements
 4 will require a minor permit revision under Rule 62-620.325, F.A.C. Revisions to
 5 ~~decrease increase or reduce~~ permit requirements for monitoring or reporting shall be
 6 subject the public notice requirements of Rule 62-620.325(2), F.A.C.

7 ~~(3)(4)~~ Monitoring Requirements.

8 (a) Biosolids Monitoring.

9 Subsection 62-640.650(1)(a) is renumbered.

9 ~~1.(a) Biosolids Residuals~~ sampling and analysis to monitor for the pathogen
 10 and vector attraction reduction requirements of Rule 62-640.600, F.A.C., and the
 11 parameters in Rule 62-640.650 ~~(3)(a)3.(4)(b)~~, F.A.C., shall be conducted by the facility in
 12 accordance with ~~Title 40 CFR Code of Federal Regulations (CFR) Part 503, section~~
 13 503.8, and the POTW Sludge Sampling and Analysis Guidance Document, which the
 14 Department adopts and incorporates by reference. In cases where disagreements exist
 15 between ~~Title 40 CFR Part 503, section 503.8~~ and the POTW Sludge Sampling and
 16 Analysis Guidance Document, the requirements in ~~Title 40 CFR Part 503, section 503.8~~
 17 will apply.

New subsection 62-640.650(3)(a)2. adds:

- a requirement for facilities to identify all treatment process parameters to be monitored; and,
- a requirement for continual monitoring of the identified process parameters.

18 2. Permit applications for all facilities that land apply or distribute and market
 19 biosolids shall identify the monitoring that will be conducted for all microbial and all

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1 operational and process parameters necessary to demonstrate compliance with the
 2 pathogen reduction and vector attraction reduction requirements of Rule 62-640.600,
 3 F.A.C.

New subsection 62-640.650(3)(a)2.a. requires continual monitoring of process parameters.

4 a. All operational and process parameters, such as time and temperature,
 5 number of windrow turnings, pH readings, etc., shall be monitored on a continual basis
 6 as applicable to the treatment process to demonstrate compliance with Rule 62-
 7 640.600, F.A.C.;

New subsection 62-640.650(3)(a)2. b. adds the requirement for monitoring fecal coliform in the raw or feed biosolids for certain Class B treatment options.

8 b. If the Class B biosolids monitoring option under 40 CFR 503.32(b)(2) is
 9 used, the permittee shall, in addition to the collection of seven representative samples
 10 of the biosolids used or disposed of, collect seven representative samples of the raw
 11 influent solids and determine the geometric mean of the density of fecal coliform in the
 12 samples in accordance with Rule 62-640.600(1)(b), F.A.C.

Subsection 62-640.650(1)(b) is renumbered and revised to include “calcium carbonate equivalent” to the list of monitored parameters (but only for alkaline-treated biosolids). The comment on additional monitoring is removed since this is addressed in the opening of .650.

13 3.(b) All facilities that land apply or distribute and market biosolids shall analyze
 14 biosolids residuals for the following parameters, except as provided in Rule 62-
 15 640.880(5)(a), F.A.C.:

16
 17 Total Nitrogen % dry weight basis
 18 Total Phosphorus % dry weight basis

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1	Total Potassium	% dry weight basis
2	Arsenic	mg/kg dry weight basis
3	Cadmium	mg/kg dry weight basis
4	Copper	mg/kg dry weight basis
5	Lead	mg/kg dry weight basis
6	Mercury	mg/kg dry weight basis
7	Molybdenum	mg/kg dry weight basis
8	Nickel	mg/kg dry weight basis
9	Selenium	mg/kg dry weight basis
10	Zinc	mg/kg dry weight basis
11	pH	standard units
12	Total Solids	%
13	<u>Calcium Carbonate Equivalent*</u>	<u>% dry weight basis</u>

14 * Only required for alkaline treated biosolids

15 ~~Analysis of additional parameters may be required by the Department, based on~~
 16 ~~changes in the quality of the wastewater or residuals as a result of new discharges to~~
 17 ~~the treatment plant, changes in wastewater treatment processes or process efficiency,~~
 18 ~~changes in the treatment, use, land application, or disposal of the residuals, the~~
 19 ~~presence of toxic substances in the residuals, the water quality of surface and ground~~
 20 ~~waters, and hydrogeology of the area. Analysis of additional parameters will require a~~
 21 ~~minor permit revision under Rule 62-620.325, F.A.C.~~

Subsection 62-640.650(1)(c) is renumbered and revised to:

- delete the requirements for pathogen and vector attraction reduction monitoring (these are now covered in new subsections);
- require biosolids management facilities to monitor monthly; and,
- increase the monitoring frequency for each quantity category of biosolids with the highest frequency being monthly.

1 ~~4.(c)~~ The required frequency of monitoring for the pathogen and vector
 2 attraction reduction requirements of Rule 62-640.600, F.A.C., and Microbial monitoring
 3 parameters and the parameters listed in Rule 62-640.650(3)(a)3., F.A.C., (1)(b), F.A.C.,
 4 shall be monitored as follows:

5 a. _____ specified in each facility's permit. For biosolids residuals that are
 6 distributed and marketed under the provisions of Rule 62-640.850, F.A.C., the minimum
 7 frequency of monitoring shall be once per month.

8 b. _____ For biosolids treated at biosolids management facilities, the minimum
 9 frequency of monitoring shall be once per month.

10 c. _____ For all other biosolids residuals, the minimum frequency of monitoring shall
 11 be in accordance with the following table:

<u>Biosolids Residuals Generated*</u>	<u>Monitoring Frequency</u>
<u>(dry tons per year)</u>	
Greater than zero but less than 320.	Once per <u>quarter year</u> .

1 Equal to or greater than Once per 60 days~~quarter~~.
 2 320 but less
 3 than 1,653.

4 Equal to or greater than Once per month~~60 days~~.
 5 1,653 ~~but less~~
 6 ~~than 16,535~~.

7 ~~Equal to or greater than~~ ~~Once per month~~.
 8 ~~16,535~~.

9 *The amount of biosolids residuals generated shall be based on the permitted
 10 capacity of the facility.

New subsection 62-640.650(3)(a)5 requires Class AA biosolids to be resampled for fecal coliform or salmonella sp. if the biosolids are not distributed or marketed within 45 days of treatment. This sampling shall take place within 45 days of the actual distribution and marketing date.

11 5. For Class AA biosolids not distributed and marketed or bagged within 45
 12 days after being treated, the facility permittee shall conduct additional representative
 13 sampling of either fecal coliform or salmonella sp. The sampling and analysis shall be
 14 conducted within 45 days prior to distributing and marketing the biosolids, and the
 15 biosolids shall meet a limit of 1000 MPN of fecal coliform per gram of total solids on a
 16 dry weight basis, or 3 MPN of salmonella sp. per 4 grams of total solids on a dry weight
 17 basis in accordance with 40 CFR 503.32(a).

Current subsection 62-640.650(1)(d) is renumbered and revised to change “number of samples” to “sampling frequency.”

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1 ~~6.(d)~~ Sampling locations, sampling frequency~~number of samples~~, and
 2 monitoring parameters shall be specified in the facility's permit. All biosolids residuals
 3 samples shall be representative of the biosolids residuals used, land applied, or
 4 distributed and marketed, and shall be taken after final treatment of the biosolids
 5 residuals but before use, land application, or distribution and marketing.

Subsection 62-640.650(1)(c) is renumbered and revised to require a composite sample for nutrients.

6 ~~7.(e)~~ Grab samples shall be used to monitor for pathogens and determine
 7 determinations of percent volatile solids. Composite samples shall be used to monitor
 8 for metals and nutrients.

Subsection 62-640.650(1)(f) is renumbered and revised to move land application and distribution and marketing restrictions to more appropriate sections (i.e. .700 and .850).

9 ~~8.(f)~~ Residuals shall not be land applied if a single sample result for any
 10 parameter exceeds the ceiling concentrations specified in
 11 Rule 62-640.700(1), F.A.C. Residuals shall not be distributed and marketed under the
 12 provisions of Rule 62-640.850, F.A.C. if the monthly average of sample results for any
 13 parameter exceeds one or more of the parameter concentrations in Rule 62-
 14 640.850(3)(a), F.A.C. Monthly averages of parameter concentrations shall be
 15 determined by taking the arithmetic mean of all sample results for the month.

New subsection 62-640.650(3)(b) adds soil fertility testing and initial soil pollutant sampling for land application sites.

16 (b) Soil Monitoring.

17 1. The site manager shall ensure soil fertility testing is conducted at least
 18 annually or prior to the next crop cycle or growing season for each application zone at
 19 each registered application site. Soil testing shall follow the guidelines in Rules 62-

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1 640.210(1)(o) and (p), F.A.C. Results of soil fertility tests shall be included in the
 2 application site records.

3 2. Representative soil monitoring for parameters in Rule 62-640.700(5),
 4 F.A.C., shall be conducted at application sites for each application zone prior to
 5 application site registration. At a minimum, one soil sample shall be taken for each
 6 application zone or for every fifty acres of application area, whichever is smaller. Each
 7 sample shall be a composite of at least ten random samples to a depth of 6 inches and
 8 shall be completely mixed to form a minimum one-pound sample. Sampling and
 9 analysis shall be in accordance with 40 CFR 503.8(4). Results of initial soil monitoring
 10 shall be reported on the Biosolids Application Site Registration Form 62-640.210(2)(d).

11 ~~(g) If soil testing is performed at a residuals land application site under~~
 12 ~~Rule 62-640.500(4)(a), F.A.C., such testing will be performed as specified in the~~
 13 ~~approved Agricultural Use Plan for the site.~~

New subsection 62-640.650(3)(c) adds ground water monitoring for registered application sites under certain conditions.

14 (c) Ground Water Monitoring.

15 1. A ground water monitoring program shall be established by the site
 16 registrant, and approved by the Department for land application sites under the
 17 following circumstances:

18 a. The application rate in the NMP exceeds more than 400 lbs/acre/year of
 19 plant available nitrogen; or

1 b. The land application site has compliance problems. For purposes of this
2 rule, compliance problems means a facility or application site has an active consent
3 order or enforcement action pending associated with biosolids quality, application rates,
4 storage, or application site requirements.

5 2. The ground water monitoring program shall be established in accordance
6 with Rule 62-522.600, F.A.C.

7 3. Where biosolids are applied to a n application site with multiple application
8 zones, one or more of the zones (representative of each zone's hydrogeological
9 characteristics, soil characteristics, vegetative cover, biosolids application method,
10 characteristics of the biosolids to be applied, etc.) shall be selected by the site registrant
11 and approved by the Department as the model zone(s) for monitoring of the ground
12 water.

13 4. Ground water sampling parameters for monitoring background and
14 receiving water quality shall be established based on the quality of biosolids to be land
15 applied, application site specific soil and hydrogeologic characteristics, and other
16 considerations, in accordance with Rule 62-522.600, F.A.C.

17 a. Each groundwater monitoring well shall be sampled for fecal coliform,
18 nitrate, pH, total phosphorous, and the metals listed in Rule 62-640.650(3)(a)3., F.A.C.,
19 quarterly.

1 b. Water levels shall be recorded before evacuating wells for sample
 2 collection. Elevation references shall include the top of the well casing and land surface
 3 at each well site (NGVD allowable) at a precision of plus or minus 0.1 foot.

New subsection 62-640.650(3)(d) adds surface water monitoring when the application site is within 1000 feet of waters of the state.

4 (d) Surface Water Monitoring

5 1. The site manager shall ensure surface water monitoring for total
 6 phosphorus, total nitrogen, and fecal coliform bacteria is conducted for all application
 7 sites when an application zone is bordered or crossed by waters of the state and
 8 located within 1000 feet of waters of the state, excluding wetlands.

9 2. If the receiving water is a stream or canal, the surface water monitoring
 10 shall be conducted on a quarterly basis at points 500 feet upstream and 500 feet
 11 downstream from where runoff from the application site enters state waters. If the
 12 receiving water is a lake, estuary, or coastal water, the surface water monitoring shall
 13 be conducted on a quarterly basis 500 feet downstream from where runoff enters the
 14 water body and at an approved background monitoring point.

Subsection 62-640.650(1)(f) is renumbered and revised to:

- refer to Rule 62-620.610(18), F.A.C., for consistency on requiring a certified lab; and,
- provide certain requirements for sample collection.

15 (e)(~~f~~) Any laboratory tests required by this chapter shall be performed by a
 16 laboratory certified in accordance with Rule 62-620.610(18)(d), F.A.C. by a laboratory
 17 certified by the Department of Health under Chapter 64E-1, F.A.C., to perform the test.
 18 Sample collection required by this chapter shall be performed in accordance with Rule
 19 62-620.610(18)(e), F.A.C. The Specific Oxygen Uptake Rate (SOUR) test, as required

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1 by 40 CFR 503.33(b)(4) shall be conducted within 15 minutes of sample collection and
 2 shall be performed by a certified laboratory or under the direction of an operator certified
 3 in accordance with Chapter 62-602, F.A.C.

4 (4)(2) Record Keeping Requirements.

New subsection 62-640.650(4)(a) clarifies that records shall be kept on all quantities of biosolids managed by a facility.

5 (a) Facility permittees shall keep records of the quantities of biosolids
 6 generated, received from source facilities, treated, landfilled, incinerated, transferred to
 7 another facility, land applied, or distributed and marketed. These records shall be kept
 8 for a minimum of three years.

New subsection 62-640.650(4)(b) clarifies that all biosolids monitoring records shall be kept for at least five years.

9 (b) Facility permittees shall keep records of all biosolids monitoring required
 10 by Rule 62-640.650(3)(a), F.A.C., for a minimum of five years.

New subsection 62-640.650(4)(c) requires Biosolids Application Site Annual Summaries to be maintained for three years.

11 (c) Facility permittees shall retain the Biosolids Application Site Annual
 12 Summaries received in accordance with Rule 62-640.650(5)(e), F.A.C., for a minimum
 13 of three years.

New subsections 62-640.650(4)(d)-(i) require facilities and application sites to maintain hauling records.

14 (d) Facility permittees that land apply Class A or B biosolids and site
 15 managers receiving biosolids shall maintain hauling records to track the transport of
 16 biosolids between the facility and the application site. The hauling records for each
 17 party shall contain the following information:
 18

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1	<u>Facility</u>	<u>Site Manager</u>
2	<u>1. Date and Time Shipped and</u>	<u>1. Date and Time Received and</u>
3	<u>Shipment ID</u>	<u>Shipment ID</u>
4	<u>2. Amount of Biosolids</u>	<u>2. Name and ID Number of Facility</u>
5	<u>Shipped</u>	<u>from which Biosolids are Received</u>
6	<u>3. Concentration of</u>	<u>3. Signature of Hauler</u>
7	<u>Parameters in Rule 62-640.</u>	<u>4. Signature of Site Manager</u>
8	<u>650(3)(a)3., F.A.C., and the</u>	<u>at the Application Site or Designee</u>
9	<u>Date of Analysis</u>	
10	<u>4. Method of Treatment</u>	
11	<u>5. Name and ID Number of</u>	
12	<u>Application Site where Biosolids</u>	
13	<u>are Shipped</u>	
14	<u>6. Signature of Certified</u>	
15	<u>Operator at the Facility or Designee</u>	
16	<u>7. Signature of Hauler</u>	
17	<u>and Name of Hauling Firm</u>	
18	<u>(e) The hauling records shall be kept by both the facility permittee and the site</u>	
19	<u>manager for five years and shall be made available for inspection upon request by the</u>	
20	<u>Department.</u>	

1 (f) A copy of the facility hauling records required by Rule 62-640.650(4)(d),
 2 F.A.C., shall be provided upon delivery of the biosolids to the site manager.

3 (g) The site manager shall provide a receipt for each shipment of biosolids
 4 received to the facility within seven calendar days of delivery of the biosolids. The
 5 receipt shall include information required to be maintained by the site manager in
 6 accordance with Rule 62-640.650(4)(d).

7 (h) The facility shall maintain each receipt required by Rule 62-640.650(4)(g),
 8 F.A.C., for five years.

9 (i) The facility permittee shall report to the appropriate District Office of the
 10 Department within 24 hours of discovery of any discrepancy in delivery of biosolids
 11 leaving the facility and arriving at the application site.

12 ~~Subsection 62-640.650(2)(a) is deleted as the application site will be tracking land application.~~

13 ~~—— (a) Records of application zones and application rates must be maintained by~~
 14 ~~the permittee and must be available for inspection within seven days of request by the~~
 15 ~~Department, or the Delegated Local Program, except as provided in Rule 62-~~
 16 ~~640.650(2)(b), F.A.C. Information reported in the Annual Summary shall reflect the~~
 17 ~~application zones identified in the approved Agricultural Use Plan.~~

18 ~~—— The permittee must maintain the records in Rule 62-640.650(4)(d)(2)(a)1. through~~
 19 ~~5., F.A.C., in perpetuity, and maintain the records in Rule 62-640.650(4)(d)(2)(a)6. and~~
 20 ~~7. through 11., F.A.C., for five years:~~

21 ~~—— 1. Date of application of the residuals;~~

~~—— 2. Location of the application site as specified on Form 62-640.210(2)(a);~~

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- 1 ~~3. Identification of each application zone used by the permittee at the~~
 2 ~~application site and the acreage of each zone;~~
- 3 ~~4. Amount of residuals applied or delivered to each application zone;~~
- 4 ~~5. Cumulative loading for each application zone, in accordance with~~
 5 ~~Rule 62-640.700(3), F.A.C.;~~
- 6 ~~6. The names of all other wastewater facilities using each of the application~~
 7 ~~zones identified in Rule 62-640.650(2)(a)3., F.A.C.;~~
- 8 ~~7. Method of incorporation of residuals (if any);~~
- 9 ~~8. Measured pH of the residuals soil mixture at the time the residuals are~~
 10 ~~applied, tested at least annually as required by Rule 62-640.700(5), F.A.C.;~~
- 11 ~~9. Unsaturated depth of soil above the water table level at the time of~~
 12 ~~application, as determined in accordance with Rule 62-640.700(6)(a), F.A.C.;~~
- 13 ~~10. Concentration of parameters in the residuals as required by Rule 62-~~
 14 ~~640.650(1)(b), F.A.C., and date of last analysis; and~~
- 15 ~~11. The results of any soil testing that is done under Rule 62-640.500(4)(a),~~
 16 ~~F.A.C.~~

New subsection 62-640.650(4)(j) requires the application site records to be maintained by the site manager.

- 17 (j) Logs and records detailing biosolids applications to each application zone
 18 at an application site shall be maintained by the site manager indefinitely and shall be
 19 available for inspection within seven days of request by the Department or the
 20 Delegated Local Program. At a minimum, the logs and records for the most recent

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1 three months of application shall be available for inspection at the land application site.

2 The logs and records shall include:

3 1. A copy of the approved NMP and annual NMP reviews in accordance with
 4 Rule 62-640.500, F.A.C.;

5 2. The cumulative loading for each zone in accordance with Rule 62-
 6 640.700(7), F.A.C.;

7 3. For each application zone, maintain Biosolids Site Log, Form 62-
 8 640.210(2)(e), F.A.C.; and

9 4. The results of all soil monitoring, ground water monitoring, and surface
 10 water monitoring conducted in accordance with Rules 62-640.650(3)(b) through (d),
 11 F.A.C.

12 ~~(b) — Distribution and marketing of Class AA residuals is exempt from the~~
 13 ~~record keeping requirements of this subsection. —~~

14 ~~(5)(3) Reporting Requirements.~~

Current subsection 62-640.650(3)(a) is renumbered and revised to require facilities to report quantities and monitoring results on the DMR.

15 (a) Facility permittees shall report the following information on the facility's
 16 monthly Discharge Monitoring Report required by Rule 62-620.610(18), F.A.C.,

17 1. The total quantities of biosolids received from source facilities, landfilled,
 18 incinerated, transferred to another facility, land applied, or distributed and marketed for
 19 the reporting period.

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1 2.(a) The results of all monitoring conducted ~~by permitted facilities~~ under Rule
 2 62-640.650(3)(a)3.(1), F.A.C., ~~shall be submitted to the Department with the facility's~~
 3 ~~Discharge Monitoring Report under Chapter 62-601, F.A.C., or Residuals Monitoring~~
 4 ~~Report under Rule 62-640.650(3)(d), F.A.C., as applicable. The analytical results from~~
 5 ~~each sampling event shall be submitted with the report~~ for the month in which the
 6 sampling event occurs.

7 3. For facilities producing Class AA biosolids in Florida, the information
 8 required in Rule 62-640.850(5), F.A.C.

New subsection 62-640.650(5)(b) requires Class AA out-of-state facilities to report on a DMR.

9 (b) Distribution and Marketing Reporting. Any person who delivers Class AA
 10 biosolids to Florida shall submit a monthly Discharge Monitoring Report that includes
 11 the information required in Rule 62-640.850(5), F.A.C.

Current subsection 62-640.650(3)(b) is renumbered and revised to alter the annual reporting requirements by facilities (land application data will be submitted by the application site).

12 (c)(b) Facility Annual Summary. The permittee of the wastewater treatment
 13 plant producing Class A or B biosolids using an application site (or sites) shall submit a
 14 summary of the shipment records required by Rules 62-640.650(4)(d) and 62-
 15 640.880(4), F.A.C., as applicable, residuals application activity at the sites to the
 16 appropriate District Office of the Department, or to the delegated local program
 17 Program, on an annual basis. The summary must be submitted on Department Form
 18 62-640.210(2)(b). If more than one facility applies residuals to the same application
 19 zones, the summary must include a subtotal of each facility's contribution of residuals to
 20 the application zones. The summary shall include all biosolids shipped residuals

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1 ~~applied~~ during the period January 1 through December 31. The summary for each year
 2 shall be submitted to the Department by February 19 of the following year. ~~The~~
 3 ~~summary must include all of the following:~~

4 1. ~~The total amounts of residuals, nitrogen, phosphorus, potassium and~~
 5 ~~heavy metals applied to each application zone.~~

6 2. ~~The total quantity of other solids, if any, applied to each application zone~~
 7 ~~under the provisions of Rule 62-640.860, F.A.C.~~

8 3. ~~The total cumulative loading for the parameters specified in Rule 62-~~
 9 ~~640.700(3)(b), F.A.C., applied to each application zone. Cumulative loading shall be~~
 10 ~~determined as described in Rule 62-640.700(3), F.A.C., and shall be calculated for all~~
 11 ~~residuals applications at a site beginning with the earlier of:~~

12 a. ~~the date of the first application of residuals at the site subject to regulation~~
 13 ~~by Chapter 62-640, F.A.C., or;~~

14 b. ~~the date of the first application of residuals at the site subject to regulation~~
 15 ~~by Title 40 Code of Federal Regulations Part 503.~~

16 4. ~~A summary of hauling records information for residuals management~~
 17 ~~facilities, as described in Rule 62-640.880, F.A.C.~~

18 New subsections 62-640.650(5)(d) and (e) establish annual reporting requirements for application sites.

19 (d) Biosolids Application Site Annual Summary. The site manager shall
 20 submit a summary of land application activity to the appropriate District Office of the
 21 Department, or to the delegated local program, on an annual basis. The summary shall
be submitted on Department Form 62-640.210(2)(c). The summary for each year,

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1 covering the period from January 1 through December 31, shall be submitted to the
2 Department by February 19 of the following year. The summary shall include all of the
3 following, as applicable:

4 1. The total quantities of biosolids, other solids, nitrogen, phosphorus,
5 potassium, and heavy metals applied to each application zone identified in the site's
6 NMP.

7 2. The total cumulative loading for the parameters specified in Rule 62-
8 640.700(7)(b), F.A.C., applied to each application zone identified in the site's NMP.
9 Cumulative loading shall be determined as described in Rule 62-640.700(7), F.A.C.,
10 and shall be calculated for all biosolids applications at a site beginning with the earlier
11 of:

12 a. The date of the first application of biosolids at the site subject to regulation
13 by Chapter 62-640, F.A.C., or;

14 b. The date of the first application of biosolids at the application site subject
15 to regulation by 40 CFR 503.

16 3. A summary of the total quantities of biosolids applied by each facility using
17 the application site.

18 4. The results of ground water monitoring as required by Rule 62-
19 640.650(3)(c), F.A.C.

20 5. The results of surface water monitoring as required by Rule 62-
21 640.650(3)(d), F.A.C.

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1 6. A copy of any revised sections of the NMP made in accordance with Rule
 2 62-640.500, F.A.C.

3 (e) The site manager shall send copies of the Biosolids Application Site
 4 Annual Summary required by Rule 62-640.650(5)(d), F.A.C., to each facility permittee
 5 from which biosolids have been received at the time the Biosolids Application Site
 6 Annual Summary is submitted to the Department.

7 ~~Subsection 62-640.650(3)(c) is deleted as the relevant Class AA information will be submitted in a DMR .~~
 7 ~~(c) Distribution and Marketing Reports. Any facility which produces Class AA~~
 8 ~~residuals in Florida and any person who delivers Class AA residuals to Florida must~~
 9 ~~submit a Monthly Residuals Distribution and Marketing Report to the Department in~~
 10 ~~accordance with Rule 62-640.850(4), F.A.C.~~

11 ~~Subsection 62-640.650(3)(d) is deleted as the information will be reported on the DMR.~~
 11 ~~(d) Residuals Monitoring Reports. Residuals management facility and~~
 12 ~~septage management facility permittees who are not required to submit a Discharge~~
 13 ~~Monitoring Report shall report the results of monitoring performed under Rule 62-~~
 14 ~~640.650(1), F.A.C., to the Department in a Residuals Monitoring Report on Department~~
 15 ~~Form 62-640.210(2)(d). For residuals management facilities, the report shall include a~~
 16 ~~summary of all hauling records information that is maintained under Rule 62-640.880(4),~~
 17 ~~F.A.C., for the period of report. The report shall be due on the 28th day of the month~~
 18 ~~that follows the month in which the monitoring was performed.~~

18 ~~Subsection 62-640.650(3)(e) is deleted as this is not needed.~~

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1 ~~(e)~~ Copies of analytical laboratory reports must be submitted with all
 2 monitoring results that are reported to the Department.

3 ~~(6)(4)~~ Notification Requirements. Notifications required by
 4 Rules 62-640.650~~(6)(4)~~(a) ~~through (i), (b) and (c)~~, F.A.C., shall be provided orally to the
 5 appropriate District Office of the Department. A written submittal shall also be provided
 6 to the District Office within seven calendar days of the time when a person subject to
 7 this chapter the permittee becomes aware of the circumstances. The written submittal
 8 must include the time and date of the oral notification, and the name of the person to
 9 whom the oral notification was made.

10 (a) If an alternate application site is used under the provisions of Rule 62-
 11 640.300(3), F.A.C., the permittee using the alternate site must notify the Department
 12 within 24 hours of beginning biosolids residuals application at the alternate site.

New subsection 62-640.650(6)(b) adds the requirement for the facility permittee to provide a copy of the agreement with the biosolids management facility with the facility's permit application.

13 (b) If transferring biosolids, the permittee shall submit a copy of the written
 14 agreement with the biosolids management facility required by Rule 62-640.880(1)(c),
 15 F.A.C., with the wastewater permit facility application.

16 ~~(c)(b)~~ Surface or ground water quality violations that are discovered as a result
 17 of testing required by Rule 62-640.650(3)(c) or (d) as described in Rule 62-
 18 640.700(2)(b), F.A.C., shall be reported to the Department within 24 hours of discovery.

19 ~~(d)(e)~~ Any discrepancy that occurs in the inventory of biosolids residuals leaving
 20 a wastewater treatment facility and arriving at a biosolids residuals management facility

1 | must be reported to the Department and to the source facility by the ~~biosolids residuals~~
 2 | management facility permittee within 24 hours of discovery under Rule 62-
 3 | 640.880(4)(c), F.A.C.

4 | ~~(e)(d)~~ Any person intending to import Class AA ~~biosolids residuals~~ from outside
 5 | the state for distribution and marketing or land application must notify the Department's
 6 | Domestic Wastewater Section in Tallahassee, in writing, at least 30 days before
 7 | beginning importation, in accordance with Rule 62-640.850~~(9)(6)~~, F.A.C.

8 | ~~(f)(e)~~ ~~Biosolids Residuals~~-management facility permittees must notify the
 9 | Department and all affected parties in writing at least 60 days before ceasing operation,
 10 | in accordance with Rule 62-640.880(2)(j), F.A.C.

New subsection 62-640.650(6)(g) requires the application site to notify the Department and affected parties if it will be shutting down.

11 | (g) Site registrants shall notify the Department and all affected parties in
 12 | writing at least sixty days before voluntarily ceasing operation of a registered biosolids
 13 | land application site.

New subsection 62-640.650(6)(h) requires facilities to notify the Department and application site(s) when it discovers that it sent biosolids not meeting regulations to the application site(s).

14 | (h) Facility permittees shall notify the Department and all affected site
 15 | managers within 24 hours of discovery of sending biosolids that did not meet the
 16 | requirements of Rule 62-640.600, F.A.C., or Rule 62-640.700(5), F.A.C., to a land
 17 | application site.

New subsection 62-640.650(6)(i) requires distributors of Class AA to notify the Department and affected parties if they find their biosolids did not meet regulations.

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1 (i) Facility permittees and those persons who deliver Class AA biosolids in
 2 Florida shall notify the Department and all affected parties within 24 hours of discovery
 3 of distributing and marketing biosolids that did not meet the requirements of Rules 62-
 4 640.600(1)(a) and (2), F.A.C., or Rule 62-640.850(4), F.A.C.

5 Specific Authority 403.051, 403.061, 403.062, 403.087, 403.088, 403.704, 403.707,
 6 FS.

7 Law Implemented 403.021, 403.051, 403.061, 403.087, 403.088, 403.0881, 403.702,
 8 403.704, 403.707, 403.708, FS.

9 History - New 3-30-98, Amended .
 10

Title altered for clarification.

11 **62-640.700 Criteria for Land Application of Class A and Class B Biosolids**
 12 **at Land Application SitesResiduals.**

New subsection 62-640.700(1) requires land application of biosolids to occur on registered application sites.

13 (1) Biosolids shall only be applied to land application sites that are registered
 14 with the Department in accordance with Rule 62-640.450, F.A.C., except as provided in
 15 Rule 62-640.100(5)(h), F.A.C.

New subsection 62-640.700(2) requires proper treatment of biosolids prior to land application.

16 (2) All biosolids applied to land application sites shall meet the requirements
 17 of Class A or Class B biosolids in accordance with Rule 62-640.600(1), F.A.C.

New subsection 62-640.700(3) requires agronomic application rates in accordance with the NMP and places a precautionary limit of six dry tons per acre for land application based on reasonable expectations of nutrient characteristics and number of loads.

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1 (3) Biosolids applied at agricultural sites shall be applied at agronomic rates in
 2 accordance with the NMP. Biosolids loadings shall not exceed six dry tons per acre per
 3 year.

New Subsection 62-640.700(4) allows reclamation sites to apply at higher than agronomic rates but in accordance with the Biosolids Application Site Registration Form.

4 (4) Biosolids applied at land reclamation sites shall not be limited to
 5 agronomic rates but shall be applied in accordance with the Biosolids Application Site
 6 Registration Form 62-640.210(2)(d).

Current subsection 62-640.700(1) is renumbered and modified for clarity.

7 (5) Biosolids ~~(1) General Criteria. Residuals~~ may be applied to a land
 8 application site only if all parameter concentrations ~~of all the parameters listed in Rule~~
 9 ~~62-640.650(1)(b), F.A.C.,~~ do not exceed the following ceiling concentrations in any
 10 sample, and the biosolids residuals meet the pathogen and vector attraction reduction
 11 requirements set forth in Rule 62-640.600, F.A.C., for the intended site use.

CEILING CONCENTRATIONS

(mg/kg dry weight basis)

Parameter	Concentration
Arsenic	75
Cadmium	85
Copper	4300
Lead	840
Mercury	57
Molybdenum	75

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1	Nickel	420
2	Selenium	100
3	Zinc	7500

4

5 (6)(2) General Application Site Requirements

Subsection 62-640.700(2)(a) is removed since the latter portion of .700 will now contain the application site restrictions.

6 ~~(a) Site use restrictions including setback distances, crop harvesting, grazing,~~
 7 ~~and public access shall conform to the requirements of Rule 62-640.600, F.A.C., for the~~
 8 ~~class of pathogen reduction provided.~~

Subsection 62-640.700(2)(b) is deleted as various parts have been relocated to more appropriate sections in the rule.

9 ~~(b) Florida water quality standards shall not be violated in waters as a result~~
 10 ~~of land application of residuals. Monitoring of surface and ground waters shall be~~
 11 ~~required if the Department determines that, because of the physical and~~
 12 ~~hydrogeological characteristics of the site, monitoring is necessary to protect the~~
 13 ~~designated uses of water bodies. If violations occur, land application of residuals shall~~
 14 ~~be suspended immediately, and the violations shall be reported to the Department~~
 15 ~~within twenty-four hours of discovery.~~

Current subsection 62-640.700(2)(c) is renumbered and revised to clarify the meaning of “uniform” application.

16 ~~(a) Biosolids (e) Residuals~~ shall be applied with appropriate techniques,
 17 management, and equipment to assure biosolids are uniformly applied uniform
 18 application over the application zone.

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New subsection 62-640.700(6)(b) requires injection or incorporation of biosolids under certain circumstances.

1 (b) Beginning within one year of (the effective date of the rule), biosolids
 2 treated using alkaline addition shall be applied by the best management practice of
 3 incorporation or injection unless the application zone is located at a distance greater
 4 than one-quarter mile from the application site property line. Biosolids treated using
 5 alkaline addition shall be land applied within a 24-hour period after leaving the treatment
 6 facility at which the biosolids were treated.

Current subsection 62-640.700(6)(d) is renumbered and modified to prohibit the use of spray guns.

7 (c)(d) The spraying of liquid domestic wastewater biosolids from an application
 8 vehicle residuals shall be conducted so that the formation of aerosols is minimized. The
 9 use of spray guns is prohibited.

New subsection 62-640.700(6)(d) prohibits staging, stockpiling, etc., for more than 7 days unless specific written approval is obtained from the Department.

10 (d) Biosolids shall not be stored, stockpiled, or staged at a land application
 11 site for more than seven days unless approved by the Department during application
 12 site registration.

13 1. All biosolids storage, stockpiling, or staging at land application sites shall:

14 a. Meet the applicable setback requirements for biosolids application sites in

15 Rule 62-640.700(8), F.A.C.;

16 b. Not cause runoff of biosolids, objectionable odors, or vector attraction;

17 c. Include fencing or other appropriate features to discourage the entry of
 18 animals and unauthorized persons;

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1 d. Follow best management practices and guidance in Rule 62-
2 640.210(1)(k), F.A.C.

3 2. If biosolids are stored, stockpiled, or staged for more than seven days, the
4 Department shall approve storage periods for longer than seven days if the application
5 site registration form documents the following conditions are met:

6 a. In no case shall storage exceed two years;

7 b. The storage facilities are designed and constructed in accordance with
8 Chapter 5, Part III, of the technical reference in Rule 62-640.210(1)(k), F.A.C.;

9 c. All of the biosolids stored at the application site, up to the capacity of the
10 on-site storage facilities, can be land applied without resulting in an exceedance of
11 cumulative loading limits or agronomic rates;

12 d. The storage facilities are adequate for the rate of biosolids generated by
13 permitted wastewater facilities sending biosolids to the application site; and

14 e. A longer storage period is needed because of agricultural operations or
15 climatic factors at the application site.

16 ~~(e) Residuals storage facilities at land application sites shall be subject to~~
17 ~~applicable setback requirements for residuals application sites in this section.~~

18 ~~Residuals shall be stored in a manner that will not cause runoff or seepage from stored~~
19 ~~residuals, objectionable odors, or vector attraction. Storage areas must be fenced or~~
20 ~~otherwise provided with appropriate features to discourage the entry of animals and~~
21 ~~unauthorized persons. At the time of land application, the stored residuals must meet~~

1 ~~the general criteria of Rule 62-640.700(1), F.A.C., for parameter concentrations,~~
 2 ~~pathogen and vector attraction reduction, and the cumulative application limits of Rule~~
 3 ~~62-640.700(3), F.A.C. Residuals storage facilities at land application sites may be used~~
 4 ~~only for temporary storage of stabilized residuals for no more than 30 days during~~
 5 ~~periods of inclement weather or to accommodate agricultural operations, unless a~~
 6 ~~longer storage period is specified in the approved agricultural use plan for the site. The~~
 7 ~~Department shall approve a longer storage period, not to exceed two years, if the~~
 8 ~~agricultural use plan demonstrates that:~~

9 1. ~~_____ The storage facilities at the site are adequate for the rates of residuals~~
 10 ~~generation by permitted wastewater facilities sending residuals to the site;~~

11 2. ~~_____ all of the residuals stored at the site, up to the capacity of the on-site~~
 12 ~~storage facilities, can be land applied without resulting in an exceedence of cumulative~~
 13 ~~loading limits or agronomic rates; and~~

14 3. ~~_____ a longer storage period is needed because of agricultural operations or~~
 15 ~~climatic factors at the site.~~

Current subsection 62-640.700(2)(f) is renumbered and revised:

- to require the signage at a application site be bilingual;
- to specify minimum sign size and content of sign; and,
- require placement of signs at specific intervals.

16 (e) Class B biosolids ~~(f) Residuals~~ application sites shall be posted with
 17 appropriate advisory signs in English and Spanish which identify ~~identifying~~ the nature
 18 of the project area and comply with the following requirements:-

1 1. Signs shall be posted at all entrances to land application sites in such a
2 position as to be clearly noticeable. The words “Class B Biosolids Site” (in Spanish
3 “Sitio con Biosólidos”), “Public Access Prohibited” (in Spanish “Prohibido el Acceso al
4 Público”), and the name and contact information of the site manager shall appear
5 prominently on the signs.

6 2. For unfenced application sites, additional signs shall be posted at the
7 corners and at a maximum of 500 ft intervals along the boundaries of the application
8 site and in such a position as to be clearly noticeable from outside the boundary line of
9 the application site. The words “Public Access Prohibited” (in Spanish “Prohibido el
10 Acceso al Público”) shall appear prominently on the signs.

11 3. Letters on the signs shall not be less than two inches in height. Signs
12 shall be maintained and legible.

13 ~~(7)(3)~~ Cumulative Application Limits.

14 (a) The total cumulative loading of each parameter identified in Rule 62-
15 640.700~~(7)(3)~~(b), F.A.C., which is applied to each application zone on an application
16 site shall be determined and provided to the Department in the annual summary
17 submitted on Department Form 62-640.210(2)~~(c)(b)~~. The beginning date for cumulative
18 loading determination shall be as described in Rule 62-640.650~~(5)(d)2(3)(b)3~~., F.A.C.
19 The total cumulative loading shall be reported in pounds per acre (1 acre = 0.4047
20 hectare).

Current subsections 62-640.700(3)(b)-(d) are renumbered and revised to remove the complicated provisions for allowing “clean” Class B residuals to potentially not have to be subject to cumulative loadings.

(b) The application of biosolids residuals to application zones which accept biosolids residuals that meet the ceiling concentration limits in Rule 62-640.700(5)(4), F.A.C., ~~but do not meet the requirements of Rule 62-640.850(3)(a), F.A.C.,~~ shall be restricted by the following cumulative application limits:

CUMULATIVE APPLICATION LIMITS

(pounds per acre)

Arsenic	36.6
Cadmium	34.8
Copper	1340
Lead	268
Mercury	15.2
Nickel	375
Selenium	89.3
Zinc	2500

~~(c) Except as provided in Rule 62-640.700(3)(d), F.A.C., application zones which only receive residuals that meet the parameter concentration limits in Rule 62-640.850(3)(a), F.A.C., are not subject to the cumulative application limits in Rule 62-~~

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~~640.700(3)(b), F.A.C.(d) Beginning with the first application of residuals that do not meet the parameter concentration limits in Rule 62-640.850(3), F.A.C., to an application zone, the zone shall be subject to the cumulative application limits in Rule 62-640.700(3)(b), F.A.C., and all applications of residuals, except Class AA, shall be used to determine the cumulative loading of parameters applied to the zone.~~

~~(c)(e)~~ If one or more zone(s) at an application site changes ownership or becomes part of a different application site, the cumulative loading determination for the affected zone(s) shall account for the prior applications of biosolids residuals.

Current subsection 62-640.700(3)(f) is renumbered and revised to clarify that soil tests or other methods may be used to establish a current cumulative loading.

~~(d)(f)~~ If biosolids residuals that are subject to the cumulative loading limitations of Rule 62-640.700(~~6~~)(~~3~~), F.A.C., have been applied to an application zone, and the cumulative loading amount of one or more pollutants is not known, no further applications of biosolids residuals may be made to that application zone. Soil testing conducted in accordance with Rule 62-640.650(b)2., F.A.C. or alternate methods may be used to establish cumulative loadings to allow the continued use of the application site.

Current subsection 62-640.700(4) is renumbered and revised by deleting language to account for the new application site registration provision.

~~(8)(4)~~ Setback Distances. ~~The setback distances in this section shall apply to all new or expanded land application sites used by facilities for which the Department received complete wastewater permit applications after December 1, 1997, but the setback distances shall only apply to the new or expanded portion(s) of the land~~

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1 ~~application sites. The permittee of a facility using an existing land application site may~~
 2 ~~request, during permit renewal, that the setback distance requirements in this rule be~~
 3 ~~applied to the existing site or portion of the site. The Department shall grant such~~
 4 ~~requests provided no violations of water quality standards have occurred as a result of~~
 5 ~~residuals application to the site.~~

6 ~~(a) The following setback distances specified in Rule 62-640.700(4)(a)~~
 7 ~~through (c), F.A.C., shall apply to land application sites that accept either Class A or~~
 8 ~~Class B biosolids residuals. The setback distances specified in Rule~~
 9 ~~62-640.700(4)(d), F.A.C., shall only apply to land application sites that accept Class B~~
 10 ~~residuals.~~

11 ~~1.(a) The biosolids residuals~~ land application zone shall not be located closer
 12 than 1000 feet to any Class I water body, Outstanding Florida Water or Outstanding
 13 National Resource Water, or 200 feet from any other surface water of the state as
 14 defined in ~~Sections.~~ 403.031, F.S. This setback does not apply to waters owned
 15 entirely by one person other than the state, nor to canals or bodies of water used for
 16 irrigation or drainage, which are located completely within the application site and will
 17 not discharge from the application site. The setback area shall be vegetated. The 200
 18 foot setback distance from surface waters may be reduced to 100 feet if ~~one of the~~
 19 ~~following conditions is met:~~

20 ~~1. The biosolids residuals~~ are injected or incorporated into the soil; ~~or~~

Subsection 62-640.700(4)(a)2 is deleted, removing the conservation plan provision for reducing the surface water setback.

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~~2. A conservation plan is provided with the NMP addressing how Agricultural Use Plan which demonstrates that stormwater runoff generated by the 10-year recurrence interval, 1-hour duration storm event will be prevented from entering or leaving the land application zone. Berms shall be placed around the site for the purpose of preventing stormwater runoff if necessary. Recovery time of the system should be specified in the conservation plan with a maximum stormwater retention time of 72 hours as required by Rule 62-25.025(4), F.A.C. Back slope protection as well as other safety features shall be included.~~

2.(b) The biosolids residuals land application zone shall not be located closer than 300 feet from any private drinking potable water supply well or 500 feet from any public drinking potable water supply well.

3.(e) The land application zone and an area 200 feet wide adjacent to the application zone shall contain no visible evidence of subsurface fractures, solution cavities, sink holes, excavation core holes, abandoned wells or any other natural or man-made conduits that could allow direct contamination of ground water.

New subsection 62-640.700(8)(a)4 requires a 1320 foot setback from stored, stockpiled, or staged biosolids.

4. Biosolids shall not be stored, stockpiled, or staged at a land application site within 1320 feet of a building occupied by the general public. This distance may be decreased if the owner of the building provides written consent.

New subsection 62-640.700(8)(b) addresses the application site restrictions for Class B biosolids including those from the old subsection 62-640.600.

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1 (b) The following additional setback distances shall apply to land application
 2 sites that accept Class B biosolids.

Current subsection 62-640.700(4)(d) is renumbered and revised to increase the Class B setback to a building occupied by the public to 500 feet unless there is permission from the owner.

3 1.(d) Class B biosolids residuals shall not be applied within 500 300 feet of a
 4 building occupied by the general public. This distance may be reduced to 100 feet if
 5 biosolids residuals are injected into the soil or if permission is obtained from the dwelling
 6 owner or lessee.

New subsection 62-640.700(8)(b)2 adds a 75 foot setback to property lines for land application of Class B biosolids.

7 2. Class B biosolids shall not be applied within 75 feet from property lines.

8 (9) (5) Soil Requirements. The pH of the biosolids residuals soil mixture
 9 shall be 5.0 or greater at the time biosolids residuals are applied. At a minimum, soil pH
 10 testing shall be done annually as required by Rule 62-640.650(3)(b)1., F.A.C.

Current subsection 62-640.700(6) is renumbered and revised to require a monitoring well or piezometer for monitoring ground water levels.

11 (10) (6) Ground Water Requirements. A minimum unsaturated soil depth of
 12 two feet is required between the depth of biosolids placement and above the water table
 13 level is required at the time the biosolids residuals are applied to the soil. The seasonal
 14 high ground water level for the application site may be indicated in the Biosolids
 15 Application Site Registration Form 62-640.210(2)(d) Agricultural Use Plan by use of soil
 16 survey maps. If the seasonal high ground water level is within two feet of the depth of
 17 biosolids placement or cannot be determined at the time of registration, surface or can
 18 not be determined using soil survey maps, the water table level shall be determined in

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1 one or more representative location(s) in the application zone before each application of
 2 biosolids residuals, by ~~observing the standing water level in a three-foot-deep hole dug~~
 3 ~~at least one hour before application, or by other means, e.g.,~~ measuring the water level
 4 in a water-table monitoring well or a piezometer.

Subsection 62-640.700(6)(b) is deleted since it is redundant to 62-640.700(8)(a)3

5 ~~(b) The minimum setback requirement of Rule 62-640.700(4)(c), F.A.C., shall~~
 6 ~~be provided between land application areas and any visible evidence of natural or man-~~
 7 ~~made conduits that could allow direct contamination of ground water.~~

8 (11)(7) Runoff Prevention Requirements.

Current subsection 62-640.700(7)(a) is renumbered and revised to prohibit application during any rainfall event or when there is ponding.

9 (a) Biosolids Residuals shall not be applied at the application zone during rain
 10 events, when ponding exists, during rains that cause runoff from the site or when
 11 surface soils are saturated.

Current subsection 62-640.700(7)(b) is renumbered and revises the slope requirements for land application.

12 (b) Unless biosolids are injected or incorporated, topographic ~~Topographic~~
 13 grades of the land application zone must be three eight percent or less. When biosolids
 14 are injected or incorporated, topographic grades shall not exceed six percent. If
 15 application site slopes exceed three two percent in one or more application zones, a
 16 conservation plan must be provided with the Nutrient Management Plan Agricultural
 17 Use Plan which demonstrates that suitable soil infiltration rates and stormwater control
 18 measures exist at the application site to retain runoff generated by a 10-year recurrence

1 interval 1 hour duration storm event. Berms shall be placed for this purpose if
2 necessary.

3 (c) Biosolids shall not be land applied on application sites that are frequently
4 flooded as required by the technical reference in Rule 62-640.210(1)(n), F.A.C.

The application site restrictions from Subsection 62-640.600 are moved here with some modifications.

5 (12) Additional Application Site Restrictions for Class B Biosolids. The
6 following restrictions shall apply to the use of Class B biosolids:

Current subsection .600(3)(b) is renumbered and revised for clarification.

7 (a) Class B biosolids shall only be applied to restricted public access areas.
8 The public shall be restricted from the application zone for 12 months after the last
9 application of biosolids.

10 (b) Plant nursery use of Class B biosolids is prohibited.

11 (c) Use of Class B biosolids on roadway shoulders and medians is limited to
12 restricted public access roads.

13 (d) Food crops, feed crops, and fiber crops shall not be harvested for 30 days
14 following the last application of Class B biosolids.

15 (e) Food crops with harvested parts that touch the biosolids/soil mixture and
16 are totally above the land surface shall not be harvested for 14 months after the last
17 application of Class B biosolids.

18 (f) Food crops with harvested parts below the surface of the land shall not be
19 harvested for 20 months after application of Class B biosolids when the biosolids remain
20 on the land surface for four months or longer before incorporation into the soil.

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1 (g) Food crops with harvested parts below the surface of the land shall not be
 2 harvested for 38 months after application of Class B biosolids when the biosolids remain
 3 on the land surface for less than four months before incorporation into the soil

Current subsection 62-640.600(3)(b)7. is renumbered and revised to require reporting of any animals grazed within 30 days of land application to DOACS.

4 (h) Animals shall not be grazed on land on which Class B biosolids have been
 5 applied for 30 days after the last application of Class B biosolids. Animals found
 6 grazing prior to the end of the 30-day restriction shall be reported by the site manager to
 7 the Florida Department of Agriculture and Consumer Services (FDOACS) within two
 8 weeks of the time the animal is grazed or prior to the sale of the animal or product
 9 derived from the animals or the transfer of the animal off the property.

10 (i) Sod which will be distributed or sold to the public or used on unrestricted
 11 public access areas shall not be harvested from land on which Class B biosolids have
 12 been applied for 12 months after the last application of Class B biosolids.

New subsection 62-640.700(12)(j) requires disclosure, from the current owner to the new owner, of the application site restrictions still applicable to the application site.

13 (j) If ownership of a land application site changes prior to the expiration of a
 14 time period set for one of the application site restrictions established by Rule 62-
 15 640.700(12), F.A.C., the existing owner shall disclose to the prospective owner the
 16 existence of the restriction(s) prior to transferring ownership.

17 Specific Authority 403.051, 403.061, 403.062, 403.087, 403.088, 403.704, 403.707, FS.
 18 Law Implemented 403.021, 403.051, 403.061, 403.087, 403.088, 403.0881, 403.702,
 19 403.704, 403.707, 403.708, FS.

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1 History - New 8-12-90, Formerly 17-640.700, Amended 3-30-98, Amended .

2

3 Subsection 62-640.750 has been deleted with its relevant portions placed into other sections of the rule.

62-640.750 Agricultural Sites. (Repealed)

4 ~~(1) Residuals which meet the pathogen and vector attraction reduction~~
5 ~~requirements set forth in Rules 62-640.600(1) and (2), F.A.C., may be applied to~~
6 ~~agricultural sites in accordance with the site use restrictions of Rule 62-640.600(3),~~
7 ~~F.A.C., the criteria for land application of Rule 62-640.700, F.A.C., and the requirements~~
8 ~~of this section.~~

9 ~~(2) Residuals application rates are limited to agronomic rates based on the~~
10 ~~site vegetation as identified in the Agricultural Use Plan. The application rates for~~
11 ~~residuals shall be determined using the following steps:~~

12 ~~(a) The total amount of nitrogen required by the crop(s) being grown shall be~~
13 ~~estimated using the values for nitrogen demand listed in the table below. Alternative~~
14 ~~values for nitrogen demand of these crops or for crops not listed shall be allowed based~~
15 ~~on site specific agricultural information or if recommended by the Natural Resources~~
16 ~~Conservation Service or the University of Florida Institute of Food and Agricultural~~
17 ~~Sciences (IFAS). The basis for the alternative values shall be included with the~~
18 ~~Agricultural Use Plan. If more than one crop is grown at the same time on an~~
19 ~~application zone, the weighted average of the nitrogen demands shall be used to~~
20 ~~estimate the total amount of nitrogen required.~~

21 ~~Total Estimated Crop Nitrogen Demand in Pounds Per Acre~~

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1	<u>Per Crop or Per Active Growing Season</u>	
2	<u>Crop</u>	<u>Nitrogen</u>
3	<u>Forage Crops (per active growing season)</u>	
4	<u>Improved perennial grasses</u>	
5	<u>grazed</u>	200
6	<u>hay or silage (assuming 4 harvests)</u>	400
7	<u>Cool season annual grasses</u>	
8	<u>(e.g., grazed small grains, ryegrass, fescue)</u>	200
9	<u>Warm season annual grasses</u>	
10	<u>(e.g., sorghum-sudan hybrid or pearl millet)</u>	
11	<u>grazed</u>	200
12	<u>hay or silage (4 harvests)</u>	400
13	<u>Forage legumes (clovers and alfalfa)</u>	
14	<u>(per year maximum)</u>	100
15	<u>Field Crops (per crop)</u>	
16	<u>Corn (irrigated, for grain or silage)</u>	250
17	<u>Small grains for grain or silage</u>	120
18	<u>Grain or forage sorghum</u>	150
19	<u>Cotton</u>	120
20	<u>Peanuts</u>	100
21	<u>Soybeans</u>	100

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1 Sugarcane _____ 200

2 ~~Vegetable Crops (per crop)~~

3 Sweet corn _____ 120

4 ~~Tree Crops~~

5 Citrus _____ *

6 Pine

7 (annual applications) _____ 75

8 (single application per 15 to 25 year rotation) _____ 300

9 * ~~For citrus, the nitrogen demand will be as established by the Department of Agriculture~~
 10 ~~and Consumer Services in Chapter 5E-1, F.A.C.~~

11 ~~(b) Using the nitrogen demand value estimated pursuant to paragraph (a)~~
 12 ~~above, the maximum residuals nitrogen application rate shall be determined using the~~
 13 ~~calculation method in Chapter 7, U.S. Environmental Protection Agency, Process~~
 14 ~~Design Manual for Land Application of Sewage Sludge and Domestic Septage, which~~
 15 ~~the Department incorporates here by reference, or other methods which shall be~~
 16 ~~documented in the Agricultural Use Plan. The calculation shall account for the~~
 17 ~~availability of nitrogen in the residuals and other applied sources.~~

18 Specific Authority 403.051, 403.061, 403.062, 403.087, 403.088, 403.704, 403.707, FS.

19 Law Implemented 403.021, 403.051, 403.061, 403.087, 403.088, 403.0881, 403.702,

20 403.704, 403.707, 403.708, FS.

21 History – New 3-30-98.

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The title for subsection 62-640.800 is revised to add "Additional Requirements for" in the title.

62-640.800 Additional Requirements for Reclamation Sites.

Old subsection 62-640.800(1) is removed because of redundancy.

~~(1) Residuals which meet the pathogen and vector attraction reduction requirements of Rule 62-640.600(1) and (2), F.A.C., may be applied to land reclamation sites if the site use restrictions of Rule 62-640.600(3), F.A.C., the criteria for land application of residuals of Rule 62-640.700, F.A.C., and the requirements of this section are met.~~

~~(1)(2)~~ Maximum total allowable application quantity shall be limited to 50 dry tons/acre with such one-time reclamation project to be accomplished within a one-year period on any acre of a land reclamation site. When composted biosolids or biosolids residuals or residuals blended with other soil amendment materials are used, only the biosolids residuals portion of the blended product shall count toward the 50 dry tons/acre limitation.

~~(2)(3)~~ Except for Class A biosolids residuals the applied material shall be incorporated into the soil within 24 hours of the same day as application.

Subsection 62-640.800(3) is revised to add flexibility in the type of cover crop that must be planted.

~~(3)(4)~~ Seed, ~~or~~ turf-forming grass or other vegetative cover if approved by the Department, shall be planted as soon as possible but in no case later than three months after the application of biosolids residuals.

Subsections 62-640.800(5) and (6) are removed for redundancy.

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1 ~~(5) Florida water quality standards shall not be violated as a result of land~~
 2 ~~application of residuals, under Rule 62-640.700(2)(b), F.A.C.~~

3 ~~(6) Slopes must be eight percent or less before and after application.~~

4 ~~(4)(7)~~ Topographical grading shall be completed before application begins.

5 ~~(5)(8)~~ In addition to the above requirements, land reclamation projects at mining
 6 reclamation sites shall be in compliance with any other applicable Department rules
 7 concerning mining reclamation.

8 Specific Authority 403.051, 403.061, 403.062, 403.087, 403.088, 403.704, 403.707,
 9 FS.

10 Law Implemented 403.021, 403.051, 403.061, 403.087, 403.088, 403.0881, 403.702,
 11 403.704, 403.707, 403.708, FS.

12 History - New 8-12-90, Formerly 17-640.800, Amended 3-30-98, Amended.
 13

14 **62-640.850 Distribution and Marketing -- Class AA BiosolidsResiduals.**

15 Biosolids or biosolids Residuals or residuals products shall be designated as Class AA if
 16 the requirements of this section are met, and the biosolids or biosolids products
 17 residuals are distributed and marketed following a Class AA Biosolids Distribution and
 18 Marketing Plan submitted in accordance with Rule 62-640.850(3).

19 (1) Biosolids or biosolids Residuals or residuals products shall meet the Class
 20 A pathogen reduction standards of Rule 62-640.600(1), F.A.C.

1 (2) Biosolids or biosolids ~~Residuals or residuals~~ products shall meet one of
 2 the vector attraction reduction requirements in Rule 62-640.600(2)(b), F.A.C. Title 40
 3 Code of Federal Regulations Part 503, Section 503.33(b)(1) through (b)(8).

New subsection 62-640.850(3) notes that those who wish to distribute and market Class AA biosolids must submit a biosolids Distribution and Marketing Plan.

4 (3) Any facility which produces Class AA biosolids in Florida or any person
 5 who delivers Class AA biosolids to Florida shall submit a Class AA Biosolids Distribution
 6 and Marketing Plan.

7 (a) The plan shall be submitted as follows :

8 1. Florida facilities shall submit the Plan with the wastewater facility permit
 9 application. An updated plan shall be submitted with each renewal application.

10 2. Persons shipping Class AA biosolids into Florida shall submit the Plan
 11 with the notification required by Rule 62-640.850(9), F.A.C. The Plan shall be updated
 12 and re-submitted every five years.

13 (b) The Plan shall address:

14 1. The quantity and characteristics of the biosolids or biosolids products to
 15 be distributed and marketed annually;

16 2. The intended market audience and intended uses of the biosolids or
 17 biosolids products;

18 3. The transportation, storage, and application procedures for the biosolids
 19 or biosolids products;

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1 4. The label or information sheet to be provided for the end user developed
2 in accordance with Rule 62-640.850(8), F.A.C.;

3 5. Emergency plans if the biosolids or biosolids products are not distributed
4 or marketed as planned; and

5 6. Policies for addressing misuse or complaints associated with use of the
6 biosolids or biosolids products.

7 (4) Biosolids or biosolids products subject to Chapter 5E-1, F.A.C., are to be
8 registered with FDOACS.

Current subsection 62-640.850(3) is renumbered. The ceiling limit requirement is separated into a new (b) and clarified.

9 (5)(3) Biosolids and biosolids Residuals or residuals products shall only be
10 distributed and marketed if: analyzed in accordance with Rule 62-640.650(1), F.A.C., on
11 a monthly basis, and the results shall be submitted to the Department in accordance
12 with Rule 62-640.850(4), F.A.C.

13 (a) The ~~residuals or final residuals products shall have~~ monthly average
14 parameter concentrations do not exceeding the following criteria; and:

15
16 CLASS AA PARAMETER CONCENTRATIONS*

17 (mg/kg dry weight basis)

18	<u>Parameter</u>	<u>Monthly Average</u>
19	Arsenic	41
20	Cadmium	39

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1	Copper	1500
2	Lead	300
3	Mercury	17
4	Nickel	420
5	Selenium	100
6	Zinc	2800

7

8 ~~— *The ceiling concentrations in Rule 62-640.700(1), F.A.C., also apply.~~

9 (b) No single sample parameter concentration exceeds the ceiling

10 concentrations in Rule 62-640.700(5), F.A.C.

11 ~~(6)(b)~~ If the biosolids residuals must be blended with other materials to meet the

12 criteria of Rule 62-640.850 ~~(5)(3)~~(a), F.A.C., the blending shall be conducted by a

13 Department permitted domestic wastewater treatment facility or biosolids residuals

14 management facility before the biosolids residuals are distributed or marketed. The

15 blending methodology shall be specified in the facility's permit.

16 Current subsection 62-640.850(4) is renumbered and revised to require that Class AA information be reported on the DMR instead of the Monthly Residuals Distribution and Marketing Report.

17 ~~(7)(4)~~ Any facility which produces Class AA biosolids residuals in Florida or and

18 any person who delivers Class AA biosolids residuals to Florida shall submit the

19 following information with the facility Discharge Monitoring Reporta Monthly Residuals

20 Distribution and Marketing Report to the Domestic Wastewater Section of the

Department, Twin Towers Office Building, 2600 Blair Stone Road, Mail Station 3540,

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1 ~~Tallahassee, Florida, 32399-2400. The report shall be submitted on Form 62-~~
 2 ~~640.210(2)(c), by the 28th day of the month following the reporting month, and shall~~
 3 ~~include the following:~~

Current subsection 62-640.850(4)(a) is renumbered and revised to clarify the reporting requirements for Class AA quantities.

4 (a) ~~The the~~ total quantity of biosolids residuals (dry tons) distributed and
 5 marketed in Florida. Facility permittees in Florida also shall report the total quantity of
 6 biosolids (dry tons) distributed and marketed outside of Florida~~delivered to or applied in~~
 7 ~~each county;~~

8 (b) ~~The the~~ name and address of the facility or person that produced the
 9 Class AA biosolids~~; and residuals~~

Subsections 62-640.850(4)(c) and (d) are removed as this information will be part of the notification information.

10 ~~(c) — the brand name, if any, and the product type of the residuals or residuals~~
 11 ~~product;~~

12 ~~(d) — the Department of Agriculture and Consumer Services (DACS) fertilizer~~
 13 ~~licensee number, if applicable. For information about fertilizer registration, contact the~~
 14 ~~Bureau of Compliance Monitoring, DACS, Tallahassee, Florida 32399-1650; and~~

Current subsection 62-640.850(4)(e) is renumbered and revised to clarify parameter monitoring reporting.

15 ~~(c)(e)~~ The results of monitoring performed in accordance with Rule 62-
 16 640.650(3)(a)3., F.A.C. A for facilities located outside the state of Florida, a copy of the
 17 biosolids residuals analysis report(s) from a laboratory certified by the Department of
 18 Health under Chapter 64E-1, F.A.C., to perform the analyses being reported, for each
 19 month the biosolids residuals were distributed and marketed in Florida, shall be

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1 ~~included with the Discharge Monitoring Report. The report shall include the results of~~
 2 ~~monitoring performed in accordance with Rule 62-640.650(1), F.A.C.~~

3 ~~(8)(5)~~ The following information must be made available to the users by the
 4 manufacturer by product labels or other means:

5 (a) The name and address of the facility or person that produced the Class
 6 AA ~~biosolids residuals~~;

7 (b) A statement that the ~~biosolids or biosolids residuals or residuals~~ product
 8 meets the criteria of Rule 62-640.850~~(4)(3)~~, F.A.C.;

9 (c) Recommended agronomic application rates based on the characteristics
 10 and expected uses of the biosolids or biosolids product. Recommended application
 11 rates shall not exceed more than 10 dry tons per acre. A recommendation that
 12 residuals be applied at a rate that does not exceed the agronomic rate; and

13 (d) The following ~~biosolids residuals~~ analysis information (dry weight basis);
 14 and:

15 Total Nitrogen (%)

16 Total Phosphorous (%)

17 Available Phosphate (P₂O₅) (%)

18 Total Potassium (%)

19 Subsection 62-640.850(8)(e) requires a warning to be provided to end users that bulk Class AA shall not
 20 be staged or stockpiled for more than 7 days.

(e) For bulk quantities of biosolids, recommendations on proper storage of the
biosolids or biosolids product prior to use.

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Current subsection 62-640.850(6) is renumbered and modified to require more information from out-of-state importers of Class AA biosolids.

- 1 ~~(9)(6)~~ Any person who intends to begin shipping Class AA biosolids residuals
 2 into the state for distribution and marketing shall notify the Domestic Wastewater
 3 Section of the Department's Tallahassee office in writing of their intent to distribute and
 4 market the biosolids residuals in the state. The notification notice shall be sent to the
 5 Domestic Wastewater Section, Mail Station 3540, Twin Towers Office Building, 2600
 6 Blair Stone Road, Tallahassee, FL 32399-2400. The notification notice shall be
 7 submitted at least 30 days prior to initiating shipment of the biosolids residuals into the
 8 state. Any persons currently shipping Class AA biosolids into the state shall have 90
 9 days after (the effective date of the rule) to provide the above notification. The
 10 notification notice shall include:
- 11 (a) the name of the facility producing the Class AA biosolids residuals,
 - 12 (b) a copy of the facility permit from the state authority where the facility is
 13 located,
 - 14 (c) the facility address and telephone number,
 - 15 (d) the name of the person or entity shipping the Class AA biosolids into
 16 Florida,
 - 17 (e) the name of the principal executive officer or authorized agent for the
 18 entity shipping the Class AA biosolids into Florida,
 - 19 (f) the contact information for the person or entity shipping the Class AA
 20 biosolids into Florida,

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1 (g) a request for a facility specific Discharge Monitoring Report for reporting

2 Class AA information,

3 (h) a description of how the Class AA biosolids residuals meet the
4 requirements of Rule 62-640.850, F.A.C.,

5 (i) a copy of the latest analysis report from a laboratory certified by the state
6 of Florida,

7 (j) a copy of the most recent annual report submitted to EPA in accordance
8 with 40 CFR 503,

9 (k) the approximate date of the first shipment into the state, ~~the counties to~~
10 ~~which the residuals will be shipped,~~

11 (l) the brand name and product type of the biosolids, residuals, and

12 (m) the Class AA Biosolids Distribution and Marketing Plan developed in
13 accordance with Rule 62-640.850(3), F.A.C., and

14 (n) the FDOACS ~~DACS~~ fertilizer licensee number, ~~if applicable.~~

New subsection 62-640.850(10) requires the annual submittal of copies of the applicable facility EPA Annual Report.

15 (10) By February 19 of each year, any person shipping Class AA biosolids to
16 Florida shall submit a copy of the applicable EPA facility annual biosolids report
17 required by 40 CFR 503 to the Domestic Wastewater Section, MS#3540, 2600 Blair
18 Stone Road, Tallahassee, Florida 32399-2400.

New subsection 62-640.850(11) reserves the authority of the Department to apply more requirements on bulk Class AA if misuse of the biosolids occurs.

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(11) The Department shall apply requirements or management practices of this chapter to bulk Class AA biosolids on a case-by-case basis after determining that the requirements or management practices are needed to protect public health and the environment from any reasonably anticipated adverse effect, including objectionable odors, that may occur from the use or disposal of the bulk Class AA biosolids.

Specific Authority 403.051, 403.061, 403.062, 403.087, 403.088, 403.704, 403.707, FS.

Law Implemented 403.021, 403.051, 403.061, 403.087, 403.088, 403.0881, 403.702, 403.704, 403.707, 403.708, FS.

History - New 8-12-90, Formerly 17-640.850, Amended 3-30-98, Amended.

62-640.860 Other Solids.

Subsections 62-640.860(1) and (2)(e) are revised to refer to NMPs instead of AUPs.

(1) General Criteria. The disposal or use of other solids as defined in Rule 62-640.200(~~32~~)(~~24~~), F.A.C., shall be authorized in a Department permit and addressed in the NMP Agricultural Use Plan for the application site.

(a) The beneficial use of other solids which meets the criteria of Rule 62-640.860(2), F.A.C., shall be authorized in a wastewater permit.

(b) The disposal of other solids which does not meet the criteria of Rule 62-640.860(2), F.A.C., shall be in accordance with the design and operational criteria of Chapter 62-701, F.A.C.

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1 (2) Beneficial Use of Other Solids. Other solids may be used in a way which
2 is beneficial to the land if all of the following conditions are met.

3 (a) The permittee shall demonstrate how use of the other solids will be
4 beneficial to the land, such as use as a soil amendment.

5 (b) The other solids shall be monitored and analyzed in accordance with
6 Rule 62-640.650, F.A.C.

Subsection 62-640.860(2)(c) is revised since application site use restrictions are covered in subsection 62-640.700.

7 (c) The other solids shall meet the pathogen and vector attraction reduction
8 requirements, ~~and the site use restrictions~~ of Rule 62-640.600, F.A.C. The Department
9 shall review and approve the design and operational parameters of the treatment
10 method used to reduce pathogens and vector attraction during application for a
11 wastewater permit.

12 (d) The land application of other solids shall meet all of the criteria provided in
13 Rule 62-640.700, F.A.C., for land application of biosolidsresiduals.

Subsection 62-640.860(2)(e) is simplified to require that the use of other solids be addressed in the NMP.

14 (e) The application rate of other solids to land shall be consistent with justified
15 the NMP, ~~by the permittee in the permit application. The permittee shall demonstrate~~
16 ~~that the application rate is beneficial to the land. The application rate shall not be~~
17 ~~determined exclusively by the nitrogen content of the other solids, except that the~~
18 ~~application rate shall not exceed the agronomic needs of the site vegetation.~~

(3) Other solids which are combined with biosolids residuals prior to final treatment of the biosolids residuals are subject to all of the requirements of this chapter ~~Chapter~~ that apply to biosolids residuals.

Specific Authority 403.051, 403.061, 403.062, 403.087, 403.088, 403.704, 403.707, FS.

Law Implemented 403.021, 403.051, 403.061, 403.087, 403.088, 403.0881, 403.702, 403.704, 403.707, 403.708, FS.

History - New 3-30-98, Amended _____.

~~62-640.870 Approval of Alternative Procedures and Requirements.~~

~~(Repealed)~~

~~Specific Authority 403.061, 403.062, 403.087, 403.088, 403.704, 403.707, FS.~~

~~Laws Implemented 403.021, 403.061, 403.087, 403.088, 403.0881, 403.702, 403.704, 403.707, 403.708, FS.~~

~~History - New 8-12-90, Formerly 17-640.870, Repealed~~

~~3-30-98.~~

The title to subsection 62-640.880 is revised to add "Additional Requirements for..." since these are not the only applicable requirements for biosolids management facilities.

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1 **62-640.880** Additional Requirements Related to Biosolids Residuals

2 **Management Facilities.**

3 The requirements of this section shall apply to any facility that treats biosolids residuals
 4 from other facilities prior to use, ~~or~~ land application, or disposal. These requirements
 5 also apply to septage management facilities that treat domestic septage and
 6 combinations of food establishment sludges, wastes removed from portable toilets, and
 7 wastes removed from holding tanks associated with boats, marina pumpout, or other
 8 onsite systems prior to use, ~~or~~ land application, or disposal.

9 (1) General Criteria.

10 (a) The biosolids residuals-management facility permittee shall be responsible
 11 for proper treatment, management, use, ~~and~~ land application, and disposal of the
 12 biosolids residuals it accepts from a source facility, according to the requirements of this
 13 ~~chapter~~ Chapter.

14 1. The biosolids applied to land or distributed and marketed residuals shall
 15 meet the pathogen reduction and, vector attraction reduction, ~~and site use~~ requirements
 16 of Rule 62-640.600, F.A.C.

17 2. The biosolids residuals-management facility shall meet the monitoring,
 18 record keeping, reporting and notification requirements of Rule 62-640.650, F.A.C., and
 19 the additional requirements of this section.

20 3. The biosolids residuals shall be applied to land or distributed and
 21 marketed in accordance with the applicable requirements of Rules 62-640.700, ~~62-~~

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1 | ~~640.750~~, 62-640.800, 62-640.850, F.A.C., and the additional requirements of this
 2 | section.

3 | (b) The source facility permittee shall not be held responsible for treatment,
 4 | management, use, ~~or~~ land application, or disposal violations that occur after its biosolids
 5 | residuals have been accepted by a permitted biosolids residuals-management facility
 6 | with which the source facility permittee has an agreement in accordance with Rule 62-
 7 | 640.880(1)(c), F.A.C., for further treatment, management, use, ~~or~~ land application, or
 8 | disposal.

Subsection 62-640.880(1)(c) is revised to make it the responsibility of both parties (biosolids management facility and source facility) to submit the written contract between them to the Department.

9 | (c) The source facility and the biosolids residuals-management facility shall
 10 | enter into a written agreement addressing the quality and quantity of the biosolids
 11 | residuals accepted by the biosolids residuals-management facility. The agreement shall
 12 | include a statement, signed by the biosolids residuals-management facility permittee, as
 13 | to the availability of sufficient permitted capacity to receive the biosolids residuals from
 14 | the source facility, and indicating that the biosolids residuals-management facility will
 15 | continue to operate in compliance with the requirements of its permit. The agreement
 16 | shall also address responsibility during transport of biosolids residuals between the
 17 | facilities. The biosolids residuals-management facility and the source facility permittees
 18 | permittee shall submit a copy of this agreement to the appropriate District Office of the
 19 | Department, or to the delegated local program ~~Local Program~~, at least 30 days before

1 transporting biosolids residuals from the source facility to the biosolids residuals
 2 management facility.

3 (2) Permitting.

4 (a) Fees. For the purpose of determining applicable permit fees, the biosolids
 5 residuals-management facility shall be classified as Type I, II, or III based on the design
 6 capacity established by the permittee as follows:

7

8	<u>Type</u>	<u>Design Capacity</u>	<u>Design Capacity</u>
9		<u>(dry tons per year)</u>	<u>(dry tons per day)</u>
10	I	>1653	>4.5
11	II	320 - 1653	0.88 - 4.5
12	III	<320	<0.88

13

14 (b) All applications for biosolids residuals-management facility permits shall
 15 be submitted on Department Form 62-620.910(2), Application Form 2A, Permit for
 16 Domestic Wastewater Treatment and Reuse or Disposal Facility.

Subsection 62-640.880(2)(c) is revised to include a provision that specifically allows a district office to consider allowing a biosolids management facility to accept material from a specific industrial source.

17 (c) Under the requirements of this chapter and the applicable requirements of
 18 Chapter 62-600, F.A.C., and Chapter 62-620, F.A.C., the biosolids residuals
 19 management facility shall be permitted to treat either biosolids residuals or
 20 combinations of biosolids residuals, domestic septage, food establishment sludges,

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1 wastes removed from portable toilets, and wastes removed from holding tanks
2 associated with boats, marina pumpout, and other onsite systems. A biosolids
3 management facility shall not accept industrial sludges unless specific approval is
4 granted in the biosolids management facility permit. A separate approval shall be
5 obtained for each source of industrial sludge that will be accepted by the biosolids
6 management facility. Approval shall be granted only if it is determined that the industrial
7 sludge will not interfere with the beneficial use of the biosolids treated by the biosolids
8 management facility. This determination shall be based on an evaluation of all
9 parameters in the industrial sludge that have the reasonable potential to adversely
10 impact public health or the environment.

11 (d) A domestic wastewater treatment facility that intends to accept biosolids
12 residuals from other facilities and that already holds a valid wastewater permit shall not
13 be required to obtain a separate permit as a biosolids residuals management facility, but
14 shall obtain a permit revision based on the requirements of this section.

15 (e) An applicant for a wastewater permit for a new biosolids
16 residuals management facility or substantial modifications to an existing facility shall
17 submit a preliminary design report or other information as specified for domestic
18 wastewater facilities in Rule 62-620.412, F.A.C., for review by the Department as part of
19 the application for permit. As appropriate, the preliminary design report shall include the
20 following:

- 1 1. Types, quantities and characteristics of all materials to be treated at the
2 facility. If the facility will treat wastes removed from portable toilets, or wastes removed
3 from holding tanks associated with boats, marina pumpout, and other onsite systems,
4 the preliminary design report shall also address the organic loading from those wastes,
5 and chemical additives that may be present in such wastes;
- 6 2. The design capacity, which shall address the contribution of all materials
7 that will be treated at the facility (i.e., biosolids residuals, domestic septage, food
8 establishment sludge, wastes removed from portable toilets, and wastes removed from
9 holding tanks associated with boats, marina pumpout, and other onsite systems);
- 10 3. The design ratios of domestic septage, food establishment sludges, and
11 wastes removed from portable toilets, or wastes removed from holding tanks associated
12 with boats, marina pumpout, and other onsite systems;
- 13 4. A site plan showing operations and unit processes; 100-year and 25-year
14 flood elevations; approximate finish elevations for all major treatment units, mixing
15 tanks; storage tanks; and equipment;
- 16 5. An assessment of environmental effects of the project, including odor,
17 dust and noise control, public accessibility, proximity to existing and proposed
18 residential areas, flood protection, and lighting;
- 19 6. Class of pathogen reduction and vector attraction reduction that will be
20 achieved in accordance with Rules 62-640.600(1) and (2), F.A.C., and a description of
21 treatment processes and equipment that will be used;

-
- 1 7. Technical information and design criteria for treatment facilities, including
- 2 a. Hydraulic and organic loading rates - minimum, average, and maximum
- 3 quantities for the treatment processes,
- 4 b. Metering and sampling provision,
- 5 c. Solids retention time,

New subsection 62-640.880(2)(e)7.d requires the treatment process parameters that must be monitored to be identified.

- 6 d. All treatment process parameters to be monitored,
- 7 ed. Chemical addition facilities, if applicable,
- 8 fe. Removals or concentrations with separate tabulation for each unit
- 9 handling solid fractions with supporting data including design calculations,
- 10 gf. Mode of operation (batch or continuous),
- 11 hg. Corrosion control measures, and
- 12 ih. Onsite storage of treated and untreated biosolids residuals, storage of
- 13 chemicals, and alternate disposal methods;
- 14 8. Process diagrams, including
- 15 a. Expected dimensions of unit operations and processes, capacities and
- 16 volumes,
- 17 b. Process configuration,
- 18 c. Hydraulic profile,
- 19 d. Organic loading profile,
- 20 e. Solids profile,

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- 1 f. Solids control system, and
- 2 g. Flow diagram with capacities;
- 3 9. Operation and control strategies included for prevention of upsets, spill
- 4 prevention and control, leachate collection if applicable, alternate disposal methods, and
- 5 reliability classification and features; and
- 6 10. Composting facilities shall identify the bulking agent, recommended mixing
- 7 ratios and moisture content, aeration methods, retention times for curing and drying,
- 8 precipitation and runoff control measures, and provisions to reduce particle size of
- 9 larger yard trash items such as limbs, trees and tree stumps to promote composting.

New subsection 62-640.880(2)(f) requires larger biosolids management facilities to provide redundancy and reliability for their treatment processes.

10 (f) All biosolids management facilities permitted as Type I or Type II biosolids

11 management facilities shall provide reliability features, such as redundancy of

12 equipment, sufficient to provide for the continued and timely treatment of all biosolids

13 the facility has the responsibility to treat.

14 (g)(f) Operation and maintenance performance reports shall be required of all

15 permittees in accordance with Rule 62-600.735(1), F.A.C., and shall address all process

16 components, such as digesters, holding tanks, pumps, mixers, chemical feed

17 equipment, and safety requirements.

18 (h)(g) Capacity analysis reports shall be submitted by the permittee in

19 accordance with Rule 62-600.405, F.A.C., when the three-month average daily loading

20 exceeds 50 percent of the permitted capacity. If the report documents that the capacity

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1 of the facility will not be equaled or exceeded for the next ten years, an updated report
 2 shall be due only every five years.

3 ~~(i)(h)~~ An operation and maintenance manual shall be prepared for all biosolids
 4 residuals management facilities, in accordance with Rule 62-600.720, F.A.C., and
 5 Chapter 62-620, F.A.C. In addition to the requirements specified in Chapters 62-620
 6 and 62-600, F.A.C., the operation and maintenance manual shall provide the operator
 7 with procedures for:

- 8 1. Controlling and verifying the type of waste received at the facility;
- 9 2. Vehicle traffic control and unloading;
- 10 3. Measures to avoid mixing incoming untreated biosolids residuals with
 11 treated biosolids residuals;
- 12 4. Maintaining hauling records in accordance with Rule 62-640.880(4),
 13 F.A.C.; and
- 14 5. Storage of biosolids residuals and other materials at the facility site.

15 ~~(i)(i)~~ Staffing. The level of operator staffing at a biosolids residuals
 16 management facility shall be as follows:

	<u>Type I*</u>	<u>Type II*</u>	<u>Type III*</u>
18 A/AA**	Class A Operator	Class B Operator	Class B Operator
19	8 hours/day	4 hours/day	2 hours/day
20	5 days/week	5 days/week	5 days/week
21			

1	B**	Class A Operator	Class B Operator	Class C Operator
2		2 hours/day	1 hour/day	1 hour/day
3		5 days/week	5 days/week	3 days/week
4	B***	Class A Operator	Class B Operator	Class C Operator
5		1 hour/day	1 hour/day	1 hour/week
6		5 days/week	3 days/week	

7

8 * Classification of Type of facility as determined by Rule 62-640.880(2)(a), F.A.C.

9 ** These letters correspond to the Class of pathogen reduction that is achieved by the

10 ~~biosolids residuals~~-management facility in accordance with Rule 62-640.600(1), F.A.C.

11 *** This category is for Class B liquid alkaline stabilization only.

12

13 1. The operator classification requirements shall be in accordance with

14 Chapter 62-699, F.A.C.

15 2. Operator staffing requirements for facilities addressed in

16 Rule 62-640.880(2)(d), F.A.C., shall be established as the more stringent of either the

17 requirements in Chapter 62-699, F.A.C., or the requirements in Rule 62-640.880(2) ~~(j)(i)~~,

18 F.A.C.

19 3. In addition to the above staffing requirements, other personnel that are trained

20 in the treatment process and equipment being used, working under the direction of a

21 certified operator, shall be present at the ~~biosolids residuals~~-management facility during

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1 loading and unloading operations and during other operating hours as recommended in
2 the preliminary design report.

Subsection 62-640.880(2)(j)4 is renumbered and revised to allow the facility to request other changes to staffing requirements.

3 4. If justified by the complexity of the treatment process, the Department shall
4 require a higher classification, more frequent visits, or more hours per day. Upon
5 written approval from the Department, however, a facility, through a minor permit
6 revision under Rule 62-620.325, F.A.C., may alter or decrease its staffing requirement
7 based upon site-specific requirements, facility operation, risk to public health and the
8 environment, and the presence of other trained personnel.

9 ~~(k)(i)~~ The ~~biosolids residuals~~-management facility permittee shall be responsible
10 for making the facilities safe in terms of public health and safety at all times, and shall
11 notify the Department and all affected parties, in writing, at least 60 days before ceasing
12 operation in accordance with Rule 62-620.610(15), F.A.C.

13 (3) ~~Facility Biosolids Plan~~~~Agricultural Use Plans~~.

14 (a) The ~~biosolids residuals~~-management facility shall submit a Facility Biosolids
15 Plan, Form 62-640.210(2)(a) an Agricultural Use Plan(s) with its wastewater permit
16 application under Rule 62-640.~~300(3)500~~, F.A.C.

17 (b) A source facility shall not be required to submit a Facility Biosolids an
18 Agricultural Use-Plan for the land application of ~~biosolids residuals~~ that are transported
19 to a ~~biosolids residuals~~-management facility which is permitted under this
20 ~~chapter~~Chapter.

1 (4) Hauling Records.

2 (a) The ~~biosolids residuals~~ management facility and the source facility
3 transporting the ~~biosolids residuals~~ shall maintain hauling records to track the transport
4 of ~~biosolids residuals~~ between facilities. The hauling records for each party shall
5 contain the following information:

6

7 <u>Source Facility</u>	<u>Biosolids Residuals</u> Management Facility
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8 1. Date and Time Shipped	1. Date and Time Received
----------------------------	---------------------------

9 2. Amount of Biosolids Residuals	2. Amount of Biosolids Residuals
10 Shipped	Received

11 3. Degree of Treatment	3. Name and ID Number of
12 (if applicable)	Source Facility

13 4. Name and ID Number of	4. Signature of Hauler
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14 Biosolids Residuals Management	5. Signature of Responsible
15 Facility	Party at Biosolids Residuals

16 5. Signature of Responsible	Management Facility
17 Party at Source Facility	

18 6. Signature of Hauler	
19 and Name of Hauling Firm	

20

1 (b) The hauling records shall be kept by both facility permittees for five years
2 and shall be made available for inspection upon request by the Department. A copy of
3 the hauling records information maintained by the source facility shall be provided upon
4 delivery of the ~~biosolids residuals~~ to the ~~biosolids residuals~~ management facility.

5 (c) The ~~biosolids residuals~~ management facility permittee shall report to the
6 appropriate District Office of the Department within 24 hours of discovery any
7 discrepancy in the quantity of ~~biosolids residuals~~ leaving the source facility and arriving
8 at the ~~biosolids residuals~~ management facility.

9 (5) Monitoring.

10 (a) The Department shall not require the source facility to sample and analyze
11 the ~~biosolids residuals~~ in accordance with Rule 62-640.650(3)(4), F.A.C., except as
12 required by Rule 62-640.880(5)(b), F.A.C., unless:

- 13 1. final treatment is performed by the source facility before transport to the
14 ~~biosolids residuals~~ management facility; and
- 15 2. the quality of the ~~biosolids residuals~~ is not changed at the ~~biosolids~~
16 ~~residuals~~ management facility.

17 This provision shall not prevent the source facility from performing sampling and
18 analysis separate from the source facility's Department permit if such sampling and
19 analysis is mutually agreed to by the source facility and the ~~biosolids residuals~~
20 management facility.

New subsection 62-640.880(5)(b) adds a requirement for source facility sampling/monitoring at the time of permit application for the source facility.

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1 (b) For new permits, permit renewals, or substantial permit modifications,
 2 source facilities shall sample for the parameters in Rule 62-640.650(3), F.A.C., and
 3 submit the results to the Department with the permit application.

Subsection 62-640.880(5)(b) is renumbered and revised for consistency with and to reference the monitoring section of the rule.

4 ~~(c)(b)~~ Sampling and analysis shall be conducted by the biosolids residuals
 5 management facility in accordance with Rule 62-640.650 ~~(3)(1)~~, F.A.C., and shall be
 6 performed after final treatment, but before use or land application. The minimum
 7 monitoring frequency shall be determined under Rule 62-640.650 ~~(3)(a)4.(1)(e)~~, F.A.C.
 8 The Department may increase or reduce the monitoring frequency in accordance with
 9 Rule 62-640.650, F.A.C. ~~based on industrial wastewater contribution to a source facility,~~
 10 ~~or the operating and compliance history of the residuals management facility or the~~
 11 ~~source facility, or to establish a history of residuals quality. An increase in monitoring~~
 12 ~~requirements will require a minor permit revision under Rule 62-620.325, F.A.C.~~

13 (6) Septage Management Facilities.

14 (a) Septage management facilities that treat more than 10,000 gallons per
 15 day monthly average daily flow or equivalent, or more than 20,000 gallons or equivalent
 16 on any one day, shall meet all the requirements of Rule 62-640.880, F.A.C., except that
 17 septage management facilities are exempt from the inter-facility agreement
 18 requirements of Rule 62-640.880(1)(c), F.A.C., and the hauling records requirements of
 19 Rule 62-640.880(4), F.A.C.

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1 (b) If a permittee intends to use a septage management facility to treat
 2 ~~biosolids residuals~~, the facility must be permitted as a ~~biosolids residuals~~ management
 3 facility in accordance with the requirements of this section.

4 Specific Authority 403.051, 403.061, 403.062, 403.087, 403.088, 403.704, 403.707,
 5 FS.

6 Law Implemented 403.021, 403.051, 403.061, 403.087, 403.088, 403.0881, 403.702,
 7 403.704, 403.707, 403.708, FS.

8 History - New. 3-30-98, Amended _____.

9

10 ~~_____ 62-640.900 Forms. (Repealed)~~

11 ~~Specific Authority 403.061, 403.087, 403.704, 403.707, FS.~~

12 ~~Law Implemented 403.021, 403.061, 403.087, 403.0881, 403.702, 403.704, 403.707,~~

13 ~~403.708, FS.~~

14 ~~History - New 8-12-90; Amended 3-1-91, Formerly 17-640.900, Repealed 3-30-98.~~