ENVIRONMENTAL ASSESSMENT CHECKLIST

VALLEY SANITATION DISTRICT – INTERCEPTOR RELOCATION PROJECT

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: Three Alternatives were evaluated. The alternative that was selected includes replacing the line along South Clay Street and installation of a new lift station. The line would traverse along South Clay Street to West Oxford Avenue. The line would then turn east on West Oxford Avenue to a tie-in location where it would tie into the existing line. A new lift station would pump flows to the high point of the alignment along South Clay Street. From the high point, the flow would transition from gravity to the tie-in point.
- 2. Describe if the project will improve or maintain water quality, and if the project addresses a TMDL, and/or Watershed Management Plan.
 - This project does not specifically address water quality, TMDLs or a Watershed Management Plan. It provides for the reconstruction of an existing sewer pipe that is severely corroded and at risk of failing. If this sewer pipe were to fail, untreated wastewater would likely flow into the South Platte River, creating significant water quality concerns. This project seeks to eliminate that risk by construction a new lift station and sewer force main to replace the existing gravity sewer pipe.
- 3. Provide latitude and longitude of the proposed project (if a transmission / distribution / collection line identify the center point not the whole line): The latitude and longitude for the approximate center point are 39.638906°N/105.021867°W.
- 4. Provide discharge information:
 - This is a lift station and interceptor pipeline. As this project involves the replacement of infrastructure already in existence with no increase in capacity discharge information is not applicable. Any and all discharge standards are maintained by the entity treating the wastewater, which is the City of Englewood via the Littleton-Englewood Wastewater Treatment Plant.
- 5. Provide NPDES/PWSID number:
 - The Valley Sanitation District does not have an NPDES or PWSID number. The District's wastewater discharges to the Littleton/Englewood Wastewater Treatment Plant (L/EWWTP).
- 6. Provide primary waterbody name and waterbody ID, secondary name (if available), and State designated surface water use:
 - This project does not include any treatment facilities as it is the reconstruction of an existing interceptor sewer line. The sewer line conveys raw wastewater to the L/EWWTP where it is treated and discharged to the South Platte River. The District has no control over this treatment plant as the cities of Englewood and Littleton own and operate it.
- 7. Did your analysis consider how this project impacts community planning efforts in other areas (i.e. transportation, housing, etc.)?
 - This project does not support any growth or new development. It is the reconstruction of an existing sewer line to provide for more stable long-term operation and safer working conditions for the system operators. Providing reliable wastewater collection service supports any community planning efforts by ensuring citizens have a way for their wastewater to be conveyed to the wastewater treatment plant in a safe and cost-effective method.

1. Physical Aspects - Topography, Geology and Soils Y □ N ☒ 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 ⋈ PA □ b. Are there similar limiting physical conditions in the planning area that might make development unsuitable? $Y \square N \boxtimes PA \square$ c. Are there any unusual or unique geological features that might be affected? Y □ N ⋈ PA □ d. Are there any hazardous areas (slides, faults, etc.) that might affect construction or development? Discussion and References: Preliminary soil borings at the location of the new lift station and along the selected sewer pipe alignment do not show any unusual subsurface conditions. A preliminary review of the project site did not indicate the presence of any physical conditions that would affect construction. No hazardous areas were present that would affect construction. As this project does not support new development, a review of limiting physical conditions or hazardous areas was not conducted for the planning area. 2. Climate Y \square N \boxtimes PA \square a. Are there any unusual or special meteorological constraints in the planning area that might result in an air quality problem? Y □ N ⋈ 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: There are no known unusual or special meteorological constraints in the planning area. The majority of the area served by the District is residential with very limited commercial and industrial activities. As this project does not include any wastewater treatment alternatives, the second question is not applicable. 3. Population Y □ N ☒ PA □ a. Are the proposed growth rates excessive (exceeding State projections, greater than 6% per annum for the 20 year planning period)? $Y \square N \boxtimes PA \square$ b. Will additional growth be induced or growth in new areas encouraged as a result of facilities construction? $Y \square N \boxtimes PA \square$ c. Will the facilities serve areas which are largely undeveloped areas at present? Discussion and References: The District's service area is almost 100% built-out. The District is allocated approximately 2,250 taps as part of the Connector's Agreement with the City of Englewood. At the end of 2016, 2,240 of those have connected to the system. Absent any possible redevelopment – which is not expected in this service area – little to no additional growth is planned. 4. Housing, Industrial and Commercial Development and Utilities Y □ N ⋈ PA □ a. Will existing homes or business be displaced as a result of construction of this property? $Y \square N \boxtimes PA \square$ 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 \square N \boxtimes PA \square c. Will new housing create strains on other utilities and services - policies, power, water supply, schools, hospital care, etc.? **Discussion and References:**

Y = Yes; N = No; PA = Possible Adverse

For the following questions:

No homes or businesses will be displaced due to the construction of this project. Any temporary impacts during construction activities in public roadways will be appropriately managed.

No new housing or development is expected as a result of this project – this project will not increase the capacity of the District's wastewater collection system.

 5. Economics and Social Profile Y □ N ⋈ PA □ a. Will certain landowners benefit substantially from the development of land due to interceptor routing or WWTP location and size? Y □ N ⋈ PA □ b. Will the facilities adversely affect land values?
Y □ N ☒ PA □ c. Are any poor or disadvantaged groups especially affected by this project? Discussion and References: As the Valley Sanitation District service area is almost 100% built-out, there is no opportunity for any landowner to benefit from the project beyond what is already expected. This is project is an infrastructure replacement project, not an expansion project. As the project will be located within an area that does not have residential properties, there is not an expectation that this project will adversely affect land values. Additionally, no one specific population group will be especially affected due to the location of the project away from any residential areas.
 6. Land Use Y □ N ⋈ PA □ a. Will projected growth defeat the purpose of local land use controls (if any)? Y □ N ⋈ PA □ b. Is the location of the WWTP or other facilities incompatible with local land use plans? Y □ N ⋈ PA □ c. Will inhabited areas be adversely impacted by the project site? Y □ N ⋈ PA □ d. Will new development have adverse effects on older existing land uses (agriculture, forest land, etc.)? Y □ N ⋈ 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: The proposed sewer pipe and lift station will replace the current gravity sewer main in-kind. No additional capacity will be added beyond what exists in current Connector Agreements with the City of Englewood. As the Valley Sanitation District is almost 100% built-out, there is no expected growth that would conflict with existing land use controls. Additionally, this project will not adversely impact any current land uses or contribute to changes in land use within the planning area.
7. Floodplain Development Y □ N ⋈ PA □ a. Does the planning area contain 100 year floodplains? If yes − Y □ N □ PA □ b. Will the project be constructed in a 100 year floodplain? Y □ N □ PA □ c. Will the project serve direct or indirect development in a 100 year floodplain anywhere in the planning area?
Discussion and References: See the attached maps to verify the planning/project area is not within the floodplain. These include FEMA map #08005C0144K and a self-created map from the Arapahoe County GIS (AreaMap) system. 100 year floodplains are located to the north and east of the project site, but not within the boundaries associated with this project.
8. Wetlands Y ☑ N ☐ PA ☐ a. Does the planning area contain wetlands as defined by the U.S. Fish and Wildlife Service? If yes -

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Y □ N ⋈ PA □ Y □ N ⋈ PA □	b. Will any major part of the treatment works be located on wetlands?c. Will the project serve growth and development which will directly or indirectly affect wetlands?
associated freshv	eferences: sociated with this project will be located less than 300 feet from Centennial Lake and an vater pond (see attached map). Appropriate mitigation measures will be taken during the see and spill prevention procedures will be developed for when the lift station is operating.
development tha	ect will be located directly on wetlands. Additionally, this project will not serve growth or t would adversely impact identified wetlands in any way. As mentioned in other places, this existing infrastructure in-kind and does not add any capacity to the system.
9. Wild and Sceni	ic Rivers
Y □ N ⋈ PA □	a. Does the planning area contain a designated or proposed wild and scenic river?
If yes − Y □ N □ PA □	b. Will the project be constructed near the river?
Y □ N □ PA □	c. Will projected growth and development take place contiguous to or upstream from the river segment?
$Y \square N \square PA \square$	d. Will the river segment be used for disposal of effluent?
scenic river (acco	eferences: is located close to the South Platte River, that river is not a designated or proposed wild and rding to information provided by the U.S. National Park Service). ars.gov/colorado.php
$Y \boxtimes N \square PA \square$	urces (Archeological/Historical) 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?
If yes − Y □ N ⊠ PA □	b. Will the project have direct or indirect adverse impacts on any listed or eligible property?
Discussion and Re	eferences: residential subdivision in Littleton, Colorado listed as a historic district in the National Register
of Historic Places homes. This proje interceptor reloca fail. If that happe	The Valley Sanitation District provides wastewater collection service to this community of 56 ect will provide safe and reliable wastewater collection service to this community. If this ation project is not constructed, there is significant potential for the existing interceptor pipe to ns, sewer service to this community would be disrupted for an indeterminate amount of time, in sewer backups into the homes.
11. Flora and Fau	na (including endangered species)
$Y \square N \boxtimes PA \square$	a. Are there any designated threatened or endangered species or their habitat in the planning area?
Y □ N ⊠ PA □	b. Will the project have direct or indirect adverse impacts on any such designated species?
$Y \square N \boxtimes PA \square$	c. Will the project have direct or indirect adverse impacts on fish, wildlife or their habitat including migratory routes, wintering or calving areas?
Y □ N ⊠ PA □	d. Does the planning area include a sensitive habitat area designed by a local, State or Federal wildlife agency?
Discussion and Re	eferences:

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According to the Critical Habitat for Threatened & Endangered Species mapping system provided by the US Fish & Wildlife Service, there are no designated threatened or endangered species located within the project or planning area (see attached Q11 map). Additionally, the Colorado Wildlife Habitat Protection Program does not designate any sensitive habitat areas within the planning or project boundaries.

http://cpw.state.co.us/learn/Maps/CWHPP-Properites-Protected-Map.pdf
12. Recreation and Open Space
Y \(\text{N} \) PA \(\text{D} \) a. Will the project eliminate or modify recreational open space, parks or areas of recognized scenic or recreational value?
$Y \square N \boxtimes PA \square$ b. Is it feasible to combine the project with parks, bicycle paths, hiking trails, waterway access and other recreational uses?
Discussion and References:
The new lift station will be located within the boundaries of Centennial Park, which is owned and operated by the City of Englewood. Discussions have commenced with them regarding this project and they are supportive of the proposed location of the lift station. Due to the location of most of the pipe alignment in area zoned for commercial/industrial uses, it is not feasible to combine it with any recreational uses.
The lift station will be located in the far northwest corner of the parking lot, bounded to the west by an industrial park (Centennial Trade Center) and to the north by a very high retaining wall for a parcel owned by Excel Properties LLC. The lift station will be designed to minimize above-ground structures. The architectural components of any above-ground structures will be agreed upon in collaboration with staff from the City of Englewood's Parks Department.
13. Agricultural Lands
 Y □ N ⋈ 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 ⋈ 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:
The entire service area of the Valley Sanitation District is fully developed and zoned for residential, commercial or industrial use. There are no agricultural lands of any kind located within the service area. Reference zoning maps from Arapahoe County, City of Englewood and City of Sheridan. http://www.englewoodgov.org/home/showdocument?id=1724 http://co-sheridan.civicplus.com/DocumentCenter/Home/View/169
14. Air Quality
Y □ N ☒ 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)?
$Y \square N \boxtimes PA \square$ b. Is the project service area located in an area without an approved or conditionally approved SIP?
Y \square N \boxtimes PA \square c. Is the increased capacity of the project greater than 1 mgd?
Y □ N ⋈ PA □ d. Do the population projections used in the facilities plan exceed the State or area-wide projections in the SIP by more than 5%?
$Y \boxtimes N \square PA \square$ e. Does the project conform with the requirements of the SIP? (See EPA regulations under

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 $Y \square N \boxtimes PA \square$ f. Is the project inconsistent with the SIP of an adjoining State that may be impacted by the

Section 316 of the Clean Air Act.)

Project?

$Y \square N \boxtimes PA \square$	Does the project violate national ambient Air Quality Standards in an attainment or					
$Y \square N \boxtimes PA \square$	unclassified area? n. Will the facilities create an odor nuisance problem?					
applicable. The p odor control tech turbulence withir	eferences: Imal (if any) air emissions associated with this project, most of these questions are not lumps within the lift station will be powered by a traditional electricity source. Very small scale landlogy may be applied where needed within the project to eliminate any odors created by the lift station or discharge point. An emergency generator powered by diesel fuel is included an and will conform with all regulatory requirements for operation.					
15. Water Qualit	y and Quantity (Surface/Groundwater)					
Y □ N ⋈ PA □	a. Are present stream classifications in the receiving stream being challenged as too low to					
	protect present or recent uses?					
$Y \;\square\; N \;\boxtimes\; PA \;\square$	b. Is there a substantial risk that the proposed discharge will not meet existing stream					
$Y \square N \boxtimes PA \square$	standards or will not be of sufficient quality to protect present or recent stream uses? 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.)?					
$Y \;\square\; N \;\boxtimes\; PA \;\square$	d. Will water rights be adversely affected by the project?					
$Y \square N \boxtimes PA \square$	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)?					
$Y \square N \boxtimes PA \square$	f. Will stream habitat be affected as a result of the change in flow or stream bank modification?					
Y □ N ⊠ 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 ⊠ PA □	h. Is an Antidegradation Review required?					
$Y \square N \boxtimes PA \square$	i. Will the project adversely affect the quantity or quality of a groundwater resource?					
$Y \square N \boxtimes PA \square$	j. Does the project adversely affect an aquifer used as a potable drinking water supply?					
Y □ N ⊠ PA □	k. Are there additional cost effective water conservation measures that could be adopted by community to reduce sewage generation?					
Discussion and Re	eferences:					
of an existing was from a gravity co	not adversely impact groundwater or surface water quality or quantity as it is the replacement stewater collection pipe. A lift station is planned due to this sewer pipe needing to transition llection system to a pumped system. This change is planned to provide better access to the peration and maintenance activities.					
bank modification	not include any new wastewater discharges, services to any new developments, flow or streamns, or impacts on aquifers or groundwater resources. Substantial water conservation efforts n undertaken in collaboration with Denver Water and no new efforts are planned as part of this					
16. Public Health						
$Y \square N \boxtimes PA \square$	a. Will there be adverse direct or indirect noise impacts from the project?					
Y □ N ⋈ PA □	b. Will there be a vector problem (e.g., mosquito) from the project?					
Y □ N ⊠ PA □	c. Will there be any unique public health problems as a result of the project (e.g., increased disease risks)?					
Discussion and Re	eferences:					

There will be no permanent adverse noise impacts from this project. The pump station will be fully enclosed and any noise from operation will be appropriately mitigated using sound-proof enclosures. Temporary noise impacts from the project are expected during the construction phase. The majority of the construction will be along an industrial corridor on South Clay Street and West Oxford Avenue. Noise resulting from construction performed within Centennial Park will be appropriately mitigated.

No vector problems are expected from this project. This project will prevent the potential for vector problems by eliminating the existing possibility of a sewer line failure. If the existing sewer line located within the abandoned landfill were to fail it would result in the flow of untreated wastewater onto private property, into the South Platte River, and potentially into Centennial Park. With the construction of this project, this potential public health problem would be eliminated.

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Discussion and References:

As this project will replace existing infrastructure and not change the capacity of the existing sewer pipe, it is expected to fully comply with all existing planning efforts and regulations. Agreements have existed for decades between the District and the City of Englewood regarding acceptance of the District's wastewater for treatment at the L/EWWTP.

An agreement regarding the location of the lift station within the boundaries of Centennial Park is in development. It is expected that the City of Englewood will provide a temporary construction easement and a perpetual operational easement to the District.

21. Public Participation	<u>1</u>		
$Y \;\square\; N \boxtimes PA \;\square a. \; Is$	there a substant	tial level of public controversy?	
Y⊠N□PA□ b. Is	there adequate	evidence of public participation in the	project?
Discussion and Referen	ces:		
		in the first half of 2017. District custon	_
		ished in the Denver Post, Littleton Inde	-
		as widely evident although questions re	
· ·	nal public meeti	ngs will be conducted once more detail	ils are available regarding how the
project will proceed.	ot Doctoord for	Customore	
Valley Sanitation Distric	st - Postcaru for t	Customers	
22. Environmental Law	<u>/S</u>		
$Y \square N \boxtimes PA \square$ a. Do	oes the project th	hreaten to violate any State, Federal o	r local law or requirement imposed
to	protect the envi	ironment?	
Discussion and Referen	ces:		
•		requirements imposed to protect the	environment. The proposed route
of the sewer pipe avoid	ls any areas that	could potentially be environmentally,	culturally or historically sensitive.
The alignment of the no	ew pipe is solely	along public streets in areas designate	d for commercial or industrial
activities. The location	of the new lift st	ation within Centennial Park will be do	one in conformance with all
applicable regulations a	as dictated by the	e City of Englewood.	
			_
		sistant Manager, Platte Canyon Water of	& Sanitation District
name,	Title, and Affiliat	tion:	
Date:			
Reviewed By (WQCD):			-
	Name and Title	:	
Date:			
Environmental Determ	ination: (Circle O	One)	
CE	EA	EIS	
<u> </u>			