

ENVIRONMENTAL ASSESSMENT CHECKLIST

Use the Discussion and References space at the end of each section to document your responses. For example, explain how you determined the level of impact and document the reasoning if checking PA (possible adverse) for any resource. Attach additional pages if necessary.

1. Brief project description, including identification of selected alternative:

Upgrade of the Dodd WTP at 6800 Nimbus Road to address current deficiencies including operations of the direct filtration Trident® Microfloc up-flow clarifiers and mixed media filters; TOC removal and Disinfection By Products rule; solids handling capacity and ground water concerns with current configuration; chemical storage and feed facilities; HVAC deficiencies.

Selected alternative involves the addition of PAC for taste & odor (organics); addition of pre-treatment facilities including rapid mix/coagulation, flocculation, and sedimentation with plate settlers; filtration with MF/UF membranes; reconstruct and expand the existing back-wash ponds at an elevation that is above the groundwater table; new finished water pumping; new pre-treatment and chemical storage/feed building; abandon existing underground clearwell and construct ground supported steel clearwell.

The District has received a 1041 Permit for a capacity of 16 MGD at buildout, however the first phase of the plant will include filtration capacity necessary to meet current and immediate future demands and allow additional filtration to be added in the future as necessary. This application does not include funding for future growth projections.

2. Describe if the project will improve or maintain water quality, and if the project addresses a TMDL, and/or Watershed Management Plan.

As the Dodd WTP proposal does not include a point source discharge to any surface waters other than the WTP ponds which circulate water back to the plant, state water quality standards for water quality are not impacted.

3. Provide latitude and longitude of the proposed project (if a transmission / distribution / collection line identify the center point not the whole line):

Dodd WTP: 40.108147; -105.194792

4. Provide discharge information: N/A

5. Provide NPDES/PWSID number:

Left Hand Water District – PWSID – CO 0107471

6. Provide primary waterbody name and waterbody ID, secondary name (if available), and State designated surface water use:

Surface waters occurring on the Dodd parcel include Lefthand Creek, the Williamson Ditch, and the Caywood Ditch. There is no discharge to any bodies of water as a part of this project. See Environmental Impact Analysis – Dodd WTP Upgrade and Expansion for specific information on EIA.

7. Did your analysis consider how this project impacts community planning efforts in other areas (i.e. transportation, housing, etc.)?

Yes. Boulder County Land Use reviewed all relevant information during process to obtain 1041 Permit during public hearings before the Boulder County Commissioners.

Y = Yes N = No PA = Possible Adverse

1. Physical Aspects - Topography, Geology and Soils

- Y ___ N x PA ___ a. Are there physical conditions (e.g., steep slopes, shrink-swells soils, etc.) that might be adversely affected by or might affect construction of the WWTF facilities?
- Y ___ N x PA ___ b. Are there similar limiting physical conditions in the planning area that might make development unsuitable?
- Y ___ N x PA ___ c. Are there any unusual or unique geological features that might be affected?
- Y ___ N x PA ___ d. Are there any hazardous areas (slides, faults, etc.) that might affect construction or development?

Discussion and References:

Environmental Impact Analysis – Anderson & Company, July 28, 2008

2. Climate

- Y ___ N x PA ___ a. Are there any unusual or special meteorological constraints in the planning area that might result in an air quality problem?
- Y ___ N x PA ___ b. Are there any unusual or special meteorological constraints in the planning area that might affect the feasibility of the proposed wastewater treatment alternative?

Discussion and References:

3. Population

Y ___ N x PA ___

Y ___ N x PA ___

Y ___ N x PA ___

- a. Are the proposed growth rates excessive (exceeding State projections, greater than 6% per annum for the 20 year planning period)?
- b. Will additional growth be induced or growth in new areas encouraged as a result of facilities construction?
- c. Will the facilities serve areas which are largely undeveloped areas at present?

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1. Physical Aspects - Topography, Geology and Soils

- | | | |
|-------------------------|----|--|
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| Y ___ N <u>x</u> PA ___ | b. | Are there similar limiting physical conditions in the planning area that might make development unsuitable? |
| Y ___ N <u>x</u> PA ___ | c. | Are there any unusual or unique geological features that might be affected? |
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Discussion and References:

Environmental Impact Analysis – Anderson & Company, July 28, 2008

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Y ___ N x PA ___

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Discussion and References: *2007 Master Plan – Integra Engineering*

4. Housing, Industrial and Commercial Development and Utilities

- Y ___ N x PA ___ a. Will existing homes or business be displaced as a result of construction of this property?
- Y ___ N x PA ___ b. Will new housing serviced by this facility affect existing facilities, transportation patterns, environmentally sensitive areas, or be in special hazard or danger zones?
- Y ___ N x PA ___ c. Will new housing create strains on other utilities and services - policies, power, water supply, schools, hospital care, etc.?

Discussion and References:

These and other issues were studied as part of the Boulder County 1041 Permit application and approval. *Environmental Impact Analysis – Anderson & Company, July 28, 2008* for specific information.

5. Economics and Social Profile

- Y ___ N x PA ___ a. Will certain landowners benefit substantially from the development of land due to interceptor routing or WWTP location and size?
- Y ___ N x PA ___ b. Will the facilities adversely affect land values?
- Y ___ N x PA ___ c. Are any poor or disadvantaged groups especially affected by this project?

Discussion and References:

Environmental Impact Analysis – Anderson & Company, July 28, 2008

6. Land Use

- Y ___ N x PA ___ a. Will projected growth defeat the purpose of local land use controls (if any)?
- Y ___ N x PA ___ b. Is the location of the WWTP or other facilities incompatible with local land use plans?
- Y ___ N x PA ___ c. Will inhabited areas be adversely impacted by the project site?
- Y ___ N x PA ___ d. Will new development have adverse effects on older existing land uses (agriculture, forest land, etc.)?
- Y ___ N x PA ___ e. Will this project contribute to changes in land use in association with recreation (skiing, parks, etc.), mining or other large industrial or energy developments?

Discussion and References:

Environmental Impact Analysis – Anderson & Company, July 28, 2008

7. Floodplain Development

- Y ___ N x PA ___ a. Does the planning area contain 100 year floodplains?
If yes -
- Y ___ N x PA ___ b. Will the project be constructed in a 100 year floodplain?
- Y ___ N x PA ___ c. Will the project serve direct or indirect development in a 100 year floodplain anywhere in the planning area?

Discussion and References:

Environmental Impact Analysis – Anderson & Company, July 28, 2008

8. Wetlands

- Y x N ___ PA ___ a. Does the planning area contain wetlands as defined by the U.S. Fish and Wildlife Service?
If yes -
- Y ___ N x PA ___ b. Will any major part of the treatment works be located on wetlands?
- Y ___ N x PA ___ c. Will the project serve growth and development which will directly or indirectly affect wetlands?

Discussion and References:

EIA discusses protection of wetlands at WTP during construction in Section 2.25. Any development potential in the Left Hand Water District is the responsibility of the individual communities that are served. LHWD has no land use authority.

9. Wild and Scenic Rivers

- Y ___ N x PA ___ a. Does the planning area contain a designated or proposed wild and scenic river?
If yes -
- Y ___ N x PA ___ b. Will the project be constructed near the river?
- Y ___ N x PA ___ c. Will projected growth and development take place contiguous to or upstream from the river segment?
- Y ___ N x PA ___ d. Will the river segment be used for disposal of effluent?

Discussion and References:

10. Cultural Resources (Archeological/Historical)

Y ___ N x PA ___ a. Are there any properties (historic, architectural, archeological) in the planning area which are listed on or eligible for listing on the National Register of Historic Places?

Y ___ N ___ PA ___ b. If yes - Will the project have direct or indirect adverse impacts on any listed or eligible property?

Discussion and References:

11. Flora and Fauna (including endangered species)

- Y ___ Nx ___ PA ___ a. Are there any designated threatened or endangered species or their habitat in the planning area?
- Y ___ Nx ___ PA ___ b. Will the project have direct or indirect adverse impacts on any such designated species?
- Y ___ Nx ___ PA ___ c. Will the project have direct or indirect adverse impacts on fish, wildlife or their habitat including migratory routes, wintering or calving areas?
- Y ___ Nx ___ PA ___ d. Does the planning area include a sensitive habitat area designed by a local, State or Federal wildlife agency?

Discussion and References:

12. Recreation and Open Space

- Y ___ Nx ___ PA ___ a. Will the project eliminate or modify recreational open space, parks or areas of recognized scenic or recreational value?
- Y ___ Nx ___ PA ___ b. Is it feasible to combine the project with parks, bicycle paths, hiking trails, waterway access and other recreational uses?

Discussion and References:

13. Agricultural Lands

- Y ___ N x PA ___ a. Does the planning area contain any environmentally significant agricultural lands (prime, unique, statewide importance, local importance, etc.) as defined in the EPA Policy to Protect Environmentally Significant Agricultural Lands dated September 8, 1978?
- Y ___ N x PA ___ b. Will the project directly or indirectly encourage the irreversible conversion of Environmentally Significant Agricultural Lands to uses which result in the loss of these lands as an environmental or essential food production resource?

Discussion and References:

Environmental Impact Analysis – Anderson & Company, July 28, 2008

All lands on the Dodd parcel that are currently in agricultural use will remain agricultural. The proposed project will therefore not cause the loss of significant agricultural lands.

14. Air Quality

- | | | |
|-------------------------|----|--|
| Y ___ N <u>x</u> PA ___ | a. | Are there any direct air emissions from the project (e.g., odor controls, sludge incinerator) which do not meet Federal and State emission standards contained in the State Air Quality Implementation Plan (SIP)? |
| Y ___ N <u>x</u> PA ___ | b. | Is the project service area located in an area without an approved or conditionally approved SIP? |
| Y <u>x</u> N ___ PA ___ | c. | Is the increased capacity of the project greater than 1 mgd? |
| Y ___ N <u>x</u> PA ___ | d. | Do the population projections used in the facilities plan exceed the State or areawide projections in the SIP by more than 5%? |
| Y <u>x</u> N ___ PA ___ | e. | Does the project conform with the requirements of the SIP? (See EPA regulations under Section 316 of the Clean Air Act.) |
| Y ___ N <u>x</u> PA ___ | f. | Is the project inconsistent with the SIP of an adjoining State that may be impacted by the Project? |
| Y ___ N <u>x</u> PA ___ | g. | Does the project violate national ambient Air Quality Standards in an attainment or unclassified area? |
| Y ___ N <u>x</u> PA ___ | h. | Will the facilities create an odor nuisance problem? |

Discussion and References:

15. Water Quality and Quantity (Surface/Groundwater)

- | | | |
|--------------------------|----|--|
| Y ___ N <u>na</u> PA ___ | a. | Are present stream classifications in the receiving stream being challenged as too low to protect present or recent uses? |
| Y ___ N <u>na</u> PA ___ | b. | Is there a substantial risk that the proposed discharge will not meet existing stream standards or will not be of sufficient quality to protect present or recent stream uses? |
| Y ___ N <u>na</u> PA ___ | c. | Will construction of the project and development to be served by the project result in non-point water quality problems (sedimentation, urban stormwater, etc.)? |
| Y ___ N <u>x</u> PA ___ | d. | Will water rights be adversely affected by the project? |
| Y ___ N <u>x</u> PA ___ | e. | Will the project cause a significant amount of water to be transferred from one sub-basin to another (relative to the 7-day, 10 year flow of the diverted basin)? |
| Y ___ N <u>x</u> PA ___ | f. | Will stream habitat be affected as a result of the change in flow or stream bank modification? |
| Y ___ N <u>x</u> PA ___ | g. | Are stream conditions needed for deciding upon the required limitations inadequately specified in the 208 Plan? If so, have the wasteload allocations calculations been performed and approved by the State and EPA? |
| Y ___ N <u>x</u> PA ___ | h. | Is an Antidegradation Review required? |
| Y ___ N <u>x</u> PA ___ | i. | Will the project adversely affect the quantity or quality of a groundwater resource? |

- Y ___ N x PA ___ j. Does the project adversely affect an aquifer used as a potable drinking water supply?
- Y x N ___ PA ___ k. Are there additional cost effective water conservation measures that could be adopted by community to reduce sewage generation?

Discussion and References:

Environmental Impact Analysis – Anderson & Company, July 28, 2008 The District has a Water Conservation Plan which addresses water conservation measures.

16. Public Health

- Y ___ N x PA ___ a. Will there be adverse direct or indirect noise impacts from the project?
- Y ___ N x PA ___ b. Will there be a vector problem (e.g., mosquito) from the project?
- Y ___ N x PA ___ c. Will there be any unique public health problems as a result of the project (e.g., increased disease risks)?

Discussion and References:

17. Solid Waste (Sludge Management)

- Y ___ N x PA ___ a. Will sludge disposal occur in an area with inadequate sanitary landfills or on land unsuitable for land application?
- Y ___ N x PA ___ b. Are there special problems with the sludge that makes disposal difficult (hazardous, difficult to treat)?
- Y ___ N x PA ___ c. Is the technology selected for sludge disposal controversial?

Discussion and References:

18. Energy

- Y x N ___ PA ___ a. Are there additional cost effective measures to reduce energy consumption or increase energy recovery which could be included in this project?

Discussion and References:

Final design will address issues related to VFD's lighting and other energy saving measures. See *Environmental Impact Analysis – Anderson & Company, July 28, 2008*

19. Land Application

- Y ___ N x PA ___ a. Has a new or unproven technique been selected?
- Y ___ N x PA ___ b. Is there considerable public controversy about the project?

- Y ___ N x PA ___ c. Will the project require additional water rights or impact existing water Rights?
- Y ___ N x PA ___ d. Is the project multi-purpose?

Discussion and References:

20. Regionalization

- Y ___ N x PA ___ a. Are there jurisdictional disputes or controversy over the project?
- Y ___ N x PA ___ b. Is conformance with the 208 plan in question?
- Y ___ N x PA ___ c. Is the proliferation of small treatment plants and septic systems creating a significant health problem?
- Y x N ___ PA ___ d. Have inter-jurisdictional agreements been signed?

Discussion and References:

The District has an IGA for the provision of water service to the Town of Frederick on the west side of Interstate 25 within the Left Hand Water District service area. There are also IGA's with Longmont, Boulder and Erie related to the planning areas and the annexation of lands into their municipal boundaries.

21. Public Participation

- Y ___ N x PA ___ a. Is there a substantial level of public controversy?
- Y x N ___ PA ___ b. Is there adequate evidence of public participation in the project?

Discussion and References: The District held informational meetings for neighbors and the project has received an approval from Boulder County during a 1041 Permit application and public hearings.

22. Environmental Laws

- Y ___ N x PA ___ a. Does the project threaten to violate any State, Federal or local law or requirement imposed to protect the environment?

Discussion and References:

Prepared By: Christopher Smith, General Manager – Left Hand Water District
Name, Title, and Affiliation

Date: 11-12-13

Reviewed By (WQCD): _____
Name and Title

Date: _____

Environmental Determination: (Circle One) CE EA EIS